



**Delta**  
Environmental  
Consultants, Inc.

JUL 23 2001

3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916-636-2085  
FAX: 916-636-8385

July 18, 2001

Mr. John Sullivan  
17760 Sweetbriar Place  
Castro Valley, CA 94546

Subject: *Quarterly Groundwater Monitoring Report, First Quarter 2001*  
Chateau Manor Apartments  
724 Lewelling Boulevard  
San Leandro, California  
Delta Project No. D000-303

Dear Mr. Sullivan:

Delta Environmental Consultants, Inc. is submitting the attached copy of the laboratory analytical results (Enclosure A) for the groundwater sample collected from monitoring wells MW-9 and MW-10 during the first quarter 2001. **The wells are located at the Chateau Manor Apartments, 724 Lewelling Boulevard, San Leandro, California.** The groundwater samples were collected during quarterly **sampling of the ARCO Products Company Service Station No. 0601, located at 712 Lewelling Boulevard, San Leandro, California (Figure 1).** Monitoring Well MW-9 is sampled semi-annually during the first and third quarters.

If you have any questions regarding this letter, please call Steven Meeks at (916) 536-2613.

Sincerely,

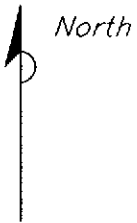
**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

  
Steven W. Meeks, P.E.  
Project Manager

SWM (CL004.303.doc)

Enclosure

cc: Mr. Paul Supple – ARCO Products Company  
Mr. Scott Seery – Alameda County Health Care Services



LEWELLING BOULEVARD

DRIVEWAY

SIDEWALK

ARCO SERVICE  
STATION 601

APPROXIMATE PROPERTY LINE

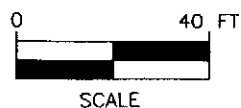
EXISTING  
BUILDING

● MW-9

● MW-10

LEGEND:

● MW-9 MONITORING WELL LOCATION



NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES.  
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

FIGURE 1

SITE MAP

CHATEAU MANOR APARTMENTS  
724 LEWELLING BOULEVARD  
SAN LEANDRO, CALIFORNIA

|                         |                         |
|-------------------------|-------------------------|
| PROJECT NO.<br>D000-303 | DRAWN BY<br>TLA 9/28/00 |
| FILE NO.<br>CHATEAU-1   | PREPARED BY<br>TLA      |
| REVISION NO.<br>1       | REVIEWED BY             |



**ENCLOSURE A**

Copy of Certified Analytical Results for  
Monitoring Well MW-10 and  
Chain of Custody

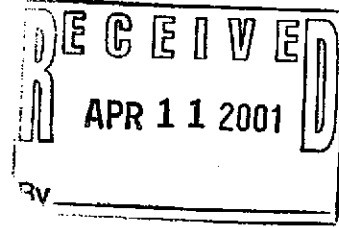


**Sequoia  
Analytical**

819 Striker Avenue, Suite 8  
Sacramento, CA 95834  
(916) 921-9600  
FAX (916) 921-0100  
www.sequoialabs.com

April 06, 2001

Steven Meeks  
Delta Environmental Consultants(Rancho Cordova)  
1164 Gold Camp Drive Ste. 200  
Rancho Cordova, CA 95670  
RE: ARCO 601, San Leandro, CA / S104005



Enclosed are the results of analyses for samples received by the laboratory on 03/30/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew  
Client Services Representative

Lito Diaz  
Laboratory Director

CA ELAP Certificate Number 1624





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/06/01 13:15

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| MW-9-7    | S104005-01    | Water  | 03/28/01 18:36 | 03/30/01 17:05 |
| MW-10-7   | S104005-02    | Water  | 03/28/01 18:40 | 03/30/01 17:05 |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/06/01 13:15

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

### Sequoia Analytical - Sacramento

| Analyte                                                                            | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method   | Notes |
|------------------------------------------------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|----------|-------|
| <b>MW-9-7 (S104005-01) Water</b> Sampled: 03/28/01 18:36 Received: 03/30/01 17:05  |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                             | ND     | 50.0               | ug/l   | 1        | 1040067 | 04/04/01 | 04/04/01 | DHS LUFT |       |
| Benzene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                       | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                    | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                            | ND     | 2.50               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                  |        | 74.1 %             | 60-140 |          | "       | "        | "        | "        |       |
| <b>MW-10-7 (S104005-02) Water</b> Sampled: 03/28/01 18:40 Received: 03/30/01 17:05 |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                             | ND     | 50.0               | ug/l   | 1        | 1040067 | 04/04/01 | 04/04/01 | DHS LUFT |       |
| Benzene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                       | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                    | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                            | ND     | 2.50               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                  |        | 94.4 %             | 60-140 |          | "       | "        | "        | "        |       |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/06/01 13:15

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Sacramento

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

### Batch 1040067 - EPA 5030B (P/T)

#### Blank (1040067-BLK1)

Prepared & Analyzed: 04/04/01

|                                   |      |       |      |      |  |      |        |  |  |  |
|-----------------------------------|------|-------|------|------|--|------|--------|--|--|--|
| Purgeable Hydrocarbons            | ND   | 50.0  | ug/l |      |  |      |        |  |  |  |
| Benzene                           | ND   | 0.500 | "    |      |  |      |        |  |  |  |
| Toluene                           | ND   | 0.500 | "    |      |  |      |        |  |  |  |
| Ethylbenzene                      | ND   | 0.500 | "    |      |  |      |        |  |  |  |
| Xylenes (total)                   | ND   | 0.500 | "    |      |  |      |        |  |  |  |
| Methyl tert-butyl ether           | ND   | 2.50  | "    |      |  |      |        |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 9.52 |       | "    | 10.0 |  | 95.2 | 60-140 |  |  |  |

#### LCS (1040067-BS1)

Prepared & Analyzed: 04/04/01

|                                   |      |       |      |      |  |      |        |  |  |  |
|-----------------------------------|------|-------|------|------|--|------|--------|--|--|--|
| Benzene                           | 9.68 | 0.500 | ug/l | 10.0 |  | 96.8 | 70-130 |  |  |  |
| Toluene                           | 9.83 | 0.500 | "    | 10.0 |  | 98.3 | 70-130 |  |  |  |
| Ethylbenzene                      | 9.77 | 0.500 | "    | 10.0 |  | 97.7 | 70-130 |  |  |  |
| Xylenes (total)                   | 29.2 | 0.500 | "    | 30.0 |  | 97.3 | 70-130 |  |  |  |
| Methyl tert-butyl ether           | 9.20 | 2.50  | "    | 10.0 |  | 92.0 | 70-130 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 9.12 |       | "    | 10.0 |  | 91.2 | 60-140 |  |  |  |

#### Matrix Spike (1040067-MS1)

Source: S104004-05

Prepared & Analyzed: 04/04/01

|                                   |      |       |      |      |    |      |        |  |  |  |
|-----------------------------------|------|-------|------|------|----|------|--------|--|--|--|
| Benzene                           | 9.89 | 0.500 | ug/l | 10.0 | ND | 98.9 | 60-140 |  |  |  |
| Toluene                           | 9.75 | 0.500 | "    | 10.0 | ND | 97.5 | 60-140 |  |  |  |
| Ethylbenzene                      | 9.77 | 0.500 | "    | 10.0 | ND | 97.7 | 60-140 |  |  |  |
| Xylenes (total)                   | 29.2 | 0.500 | "    | 30.0 | ND | 97.3 | 60-140 |  |  |  |
| Methyl tert-butyl ether           | 10.5 | 2.50  | "    | 10.0 | ND | 105  | 60-140 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 10.3 |       | "    | 10.0 |    | 103  | 60-140 |  |  |  |

#### Matrix Spike Dup (1040067-MSD1)

Source: S104004-05

Prepared & Analyzed: 04/04/01

|                                   |      |       |      |      |    |      |        |      |    |  |
|-----------------------------------|------|-------|------|------|----|------|--------|------|----|--|
| Benzene                           | 10.1 | 0.500 | ug/l | 10.0 | ND | 101  | 60-140 | 2.10 | 25 |  |
| Toluene                           | 9.90 | 0.500 | "    | 10.0 | ND | 99.0 | 60-140 | 1.53 | 25 |  |
| Ethylbenzene                      | 10.0 | 0.500 | "    | 10.0 | ND | 100  | 60-140 | 2.33 | 25 |  |
| Xylenes (total)                   | 29.9 | 0.500 | "    | 30.0 | ND | 99.7 | 60-140 | 2.37 | 25 |  |
| Methyl tert-butyl ether           | 9.96 | 2.50  | "    | 10.0 | ND | 99.6 | 60-140 | 5.28 | 25 |  |
| Surrogate: a,a,a-Trifluorotoluene | 10.9 |       | "    | 10.0 |    | 109  | 60-140 |      |    |  |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/06/01 13:15

## Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference



Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant  
APC-3292 (2-91)

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Acct Per: 06/2001  
Page 2349

| P r o j e c t |                     | Total   | Direct     | Direct       |          |        | ---Net---                |      | ---Lbr---   |      | Profit Margin |        |       |     |
|---------------|---------------------|---------|------------|--------------|----------|--------|--------------------------|------|-------------|------|---------------|--------|-------|-----|
| Fee Amount    | Earned Revenue      |         | Labor Cost | Expense Cost | Overhead | Profit | Actual/Goal              |      | Actual/Goal |      | Actual        | Target | Goal  |     |
| -----         |                     |         |            |              |          |        |                          |      |             |      |               |        |       |     |
| DG11-093-A    | CHEVRON STATION NO. | 1001093 |            |              | Client   | CHE05  | CHEVRON PRODUCTS COMPANY |      |             |      | Fee Code = CP |        | A     |     |
|               | MTD                 | 470.00  | 127.88     | .00          |          | .00    | 342.12                   | 3.67 | 3.67        | 3.67 | 4.26          | 72.79  | 72.79 | .00 |
|               | YTD                 | 1178.97 | 373.85     | .00          |          | .00    | 805.12                   | 3.15 | 3.16        | 3.16 | 4.26          | 68.29  | 68.45 | .00 |
|               | PTD                 | 2473.36 | 802.23     | 29.39        |          | .00    | 1641.74                  | 3.04 | 3.05        | 3.05 | 4.26          | 66.37  | 66.45 | .00 |
|               |                     |         |            |              |          |        |                          |      |             |      |               |        |       |     |
| *** Proj      | MTD                 | 470.00  | 127.88     | .00          |          | .00    | 342.12                   | 3.67 | 3.67        | 3.67 | 4.26          | 72.79  | 72.79 | .00 |
|               | YTD                 | 1178.97 | 373.85     | .00          |          | .00    | 805.12                   | 3.15 | 3.16        | 3.16 | 4.26          | 68.29  | 68.45 | .00 |
|               | PTD                 | 2473.36 | 802.23     | 29.39        |          | .00    | 1641.74                  | 3.04 | 3.05        | 3.05 | 4.26          | 66.37  | 66.45 | .00 |
| =====         |                     |         |            |              |          |        |                          |      |             |      |               |        |       |     |
| DG11-093-C    | CHEVRON STATION NO. | 1001093 |            |              | Client   | CHE05  | CHEVRON PRODUCTS COMPANY |      |             |      | Fee Code = CP |        | I     |     |
|               | MTD                 | .00     | .00        | .00          |          | .00    | .00                      | .00  | .00         | .00  | 4.26          | .00    | .00   | .00 |
|               | YTD                 | .00     | .00        | .00          |          | .00    | .00                      | .00  | .00         | .00  | 4.26          | .00    | .00   | .00 |
|               | PTD                 | 1200.00 | 415.76     | .00          |          | .00    | 784.24                   | 2.88 | 2.88        | 2.88 | 4.26          | 65.35  | 65.35 | .00 |
|               |                     |         |            |              |          |        |                          |      |             |      |               |        |       |     |
| *** Proj      | MTD                 | .00     | .00        | .00          |          | .00    | .00                      | .00  | .00         | .00  | 4.26          | .00    | .00   | .00 |
|               | YTD                 | .00     | .00        | .00          |          | .00    | .00                      | .00  | .00         | .00  | 4.26          | .00    | .00   | .00 |
|               | PTD                 | 1200.00 | 415.76     | .00          |          | .00    | 784.24                   | 2.88 | 2.88        | 2.88 | 4.26          | 65.35  | 65.35 | .00 |
| =====         |                     |         |            |              |          |        |                          |      |             |      |               |        |       |     |
| DG11-093-D    | CHEVRON STATION NO. | 1001093 |            |              | Client   | CHE05  | CHEVRON PRODUCTS COMPANY |      |             |      | Fee Code = CP |        | A     |     |
|               | MTD                 | 240.00  | 87.57      | .00          |          | .00    | 152.43                   | 2.74 | 2.74        | 2.74 | 4.26          | 63.51  | 63.51 | .00 |
|               | YTD                 | 637.50  | 286.03     | .00          |          | .00    | 351.47                   | 2.22 | 2.22        | 2.22 | 4.26          | 55.13  | 55.13 | .00 |
|               | PTD                 | 3431.00 | 1219.84    | 1.00         |          | .00    | 2210.16                  | 2.81 | 2.81        | 2.81 | 4.26          | 64.41  | 64.41 | .00 |
|               |                     |         |            |              |          |        |                          |      |             |      |               |        |       |     |
| *** Proj      | MTD                 | 240.00  | 87.57      | .00          |          | .00    | 152.43                   | 2.74 | 2.74        | 2.74 | 4.26          | 63.51  | 63.51 | .00 |
|               | YTD                 | 637.50  | 286.03     | .00          |          | .00    | 351.47                   | 2.22 | 2.22        | 2.22 | 4.26          | 55.13  | 55.13 | .00 |
|               | PTD                 | 3431.00 | 1219.84    | 1.00         |          | .00    | 2210.16                  | 2.81 | 2.81        | 2.81 | 4.26          | 64.41  | 64.41 | .00 |
| =====         |                     |         |            |              |          |        |                          |      |             |      |               |        |       |     |
| DG11-093-E    | CHEVRON STATION NO. | 1001093 |            |              | Client   | CHE05  | CHEVRON PRODUCTS COMPANY |      |             |      | Fee Code = CP |        | A     |     |
|               | MTD                 | 270.00  | 109.08     | .00          |          | .00    | 160.92                   | 2.47 | 2.47        | 2.47 | 4.26          | 59.60  | 59.60 | .00 |
|               | YTD                 | 382.50  | 154.53     | .00          |          | .00    | 227.97                   | 2.47 | 2.47        | 2.47 | 4.26          | 59.60  | 59.60 | .00 |
|               | PTD                 | 2432.50 | 874.94     | .00          |          | .00    | 1557.56                  | 2.78 | 2.78        | 2.78 | 4.26          | 64.03  | 64.03 | .00 |
|               |                     |         |            |              |          |        |                          |      |             |      |               |        |       |     |
| *** Proj      | MTD                 | 270.00  | 109.08     | .00          |          | .00    | 160.92                   | 2.47 | 2.47        | 2.47 | 4.26          | 59.60  | 59.60 | .00 |
|               | YTD                 | 382.50  | 154.53     | .00          |          | .00    | 227.97                   | 2.47 | 2.47        | 2.47 | 4.26          | 59.60  | 59.60 | .00 |
|               | PTD                 | 2432.50 | 874.94     | .00          |          | .00    | 1557.56                  | 2.78 | 2.78        | 2.78 | 4.26          | 64.03  | 64.03 | .00 |

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Acct Per: 06/2001  
Page 2350

| DG11-832-C | CHEVRON | STATION NO. | 1001832 |        | Client | CHE05 | CHEVRON PRODUCTS COMPANY |      |      |      |      | Fee Code = CP |       | A   |
|------------|---------|-------------|---------|--------|--------|-------|--------------------------|------|------|------|------|---------------|-------|-----|
|            | MTD     | 150.00      | 51.21   | .00    |        | .00   | 98.79                    | 2.92 | 2.92 | 2.92 | 4.26 | 65.86         | 65.86 | .00 |
|            | YTD     | 11528.08    | 2955.50 | 901.58 |        | .00   | 7671.00                  | 3.59 | 3.59 | 3.53 | 4.26 | 66.54         | 66.54 | .00 |
|            | PTD     | 13323.08    | 3651.09 | 901.58 |        | .00   | 8770.41                  | 3.40 | 3.40 | 3.35 | 4.26 | 65.82         | 65.82 | .00 |
| *** Proj   | MTD     | 150.00      | 51.21   | .00    |        | .00   | 98.79                    | 2.92 | 2.92 | 2.92 | 4.26 | 65.86         | 65.86 | .00 |
|            | YTD     | 11528.08    | 2955.50 | 901.58 |        | .00   | 7671.00                  | 3.59 | 3.59 | 3.53 | 4.26 | 66.54         | 66.54 | .00 |
|            | PTD     | 13323.08    | 3651.09 | 901.58 |        | .00   | 8770.41                  | 3.40 | 3.40 | 3.35 | 4.26 | 65.82         | 65.82 | .00 |



June 29, 2001

3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8385

JUL 03 2001

Mr. Paul Supple  
ARCO Products Company  
P.O. Box 6549  
Moraga, CA 94570

Subject: *Quarterly groundwater Monitoring Report, First Quarter 2001*  
ARCO Service Station No. 601  
712 Lewelling Boulevard  
San Leandro, California  
Delta Project No. D000-303

Dear Mr. Supple:

Delta Environmental Consultants, Inc. is submitting the attached report that presents the results of the first quarter 2001 groundwater monitoring program at ARCO Products Company Service Station No. 601, located at 712 Lewelling Boulevard, San Leandro, California. The monitoring program complies with the Alameda County Health Care Services Agency requirements regarding underground tank investigations.

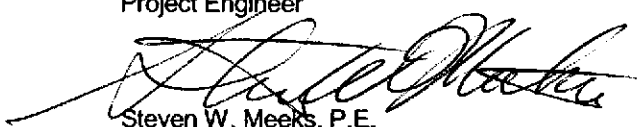
The interpretations contained in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeological and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

Sincerely,

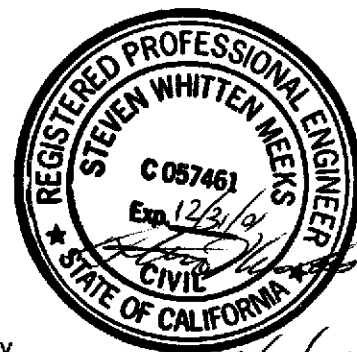
DELTA ENVIRONMENTAL CONSULTANTS, INC.

  
Trevor L. Atkinson  
Project Engineer

  
Steven W. Meeks, P.E.  
Project Manager  
California Registered Civil Engineer No. C057461

TLA (Lrp004.303.doc)  
Enclosures

cc: Mr. Scott Seery – Alameda County Health Care Services Agency  
Mr. Mike Bakaldin – San Leandro Fire Department



Date: June 29, 2001

### ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Station No.: 601 Address: 712 Lewelling Boulevard, San Leandro, CA  
ARCO Environmental Engineer/Phone No.: Paul Supple 925-299-8891  
Consulting Co./Contact Person Delta Environmental Consultants, Inc.  
Steven W. Meeks, P.E.  
Consultant Project No.: D000-303  
Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency

#### WORK PERFORMED THIS QUARTER

1. Performed quarterly groundwater monitoring for first quarter 2001.

#### WORK PROPOSED FOR NEXT QUARTER

1. Prepare and submit quarterly groundwater monitoring report for first quarter 2001.
2. Perform quarterly groundwater monitoring and sampling for second quarter 2001

#### QUARTERLY MONITORING:

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Phase of Project              | Monitoring/Remediation with ORC                                                                                                                                                  |
| Frequency of Groundwater Sampling:    | Annual (1 <sup>st</sup> Quarter): MW-2, MW-11, MW-13<br>Semi-Annual (1 <sup>st</sup> /3 <sup>rd</sup> Quarter) MW-9, MW-15<br>Quarterly: MW-1, MW-3 through MW-8, MW-10<br>MW-14 |
| Frequency of Groundwater Monitoring:  | Quarterly                                                                                                                                                                        |
| Is Free Product (FP) Present On-Site: | No                                                                                                                                                                               |
| FP Recovered this Quarter:            | None                                                                                                                                                                             |
| Cumulative FP Recovered to Date:      | 3.45 gallons, Well MW-1                                                                                                                                                          |
| Bulk Soil Removed This Quarter:       | None                                                                                                                                                                             |
| Bulk Soil Removed to Date:            | 1,565 cubic yards of TPH impacted soil                                                                                                                                           |
| Current Remediation Techniques:       | Natural Attenuation                                                                                                                                                              |
| Approximate Depth to Groundwater:     | 7.43 feet                                                                                                                                                                        |
| Groundwater Gradient:                 | 0.014 ft/ft toward east southeast                                                                                                                                                |

#### DISCUSSION:

- Methyl tertiary butyl ether was reported in MW-2, MW-8 and MW-15 at a concentration of 39.5, 320 and 11.1 micrograms per liter ( $\mu\text{g/L}$ ), respectively.
- Total petroleum hydrocarbons as gasoline was reported in MW-1, MW-2, MW-3 MW-5 and MW-8 at concentrations ranging from 838  $\mu\text{g/L}$  (MW-2) to 43,500  $\mu\text{g/L}$  (MW-3), respectively.
- Benzene was reported in MW-1, MW-2, MW-3 and MW-5 concentrations of 18.1  $\mu\text{g/L}$  (MW-2) to 4,160  $\mu\text{g/L}$  (MW-5), respectively.

**ARCO QUARTERLY GROUNDWATER MONITORING REPORT (continued)**

ARCO Service Station No. 601

June 29, 2001

Page 2

**ATTACHMENTS:**

- Table 1 Groundwater Elevation and Analytical Data
- Table 2 Groundwater Flow Direction and Gradient
- Figure 1 Groundwater Analytical Summary Map
- Figure 2 Groundwater Elevation Contour Map
- Appendix A Sampling and Analysis Procedures
- Appendix B Historical Data Tables (IT Corporation)
- Appendix C Certified Analytical Reports with Chain-of-Custody Documentation
- Appendix D Field Data Sheet

TABLE 1

## GROUNDWATER ANALYTICAL DATA

ARCO Service Station No. 601  
712 Lewelling Boulevard  
San Leandro, California

| Well Number | Date Sampled | Top of Riser Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as Gasoline (µg/L) | MTBE (µg/L) | Semi Volatiles (µg/L)                |
|-------------|--------------|-----------------------------|---------------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------------------|-------------|--------------------------------------|
| MW-1        | 06/20/00     | 19.19                       | 8.20                      | 10.99                      | 2,400          | 50             | 1,800                | 680                  | 23,000                 | <200        | NA                                   |
|             | 09/29/00     |                             | 8.55                      | 10.64                      | 2,880          | <50            | 2,130                | 871                  | 23,600                 | <250        | 430 <sup>a</sup> /1,100 <sup>b</sup> |
|             | 12/17/00     |                             | 8.28                      | 10.91                      | 1,980          | <50            | 1,610                | 664                  | 21,600                 | <250        | 270 <sup>a</sup> /900 <sup>b</sup>   |
|             | 03/28/01     |                             | 8.13                      | 11.06                      | 2,310          | <100           | 2,010                | 517                  | 19,800                 | <500        | 140(a);430(b);<br>11( c)             |
| MW-2        | 06/20/00     | 21.12                       | 7.12                      | 14.00                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                                   |
|             | 09/29/00     |                             | 7.60                      | 13.52                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                                   |
|             | 12/17/00     |                             | 7.42                      | 13.70                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                                   |
|             | 03/28/01     |                             | 6.84                      | 14.28                      | 18.1           | <5.0           | 7.63                 | 5.98                 | 838                    | 39.5        | NA                                   |
| MW-3        | 06/20/00     | 22.99                       | 6.22                      | 16.77                      | 670            | 990            | 2,400                | 12000                | 45,000                 | <500        | NA                                   |
|             | 09/29/00     |                             | 7.20                      | 15.79                      | 860            | 1,120          | 2,720                | 12900                | 51,000                 | <250        | NA                                   |
|             | 12/17/00     |                             | NM                        | NC                         | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                                   |
|             | 03/28/01     |                             | 6.10                      | 16.89                      | 804            | <200           | 250                  | 11,000               | 43,500                 | <1,000      | NA                                   |
| MW-4        | 06/20/00     | 22.38                       | 6.46                      | 15.92                      | 210            | 20             | 94                   | 520                  | 2,700                  | 46          | NA                                   |
|             | 09/29/00     |                             | DRY                       | DRY                        | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                                   |
|             | 12/17/00     |                             | DRY                       | DRY                        | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                                   |
|             | 03/28/01     |                             | 7.49                      | 14.89                      | DRY            | DRY            | DRY                  | DRY                  | DRY                    | DRY         | NA                                   |
| MW-5        | 06/20/00     | 22.45                       | 6.78                      | 15.67                      | 3,000          | 650            | 260                  | 700                  | 10,000                 | <200        | NA                                   |
|             | 09/29/00     |                             | DRY                       | DRY                        | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                                   |
|             | 12/17/00     |                             | DRY                       | DRY                        | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                                   |
|             | 03/28/01     |                             | 6.48                      | 15.97                      | 4,160          | 3,450          | 728                  | 3,090                | 23,400                 | <250        | NA                                   |

**TABLE 1**  
**GROUNDWATER ANALYTICAL DATA**

ARCO Service Station No. 601  
712 Lewelling Boulevard  
San Leandro, California

| Well Number | Date Sampled | Top of Riser Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as Gasoline (µg/L) | MTBE (µg/L) | Semi Volatiles (µg/L) |
|-------------|--------------|-----------------------------|---------------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------------------|-------------|-----------------------|
| MW-6        | 06/20/00     | 22.77                       | DRY                       | DRY                        | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 09/29/00     |                             | DRY                       | DRY                        | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 12/17/00     |                             | DRY                       | DRY                        | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 03/28/01     |                             | 7.57                      | 15.2                       | DRY            | DRY            | DRY                  | DRY                  | DRY                    | DRY         | NA                    |
| MW-7        | 06/20/00     | 22.89                       | DRY                       | DRY                        | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 09/29/00     |                             | DRY                       | DRY                        | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 12/17/00     |                             | 8.93                      | 13.96                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5        | NA                    |
|             | 03/28/01     |                             | 8.35                      | 14.54                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5        | NA                    |
| MW-8        | 06/20/00     | 20.89                       | 7.23                      | 13.66                      | <0.5           | 0.9            | <0.5                 | <1.0                 | 150                    | 310         | NA                    |
|             | 09/29/00     |                             | 7.91                      | 12.98                      | <0.5           | <0.5           | <0.5                 | <0.5                 | 149                    | 438         | NA                    |
|             | 12/17/00     |                             | 7.11                      | 13.78                      | <5.0           | <5.0           | <5.0                 | <5.0                 | 662                    | 273         | NA                    |
|             | 03/28/01     |                             | 6.88                      | 14.01                      | <5.0           | <5.0           | <5.0                 | <5.0                 | 840                    | 320         | NA                    |
| MW-9        | 06/20/00     | 22.26                       | 8.01                      | 14.25                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 09/29/00     |                             | 8.44                      | 13.82                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | 3.44        | NA                    |
|             | 12/17/00     |                             | 7.84                      | 14.42                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 03/28/01     |                             | 7.58                      | 14.68                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5        | NA                    |
| MW-10       | 06/20/00     | 21.33                       | 7.99                      | 13.34                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <0.5                   | <3.0        | NA                    |
|             | 09/29/00     |                             | 8.40                      | 12.93                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5        | NA                    |
|             | 12/17/00     |                             | 7.91                      | 13.42                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5        | NA                    |
|             | 03/28/01     |                             | 7.47                      | 13.86                      | <0.5           | <0.5           | <0.5                 | <0.5                 | <50                    | <2.5        | NA                    |

TABLE 1

## GROUNDWATER ANALYTICAL DATA

ARCO Service Station No. 601  
712 Lewelling Boulevard  
San Leandro, California

| Well Number | Date Sampled | Top of Riser Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as Gasoline (µg/L) | MTBE (µg/L) | Semi Volatiles (µg/L) |
|-------------|--------------|-----------------------------|---------------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------------------|-------------|-----------------------|
| MW-11       | 06/20/00     | 20.97                       | 8.18                      | 12.79                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 09/29/00     |                             | 8.60                      | 12.37                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 12/17/00     |                             | 8.48                      | 12.49                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 03/28/01     |                             | 7.88                      | 13.09                      | <0.5           | <0.5           | < 0.5                | <0.5                 | <50                    | <2.5        | NA                    |
| MW-12       | 06/20/00     | 20.11                       | 8.55                      | 11.56                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 09/29/00     |                             | 8.98                      | 11.13                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 12/17/00     |                             | 8.76                      | 11.35                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 03/28/01     |                             | 8.31                      | 11.8                       | <0.5           | <0.5           | < 0.5                | <0.5                 | <50                    | <2.5        | NA                    |
| MW-13       | 06/20/00     | 20.75                       | 7.56                      | 13.19                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 09/29/00     |                             | 8.27                      | 12.48                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 12/17/00     |                             | 8.09                      | 12.66                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 03/28/01     |                             | 7.69                      | 13.06                      | <0.5           | <0.5           | < 0.5                | <0.5                 | <50                    | <2.5        | NA                    |
| MW-14       | 06/20/00     | 20.90                       | 9.16                      | 11.74                      | <0.5           | <0.5           | <0.5                 | <1.0                 | <50                    | <10         | NA                    |
|             | 09/29/00     |                             | 9.48                      | 11.42                      | < 0.5          | < 0.5          | < 0.5                | <0.5                 | <50                    | <2.50       | NA                    |
|             | 12/17/00     |                             | 9.24                      | 11.66                      | < 0.5          | < 0.5          | < 0.5                | <0.5                 | <50                    | <2.5        | NA                    |
|             | 03/28/01     |                             | 8.91                      | 11.99                      | < 0.5          | < 0.5          | < 0.5                | <0.5                 | <50                    | <2.5        | NA                    |

TABLE 1

## GROUNDWATER ANALYTICAL DATA

ARCO Service Station No. 601  
712 Lewelling Boulevard  
San Leandro, California

| Well Number | Date Sampled | Top of Riser Elevation (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | TPH as Gasoline (µg/L) | MTBE (µg/L) | Semi Volatiles (µg/L) |
|-------------|--------------|-----------------------------|---------------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------------------|-------------|-----------------------|
| MW-15       | 06/20/00     | 22.08                       | 5.98                      | 16.10                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 09/29/00     |                             | 6.50                      | 15.58                      | < 0.5          | < 0.5          | < 0.5                | <0.5                 | <50                    | <2.50       | NA                    |
|             | 12/17/00     |                             | 5.89                      | 16.19                      | NS             | NS             | NS                   | NS                   | NS                     | NS          | NS                    |
|             | 03/28/01     |                             | 5.78                      | 16.3                       | < 0.5          | < 0.5          | < 0.5                | <0.5                 | <50                    | 11.1        | NA                    |

<sup>a</sup> 2-methylnaphthalene

<sup>b</sup> Naphthalene

<sup>c</sup> Phenol

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted

µg/L = Micrograms per liter

NA = Not analyzed

NS = Not sampled

Note: Please Refer to Appendix B for Historical Groundwater Elevation and Analytical Data Tables developed by IT Corporation

**TABLE 2****GROUNDWATER FLOW DIRECTION AND GRADIENT**

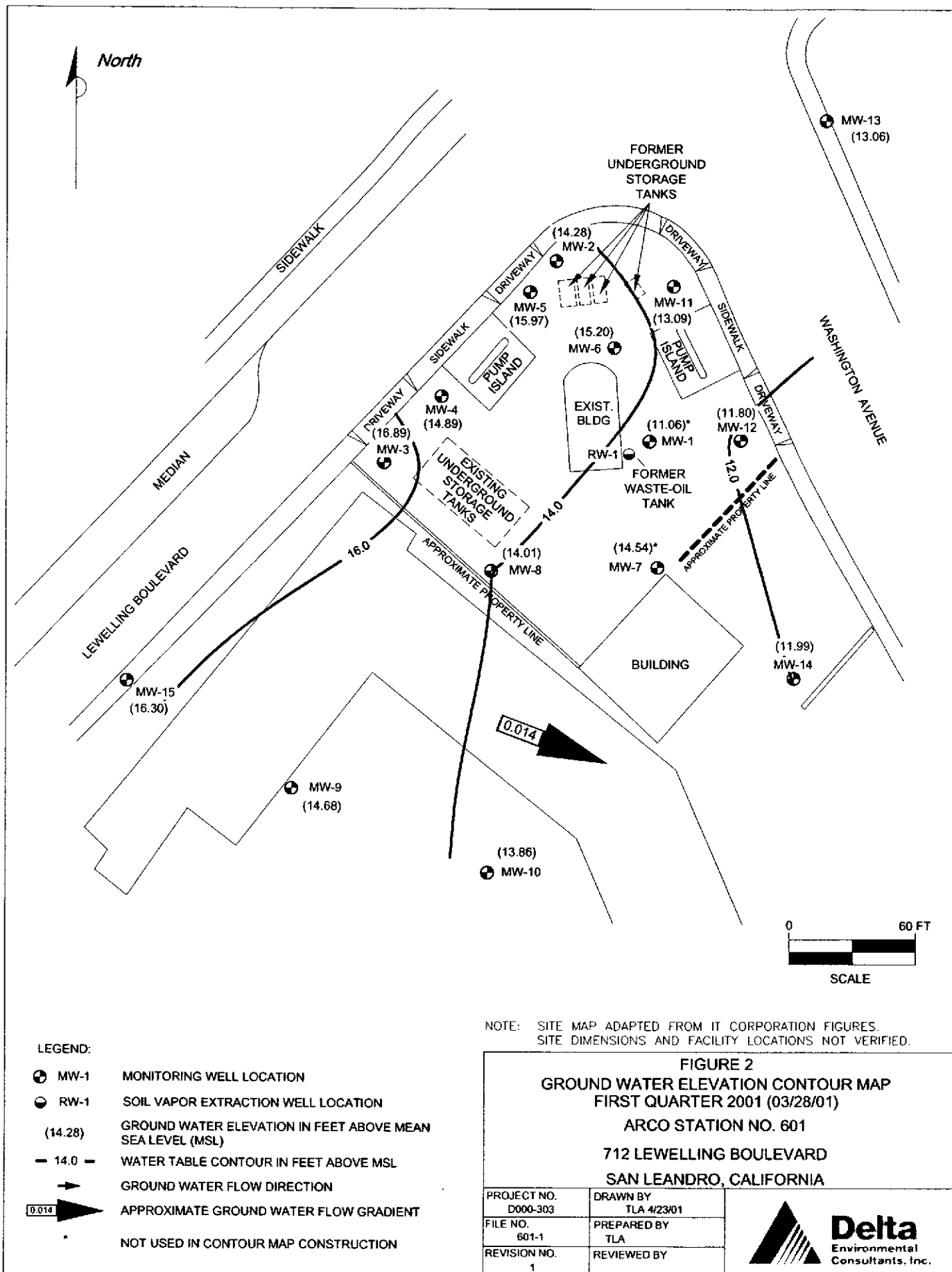
ARCO Service Station 601

712 Lewelling Boulevard  
San Leandro, California

| Date Measured | Average<br>Flow Direction | Average<br>Hydraulic Gradient |
|---------------|---------------------------|-------------------------------|
| 06/20/00      | East-Southeast            | 0.023                         |
| 09/29/00      | East-Southeast            | 0.023                         |
| 12/17/00      | East-Southeast            | 0.010                         |
| 03/28/01      | East-Southeast            | 0.014                         |

Note: Please refer to Appendix B for Historical Groundwater Elevation and Analytical Data  
Tables developed by IT Corporation





## **FIELD METHODS AND PROCEDURES**

### **1.0 GROUND WATER AND LIQUID-PHASE HYDROCARBON DEPTH ASSESSMENT**

A water/liquid-phase hydrocarbon (LPH) interface probe was used to assess the thickness of LPH, if present, and a water level indicator was used to measure ground water depth in monitoring wells that did not contain LPH. Depth to ground water was measured from the top of each monitoring well casing. The tip of the water level indicator was subjectively analyzed for LPH sheen. All measurements and physical observations were recorded in the field.

### **2.0 SUBJECTIVE ANALYSIS OF GROUND WATER**

Prior to purging, a water sample was collected from the monitoring well for subjective analysis. The sample was retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer was then retrieved and the sample contained within the bailer was examined for LPH and the appearance of a LPH sheen.

### **3.0 MONITORING WELL PURGING AND SAMPLING**

Monitoring wells were purged using a centrifugal pump or disposable bailers until pH, temperature, and conductivity of the purge water had stabilized and a minimum of three to four well volumes of water had been removed. Ground water removed from the wells was stored in 55-gallon barrels at the site. The barrels were labeled with corresponding monitoring well numbers and the date of purging. After purging, ground water levels were allowed to stabilize. A ground water sample was then removed from each of the wells using a dedicated disposable bailer. If the well was purged dry, it was allowed to sufficiently recharge and a sample was collected. Samples were collected in air-tight vials, appropriately labeled, and stored on ice from the time of collection through the time of delivery to the laboratory. A chain-of-custody form was completed to document possession of the samples. Ground water samples were transported to the laboratory and analyzed within the EPA-specified holding times for the requested analyses. Purge water will be collected from the storage barrels in a vacuum truck and transported to an appropriate facility for treatment and/or disposal.

If the depth to groundwater was above the top of screens of the monitoring wells, then the wells were purged. Before sampling occurred, a polyvinyl chloride (PVC) bailer, centrifugal pump, low-flow submersible pump, or Teflon bailer was used to purge standing water in the casing and gravel pack from the monitoring well. Monitoring wells were purged according to the protocol previously stated in the first paragraph of this sub-section. In most monitoring wells, the amount of water purged before sampling was greater than or equal to three casing volumes. Some monitoring wells were expected to be evacuated to dryness after removing fewer than three casing volumes. These low-yield monitoring wells were allowed to recharge for up to 24 hours. Samples were obtained as soon as the monitoring wells recharged to a level sufficient for sample collection. If insufficient water recharged after 24 hours, the monitoring well was recorded as dry for the sampling event.

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG LUFT Method<br>µg/L                     | Benzene EPA 8021B*<br>µg/L | Toluene EPA 8021B*<br>µg/L | Ethylbenzene EPA 8021B*<br>µg/L | Total Xylenes EPA 8021B*<br>µg/L | MTBE EPA 8021B*<br>µg/L | MTBE EPA 8240<br>µg/L | TRPH EPA 418.1<br>µg/L | TPHD LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|----------------------------------------------|----------------------------|----------------------------|---------------------------------|----------------------------------|-------------------------|-----------------------|------------------------|--------------------------|--------------------------|---------------------------|
| MW-1             | 03-17-95               | 22.26                             | 6.57                   | ND                                 | 15.69                           | 03-17-95                | 120,000                                      | 5,300                      | 370                        | 1,500                           | 13,000                           | --                      | --                    | 48,000                 | 6,200[1]                 |                          |                           |
| MW-1             | 06-01-95               | 22.26                             | 7.87                   | ND                                 | 14.39                           | 06-01-95                | 250,000                                      | 7,100                      | 950                        | 3,500                           | 21,000                           | --                      | --                    | 38,000                 | 190,000[1]               |                          |                           |
| MW-1             | 08-31-95               | 22.26                             | 8.12                   | 0.01                               | ** 14.15                        | 08-31-95                | Not sampled: well contained floating product |                            |                            |                                 |                                  |                         |                       |                        |                          |                          |                           |
| MW-1             | 11-27-95               | 22.26                             | 8.42                   | Sheen                              | 13.84                           | 11-27-95                | 310,000                                      | 4,600                      | 770                        | 5,700                           | 21,000                           | --                      | --                    | --                     | --                       |                          |                           |
| MW-1             | 02-22-96               | 22.26                             | 6.01                   | 0.01                               | ** 16.26                        | 03-14-96                | 100,000                                      | 6,200                      | 320                        | 2,500                           | 12,000                           | <1,000[1]               | --                    | --                     | --                       |                          |                           |
| MW-1             | 05-20-96               | 22.26                             | 7.03                   | ND                                 | 15.23                           | 05-21-96                | 340,000                                      | 6,600                      | 240                        | 4,500                           | 22,000                           | <1,000                  | --                    | 150                    | <2,500[1]                |                          |                           |
| MW-1             | 08-26-96               | 22.26                             | 8.16                   | ND                                 | 14.10                           | 08-26-96                | 210,000                                      | 7,900                      | 320                        | 3,400                           | 15,000                           | <1,000                  | --                    | --                     | --                       |                          |                           |
| MW-1             | 11-20-96               | 22.26                             | 7.84                   | ND                                 | 14.42                           | 11-20-96                | 62,000                                       | 5,900                      | 77                         | 2,000                           | 7,700                            | <300                    | --                    | --                     | --                       |                          |                           |
| MW-1             | 03-24-97               | 19.19                             | 8.05                   | ND                                 | 11.14                           | 03-24-97                | 170,000                                      | 6,500                      | <200                       | 2,400                           | 9,900                            | <1,000                  | --                    | --                     | --                       |                          |                           |
| MW-1             | 05-23-97               | 19.19                             | 8.42                   | ND                                 | 10.77                           | 05-23-97                | 83,000                                       | 6,200                      | 84                         | 2,500                           | 9,000                            | <300                    | --                    | --                     | --                       |                          |                           |
| MW-1             | 08-19-97               | 19.19                             | 8.65                   | ND                                 | 10.54                           | 08-19-97                | 83,000                                       | 4,500                      | <100                       | 2,200                           | 8,100                            | <600                    | --                    | --                     | --                       |                          |                           |
| MW-1             | 11-19-97               | 19.19                             | 8.54                   | ND                                 | 10.65                           | 11-19-97                | 250,000                                      | 4,400                      | <500                       | 3,800                           | 9,900                            | <3,000                  | --                    | --                     | --                       |                          |                           |
| MW-1             | 02-19-98               | 19.19                             | 5.57                   | ND                                 | 13.62                           | 02-19-98                | 74,000                                       | 2,500                      | 120                        | 2,200                           | 4,100                            | <300                    | --                    | --                     | --                       |                          |                           |
| MW-1             | 04-23-98               | 19.19                             | 6.92                   | ND                                 | 12.27                           | 04-24-98                | 210,000                                      | 2,700                      | <500                       | 4,200                           | 8,300                            | <3,000                  | --                    | --                     | --                       | 1.5                      | P                         |
| MW-1             | 07-27-98               | 19.19                             | 8.14                   | ND                                 | 11.05                           | 07-27-98                | 73,000                                       | 2,100                      | 88                         | 2,600                           | 4,600                            | <300                    | --                    | --                     | --                       | 1.0                      | P                         |
| MW-1             | 10-14-98               | 19.19                             | 8.58                   | ND                                 | 10.61                           | 10-14-98                | 47,000                                       | 2,900                      | <50                        | 2,300                           | 3,900                            | <300                    | --                    | --                     | --                       | 1.5                      | P                         |
| MW-1             | 01-21-99               | 19.19                             | 7.84                   | ND                                 | 11.35                           | 01-22-99                | 45,000                                       | 1,400                      | 64                         | 2,100                           | 2,400                            | <300                    | --                    | --                     | --                       | 1.0                      | P                         |
| MW-1             | 05-06-99               | 19.19                             | 8.00                   | ND                                 | 11.19                           | 05-06-99                | 41,000                                       | 1,900                      | <20                        | 2,800                           | 3,400                            | <120                    | --                    | --                     | --                       | 0.85                     | P                         |
| MW-1             | 08-23-99               | 19.19                             | 8.56                   | ND                                 | 10.63                           | 08-24-99                | 26,000                                       | 1,700                      | 52                         | 1,600                           | 1,500                            | <75                     | --                    | --                     | --                       | 0.72                     | P                         |
| MW-1             | 10-28-99               | 19.19                             | 8.92                   | ND                                 | 10.27                           | 10-28-99                | 38,000                                       | 2,500                      | 35                         | 2,400                           | 2,500                            | <200                    | --                    | --                     | --                       | 0.70                     | P                         |
| MW-1             | 02-04-00               | 19.19                             | 8.48                   | Sheen                              | 10.71                           | 02-04-00                | 19,000                                       | 960                        | 13                         | 1,200                           | 860                              | <60                     | --                    | --                     | --                       | 2.11                     | P                         |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L                                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|--------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-2             | 03-17-95               | 21.33                             | 6.12                   | ND                                 | 15.21                           | 03-17-95                | 10,000                                                       | 460                           | 77                            | 260                                | 550                                 | ..                         | ..                       | ..                        | ..                          |                          |                               |
| MW-2             | 06-01-95               | 21.33                             | 6.56                   | ND                                 | 14.77                           | 06-01-95                | 13,000                                                       | 400                           | 78                            | 210                                | 410                                 | ..                         | ..                       | ..                        | ..                          |                          |                               |
| MW-2             | 08-31-95               | 21.33                             | 7.18                   | ND                                 | 14.15                           | 08-31-95                | 5,000                                                        | 280                           | 18                            | 120                                | 140                                 | <50                        | ..                       | ..                        | ..                          |                          |                               |
| MW-2             | 11-27-95               | 21.33                             | 7.39                   | ND                                 | 13.94                           | 11-27-95                | 3,200                                                        | 230                           | 12                            | 77                                 | 90                                  | ..                         | ..                       | ..                        | ..                          |                          |                               |
| MW-2             | 02-22-96               | 21.33                             | 5.78                   | ND                                 | 15.55                           | 03-14-96                | 11,000                                                       | 290                           | 67                            | 190                                | 330                                 | <50                        | ..                       | ..                        | ..                          |                          |                               |
| MW-2             | 05-20-96               | 21.33                             | 6.27                   | ND                                 | 15.06                           | 05-21-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 08-26-96               | 21.33                             | 7.30                   | ND                                 | 14.03                           | 08-26-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 11-20-96               | 21.33                             | 7.28                   | ND                                 | 14.05                           | 11-20-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 03-24-97               | 21.12                             | 7.11                   | ND                                 | 14.01                           | 03-24-97                | 4,800                                                        | 570                           | 6                             | 71                                 | 32                                  | 67                         | --                       | --                        | --                          |                          |                               |
| MW-2             | 05-23-97               | 21.12                             | 7.44                   | ND                                 | 13.68                           | 05-23-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 08-19-97               | 21.12                             | 7.64                   | ND                                 | 13.48                           | 08-19-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 11-19-97               | 21.12                             | 7.70                   | ND                                 | 13.42                           | 11-19-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 02-19-98               | 21.12                             | 5.22                   | ND                                 | 15.90                           | 02-19-98                | 2,000                                                        | 160                           | 50                            | 66                                 | 230                                 | 25                         | --                       | --                        | --                          |                          |                               |
| MW-2             | 04-23-98               | 21.12                             | 6.24                   | ND                                 | 14.88                           | 04-23-98                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 07-27-98               | 21.12                             | 7.02                   | ND                                 | 14.10                           | 07-27-98                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 10-14-98               | 21.12                             | 7.54                   | ND                                 | 13.58                           | 10-14-98                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 01-21-99               | 21.12                             | 7.15                   | ND                                 | 13.97                           | 01-22-99                | 1,700                                                        | 84                            | 4                             | 31                                 | 10                                  | 13                         | --                       | --                        | --                          | 0.5                      | P                             |
| MW-2             | 05-06-99               | 21.12                             | 6.95                   | ND                                 | 14.17                           | 05-06-99                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 08-23-99               | 21.12                             | 7.49                   | ND                                 | 13.63                           | 08-24-99                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          | 0.68                          |
| MW-2             | 10-28-99               | 21.12                             | 7.92                   | ND                                 | 13.20                           | 10-28-99                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-2             | 02-04-00               | 21.12                             | 6.61                   | ND                                 | 14.51                           | 02-05-00                | Not sampled: well inaccessible                               |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|----------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-3             | 03-17-95               | 20.11                             | 5.46                   | ND                                 | 14.65                           | 03-17-95                | 370,000                                      | 4,800                         | 12,000                        | 5,800                              | 34,000                              | --                         | --                       | --                        | --                          |                          |                               |
| MW-3             | 06-01-95               | 20.11                             | 6.34                   | ND                                 | 13.77                           | 06-01-95                | 270,000                                      | 6,000                         | 11,000                        | 5,200                              | 28,000                              | --                         | --                       | --                        | --                          |                          |                               |
| MW-3             | 08-31-95               | 20.11                             | 6.60                   | 0.02                               | ** 13.52                        | 08-31-95                | Not sampled: well contained floating product |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-3             | 11-27-95               | 20.11                             | 6.76                   | 0.01                               | ** 13.36                        | 11-27-95                | 150,000                                      | 5,100                         | 8,800                         | 3,900                              | 21,000                              | --                         | --                       | --                        | --                          |                          |                               |
| MW-3             | 02-22-96               | 20.11                             | 5.14                   | 0.01                               | ** 14.98                        | 03-14-96                | 150,000                                      | 4,400                         | 7,600                         | 4,100                              | 22,000                              | <3,000                     | --                       | --                        | --                          |                          |                               |
| MW-3             | 05-20-96               | 20.11                             | 5.17                   | ND                                 | 14.94                           | 05-21-96                | 410,000                                      | 4,700                         | 8,000                         | 6,300                              | 36,000                              | <3,000                     | --                       | --                        | --                          |                          |                               |
| MW-3             | 08-26-96               | 20.11                             | 7.04                   | ND                                 | 13.07                           | 08-26-96                | 260,000                                      | 4,000                         | 6,100                         | 4,200                              | 24,000                              | <2,000                     | --                       | --                        | --                          |                          |                               |
| MW-3             | 11-20-96               | 20.11                             | 6.26                   | ND                                 | 13.85                           | 11-20-96                | 190,000                                      | 3,200                         | 5,800                         | 3,300                              | 20,000                              | <1,000                     | --                       | --                        | --                          |                          |                               |
| MW-3             | 03-24-97               | 22.99                             | 6.94                   | ND                                 | 16.05                           | 03-24-97                | 430,000                                      | 2,700                         | 7,600                         | 7,000                              | 39,000                              | <5,000                     | --                       | --                        | --                          |                          |                               |
| MW-3             | 05-23-97               | 22.99                             | 6.98                   | ND                                 | 16.01                           | 05-23-97                | 130,000                                      | 2,100                         | 4,300                         | 3,500                              | 19,000                              | <700                       | --                       | --                        | --                          |                          |                               |
| MW-3             | 08-19-97               | 22.99                             | 7.25                   | ND                                 | 15.74                           | 08-19-97                | 100,000                                      | 2,000                         | 3,200                         | <100                               | 19,000                              | <600                       | --                       | --                        | --                          |                          |                               |
| MW-3             | 11-19-97               | 22.99                             | 7.25                   | ND                                 | 15.74                           | 11-19-97                | 93,000                                       | 1,700                         | 2,400                         | 2,800                              | 16,000                              | <600                       | --                       | --                        | --                          |                          |                               |
| MW-3             | 02-19-98               | 22.99                             | 5.24                   | ND                                 | 17.75                           | 02-19-98                | 80,000                                       | 620                           | 1,200                         | 2,500                              | 13,000                              | <600                       | --                       | --                        | --                          |                          |                               |
| MW-3             | 04-23-98               | 22.99                             | 6.60                   | ND                                 | 16.39                           | 04-24-98                | 130,000                                      | 1,500                         | 2,400                         | 3,500                              | 18,000                              | <600                       | --                       | --                        | --                          | 3.5                      | P                             |
| MW-3             | 07-27-98               | 22.99                             | 7.00                   | ND                                 | 15.99                           | 07-27-98                | 140,000                                      | 920                           | 1,500                         | 2,400                              | 13,000                              | <600                       | --                       | --                        | --                          | 1.0                      | P                             |
| MW-3             | 10-14-98               | 22.99                             | 7.04                   | ND                                 | 15.95                           | 10-14-98                | 300,000                                      | 1,200                         | 2,400                         | 5,700                              | 32,000                              | 970                        | --                       | --                        | --                          | 1.0                      | P                             |
| MW-3             | 01-21-99               | 22.99                             | 6.50                   | ND                                 | 16.49                           | 01-22-99                | 120,000                                      | 860                           | 1,500                         | 2,600                              | 14,000                              | <600                       | --                       | --                        | --                          | 0.5                      | P                             |
| MW-3             | 05-06-99               | 22.99                             | 6.90                   | ND                                 | 16.09                           | 05-06-99                | 49,000                                       | 670                           | 1,400                         | 2,500                              | 11,000                              | 170                        | --                       | --                        | --                          | 1.03                     | NP                            |
| MW-3             | 08-23-99               | 22.99                             | 6.53                   | ND                                 | 16.46                           | 08-24-99                | 51,000                                       | 440                           | 930                           | 2,200                              | 9,200                               | <150                       | --                       | --                        | --                          | 0.67                     | NP                            |
| MW-3             | 10-28-99               | 22.99                             | 7.50                   | ND                                 | 15.49                           | 10-28-99                | 1,400,000                                    | 830                           | 4,100                         | 15,000                             | 78,000                              | <5,000                     | --                       | --                        | --                          | 0.77                     | P                             |
| MW-3             | 02-04-00               | 22.99                             | 6.21                   | ND                                 | 16.78                           | 02-04-00                | <50                                          | <0.5                          | <0.5                          | <0.5                               | <1                                  | 650                        | --                       | --                        | --                          | 1.61                     | P                             |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHC<br>LUFT Method<br>µg/L | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|-----------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-4             | 03-17-95               | 20.75                             | 6.65                   | ND                                 | 14.10                           | 03-17-95                | 16,000                      | 1,800                         | 970                           | 310                                | 2,500                               | --                         | --                       | --                        | --                          |                          |                               |
| MW-4             | 06-01-95               | 20.75                             | 7.25                   | ND                                 | 13.50                           | 06-01-95                | 16,000                      | 2,800                         | 870                           | 380                                | 2,700                               | --                         | --                       | --                        | --                          |                          |                               |
| MW-4             | 08-31-95               | 20.75                             | 7.75                   | ND                                 | 13.00                           | 08-31-95                | 9,000                       | 2,000                         | 270                           | 270                                | 1,400                               | <100                       | --                       | --                        | --                          |                          |                               |
| MW-4             | 11-27-95               | 20.75                             | 7.87                   | ND                                 | 12.88                           | 11-27-95                | 3,800                       | 890                           | 130                           | 130                                | 550                                 | --                         | --                       | --                        | --                          |                          |                               |
| MW-4             | 02-22-96               | 20.75                             | 7.29                   | ND                                 | 13.46                           | 03-14-96                | 940                         | 150                           | 82                            | 19                                 | 130                                 | <20                        | --                       | --                        | --                          |                          |                               |
| MW-4             | 05-20-96               | 20.75                             | 7.30                   | ND                                 | 13.45                           | 05-21-96                | 6,700                       | 1,100                         | 330                           | 120                                | 1,100                               | <100                       | --                       | --                        | --                          |                          |                               |
| MW-4             | 08-26-96               | 20.75                             | 7.57                   | ND                                 | 13.18                           | 08-26-96                | 14,000                      | 2,400                         | 510                           | 350                                | 2,100                               | <100                       | --                       | --                        | --                          |                          |                               |
| MW-4             | 11-20-96               | 20.75                             | 7.89                   | ND                                 | 12.86                           | 11-20-96                | 420                         | 55                            | 17                            | 11                                 | 62                                  | <3                         | --                       | --                        | --                          |                          |                               |
| MW-4             | 03-24-97               | 22.38                             | 6.90                   | ND                                 | 15.48                           | 03-24-97                | 6,800                       | 620                           | 150                           | 81                                 | 1,300                               | <50                        | --                       | --                        | --                          |                          |                               |
| MW-4             | 05-23-97               | 22.38                             | 7.80                   | ND                                 | 14.58                           | 05-23-97                | 9,000                       | 1,300                         | 240                           | 200                                | 1,600                               | <60                        | --                       | --                        | --                          |                          |                               |
| MW-4             | 08-19-97               | 22.38                             | DRY                    | ND                                 | N/A                             | 08-19-97                | Not sampled: well is dry    |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-4             | 11-19-97               | 22.38                             | DRY                    | ND                                 | N/A                             | 11-19-97                | 3,700[1]                    | 600                           | 93                            | 120                                | 710                                 | <60                        | --                       | --                        | --                          |                          |                               |
| MW-4             | 02-19-98               | 22.38                             | 6.78                   | ND                                 | 15.60                           | 02-19-98                | 1,800                       | 93                            | 51                            | 29                                 | 420                                 | 110                        | --                       | --                        | --                          |                          |                               |
| MW-4             | 04-23-98               | 22.38                             | 6.47                   | ND                                 | 15.91                           | 04-23-98                | 6,500                       | 700                           | 110                           | 180                                | 1,300                               | 93                         | --                       | --                        | --                          | 0.5                      | P                             |
| MW-4             | 07-27-98               | 22.38                             | 7.22                   | ND                                 | 15.16                           | 07-27-98                | 10,000                      | 1,400                         | 140                           | 290                                | 1,900                               | <120                       | --                       | --                        | --                          | 1.5                      | P                             |
| MW-4             | 10-14-98               | 22.38                             | 7.60                   | ND                                 | 14.78                           | 10-14-98                | 6,500                       | 900                           | 63                            | 200                                | 1,200                               | 63                         | --                       | --                        | --                          | 1.0                      | P                             |
| MW-4             | 01-21-99               | 22.38                             | 7.43                   | ND                                 | 14.95                           | 01-22-99                | 1,700                       | 140                           | 22                            | 56                                 | 320                                 | 13                         | --                       | --                        | --                          | 0.5                      | P                             |
| MW-4             | 05-06-99               | 22.38                             | 6.55                   | ND                                 | 15.83                           | 05-06-99                | 3,300                       | 250                           | 36                            | 73                                 | 890                                 | 41                         | --                       | --                        | --                          | 1.28                     | P                             |
| MW-4             | 08-23-99               | 22.38                             | 7.16                   | ND                                 | 15.22                           | 08-24-99                | 7,400                       | 500                           | 73                            | 230                                | 1,700                               | 57                         | --                       | --                        | --                          | 0.89                     | P                             |
| MW-4             | 10-28-99               | 22.38                             | 8.28                   | ND                                 | 14.10                           | 10-28-99                | 370                         | 41                            | 5.7                           | 14                                 | 52                                  | 16                         | --                       | --                        | --                          | 0.92                     | NP                            |
| MW-4             | 02-04-00               | 22.38                             | 8.23                   | ND                                 | 14.15                           | 02-04-00                | 310                         | 33                            | 7.5                           | 11                                 | 65                                  | 8                          | --                       | --                        | --                          | 2.43                     | P                             |

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**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG LUFT Method<br>µg/L | Benzene EPA 8021B*<br>µg/L | Toluene EPA 8021B*<br>µg/L | Ethylbenzene EPA 8021B*<br>µg/L | Total Xylenes EPA 8021B*<br>µg/L | MTBE EPA 8021B*<br>µg/L | MTBE EPA 8240<br>µg/L | TRPH EPA 418.1<br>µg/L | TPHD LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|--------------------------|----------------------------|----------------------------|---------------------------------|----------------------------------|-------------------------|-----------------------|------------------------|--------------------------|--------------------------|---------------------------|
| MW-5             | 03-17-95               | 20.90                             | 5.51                   | ND                                 | 15.39                           | 03-17-95                | 48,000                   | 6,400                      | 2,000                      | 740                             | 5,100                            | --                      | --                    | --                     | --                       |                          |                           |
| MW-5             | 06-01-95               | 20.90                             | 6.55                   | ND                                 | 14.35                           | 06-01-95                | 76,000                   | 11,000                     | 5,400                      | 1,400                           | 7,700                            | --                      | --                    | --                     | --                       |                          |                           |
| MW-5             | 08-31-95               | 20.90                             | 6.80                   | ND                                 | 14.10                           | 08-31-95                | 53,000                   | 12,000                     | 1,600                      | 1,000                           | 6,000                            | <500                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 11-27-95               | 20.90                             | 7.13                   | ND                                 | 13.77                           | 11-27-95                | 43,000                   | 7,900                      | 3,300                      | 950                             | 4,900                            | --                      | --                    | --                     | --                       |                          |                           |
| MW-5             | 02-22-96               | 20.90                             | 5.12                   | ND                                 | 15.78                           | 03-14-96                | 52,000                   | 9,100                      | 3,300                      | 940                             | 5,000                            | <500                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 05-20-96               | 20.90                             | 5.87                   | ND                                 | 15.03                           | 05-21-96                | 55,000                   | 9,300                      | 3,800                      | 1,100                           | 5,400                            | <500                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 08-26-96               | 20.90                             | 7.15                   | ND                                 | 13.75                           | 08-26-96                | 47,000                   | 5,300                      | 2,100                      | 780                             | 3,200                            | <300                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 11-20-96               | 20.90                             | 6.88                   | ND                                 | 14.02                           | 11-20-96                | 53,000                   | 8,700                      | 5,700                      | 920                             | 4,400                            | <500                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 03-24-97               | 22.45                             | 7.13                   | ND                                 | 15.32                           | 03-24-97                | 39,000                   | 8,200                      | 3,200                      | 720                             | 3,100                            | <500                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 05-23-97               | 22.45                             | 7.42                   | ND                                 | 15.03                           | 05-23-97                | 29,000                   | 6,600                      | 1,700                      | 400                             | 1,500                            | <600                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 08-19-97               | 22.45                             | 7.58                   | ND                                 | 14.87                           | 08-19-97                | 16,000                   | 4,600                      | 790                        | <50                             | 1,300                            | <300                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 11-19-97               | 22.45                             | 7.58                   | ND                                 | 14.87                           | 11-19-97                | 22,000                   | 5,800                      | 1,300                      | 380                             | 1,300                            | <300                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 02-19-98               | 22.45                             | 4.65                   | ND                                 | 17.80                           | 02-19-98                | 40,000                   | 5,100                      | 3,800                      | 620                             | 2,900                            | <300                    | --                    | --                     | --                       |                          |                           |
| MW-5             | 04-23-98               | 22.45                             | 6.25                   | ND                                 | 16.20                           | 04-23-98                | 45,000                   | 8,000                      | 4,000                      | 970                             | 4,200                            | <600                    | --                    | --                     | --                       | 1.5                      | P                         |
| MW-5             | 07-27-98               | 22.45                             | 6.71                   | ND                                 | 15.74                           | 07-27-98                | 30,000                   | 8,000                      | 2,000                      | 590                             | 1,900                            | <600                    | --                    | --                     | --                       | 1.5                      | P                         |
| MW-5             | 10-14-98               | 22.45                             | 7.19                   | ND                                 | 15.26                           | 10-14-98                | 33,000                   | 7,400                      | 1,900                      | 550                             | 1,700                            | <300                    | --                    | --                     | --                       | 1.5                      | P                         |
| MW-5             | 01-21-99               | 22.45                             | 7.03                   | ND                                 | 15.42                           | 01-22-99                | 34,000                   | 6,200                      | 2,600                      | 630                             | 2,300                            | <600                    | --                    | --                     | --                       | 2.5                      | P                         |
| MW-5             | 05-06-99               | 22.45                             | 7.02                   | ND                                 | 15.43                           | 05-06-99                | 7,900                    | 2,400                      | 200                        | 240                             | 580                              | 12                      | --                    | --                     | --                       | 1.07                     | NP                        |
| MW-5             | 08-23-99               | 22.45                             | 7.04                   | ND                                 | 15.41                           | 08-24-99                | 25,000                   | 5,800                      | 2,300                      | 570                             | 2,000                            | 67                      | --                    | --                     | --                       | 1.04                     | P                         |
| MW-5             | 10-28-99               | 22.45                             | 7.90                   | ND                                 | 14.55                           | 10-28-99                | 20,000                   | 5,900                      | 1,100                      | 450                             | 1,100                            | <250                    | --                    | --                     | --                       | 0.87                     | P                         |
| MW-5             | 02-04-00               | 22.45                             | 6.71                   | ND                                 | 15.74                           | 02-04-00                | 32,000                   | 2,500                      | 3,800                      | 770                             | 4,200                            | <75                     | --                    | --                     | --                       | 2.33                     | P                         |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|-----------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-6             | 03-17-95               | 22.08                             | 6.66                   | ND                                 | 15.42                           | 03-17-95                | 45,000                      | 9,300                         | <100                          | 1,900                              | 3,600                               | --                         | --                       | --                        | --                          |                          |                               |
| MW-6             | 06-01-95               | 22.08                             | 7.60                   | ND                                 | 14.48                           | 06-01-95                | 23,000                      | 5,600                         | <50                           | 1,300                              | 1,900                               | --                         | --                       | --                        | --                          |                          |                               |
| MW-6             | 08-31-95               | 22.08                             | 7.92                   | ND                                 | 14.16                           | 08-31-95                | 26,000                      | 8,000                         | <100                          | 1,900                              | 900                                 | <500                       | --                       | --                        | --                          |                          |                               |
| MW-6             | 11-27-95               | 22.08                             | 8.21                   | ND                                 | 13.87                           | 11-27-95                | 6,700                       | 1,800                         | <20                           | 480                                | 230                                 | --                         | --                       | --                        | --                          |                          |                               |
| MW-6             | 02-22-96               | 22.08                             | 6.21                   | ND                                 | 15.87                           | 03-14-96                | 17,000                      | 3,100                         | 69                            | 810                                | 1,500                               | <300                       | --                       | --                        | --                          |                          |                               |
| MW-6             | 05-20-96               | 22.08                             | 7.07                   | ND                                 | 15.01                           | 05-21-96                | 16,000                      | 3,700                         | <50                           | 1,100                              | 1,100                               | <300                       | --                       | --                        | --                          |                          |                               |
| MW-6             | 08-26-96               | 22.08                             | 7.93                   | ND                                 | 14.15                           | 08-26-96                | 23,000                      | 5,800                         | <50                           | 2,000                              | 560                                 | <300                       | --                       | --                        | --                          |                          |                               |
| MW-6             | 11-20-96               | 22.08                             | 8.02                   | ND                                 | 14.06                           | 11-20-96                | 11,000                      | 3,300                         | <50[1]                        | 480                                | 370                                 | <300                       | --                       | --                        | --                          |                          |                               |
| MW-6             | 03-24-97               | 22.77                             | 7.95                   | ND                                 | 14.82                           | 03-24-97                | 9,700                       | 1,900                         | <20                           | 800                                | 270                                 | <100                       | --                       | --                        | --                          |                          |                               |
| MW-6             | 05-23-97               | 22.77                             | 8.17                   | ND                                 | 14.60                           | 05-23-97                | 16,000                      | 4,300                         | <50                           | 1,400                              | 180                                 | <300                       | --                       | --                        | --                          |                          |                               |
| MW-6             | 08-19-97               | 22.77                             | -                      | ND                                 | NA                              | 08-19-97                | Not sampled: well is dry    |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-6             | 11-19-97               | 22.77                             | -                      | ND                                 | NA                              | 11-19-97                | Not sampled: well is dry    |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-6             | 02-19-98               | 22.77                             | 5.78                   | ND                                 | 16.99                           | 02-19-98                | 2,600                       | 540                           | 8                             | 90                                 | 88                                  | <30                        | --                       | --                        | --                          |                          |                               |
| MW-6             | 04-23-98               | 22.77                             | 6.83                   | ND                                 | 15.94                           | 04-24-98                | 7,600                       | 1,300                         | 13                            | 520                                | 190                                 | <60                        | --                       | --                        | --                          | 0.5                      | P                             |
| MW-6             | 07-27-98               | 22.77                             | 7.80                   | ND                                 | 14.97                           | 07-27-98                | 15,000                      | 3,600                         | <25                           | 1,100                              | 230                                 | <150                       | --                       | --                        | --                          | 1.0                      | P                             |
| MW-6             | 10-14-98               | 22.77                             | 8.31                   | ND                                 | 14.46                           | 10-14-98                | 8,700                       | 2,400                         | <20                           | 220                                | 36                                  | <120                       | --                       | --                        | --                          | 2.0                      | P                             |
| MW-6             | 01-21-99               | 22.77                             | 7.90                   | ND                                 | 14.87                           | 01-22-99                | 4,800                       | 1,100                         | <25                           | 340                                | 79                                  | <150                       | --                       | --                        | --                          | 2.0                      | P                             |
| MW-6             | 05-06-99               | 22.77                             | 7.70                   | ND                                 | 15.07                           | 05-06-99                | 1,300                       | 240                           | 2.3                           | 85                                 | 19                                  | 5                          | --                       | --                        | --                          | 1.18                     | P                             |
| MW-6             | 08-23-99               | 22.77                             | 8.24                   | ND                                 | 14.53                           | 08-24-99                | 4,200                       | 970                           | 12                            | 110                                | 29                                  | <15                        | --                       | --                        | --                          | 0.90                     | P                             |
| MW-6             | 10-28-99               | 22.77                             | -                      | ND                                 | NA                              | 10-28-99                | Not sampled: well is dry    |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-6             | 02-04-00               | 22.77                             | 7.31                   | ND                                 | 15.46                           | 02-04-00                | 110                         | <0.5                          | 0.6                           | 1.5                                | 1.9                                 | 11                         | --                       | --                        | --                          | 1.10                     | P                             |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L                                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|--------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-7             | 03-17-95               | 22.89                             | 7.68                   | ND                                 | 15.21                           | 03-17-95                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-7             | 06-01-95               | 22.89                             | 8.40                   | ND                                 | 14.49                           | 06-01-95                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-7             | 08-31-95               | 22.89                             | 9.09                   | ND                                 | 13.80                           | 08-31-95                | <50                                                          | <0.5                          | <0.5                          | 0.6                                | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-7             | 11-27-95               | 22.89                             | 9.15                   | ND                                 | 13.74                           | 11-27-95                | <50                                                          | <0.5                          | <0.5                          | 0.9                                | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-7             | 02-22-96               | 22.89                             | 7.44                   | ND                                 | 15.45                           | 03-14-96                | 110                                                          | 1.4                           | <0.5                          | 3.8                                | 3.0                                 | <3                         | --                       | --                        | --                          |                          |                               |
| MW-7             | 05-20-96               | 22.89                             | 8.47                   | ND                                 | 14.42                           | 05-21-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-7             | 08-26-96               | 22.89                             | 8.81                   | ND                                 | 14.08                           | 08-26-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-7             | 11-20-96               | 22.89                             | 9.17                   | ND                                 | 13.72                           | 11-20-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-7             | 03-24-97               | 22.89                             | 8.31                   | ND                                 | 14.58                           | 03-24-97                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-7             | 05-23-97               | 22.89                             | 9.26                   | ND                                 | 13.63                           | 05-23-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-7             | 08-19-97               | 22.89                             | -                      | ND                                 | NA                              | 08-19-97                | Not sampled: well is dry                                     |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-7             | 11-19-97               | 22.89                             | -                      | ND                                 | NA                              | 11-19-97                | Not sampled: well is dry                                     |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-7             | 02-19-98               | 22.89                             | 6.13                   | ND                                 | 16.76                           | 02-19-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-7             | 04-23-98               | 22.89                             | 7.44                   | ND                                 | 15.45                           | 04-23-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 0.5                      | P                             |
| MW-7             | 07-27-98               | 22.89                             | 8.75                   | ND                                 | 14.14                           | 07-27-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.5                      | P                             |
| MW-7             | 10-14-98               | 22.89                             | 9.22                   | ND                                 | 13.67                           | 10-14-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.5                      | P                             |
| MW-7             | 01-21-99               | 22.89                             | 9.07                   | ND                                 | 13.82                           | 01-22-99                | 52                                                           | <0.5                          | <0.5                          | <0.5                               | 0.27                                | <3                         | --                       | --                        | --                          | 3.0                      | P                             |
| MW-7             | 05-06-99               | 22.89                             | 8.32                   | ND                                 | 14.57                           | 05-06-99                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 0.83                     | P                             |
| MW-7             | 08-23-99               | 22.89                             | 9.25                   | ND                                 | 13.64                           | 08-24-99                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.42                     | P                             |
| MW-7             | 10-28-99               | 22.89                             | Not surveyed           |                                    |                                 | 10-28-99                | Not sampled: well is dry                                     |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-7             | 02-04-00               | 22.89                             | 8.79                   | ND                                 | 14.10                           | 02-04-00                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <1                                  | <3                         | --                       | --                        | --                          | 4.46                     | P                             |

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**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|-----------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-8             | 03-17-95               | 20.97                             | 6.14                   | ND                                 | 14.83                           | 03-17-95                | 5,400                       | <5                            | <5                            | 35                                 | <5                                  | --                         | --                       | --                        | --                          |                          |                               |
| MW-8             | 06-01-95               | 20.97                             | 6.50                   | ND                                 | 14.47                           | 06-01-95                | 2,600                       | <2.5                          | <2.5                          | 15                                 | <2.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-8             | 08-31-95               | 20.97                             | 7.35                   | ND                                 | 13.62                           | 08-31-95                | 1,400                       | <3                            | <3                            | 5                                  | <3                                  | 520                        | --                       | 900                       | --                          |                          |                               |
| MW-8             | 11-27-95               | 20.97                             | 7.60                   | ND                                 | 13.37                           | 11-27-95                | 620                         | <0.5                          | <0.5                          | <0.5                               | 0.5                                 | --                         | 560                      | 900                       | 510[1]                      |                          |                               |
| MW-8             | 02-22-96               | 20.97                             | 5.35                   | ND                                 | 15.62                           | 03-14-96                | 5,800                       | <5                            | <5                            | 28                                 | <5                                  | 110                        | --                       | 1,900                     | 6,800[1]                    |                          |                               |
| MW-8             | 05-20-96               | 20.97                             | 5.92                   | ND                                 | 15.05                           | 05-21-96                | 6,100                       | <5                            | <5                            | 26                                 | <5                                  | 240                        | --                       | --                        | --                          |                          |                               |
| MW-8             | 08-26-96               | 20.97                             | 7.08                   | ND                                 | 13.89                           | 08-26-96                | 970                         | <1                            | <1                            | 3                                  | <1                                  | 710                        | --                       | --                        | --                          |                          |                               |
| MW-8             | 11-20-96               | 20.97                             | 7.01                   | ND                                 | 13.96                           | 11-20-96                | 3,900                       | <2.5                          | <2.5                          | 12                                 | <2.5                                | 930                        | --                       | --                        | --                          |                          |                               |
| MW-8             | 03-24-97               | 20.89                             | 7.33                   | ND                                 | 13.56                           | 03-24-97                | 1,400                       | <10                           | <10                           | <10                                | 12                                  | 1,300                      | --                       | --                        | --                          |                          |                               |
| MW-8             | 05-23-97               | 20.89                             | 7.55                   | ND                                 | 13.34                           | 05-23-97                | 730                         | <5                            | <5                            | <5                                 | <5                                  | 630                        | --                       | --                        | --                          |                          |                               |
| MW-8             | 08-19-97               | 20.89                             | 7.87                   | ND                                 | 13.02                           | 08-19-97                | <500                        | <5                            | <5                            | <5                                 | <5                                  | 290                        | --                       | --                        | --                          |                          |                               |
| MW-8             | 11-19-97               | 20.89                             | 7.87                   | ND                                 | 13.02                           | 11-19-97                | <200                        | <2                            | <2                            | <2                                 | <2                                  | 260                        | --                       | --                        | --                          |                          |                               |
| MW-8             | 02-19-98               | 20.89                             | 4.46                   | ND                                 | 16.43                           | 02-19-98                | 2,000                       | <2                            | <2                            | 9                                  | <2                                  | 140                        | --                       | --                        | --                          |                          |                               |
| MW-8             | 04-23-98               | 20.89                             | 6.35                   | ND                                 | 14.54                           | 04-24-98                | 4,500                       | <5                            | <5                            | <5                                 | 11                                  | 590                        | --                       | --                        | --                          | 0.5                      | P                             |
| MW-8             | 07-27-98               | 20.89                             | 7.43                   | ND                                 | 13.46                           | 07-27-98                | Not sampled                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-8             | 10-14-98               | 20.89                             | 7.79                   | ND                                 | 13.10                           | 10-14-98                | Not sampled                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-8             | 01-21-99               | 20.89                             | 6.54                   | ND                                 | 14.35                           | 01-22-99                | 2,000                       | <2                            | <2                            | 3                                  | <2                                  | 320                        | --                       | --                        | --                          | 2.5                      | P                             |
| MW-8             | 05-06-99               | 20.89                             | 7.30                   | ND                                 | 13.59                           | 05-06-99                | <50                         | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 160                        | --                       | --                        | --                          | 12.76                    | NP                            |
| MW-8             | 08-23-99               | 20.89                             | 7.45                   | ND                                 | 13.44                           | 08-24-99                | <50                         | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 5                          | --                       | --                        | --                          | 7.85                     | NP                            |
| MW-8             | 10-28-99               | 20.89                             | 8.22                   | ND                                 | 12.67                           | 10-28-99                | 160                         | <0.5                          | <0.5                          | <0.5                               | <1                                  | 45                         | --                       | --                        | --                          | 0.84                     | P                             |
| MW-8             | 02-04-00               | 20.89                             | 8.47                   | ND                                 | 12.42                           | 02-04-00                | <50                         | <0.5                          | <0.5                          | <0.5                               | <1                                  | <3                         | --                       | --                        | --                          | 1.92                     | P                             |

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**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L                                                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|------------------------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-9             | 03-17-95               | 20.89                             | 6.94                   | ND                                 | 13.95                           | 03-17-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-9             | 06-01-95               | 20.89                             | 8.15                   | ND                                 | 12.74                           | 06-01-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-9             | 08-31-95               | 20.89                             | 8.10                   | ND                                 | 12.79                           | 08-31-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-9             | 11-27-95               | 20.89                             | 8.38                   | ND                                 | 12.51                           | 11-27-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-9             | 02-22-96               | 20.89                             | 7.36                   | ND                                 | 13.53                           | 03-14-96                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-9             | 05-20-96               | 20.89                             | 7.81                   | ND                                 | 13.08                           | 05-21-96                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-9             | 08-26-96               | 20.89                             | 8.00                   | ND                                 | 12.89                           | 08-26-96                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-9             | 11-20-96               | 20.89                             | 7.06                   | ND                                 | 13.83                           | 11-20-96                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-9             | 03-24-97               | 22.26                             | 7.74                   | ND                                 | 14.52                           | 03-24-97                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-9             | 05-23-97               | 22.26                             | 8.28                   | ND                                 | 13.98                           | 05-23-97                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-9             | 08-19-97               | 22.26                             | 8.32                   | ND                                 | 13.94                           | 08-19-97                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-9             | 11-19-97               | 22.26                             | 8.32                   | ND                                 | 13.94                           | 11-19-97                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-9             | 02-19-98               | 22.26                             | 7.11                   | ND                                 | 15.15                           | 02-19-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-9             | 04-23-98               | 22.26                             | 8.18                   | ND                                 | 14.08                           | 04-23-98                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-9             | 07-27-98               | 22.26                             | 7.97                   | ND                                 | 14.29                           | 07-27-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 3.6                      | P                             |
| MW-9             | 10-14-98               | 22.26                             | 8.29                   | ND                                 | 13.97                           | 10-14-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 2.5                      | P                             |
| MW-9             | 01-21-99               | 22.26                             | 7.63                   | ND                                 | 14.63                           | 01-22-99                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.5                      | P                             |
| MW-9             | 05-06-99               | 22.26                             | 7.27                   | ND                                 | 14.99                           | 05-06-99                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-9             | 08-23-99               | 22.26                             | 8.24                   | ND                                 | 14.02                           | 08-24-99                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.93                     | P                             |
| MW-9             | 10-28-99               | 22.26                             | 8.63                   | ND                                 | 13.63                           | 10-28-99                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-9             | 02-04-00               | 22.26                             | 8.01                   | ND                                 | 14.25                           | 02-05-00                | <50                                                                          | <0.5                          | 1.6                           | <0.5                               | <1                                  | <3                         | --                       | --                        | --                          | 1.47                     | P                             |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L                                                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|------------------------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-10            | 03-17-95               | 21.12                             | 6.26                   | ND                                 | 14.86                           | 03-17-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-10            | 06-01-95               | 21.12                             | 7.63                   | ND                                 | 13.49                           | 06-01-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-10            | 08-31-95               | 21.12                             | 8.17                   | ND                                 | 12.95                           | 08-31-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          |                          |                               |
| MW-10            | 11-27-95               | 21.12                             | 8.38                   | ND                                 | 12.74                           | 11-27-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-10            | 02-22-96               | 21.12                             | 5.41                   | ND                                 | 15.71                           | 03-14-96                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          |                          |                               |
| MW-10            | 05-20-96               | 21.12                             | 6.78                   | ND                                 | 14.34                           | 05-21-96                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-10            | 08-26-96               | 21.12                             | 8.00                   | ND                                 | 13.12                           | 08-26-96                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          |                          |                               |
| MW-10            | 11-20-96               | 21.12                             | 7.81                   | ND                                 | 13.31                           | 11-20-96                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-10            | 03-24-97               | 21.33                             | 7.87                   | ND                                 | 13.46                           | 03-24-97                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          |                          |                               |
| MW-10            | 05-23-97               | 21.33                             | 8.33                   | ND                                 | 13.00                           | 05-23-97                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-10            | 08-19-97               | 21.33                             | 8.39                   | ND                                 | 12.94                           | 08-19-97                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          |                          |                               |
| MW-10            | 11-19-97               | 21.33                             | 8.39                   | ND                                 | 12.94                           | 11-19-97                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          |                          |                               |
| MW-10            | 02-19-98               | 21.33                             | 4.65                   | ND                                 | 16.68                           | 02-19-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          |                          |                               |
| MW-10            | 04-23-98               | 21.33                             | 6.28                   | ND                                 | 15.05                           | 04-23-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          | 0.5                      | P                             |
| MW-10            | 07-27-98               | 21.33                             | 7.97                   | ND                                 | 13.36                           | 07-27-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          | 3.3                      | P                             |
| MW-10            | 10-14-98               | 21.33                             | 8.41                   | ND                                 | 12.92                           | 10-14-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          | 1.0                      | P                             |
| MW-10            | 01-21-99               | 21.33                             | 6.65                   | ND                                 | 14.68                           | 01-22-99                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          | 0.5                      | P                             |
| MW-10            | 05-06-99               | 21.33                             | 7.74                   | ND                                 | 13.59                           | 05-06-99                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          | 0.76                     | P                             |
| MW-10            | 08-23-99               | 21.33                             | 8.37                   | ND                                 | 12.96                           | 08-24-99                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | Δ                          | --                       | --                        | --                          | 1.21                     | P                             |
| MW-10            | 10-28-99               | 21.33                             | 8.73                   | ND                                 | 12.60                           | 10-28-99                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <1                                  | Δ                          | --                       | --                        | --                          | 1.12                     | P                             |
| MW-10            | 02-04-00               | 21.33                             | 8.78                   | ND                                 | 12.55                           | 02-05-00                | <50                                                                          | <0.5                          | 1.0                           | <0.5                               | <1                                  | Δ                          | --                       | --                        | --                          | 2.84                     | P                             |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHC<br>LUFT Method<br>µg/L                                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|--------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-11            | 03-17-95               | 22.38                             | 6.94                   | ND                                 | 15.44                           | 03-17-95                | 100                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-11            | 06-01-95               | 22.38                             | 7.90                   | ND                                 | 14.48                           | 06-01-95                | 210                                                          | <0.5                          | <0.5                          | 0.9                                | 0.7                                 | --                         | --                       | --                        | --                          |                          |                               |
| MW-11            | 08-31-95               | 22.38                             | 8.18                   | ND                                 | 14.20                           | 08-31-95                | 680                                                          | <0.5                          | <0.5                          | 4                                  | 1.8                                 | <3                         | --                       | --                        | --                          |                          |                               |
| MW-11            | 11-27-95               | 22.38                             | 8.48                   | ND                                 | 13.90                           | 11-27-95                | 340                                                          | <0.5                          | <0.5                          | 2.2                                | 1.6                                 | --                         | --                       | --                        | --                          |                          |                               |
| MW-11            | 02-22-96               | 22.38                             | 6.63                   | ND                                 | 15.75                           | 03-14-96                | 150                                                          | <0.5                          | <0.5                          | <0.8                               | 0.8                                 | <3                         | --                       | --                        | --                          |                          |                               |
| MW-11            | 05-20-96               | 22.38                             | 7.25                   | ND                                 | 15.13                           | 05-21-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 08-26-96               | 22.38                             | 8.22                   | ND                                 | 14.16                           | 08-26-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 11-20-96               | 22.38                             | 8.37                   | ND                                 | 14.01                           | 11-20-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 03-24-97               | 20.97                             | 8.15                   | ND                                 | 12.82                           | 03-24-97                | 63                                                           | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-11            | 05-23-97               | 20.97                             | 8.48                   | ND                                 | 12.49                           | 05-23-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 08-19-97               | 20.97                             | 8.67                   | ND                                 | 12.30                           | 08-19-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 11-19-97               | 20.97                             | 8.67                   | ND                                 | 12.30                           | 11-19-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 02-19-98               | 20.97                             | 6.25                   | ND                                 | 14.72                           | 02-19-98                | <50                                                          | <0.5                          | 1.6                           | <0.5                               | 1.8                                 | 7                          | --                       | --                        | --                          |                          |                               |
| MW-11            | 04-23-98               | 20.97                             | 7.23                   | ND                                 | 13.74                           | 04-23-98                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 07-27-98               | 20.97                             | 8.05                   | ND                                 | 12.92                           | 07-27-98                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 10-14-98               | 20.97                             | 8.58                   | ND                                 | 12.39                           | 10-14-98                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 01-21-99               | 20.97                             | 8.25                   | ND                                 | 12.72                           | 01-22-99                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 0.5                      | P                             |
| MW-11            | 05-06-99               | 20.97                             | 7.95                   | ND                                 | 13.02                           | 05-06-99                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 08-23-99               | 20.97                             | 8.51                   | ND                                 | 12.46                           | 08-24-99                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          | 0.86                          |
| MW-11            | 10-28-99               | 20.97                             | 8.95                   | ND                                 | 12.02                           | 10-28-99                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-11            | 02-04-00               | 20.97                             | 7.88                   | ND                                 | 13.09                           | 02-04-00                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <1                                  | <3                         | --                       | --                        | --                          | 3.29                     | P                             |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L                                                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|------------------------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-12            | 03-17-95               | 22.77                             | 7.09                   | ND                                 | 15.68                           | 03-17-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-12            | 06-01-95               | 22.77                             | 8.40                   | ND                                 | 14.37                           | 06-01-95                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 08-31-95               | 22.77                             | 8.55                   | ND                                 | 14.22                           | 08-31-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-12            | 11-27-95               | 22.77                             | 8.95                   | ND                                 | 13.82                           | 11-27-95                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 02-22-96               | 22.77                             | 6.81                   | ND                                 | 15.96                           | 03-14-96                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-12            | 05-20-96               | 22.77                             | 7.56                   | ND                                 | 15.21                           | 05-21-96                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 08-26-96               | 22.77                             | 8.63                   | ND                                 | 14.14                           | 08-26-96                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 11-20-96               | 22.77                             | 8.38                   | ND                                 | 14.39                           | 11-20-96                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 03-24-97               | 20.11                             | 8.75                   | ND                                 | 11.36                           | 03-24-97                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-12            | 05-23-97               | 20.11                             | 8.92                   | ND                                 | 11.19                           | 05-23-97                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 08-19-97               | 20.11                             | 9.20                   | ND                                 | 10.91                           | 08-19-97                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 11-19-97               | 20.11                             | 9.20                   | ND                                 | 10.91                           | 11-19-97                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 02-19-98               | 20.11                             | 6.28                   | ND                                 | 13.83                           | 02-19-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-12            | 04-23-98               | 20.11                             | 7.52                   | ND                                 | 12.59                           | 04-23-98                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 07-27-98               | 20.11                             | 8.52                   | ND                                 | 11.59                           | 07-27-98                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 10-14-98               | 20.11                             | 9.06                   | ND                                 | 11.05                           | 10-14-98                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 01-21-99               | 20.11                             | 8.20                   | ND                                 | 11.91                           | 01-22-99                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.5                      | P                             |
| MW-12            | 05-06-99               | 20.11                             | 8.47                   | ND                                 | 11.64                           | 05-06-99                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 08-23-99               | 20.11                             | 9.04                   | ND                                 | 11.07                           | 08-24-99                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          | 0.85                          |
| MW-12            | 10-28-99               | 20.11                             | 9.40                   | ND                                 | 10.71                           | 10-28-99                | Not sampled: well sampled annually, during the first quarter                 |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-12            | 02-04-00               | 20.11                             | 8.38                   | ND                                 | 11.73                           | 02-04-00                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <1                                  | <3                         | --                       | --                        | --                          | 3.34                     | P                             |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L                                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|--------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-13            | 03-17-95               | 22.45                             | 6.91                   | ND                                 | 15.54                           | 03-17-95                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-13            | 06-01-95               | 22.45                             | 7.72                   | ND                                 | 14.73                           | 06-01-95                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 08-31-95               | 22.45                             | 7.58                   | ND                                 | 14.87                           | 08-31-95                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 11-27-95               | 22.45                             | 7.98                   | ND                                 | 14.47                           | 11-27-95                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 02-22-96               | 22.45                             | 6.71                   | ND                                 | 15.74                           | 03-14-96                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-13            | 05-20-96               | 22.45                             | 6.98                   | ND                                 | 15.47                           | 05-21-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 08-26-96               | 22.45                             | 7.85                   | ND                                 | 14.60                           | 08-26-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 11-20-96               | 22.45                             | 7.76                   | ND                                 | 14.69                           | 11-20-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 03-24-97               | 20.75                             | 7.85                   | ND                                 | 12.90                           | 03-24-97                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-13            | 05-23-97               | 20.75                             | 8.16                   | ND                                 | 12.59                           | 05-23-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 08-19-97               | 20.75                             | 8.40                   | ND                                 | 12.35                           | 08-19-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 11-19-97               | 20.75                             | 8.40                   | ND                                 | 12.35                           | 11-19-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 02-19-98               | 20.75                             | 6.44                   | ND                                 | 14.31                           | 02-19-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-13            | 04-23-98               | 20.75                             | 6.80                   | ND                                 | 13.95                           | 04-23-98                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 07-27-98               | 20.75                             | 7.52                   | ND                                 | 13.23                           | 07-27-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.5                      | P                             |
| MW-13            | 10-14-98               | 20.75                             | 8.15                   | ND                                 | 12.60                           | 10-14-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 2.0                      | P                             |
| MW-13            | 01-21-99               | 20.75                             | 7.85                   | ND                                 | 12.90                           | 01-22-99                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.5                      | P                             |
| MW-13            | 05-06-99               | 20.75                             | 7.82                   | ND                                 | 12.93                           | 05-06-99                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 08-23-99               | 20.75                             | 8.29                   | ND                                 | 12.46                           | 08-24-99                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 10-28-99               | 20.75                             | 8.55                   | ND                                 | 12.20                           | 10-28-99                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-13            | 02-04-00               | 20.75                             | 8.11                   | ND                                 | 12.64                           | 02-05-00                | <50                                                          | <0.5                          | 0.6                           | <0.5                               | <1                                  | <3                         | --                       | --                        | --                          | 1.27                     | P                             |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L                                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|--------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-14            | 03-17-95               | 22.99                             | 8.17                   | ND                                 | 14.82                           | 03-17-95                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-14            | 06-01-95               | 22.99                             | 8.57                   | ND                                 | 14.42                           | 06-01-95                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-14            | 08-31-95               | 22.99                             | 9.05                   | ND                                 | 13.94                           | 08-31-95                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-14            | 11-27-95               | 22.99                             | 9.19                   | ND                                 | 13.80                           | 11-27-95                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-14            | 02-22-96               | 22.99                             | 6.52                   | ND                                 | 16.47                           | 03-14-96                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-14            | 05-20-96               | 22.99                             | 7.88                   | ND                                 | 15.11                           | 05-21-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-14            | 08-26-96               | 22.99                             | 8.83                   | ND                                 | 14.16                           | 08-26-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-14            | 11-20-96               | 22.99                             | 8.95                   | ND                                 | 14.04                           | 11-20-96                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-14            | 03-24-97               | 20.90                             | 8.98                   | ND                                 | 11.92                           | 03-24-97                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-14            | 05-23-97               | 20.90                             | 9.61                   | ND                                 | 11.29                           | 05-23-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-14            | 08-19-97               | 20.90                             | 9.80                   | ND                                 | 11.10                           | 08-19-97                | Not sampled: well sampled annually, during the first quarter |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-14            | 11-19-97               | 20.90                             | 9.80                   | ND                                 | 11.10                           | 11-19-97                | <50                                                          | 1.7                           | <0.5                          | 0.6                                | 3                                   | <3                         | --                       | --                        | --                          |                          |                               |
| MW-14            | 02-19-98               | 20.90                             | 6.27                   | ND                                 | 14.63                           | 02-19-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-14            | 04-23-98               | 20.90                             | 7.75                   | ND                                 | 13.15                           | 04-23-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 0.5                      | P                             |
| MW-14            | 07-27-98               | 20.90                             | 9.24                   | ND                                 | 11.66                           | 07-27-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.0                      | P                             |
| MW-14            | 10-14-98               | 20.90                             | 9.73                   | ND                                 | 11.17                           | 10-14-98                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.0                      | P                             |
| MW-14            | 01-21-99               | 20.90                             | 8.90                   | ND                                 | 12.00                           | 01-22-99                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 1.5                      | P                             |
| MW-14            | 05-06-99               | 20.90                             | 8.98                   | ND                                 | 11.92                           | 05-06-99                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 0.73                     | P                             |
| MW-14            | 08-23-99               | 20.90                             | 9.68                   | ND                                 | 11.22                           | 08-24-99                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          | 0.91                     | P                             |
| MW-14            | 10-28-99               | 20.90                             | 10.00                  | ND                                 | 10.90                           | 10-28-99                | <50                                                          | <0.5                          | <0.5                          | <0.5                               | <1                                  | <10                        | --                       | --                        | --                          | 1.06                     | P                             |
| MW-14            | 02-04-00               | 20.90                             | 8.19                   | ND                                 | 12.71                           | 02-05-00                | <50                                                          | <0.5                          | 0.5                           | <0.5                               | <1                                  | <3                         | --                       | --                        | --                          | 1.21                     | P                             |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L                                                  | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|------------------------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-15            | 03-17-95               | 19.19                             | 5.21                   | ND                                 | 13.98                           | 03-17-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | --                         | --                       | --                        | --                          |                          |                               |
| MW-15            | 06-01-95               | 19.19                             | 5.84                   | ND                                 | 13.35                           | 06-01-95                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-15            | 08-31-95               | 19.19                             | 6.18                   | ND                                 | 13.01                           | 08-31-95                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | <3                         | --                       | --                        | --                          |                          |                               |
| MW-15            | 11-27-95               | 19.19                             | 6.42                   | ND                                 | 12.77                           | 11-27-95                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-15            | 02-22-96               | 19.19                             | 4.84                   | ND                                 | 14.35                           | 03-14-96                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 12                         | --                       | --                        | --                          |                          |                               |
| MW-15            | 05-20-96               | 19.19                             | 5.31                   | ND                                 | 13.88                           | 05-21-96                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-15            | 08-26-96               | 19.19                             | 6.05                   | ND                                 | 13.14                           | 08-26-96                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 8                          | --                       | --                        | --                          |                          |                               |
| MW-15            | 11-20-96               | 19.19                             | 5.46                   | ND                                 | 13.73                           | 11-20-96                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-15            | 03-24-97               | 22.08                             | 6.00                   | ND                                 | 16.08                           | 03-24-97                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 15                         | --                       | --                        | --                          |                          |                               |
| MW-15            | 05-23-97               | 22.08                             | 6.25                   | ND                                 | 15.83                           | 05-23-97                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-15            | 08-19-97               | 22.08                             | 6.34                   | ND                                 | 15.74                           | 08-19-97                | 99[1]                                                                        | <0.5                          | <0.5                          | <0.5                               | 0.7                                 | 6                          | --                       | --                        | --                          |                          |                               |
| MW-15            | 11-19-97               | 22.08                             | 6.34                   | ND                                 | 15.74                           | 11-19-97                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-15            | 02-19-98               | 22.08                             | 4.66                   | ND                                 | 17.42                           | 02-19-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 48                         | --                       | --                        | --                          |                          |                               |
| MW-15            | 04-23-98               | 22.08                             | 5.18                   | ND                                 | 16.90                           | 04-23-98                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-15            | 07-27-98               | 22.08                             | 6.02                   | ND                                 | 16.06                           | 07-27-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 50                         | --                       | --                        | --                          | 1.0                      | P                             |
| MW-15            | 10-14-98               | 22.08                             | 6.26                   | ND                                 | 15.82                           | 10-14-98                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 27                         | --                       | --                        | --                          | 1.5                      | P                             |
| MW-15            | 01-21-99               | 22.08                             | 5.33                   | ND                                 | 16.75                           | 01-22-99                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 6                          | --                       | --                        | --                          | 1.0                      | P                             |
| MW-15            | 05-06-99               | 22.08                             | 5.82                   | ND                                 | 16.26                           | 05-06-99                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-15            | 08-23-99               | 22.08                             | 6.24                   | ND                                 | 15.84                           | 08-24-99                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <0.5                                | 21                         | --                       | --                        | --                          | 1.14                     | P                             |
| MW-15            | 10-28-99               | 22.08                             | 6.60                   | ND                                 | 15.48                           | 10-28-99                | Not sampled: well sampled semi-annually, during the first and third quarters |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |
| MW-15            | 02-04-00               | 22.08                             | 7.02                   | ND                                 | 15.06                           | 02-04-00                | <50                                                                          | <0.5                          | <0.5                          | <0.5                               | <1                                  | <3                         | --                       | --                        | --                          | 1.09                     | P                             |

**Table 1**  
**Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Water Level Field Date | Top of Casing Elevation<br>ft-MSL | Depth to Water<br>feet | Floating Product Thickness<br>feet | Groundwater Elevation<br>ft-MSL | Water Sample Field Date | TPHG<br>LUFT Method<br>µg/L | Benzene<br>EPA 8021B*<br>µg/L | Toluene<br>EPA 8021B*<br>µg/L | Ethylbenzene<br>EPA 8021B*<br>µg/L | Total Xylenes<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8021B*<br>µg/L | MTBE<br>EPA 8240<br>µg/L | TRPH<br>EPA 418.1<br>µg/L | TPHD<br>LUFT Method<br>µg/L | Dissolved Oxygen<br>mg/L | Purged/<br>Not Purged<br>P/NP |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------|-------------------------|-----------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| ft-MSL: elevation in feet, relative to mean sea level<br>TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method<br>MTBE: Methyl tert-butyl ether<br>TRPH: total recoverable petroleum hydrocarbons<br>TPHD: total petroleum hydrocarbons as diesel, California DHS LUFT Method<br>µg/L: micrograms per liter<br>mg/L: milligrams per liter<br>ND: none detected<br>DRY: dry well; groundwater was not detected<br>- - : not analyzed<br>[1]: Sample contains a higher boiling point hydrocarbon mixture quantitated as gasoline. The chromatogram did not match the typical gasoline fingerprint.<br>*: EPA method 8020 prior to 10/28/99<br>**: [corrected elevation (Z')] = Z + (h * 0.73) where: Z = measured elevation, h = floating product thickness, 0.73 = density ratio of oil to water<br>***: For previous historical groundwater elevation and analytical data please refer to <i>Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California</i> , (EMCON, March 14, 1996). |                        |                                   |                        |                                    |                                 |                         |                             |                               |                               |                                    |                                     |                            |                          |                           |                             |                          |                               |

**Table 2**  
**Groundwater Flow Direction and Gradient**

**ARCO Service Station No. 601**  
**712 Lewelling Boulevard, San Leandro, California**

| <b>Date<br/>Measured</b> | <b>Average<br/>Flow Direction</b> | <b>Average<br/>Hydraulic Gradient</b> |
|--------------------------|-----------------------------------|---------------------------------------|
| 03/17/95                 | West-Southwest                    | 0.006                                 |
| 06/01/95                 | Southwest                         | 0.003                                 |
| 08/31/95                 | South-Southwest                   | 0.005                                 |
| 11/27/95                 | South-Southwest                   | 0.004                                 |
| 02/22/96                 | Northwest                         | 0.007                                 |
| 05/20/96                 | Southwest                         | 0.007                                 |
| 08/26/96                 | South-Southwest                   | 0.004                                 |
| 11/20/96                 | South-Southeast                   | 0.004                                 |
| 03/24/97                 | Southeast                         | 0.013                                 |
| 05/23/97                 | Southeast                         | 0.014                                 |
| 08/19/97                 | Southeast                         | 0.04                                  |
| 11/19/97                 | Southeast                         | 0.016                                 |
| 02/19/98                 | East                              | Variable                              |
| 04/23/98                 | Variable                          | Variable                              |
| 07/27/98                 | Southeast                         | 0.05                                  |
| 10/14/98                 | Southeast                         | 0.02                                  |
| 01/21/99                 | East                              | 0.04                                  |
| 05/06/99                 | Southeast                         | 0.05                                  |
| 08/23/99                 | Southeast                         | 0.02                                  |
| 10/28/99                 | Southeast                         | 0.04                                  |
| <b>02/04/00</b>          | <b>East-Southeast</b>             | <b>0.053</b>                          |

**Table 3**  
**Historical Groundwater Analytical Data**  
**Metals\***  
**1995 - Present\*\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation | Water Sample Field Date | Cadmium<br>EPA 6010<br>µg/L                                                        | Chromium<br>EPA 6010<br>µg/L | Lead<br>EPA 7421<br>µg/L | Nickel<br>EPA 6010<br>µg/L | Zinc<br>EPA 6010<br>µg/L |
|------------------|-------------------------|------------------------------------------------------------------------------------|------------------------------|--------------------------|----------------------------|--------------------------|
| MW-1             | 03-17-95                | <5                                                                                 | 20                           | 20                       | <40                        | 60                       |
| MW-1             | 06-01-95                | <5                                                                                 | 20                           | 22                       | 70                         | 100                      |
| MW-1             | 08-31-95                | Not sampled: well contained floating product                                       |                              |                          |                            |                          |
| MW-1             | 11-27-95                | Not sampled: well contained floating product                                       |                              |                          |                            |                          |
| MW-1             | 03-14-96                | Not sampled: well contained floating product                                       |                              |                          |                            |                          |
| MW-1             | 05-21-96                | 0.006                                                                              | <0.01                        | <0.005                   | <0.02                      | <0.02                    |
| MW-1             | 08-26-96                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 11-20-96                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 03-24-97                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 05-23-97                | Not analyzed: well MW-8 was sampled for additional parameters in lieu of well MW-1 |                              |                          |                            |                          |
| MW-1             | 08-19-97                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 11-19-97                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 02-19-98                | <0.01                                                                              | <0.01                        | <0.05                    | <0.02                      | <0.02                    |
| MW-1             | 04-23-98                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 07-27-98                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 10-14-98                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 01-22-99                | <0.005                                                                             | <0.01                        | <0.05                    | <0.02                      | <0.02                    |
| MW-1             | 05-06-99                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 08-24-99                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 10-28-99                | --                                                                                 | --                           | --                       | --                         | --                       |
| MW-1             | 02-04-00                | Not analyzed for metals                                                            |                              |                          |                            |                          |
| MW-8             | 08-31-95                | <5                                                                                 | 40                           | 16                       | 50                         | 90                       |
| MW-8             | 11-27-95                | <5                                                                                 | 130                          | 77                       | 170                        | 280                      |
| MW-8             | 03-14-96                | <5                                                                                 | 30                           | 7                        | 40                         | 60                       |
| MW-8             | 05-23-97                | <0.005                                                                             | <0.01                        | <0.005                   | <0.02                      | <0.02                    |

EPA: United States Environmental Protection Agency  
µg/L: micrograms per liter  
-- : not analyzed  
\*: Historically samples were analyzed for total metals. Since March 14, 1996, the samples were filtered and analyzed for dissolved metals  
\*\*: For previous historical analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California*, (EMCON, March 14, 1996).

**Table 4**  
**Historical Groundwater Analytical Data**  
**Volatile and Semivolatile Organic Compounds**  
**1995 - Present\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation<br>Water Sample<br>Field Date | Volatile Organic Compounds<br>by EPA Method 601/8010 or 624/8240                   |                                 |                                 |                 |                 |                      |                       | Semivolatile Organic Compounds<br>by EPA Method 3520/8270 |                                  |                                         |                |                                  |
|------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------|---------------------------------|-----------------|-----------------|----------------------|-----------------------|-----------------------------------------------------------|----------------------------------|-----------------------------------------|----------------|----------------------------------|
|                                                | Methylene<br>Chloride<br>µg/L                                                      | 1,2-Dichloro-<br>ethane<br>µg/L | 1,1-Dichloro-<br>ethane<br>µg/L | Benzene<br>µg/L | Toluene<br>µg/L | Ethylbenzene<br>µg/L | Total Xylenes<br>µg/L | Naphthalene<br>µg/L                                       | 2-Methyl-<br>naphthalene<br>µg/L | Bis (2-ethylhexyl)<br>Phthalate<br>µg/L | Phenol<br>µg/L | 2,4-Di-methyl-<br>phenol<br>µg/L |
| MW-1 03-17-95                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 1300                                                      | 730                              | <50                                     | ND             | 150                              |
| MW-1 06-01-95                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 2200                                                      | 1700                             | <100                                    | 240            | <100                             |
| MW-1 08-31-95                                  | Not sampled: well contained floating product                                       |                                 |                                 |                 |                 |                      |                       |                                                           |                                  |                                         |                |                                  |
| MW-1 11-27-95                                  | Not sampled: well contained floating product                                       |                                 |                                 |                 |                 |                      |                       |                                                           |                                  |                                         |                |                                  |
| MW-1 03-14-96                                  | Not sampled: well contained floating product                                       |                                 |                                 |                 |                 |                      |                       |                                                           |                                  |                                         |                |                                  |
| MW-1 05-21-96                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 1200                                                      | 860                              | <50                                     | <50            | <50                              |
| MW-1 08-26-96                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 2300                                                      | 1800                             | <500                                    | <500           | <1000                            |
| MW-1 11-20-96                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 590                                                       | 250                              | 91                                      | <50            | <100                             |
| MW-1 03-24-97                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 730                                                       | 610                              | <50                                     | <50            | <100                             |
| MW-1 05-23-97                                  | Not analyzed: well MW-8 was sampled for additional parameters in lieu of well MW-1 |                                 |                                 |                 |                 |                      |                       |                                                           |                                  |                                         |                |                                  |
| MW-1 08-19-97                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 1,300                                                     | 790                              | <50                                     | <50            | <100                             |
| MW-1 11-19-97                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | <5                                                        | <5                               | 5                                       | <5             | <10                              |
| MW-1 02-19-98                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 870                                                       | 330                              | <50                                     | <50            | <100                             |
| MW-1 04-23-98                                  | Not analyzed                                                                       |                                 |                                 |                 |                 |                      |                       |                                                           |                                  |                                         |                |                                  |
| MW-1 07-27-98                                  | Not analyzed                                                                       |                                 |                                 |                 |                 |                      |                       |                                                           |                                  |                                         |                |                                  |
| MW-1 10-14-98                                  | Not analyzed                                                                       |                                 |                                 |                 |                 |                      |                       |                                                           |                                  |                                         |                |                                  |
| MW-1 01-28-99**                                | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 950                                                       | 580                              | <50                                     | <50            | <100                             |
| MW-1 05-06-99                                  | Not analyzed                                                                       |                                 |                                 |                 |                 |                      |                       |                                                           |                                  |                                         |                |                                  |
| MW-1 08-24-99                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 1,200                                                     | 400                              | <50                                     | <50            | <100                             |
| MW-1 10-28-99                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 1,100                                                     | 320                              | <50                                     | <50            | <100                             |
| MW-1 02-04-00                                  | --                                                                                 | --                              | --                              | --              | --              | --                   | --                    | 780                                                       | 330                              | <50                                     | <50            | <100                             |

**Table 4**  
**Historical Groundwater Analytical Data**  
**Volatile and Semivolatile Organic Compounds**  
**1995 - Present\***

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well Designation<br>Water Sample<br>Field Date                                                                                                                                                                                                                                                                                                                                                                                                                   | Volatile Organic Compounds<br>by EPA Method 601/8010 or 624/8240 |                                 |                                 |                 |                 |                      |                       | Semivolatile Organic Compounds<br>by EPA Method 3520/8270 |                                  |                                         |                |                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------|---------------------------------|-----------------|-----------------|----------------------|-----------------------|-----------------------------------------------------------|----------------------------------|-----------------------------------------|----------------|----------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Methylene<br>Chloride<br>µg/L                                    | 1,2-Dichloro-<br>ethane<br>µg/L | 1,1-Dichloro-<br>ethane<br>µg/L | Benzene<br>µg/L | Toluene<br>µg/L | Ethylbenzene<br>µg/L | Total Xylenes<br>µg/L | Naphthalene<br>µg/L                                       | 2-Methyl-<br>naphthalene<br>µg/L | Bis (2-ethylhexyl)<br>Phthalate<br>µg/L | Phenol<br>µg/L | 2,4-Di-methyl-<br>phenol<br>µg/L |
| MW-8 08-31-95                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                                               | --                              | --                              | --              | --              | --                   | --                    | 62                                                        | 8                                | <5                                      | <5             | <5                               |
| MW-8 11-27-95                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                                               | --                              | --                              | --              | --              | --                   | --                    | 15                                                        | <5                               | <5                                      | <5             | <5                               |
| MW-8 03-14-96                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                                               | --                              | --                              | --              | --              | --                   | --                    | 400                                                       | 55                               | <50                                     | <50            | <50                              |
| MW-8 05-23-97                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                                               | --                              | --                              | --              | --              | --                   | --                    | 26                                                        | <5                               | <5                                      | <5             | <10                              |
| EPA: United States Environmental Protection Agency<br>µg/L: micrograms per liter<br>-- : not analyzed<br>< = less than the laboratory detection limit stated to the right<br>*: For previous historical analytical data please refer to <i>Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California</i> , (EMCON, March 14, 1996).<br>**: Sampling date is different from Groundwater Monitoring Field Date |                                                                  |                                 |                                 |                 |                 |                      |                       |                                                           |                                  |                                         |                |                                  |

**Table 5**  
**Approximate Cumulative Floating Product Recovered**

**ARCO Service Station 601**  
**712 Lewelling Boulevard, San Leandro, California**

| Well<br>Desig-<br>nation   | Date | Floating<br>Product<br>Recovered<br>gallons |
|----------------------------|------|---------------------------------------------|
| MW-1                       | 1991 | 3.43                                        |
| MW-1                       | 1992 | 0.02                                        |
| MW-1                       | 1993 | 0.00                                        |
| MW-1                       | 1994 | 0.00                                        |
| MW-1                       | 1995 | 0.00                                        |
| MW-1                       | 1996 | 0.00                                        |
| MW-1                       | 1997 | 0.00                                        |
| MW-1                       | 1998 | 0.00                                        |
| MW-1                       | 1999 | 0.00                                        |
| MW-1                       | 2000 | 0.00                                        |
| <b>1991 to 2000 Total:</b> |      | <b>3.45</b>                                 |

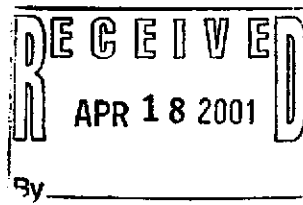
## **APPENDIX C**

Certified Analytical Reports  
And  
Chain-of-Custody Documentation



**Sequoia  
Analytical**

819 Striker Avenue, Suite 8  
Sacramento, CA 95834  
(916) 921-9600  
FAX (916) 921-0100  
www.sequoialabs.com



April 16 , 2001

Steven Meeks  
Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova, CA 95670  
RE: ARCO 601, San Leandro, CA / S104004

Enclosed are the results of analyses for samples received by the laboratory on 03/30/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew  
Client Services Representative

Lito Diaz  
Laboratory Director

CA ELAP Certificate Number 1624





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| MW-18 1-8 | S104004-01    | Water  | 03/28/01 19:15 | 03/30/01 17:05 |
| MW-2-6    | S104004-02    | Water  | 03/28/01 19:05 | 03/30/01 17:05 |
| MW-3-6    | S104004-03    | Water  | 03/28/01 19:10 | 03/30/01 17:05 |
| MW-5-6    | S104004-04    | Water  | 03/28/01 19:00 | 03/30/01 17:05 |
| MW-7-8    | S104004-05    | Water  | 03/28/01 17:35 | 03/30/01 17:05 |
| MW-8-6    | S104004-06    | Water  | 03/28/01 18:55 | 03/30/01 17:05 |
| MW-11-7   | S104004-07    | Water  | 03/28/01 17:30 | 03/30/01 17:05 |
| MW-12-8   | S104004-08    | Water  | 03/28/01 17:40 | 03/30/01 17:05 |
| MW-13-7   | S104004-09    | Water  | 03/28/01 18:50 | 03/30/01 17:05 |
| MW-14-8   | S104004-10    | Water  | 03/28/01 17:25 | 03/30/01 17:05 |
| MW-15-5   | S104004-11    | Water  | 03/28/01 18:44 | 03/30/01 17:05 |
| TB        | S104004-12    | Water  | 03/28/01 08:00 | 03/30/01 17:05 |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

**Sequoia Analytical - Sacramento**

| Analyte                                                                    | Result | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method   | Notes |
|----------------------------------------------------------------------------|--------|-----------------|--------|----------|---------|----------|----------|----------|-------|
| MW-18 (S104004-01) Water Sampled: 03/28/01 19:15 Received: 03/30/01 17:05  |        |                 |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                     | 19800  | 10000           | ug/l   | 200      | 1040068 | 04/04/01 | 04/04/01 | DHS LUFT | P-02  |
| Benzene                                                                    | 2310   | 100             | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                    | ND     | 100             | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                               | 2010   | 100             | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                            | 517    | 100             | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                    | ND     | 500             | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                          |        | 89.8 %          | 60-140 | "        | "       | "        | "        | "        |       |
| MW-2-6 (S104004-02) Water Sampled: 03/28/01 19:05 Received: 03/30/01 17:05 |        |                 |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                     | 838    | 500             | ug/l   | 10       | 1040068 | 04/04/01 | 04/04/01 | DHS LUFT | P-02  |
| Benzene                                                                    | 18.1   | 5.00            | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                    | ND     | 5.00            | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                               | 7.63   | 5.00            | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                            | 5.98   | 5.00            | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                    | 39.5   | 25.0            | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                          |        | 100 %           | 60-140 | "        | "       | "        | "        | "        |       |
| MW-3-6 (S104004-03) Water Sampled: 03/28/01 19:10 Received: 03/30/01 17:05 |        |                 |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                     | 43500  | 20000           | ug/l   | 400      | 1040068 | 04/04/01 | 04/04/01 | DHS LUFT | P-02  |
| Benzene                                                                    | 804    | 200             | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                    | ND     | 200             | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                               | 2150   | 200             | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                            | 11000  | 200             | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                    | ND     | 1000            | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                          |        | 72.5 %          | 60-140 | "        | "       | "        | "        | "        |       |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

### Sequoia Analytical - Sacramento

| Analyte                                                                           | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method   | Notes |
|-----------------------------------------------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|----------|-------|
| <b>MW-5-6 (S104004-04) Water</b> Sampled: 03/28/01 19:00 Received: 03/30/01 17:05 |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                            | 23400  | 5000               | ug/l   | 100      | 1040068 | 04/04/01 | 04/04/01 | DHS LUFT | P-02  |
| Benzene                                                                           | 4160   | 50.0               | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                           | 3450   | 50.0               | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                      | 728    | 50.0               | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                   | 3090   | 50.0               | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                           | ND     | 250                | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                 |        | 81.9 %             | 60-140 |          | "       | "        | "        | "        |       |
| <b>MW-7-8 (S104004-05) Water</b> Sampled: 03/28/01 17:35 Received: 03/30/01 17:05 |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                            | ND     | 50.0               | ug/l   | 1        | 1040067 | 04/04/01 | 04/04/01 | DHS LUFT |       |
| Benzene                                                                           | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                           | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                      | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                   | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                           | ND     | 2.50               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                 |        | 84.7 %             | 60-140 |          | "       | "        | "        | "        |       |
| <b>MW-8-6 (S104004-06) Water</b> Sampled: 03/28/01 18:55 Received: 03/30/01 17:05 |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                            | 840    | 500                | ug/l   | 10       | 1040067 | 04/04/01 | 04/04/01 | DHS LUFT | P-02  |
| Benzene                                                                           | ND     | 5.00               | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                           | ND     | 5.00               | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                      | ND     | 5.00               | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                   | ND     | 5.00               | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                           | 320    | 25.0               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                 |        | 85.5 %             | 60-140 |          | "       | "        | "        | "        |       |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

**Sequoia Analytical - Sacramento**

| Analyte                                                                            | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method   | Notes |
|------------------------------------------------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|----------|-------|
| <b>MW-11-7 (S104004-07) Water Sampled: 03/28/01 17:30 Received: 03/30/01 17:05</b> |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                             | ND     | 50.0               | ug/l   | 1        | 1040067 | 04/04/01 | 04/04/01 | DHS LUFT |       |
| Benzene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                       | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                    | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                            | ND     | 2.50               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                  |        | 88.3 %             | 60-140 |          | "       | "        | "        | "        |       |
| <b>MW-12-8 (S104004-08) Water Sampled: 03/28/01 17:40 Received: 03/30/01 17:05</b> |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                             | ND     | 50.0               | ug/l   | 1        | 1040068 | 04/04/01 | 04/04/01 | DHS LUFT |       |
| Benzene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                       | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                    | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                            | ND     | 2.50               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                  |        | 99.7 %             | 60-140 |          | "       | "        | "        | "        |       |
| <b>MW-13-7 (S104004-09) Water Sampled: 03/28/01 18:50 Received: 03/30/01 17:05</b> |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                             | ND     | 50.0               | ug/l   | 1        | 1040067 | 04/04/01 | 04/04/01 | DHS LUFT |       |
| Benzene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                       | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                    | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                            | ND     | 2.50               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                  |        | 90.6 %             | 60-140 |          | "       | "        | "        | "        |       |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

**Sequoia Analytical - Sacramento**

| Analyte                                                                            | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method   | Notes |
|------------------------------------------------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|----------|-------|
| <b>MW-14-8 (S104004-10) Water</b> Sampled: 03/28/01 17:25 Received: 03/30/01 17:05 |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                             | ND     | 50.0               | ug/l   | 1        | 1040067 | 04/04/01 | 04/04/01 | DHS LUFT |       |
| Benzene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                       | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                    | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                            | ND     | 2.50               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                  |        | 92.6 %             | 60-140 |          | "       | "        | "        | "        |       |
| <b>MW-15-5 (S104004-11) Water</b> Sampled: 03/28/01 18:44 Received: 03/30/01 17:05 |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                             | ND     | 50.0               | ug/l   | 1        | 1040067 | 04/04/01 | 04/04/01 | DHS LUFT |       |
| Benzene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                       | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                    | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                            | 11.1   | 2.50               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                  |        | 94.1 %             | 60-140 |          | "       | "        | "        | "        |       |
| <b>TB (S104004-12) Water</b> Sampled: 03/28/01 08:00 Received: 03/30/01 17:05      |        |                    |        |          |         |          |          |          |       |
| Purgeable Hydrocarbons                                                             | ND     | 50.0               | ug/l   | 1        | 1040067 | 04/04/01 | 04/04/01 | DHS LUFT |       |
| Benzene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Toluene                                                                            | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Ethylbenzene                                                                       | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Xylenes (total)                                                                    | ND     | 0.500              | "      | "        | "       | "        | "        | "        |       |
| Methyl tert-butyl ether                                                            | ND     | 2.50               | "      | "        | "       | "        | "        | "        |       |
| Surrogate: a,a,a-Trifluorotoluene                                                  |        | 104 %              | 60-140 |          | "       | "        | "        | "        |       |





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Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

**Total Metals by EPA 200 Series Methods  
Sequoia Analytical - Sacramento**

| Analyte                                                                   | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------------------------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| MW-18 (S104004-01) Water Sampled: 03/28/01 19:15 Received: 03/30/01 17:05 |        |                    |       |          |         |          |          |           |       |
| Cadmium                                                                   | ND     | 0.00500            | mg/l  | 1        | 1040135 | 04/11/01 | 04/13/01 | EPA 200.7 |       |
| Chromium                                                                  | ND     | 0.00500            | "     | "        | "       | "        | "        | "         |       |
| Nickel                                                                    | ND     | 0.0200             | "     | "        | "       | "        | "        | "         |       |
| Lead                                                                      | ND     | 0.0500             | "     | "        | "       | "        | "        | "         |       |
| Zinc                                                                      | ND     | 0.00500            | "     | "        | "       | "        | "        | "         |       |





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Reported:  
04/16/01 11:20

**Semivolatile Organic Compounds by EPA Method 8270C**

**Sequoia Analytical - Walnut Creek**

| Analyte (1-8)                                                             | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------------------------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| MW-18 (SI04004-01) Water Sampled: 03/28/01 19:15 Received: 03/30/01 17:05 |        |                    |       |          |         |          |          |           |       |
| Acenaphthene                                                              | ND     | 5.0                | ug/l  | 1        | 1D04012 | 04/04/01 | 04/04/01 | EPA 8270C |       |
| Acenaphthylene                                                            | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Aniline                                                                   | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Anthracene                                                                | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Benzoic acid                                                              | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| Benzo (a) anthracene                                                      | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Benzo (b) fluoranthene                                                    | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Benzo (k) fluoranthene                                                    | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Benzo (ghi) perylene                                                      | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Benzo[a]pyrene                                                            | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Benzyl alcohol                                                            | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Bis(2-chloroethoxy)methane                                                | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Bis(2-chloroethyl)ether                                                   | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Bis(2-chloroisopropyl)ether                                               | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Bis(2-ethylhexyl)phthalate                                                | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| 4-Bromophenyl phenyl ether                                                | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Butyl benzyl phthalate                                                    | ND     | 50                 | "     | "        | "       | "        | "        | "         |       |
| 4-Chloroaniline                                                           | ND     | 25                 | "     | "        | "       | "        | "        | "         |       |
| 2-Chloronaphthalene                                                       | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| 4-Chloro-3-methylphenol                                                   | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| 2-Chlorophenol                                                            | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| 4-Chlorophenyl phenyl ether                                               | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Chrysene                                                                  | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Dibenz (a,h) anthracene                                                   | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| Dibenzofuran                                                              | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Di-n-butyl phthalate                                                      | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| 1,2-Dichlorobenzene                                                       | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| 1,3-Dichlorobenzene                                                       | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| 1,4-Dichlorobenzene                                                       | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| 3,3'-Dichlorobenzidine                                                    | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| 2,4-Dichlorophenol                                                        | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Diethyl phthalate                                                         | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| 2,4-Dimethylphenol                                                        | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| Dimethyl phthalate                                                        | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |
| 4,6-Dinitro-2-methylphenol                                                | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| 2,4-Dinitrophenol                                                         | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| 2,4-Dinitrotoluene                                                        | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| 2,6-Dinitrotoluene                                                        | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| Di-n-octyl phthalate                                                      | ND     | 10                 | "     | "        | "       | "        | "        | "         |       |
| Fluoranthene                                                              | ND     | 5.0                | "     | "        | "       | "        | "        | "         |       |

Sequoia Analytical - Sacramento

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Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

## Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Walnut Creek

| Analyte                                                                   | Result | Reporting<br>Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------------------------------------------------------|--------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| MW-18 (S104004-01) Water Sampled: 03/28/01 19:15 Received: 03/30/01 17:05 |        |                    |        |          |         |          |          |           |       |
| Fluorene                                                                  | ND     | 5.0                | ug/l   | 1        | 1D04012 | 04/04/01 | 04/04/01 | EPA 8270C |       |
| Hexachlorobenzene                                                         | ND     | 10                 | "      | "        | "       | "        | "        | "         |       |
| Hexachlorobutadiene                                                       | ND     | 10                 | "      | "        | "       | "        | "        | "         |       |
| Hexachlorocyclopentadiene                                                 | ND     | 10                 | "      | "        | "       | "        | "        | "         |       |
| Hexachloroethane                                                          | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| Indeno (1,2,3-cd) pyrene                                                  | ND     | 10                 | "      | "        | "       | "        | "        | "         |       |
| Isophorone                                                                | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| 2-Methylnaphthalene                                                       | 140    | 5.0                | "      | "        | "       | "        | "        | "         |       |
| 2-Methylphenol                                                            | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| 4-Methylphenol                                                            | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| Naphthalene                                                               | 430    | 50                 | "      | 10       | "       | "        | 04/05/01 | "         |       |
| 2-Nitroaniline                                                            | ND     | 10                 | "      | 1        | "       | "        | 04/04/01 | "         |       |
| 3-Nitroaniline                                                            | ND     | 10                 | "      | "        | "       | "        | "        | "         |       |
| 4-Nitroaniline                                                            | ND     | 20                 | "      | "        | "       | "        | "        | "         |       |
| Nitrobenzene                                                              | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| 2-Nitrophenol                                                             | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| 4-Nitrophenol                                                             | ND     | 10                 | "      | "        | "       | "        | "        | "         |       |
| N-Nitrosodimethylamine                                                    | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| N-Nitrosodiphenylamine                                                    | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| N-Nitrosodi-n-propylamine                                                 | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| Pentachlorophenol                                                         | ND     | 10                 | "      | "        | "       | "        | "        | "         |       |
| Phenanthrene                                                              | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| Phenol                                                                    | 11     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| Pyrene                                                                    | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| 1,2,4-Trichlorobenzene                                                    | ND     | 5.0                | "      | "        | "       | "        | "        | "         |       |
| 2,4,5-Trichlorophenol                                                     | ND     | 10                 | "      | "        | "       | "        | "        | "         |       |
| 2,4,6-Trichlorophenol                                                     | ND     | 10                 | "      | "        | "       | "        | "        | "         |       |
| Surrogate: 2-Fluorophenol                                                 |        | 38.9 %             | 21-110 |          | "       | "        | "        | "         |       |
| Surrogate: Phenol-d6                                                      |        | 25.3 %             | 10-110 |          | "       | "        | "        | "         |       |
| Surrogate: Nitrobenzene-d5                                                |        | 52.5 %             | 35-114 |          | "       | "        | "        | "         |       |
| Surrogate: 2-Fluorobiphenyl                                               |        | 67.9 %             | 43-116 |          | "       | "        | "        | "         |       |
| Surrogate: 2,4,6-Tribromophenol                                           |        | 77.3 %             | 10-123 |          | "       | "        | "        | "         |       |
| Surrogate: p-Terphenyl-d14                                                |        | 88.2 %             | 33-141 |          | "       | "        | "        | "         |       |





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Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Sacramento

| Analyte                                | Result | Reporting<br>Limit | Units | Spike<br>Level                | Source<br>Result              | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|----------------------------------------|--------|--------------------|-------|-------------------------------|-------------------------------|------|----------------|------|--------------|-------|
| <b>Batch 1040067 - EPA 5030B (P/T)</b> |        |                    |       |                               |                               |      |                |      |              |       |
| <b>Blank (1040067-BLK1)</b>            |        |                    |       | Prepared & Analyzed: 04/04/01 |                               |      |                |      |              |       |
| Purgeable Hydrocarbons                 | ND     | 50.0               | ug/l  |                               |                               |      |                |      |              |       |
| Benzene                                | ND     | 0.500              | "     |                               |                               |      |                |      |              |       |
| Toluene                                | ND     | 0.500              | "     |                               |                               |      |                |      |              |       |
| Ethylbenzene                           | ND     | 0.500              | "     |                               |                               |      |                |      |              |       |
| Xylenes (total)                        | ND     | 0.500              | "     |                               |                               |      |                |      |              |       |
| Methyl tert-butyl ether                | ND     | 2.50               | "     |                               |                               |      |                |      |              |       |
| Surrogate: a,a,a-Trifluorotoluene      | 9.52   |                    | "     | 10.0                          |                               | 95.2 | 60-140         |      |              |       |
| <b>LCS (1040067-BS1)</b>               |        |                    |       | Prepared & Analyzed: 04/04/01 |                               |      |                |      |              |       |
| Benzene                                | 9.68   | 0.500              | ug/l  | 10.0                          |                               | 96.8 | 70-130         |      |              |       |
| Toluene                                | 9.83   | 0.500              | "     | 10.0                          |                               | 98.3 | 70-130         |      |              |       |
| Ethylbenzene                           | 9.77   | 0.500              | "     | 10.0                          |                               | 97.7 | 70-130         |      |              |       |
| Xylenes (total)                        | 29.2   | 0.500              | "     | 30.0                          |                               | 97.3 | 70-130         |      |              |       |
| Methyl tert-butyl ether                | 9.20   | 2.50               | "     | 10.0                          |                               | 92.0 | 70-130         |      |              |       |
| Surrogate: a,a,a-Trifluorotoluene      | 9.12   |                    | "     | 10.0                          |                               | 91.2 | 60-140         |      |              |       |
| <b>Matrix Spike (1040067-MS1)</b>      |        |                    |       | Source: S104004-05            | Prepared & Analyzed: 04/04/01 |      |                |      |              |       |
| Benzene                                | 9.89   | 0.500              | ug/l  | 10.0                          | ND                            | 98.9 | 60-140         |      |              |       |
| Toluene                                | 9.75   | 0.500              | "     | 10.0                          | ND                            | 97.5 | 60-140         |      |              |       |
| Ethylbenzene                           | 9.77   | 0.500              | "     | 10.0                          | ND                            | 97.7 | 60-140         |      |              |       |
| Xylenes (total)                        | 29.2   | 0.500              | "     | 30.0                          | ND                            | 97.3 | 60-140         |      |              |       |
| Methyl tert-butyl ether                | 10.5   | 2.50               | "     | 10.0                          | ND                            | 105  | 60-140         |      |              |       |
| Surrogate: a,a,a-Trifluorotoluene      | 10.3   |                    | "     | 10.0                          |                               | 103  | 60-140         |      |              |       |
| <b>Matrix Spike Dup (1040067-MSD1)</b> |        |                    |       | Source: S104004-05            | Prepared & Analyzed: 04/04/01 |      |                |      |              |       |
| Benzene                                | 10.1   | 0.500              | ug/l  | 10.0                          | ND                            | 101  | 60-140         | 2.10 | 25           |       |
| Toluene                                | 9.90   | 0.500              | "     | 10.0                          | ND                            | 99.0 | 60-140         | 1.53 | 25           |       |
| Ethylbenzene                           | 10.0   | 0.500              | "     | 10.0                          | ND                            | 100  | 60-140         | 2.33 | 25           |       |
| Xylenes (total)                        | 29.9   | 0.500              | "     | 30.0                          | ND                            | 99.7 | 60-140         | 2.37 | 25           |       |
| Methyl tert-butyl ether                | 9.96   | 2.50               | "     | 10.0                          | ND                            | 99.6 | 60-140         | 5.28 | 25           |       |
| Surrogate: a,a,a-Trifluorotoluene      | 10.9   |                    | "     | 10.0                          |                               | 109  | 60-140         |      |              |       |

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Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

## Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Sacramento

| Analyte                                | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result              | %REC<br>Limits                | RPD    | RPD<br>Limit | Notes |
|----------------------------------------|--------|--------------------|-------|----------------|-------------------------------|-------------------------------|--------|--------------|-------|
| <b>Batch 1040068 - EPA 5030B (P/T)</b> |        |                    |       |                |                               |                               |        |              |       |
| <b>Blank (1040068-BLK1)</b>            |        |                    |       |                | Prepared & Analyzed: 04/04/01 |                               |        |              |       |
| Purgeable Hydrocarbons                 | ND     | 50.0               | ug/l  |                |                               |                               |        |              |       |
| Benzene                                | ND     | 0.500              | "     |                |                               |                               |        |              |       |
| Toluene                                | ND     | 0.500              | "     |                |                               |                               |        |              |       |
| Ethylbenzene                           | ND     | 0.500              | "     |                |                               |                               |        |              |       |
| Xylenes (total)                        | ND     | 0.500              | "     |                |                               |                               |        |              |       |
| Methyl tert-butyl ether                | ND     | 2.50               | "     |                |                               |                               |        |              |       |
| Surrogate: a,a,a-Trifluorotoluene      | 9.62   |                    | "     | 10.0           |                               | 96.2                          | 60-140 |              |       |
| <b>LCS (1040068-BS1)</b>               |        |                    |       |                | Prepared & Analyzed: 04/04/01 |                               |        |              |       |
| Benzene                                | 9.56   | 0.500              | ug/l  | 10.0           |                               | 95.6                          | 70-130 |              |       |
| Toluene                                | 9.65   | 0.500              | "     | 10.0           |                               | 96.5                          | 70-130 |              |       |
| Ethylbenzene                           | 9.74   | 0.500              | "     | 10.0           |                               | 97.4                          | 70-130 |              |       |
| Xylenes (total)                        | 29.9   | 0.500              | "     | 30.0           |                               | 99.7                          | 70-130 |              |       |
| Methyl tert-butyl ether                | 8.22   | 2.50               | "     | 10.0           |                               | 82.2                          | 70-130 |              |       |
| Surrogate: a,a,a-Trifluorotoluene      | 9.39   |                    | "     | 10.0           |                               | 93.9                          | 60-140 |              |       |
| <b>Matrix Spike (1040068-MS1)</b>      |        |                    |       |                | Source: S104004-08            | Prepared & Analyzed: 04/04/01 |        |              |       |
| Benzene                                | 9.71   | 0.500              | ug/l  | 10.0           | ND                            | 97.1                          | 60-140 |              |       |
| Toluene                                | 9.81   | 0.500              | "     | 10.0           | ND                            | 98.1                          | 60-140 |              |       |
| Ethylbenzene                           | 9.93   | 0.500              | "     | 10.0           | ND                            | 99.3                          | 60-140 |              |       |
| Xylenes (total)                        | 30.4   | 0.500              | "     | 30.0           | ND                            | 101                           | 60-140 |              |       |
| Methyl tert-butyl ether                | 8.94   | 2.50               | "     | 10.0           | ND                            | 89.4                          | 60-140 |              |       |
| Surrogate: a,a,a-Trifluorotoluene      | 10.3   |                    | "     | 10.0           |                               | 103                           | 60-140 |              |       |
| <b>Matrix Spike Dup (1040068-MSD1)</b> |        |                    |       |                | Source: S104004-08            | Prepared & Analyzed: 04/04/01 |        |              |       |
| Benzene                                | 9.00   | 0.500              | ug/l  | 10.0           | ND                            | 90.0                          | 60-140 | 7.59         | 25    |
| Toluene                                | 8.98   | 0.500              | "     | 10.0           | ND                            | 89.8                          | 60-140 | 8.83         | 25    |
| Ethylbenzene                           | 9.03   | 0.500              | "     | 10.0           | ND                            | 90.3                          | 60-140 | 9.49         | 25    |
| Xylenes (total)                        | 27.8   | 0.500              | "     | 30.0           | ND                            | 92.7                          | 60-140 | 8.93         | 25    |
| Methyl tert-butyl ether                | 9.50   | 2.50               | "     | 10.0           | ND                            | 95.0                          | 60-140 | 6.07         | 25    |
| Surrogate: a,a,a-Trifluorotoluene      | 9.28   |                    | "     | 10.0           |                               | 92.8                          | 60-140 |              |       |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

## Total Metals by EPA 200 Series Methods - Quality Control Sequoia Analytical - Sacramento

| Analyte                                | Result | Reporting<br>Limit | Units | Spike<br>Level                        | Source<br>Result | %REC                                  | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|----------------------------------------|--------|--------------------|-------|---------------------------------------|------------------|---------------------------------------|----------------|-------|--------------|-------|
| <b>Batch 1040135 - EPA 3010A</b>       |        |                    |       |                                       |                  |                                       |                |       |              |       |
| <b>Blank (1040135-BLK1)</b>            |        |                    |       | Prepared: 04/11/01 Analyzed: 04/13/01 |                  |                                       |                |       |              |       |
| Cadmium                                | ND     | 0.00500            | mg/l  |                                       |                  |                                       |                |       |              |       |
| Chromium                               | ND     | 0.00500            | "     |                                       |                  |                                       |                |       |              |       |
| Lead                                   | ND     | 0.0500             | "     |                                       |                  |                                       |                |       |              |       |
| Nickel                                 | ND     | 0.0200             | "     |                                       |                  |                                       |                |       |              |       |
| Zinc                                   | ND     | 0.00500            | "     |                                       |                  |                                       |                |       |              |       |
| <b>LCS (1040135-BS1)</b>               |        |                    |       | Prepared: 04/11/01 Analyzed: 04/13/01 |                  |                                       |                |       |              |       |
| Cadmium                                | 0.477  | 0.00500            | mg/l  | 0.500                                 |                  | 95.4                                  | 80-120         |       |              |       |
| Chromium                               | 0.483  | 0.00500            | "     | 0.500                                 |                  | 96.6                                  | 80-120         |       |              |       |
| Lead                                   | 0.474  | 0.0500             | "     | 0.500                                 |                  | 94.8                                  | 80-120         |       |              |       |
| Nickel                                 | 0.486  | 0.0200             | "     | 0.500                                 |                  | 97.2                                  | 80-120         |       |              |       |
| Zinc                                   | 0.476  | 0.00500            | "     | 0.500                                 |                  | 95.2                                  | 80-120         |       |              |       |
| <b>Matrix Spike (1040135-MS1)</b>      |        |                    |       | Source: S103552-03                    |                  | Prepared: 04/11/01 Analyzed: 04/13/01 |                |       |              |       |
| Cadmium                                | 0.476  | 0.00500            | mg/l  | 0.500                                 | ND               | 95.2                                  | 80-120         |       |              |       |
| Chromium                               | 0.512  | 0.00500            | "     | 0.500                                 | 0.0388           | 94.6                                  | 80-120         |       |              |       |
| Lead                                   | 0.459  | 0.0500             | "     | 0.500                                 | ND               | 91.8                                  | 80-120         |       |              |       |
| Nickel                                 | 0.467  | 0.0200             | "     | 0.500                                 | ND               | 93.4                                  | 80-120         |       |              |       |
| Zinc                                   | 0.467  | 0.00500            | "     | 0.500                                 | ND               | 93.4                                  | 80-120         |       |              |       |
| <b>Matrix Spike Dup (1040135-MSD1)</b> |        |                    |       | Source: S103552-03                    |                  | Prepared: 04/11/01 Analyzed: 04/13/01 |                |       |              |       |
| Cadmium                                | 0.475  | 0.00500            | mg/l  | 0.500                                 | ND               | 95.0                                  | 80-120         | 0.210 | 20           |       |
| Chromium                               | 0.512  | 0.00500            | "     | 0.500                                 | 0.0388           | 94.6                                  | 80-120         | 0     | 20           |       |
| Lead                                   | 0.465  | 0.0500             | "     | 0.500                                 | ND               | 93.0                                  | 80-120         | 1.30  | 20           |       |
| Nickel                                 | 0.467  | 0.0200             | "     | 0.500                                 | ND               | 93.4                                  | 80-120         | 0     | 20           |       |
| Zinc                                   | 0.467  | 0.00500            | "     | 0.500                                 | ND               | 93.4                                  | 80-120         | 0     | 20           |       |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

## Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Walnut Creek

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|--------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|--------|-----|--------------|-------|

### Batch 1D04012 - EPA 3510B Sep Funnel

#### Blank (1D04012-BLK1)

Prepared & Analyzed: 04/04/01

|                             |    |     |      |
|-----------------------------|----|-----|------|
| Acenaphthene                | ND | 5.0 | ug/l |
| Acenaphthylene              | ND | 5.0 | "    |
| Aniline                     | ND | 5.0 | "    |
| Anthracene                  | ND | 5.0 | "    |
| Benzoic acid                | ND | 10  | "    |
| Benzo (a) anthracene        | ND | 5.0 | "    |
| Benzo (b) fluoranthene      | ND | 5.0 | "    |
| Benzo (k) fluoranthene      | ND | 5.0 | "    |
| Benzo (ghi) perylene        | ND | 5.0 | "    |
| Benzo[a]pyrene              | ND | 5.0 | "    |
| Benzyl alcohol              | ND | 5.0 | "    |
| Bis(2-chloroethoxy)methane  | ND | 5.0 | "    |
| Bis(2-chloroethyl)ether     | ND | 5.0 | "    |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | "    |
| Bis(2-ethylhexyl)phthalate  | ND | 10  | "    |
| 4-Bromophenyl phenyl ether  | ND | 5.0 | "    |
| Butyl benzyl phthalate      | ND | 50  | "    |
| 4-Chloroaniline             | ND | 25  | "    |
| 2-Chloronaphthalene         | ND | 5.0 | "    |
| 4-Chloro-3-methylphenol     | ND | 5.0 | "    |
| 2-Chlorophenol              | ND | 5.0 | "    |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | "    |
| Chrysene                    | ND | 5.0 | "    |
| Dibenz (a,h) anthracene     | ND | 10  | "    |
| Dibenzofuran                | ND | 5.0 | "    |
| Di-n-butyl phthalate        | ND | 10  | "    |
| 1,2-Dichlorobenzene         | ND | 5.0 | "    |
| 1,3-Dichlorobenzene         | ND | 5.0 | "    |
| 1,4-Dichlorobenzene         | ND | 10  | "    |
| 3,3'-Dichlorobenzidine      | ND | 10  | "    |
| 2,4-Dichlorophenol          | ND | 5.0 | "    |
| Diethyl phthalate           | ND | 5.0 | "    |
| 2,4-Dimethylphenol          | ND | 5.0 | "    |
| Dimethyl phthalate          | ND | 5.0 | "    |
| 4,6-Dinitro-2-methylphenol  | ND | 10  | "    |
| 2,4-Dinitrophenol           | ND | 10  | "    |

Sequoia Analytical - Sacramento

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Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova, CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

## Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Walnut Creek

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

### Batch 1D04012 - EPA 3510B Sep Funnel

#### Blank (1D04012-BLK1)

Prepared & Analyzed: 04/04/01

|                             |      |     |      |     |  |      |        |  |  |  |
|-----------------------------|------|-----|------|-----|--|------|--------|--|--|--|
| 2,4-Dinitrotoluene          | ND   | 10  | ug/l |     |  |      |        |  |  |  |
| 2,6-Dinitrotoluene          | ND   | 10  | "    |     |  |      |        |  |  |  |
| Di-n-octyl phthalate        | ND   | 10  | "    |     |  |      |        |  |  |  |
| Fluoranthene                | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| Fluorene                    | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| Hexachlorobenzene           | ND   | 10  | "    |     |  |      |        |  |  |  |
| Hexachlorobutadiene         | ND   | 10  | "    |     |  |      |        |  |  |  |
| Hexachlorocyclopentadiene   | ND   | 10  | "    |     |  |      |        |  |  |  |
| Hexachloroethane            | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| Indeno (1,2,3-cd) pyrene    | ND   | 10  | "    |     |  |      |        |  |  |  |
| Isophorone                  | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| 2-Methylnaphthalene         | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| 2-Methylphenol              | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| 4-Methylphenol              | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| Naphthalene                 | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| 2-Nitroaniline              | ND   | 10  | "    |     |  |      |        |  |  |  |
| 3-Nitroaniline              | ND   | 10  | "    |     |  |      |        |  |  |  |
| 4-Nitroaniline              | ND   | 20  | "    |     |  |      |        |  |  |  |
| Nitrobenzene                | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| 2-Nitrophenol               | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| 4-Nitrophenol               | ND   | 10  | "    |     |  |      |        |  |  |  |
| N-Nitrosodimethylamine      | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| N-Nitrosodiphenylamine      | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| N-Nitrosodi-n-propylamine   | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| Pentachlorophenol           | ND   | 10  | "    |     |  |      |        |  |  |  |
| Phenanthrene                | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| Phenol                      | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| Pyrene                      | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| 1,2,4-Trichlorobenzene      | ND   | 5.0 | "    |     |  |      |        |  |  |  |
| 2,4,5-Trichlorophenol       | ND   | 10  | "    |     |  |      |        |  |  |  |
| 2,4,6-Trichlorophenol       | ND   | 10  | "    |     |  |      |        |  |  |  |
| Surrogate: 2-Fluorophenol   | 63.3 |     | "    | 150 |  | 42.2 | 21-110 |  |  |  |
| Surrogate: Phenol-d6        | 38.4 |     | "    | 150 |  | 25.6 | 10-110 |  |  |  |
| Surrogate: Nitrobenzene-d5  | 75.7 |     | "    | 100 |  | 75.7 | 35-114 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 75.3 |     | "    | 100 |  | 75.3 | 43-116 |  |  |  |

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Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

## Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Walnut Creek

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

### Batch 1D04012 - EPA 3510B Sep Funnel

#### Blank (1D04012-BLK1)

Prepared & Analyzed: 04/04/01

|                                 |      |  |      |     |  |      |        |  |  |  |
|---------------------------------|------|--|------|-----|--|------|--------|--|--|--|
| Surrogate: 2,4,6-Tribromophenol | 87.2 |  | ug/l | 150 |  | 58.1 | 10-123 |  |  |  |
| Surrogate: p-Terphenyl-d14      | 79.8 |  | "    | 100 |  | 79.8 | 33-141 |  |  |  |

#### LCS (1D04012-BS1)

Prepared & Analyzed: 04/04/01

|                                 |      |     |      |     |  |      |        |  |  |  |
|---------------------------------|------|-----|------|-----|--|------|--------|--|--|--|
| Acenaphthene                    | 68.9 | 5.0 | ug/l | 100 |  | 68.9 | 46-118 |  |  |  |
| 4-Chloro-3-methylphenol         | 86.3 | 5.0 | "    | 150 |  | 57.5 | 23-97  |  |  |  |
| 2-Chlorophenol                  | 91.2 | 5.0 | "    | 150 |  | 60.8 | 27-123 |  |  |  |
| 1,4-Dichlorobenzene             | 56.8 | 10  | "    | 100 |  | 56.8 | 36-97  |  |  |  |
| 2,4-Dinitrotoluene              | 64.3 | 10  | "    | 100 |  | 64.3 | 24-96  |  |  |  |
| 4-Nitrophenol                   | 33.7 | 10  | "    | 150 |  | 22.5 | 10-80  |  |  |  |
| N-Nitrosodi-n-propylamine       | 78.3 | 5.0 | "    | 100 |  | 78.3 | 41-116 |  |  |  |
| Pentachlorophenol               | 109  | 10  | "    | 150 |  | 72.7 | 9-103  |  |  |  |
| Phenol                          | 41.9 | 5.0 | "    | 150 |  | 27.9 | 12-110 |  |  |  |
| Pyrene                          | 89.5 | 5.0 | "    | 100 |  | 89.5 | 26-127 |  |  |  |
| 1,2,4-Trichlorobenzene          | 62.4 | 5.0 | "    | 100 |  | 62.4 | 39-98  |  |  |  |
| Surrogate: 2-Fluorophenol       | 69.3 |     | "    | 150 |  | 46.2 | 21-110 |  |  |  |
| Surrogate: Phenol-d6            | 41.7 |     | "    | 150 |  | 27.8 | 10-110 |  |  |  |
| Surrogate: Nitrobenzene-d5      | 79.7 |     | "    | 100 |  | 79.7 | 35-114 |  |  |  |
| Surrogate: 2-Fluorobiphenyl     | 76.1 |     | "    | 100 |  | 76.1 | 43-116 |  |  |  |
| Surrogate: 2,4,6-Tribromophenol | 92.6 |     | "    | 150 |  | 61.7 | 10-123 |  |  |  |
| Surrogate: p-Terphenyl-d14      | 85.4 |     | "    | 100 |  | 85.4 | 33-141 |  |  |  |

#### LCS Dup (1D04012-BSD1)

Prepared & Analyzed: 04/04/01

|                           |      |     |      |     |  |      |        |      |    |      |
|---------------------------|------|-----|------|-----|--|------|--------|------|----|------|
| Acenaphthene              | 55.8 | 5.0 | ug/l | 100 |  | 55.8 | 46-118 | 21.0 | 30 |      |
| 4-Chloro-3-methylphenol   | 82.7 | 5.0 | "    | 150 |  | 55.1 | 23-97  | 4.26 | 30 |      |
| 2-Chlorophenol            | 72.9 | 5.0 | "    | 150 |  | 48.6 | 27-123 | 22.3 | 30 |      |
| 1,4-Dichlorobenzene       | 40.1 | 10  | "    | 100 |  | 40.1 | 36-97  | 34.5 | 30 | Q-07 |
| 2,4-Dinitrotoluene        | 61.7 | 10  | "    | 100 |  | 61.7 | 24-96  | 4.13 | 30 |      |
| 4-Nitrophenol             | 35.3 | 10  | "    | 150 |  | 23.5 | 10-80  | 4.64 | 30 |      |
| N-Nitrosodi-n-propylamine | 62.5 | 5.0 | "    | 100 |  | 62.5 | 41-116 | 22.4 | 30 |      |
| Pentachlorophenol         | 106  | 10  | "    | 150 |  | 70.7 | 9-103  | 2.79 | 30 |      |
| Phenol                    | 38.9 | 5.0 | "    | 150 |  | 25.9 | 12-110 | 7.43 | 30 |      |
| Pyrene                    | 84.2 | 5.0 | "    | 100 |  | 84.2 | 26-127 | 6.10 | 30 |      |
| 1,2,4-Trichlorobenzene    | 42.5 | 5.0 | "    | 100 |  | 42.5 | 39-98  | 37.9 | 30 | Q-07 |
| Surrogate: 2-Fluorophenol | 58.0 |     | "    | 150 |  | 38.7 | 21-110 |      |    |      |
| Surrogate: Phenol-d6      | 37.8 |     | "    | 150 |  | 25.2 | 10-110 |      |    |      |

Sequoia Analytical - Sacramento

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Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Sequoia Analytical - Walnut Creek**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch 1D04012 - EPA 3510B Sep Funnel**

**LCS Dup (1D04012-BSD1)**

Prepared & Analyzed: 04/04/01

|                                 |      |  |      |     |  |      |        |  |  |  |
|---------------------------------|------|--|------|-----|--|------|--------|--|--|--|
| Surrogate: Nitrobenzene-d5      | 56.4 |  | ug/l | 100 |  | 56.4 | 35-114 |  |  |  |
| Surrogate: 2-Fluorobiphenyl     | 56.1 |  | "    | 100 |  | 56.1 | 43-116 |  |  |  |
| Surrogate: 2,4,6-Tribromophenol | 85.2 |  | "    | 150 |  | 56.8 | 10-123 |  |  |  |
| Surrogate: p-Terphenyl-d14      | 80.8 |  | "    | 100 |  | 80.8 | 33-141 |  |  |  |





Delta Environmental Consultants(Rancho Cordova  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA  
Project Number: N/A  
Project Manager: Steven Meeks

Reported:  
04/16/01 11:20

**Notes and Definitions**

P-02      Chromatogram Pattern: Weathered Gasoline C6-C12

Q-07      The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference



## Division of Atlantic Richfield Company

Task Order No. 2599000

### Chain of Custody

[illegible]

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APC-3292 (2-91)



3164 Gold Camp Drive, Suite 200  
Rancho Cordova, California 95670  
Direct: (916) 638-2085  
Fax: (916) 638-8385

Site Contact & Phone \_\_\_\_\_

Arco Site Address: **712 Lewelling Blvd.**

**San Leandro, CA**

Arco Project Manager: **Paul Supple**

Site Sampled By: **Doulos**

Arco Site Number: **601**

Delta Project No.: **D000-303**

Delta Project PM: **Steven W. Meeks**

Date Sampled: **12/17/00**

| Water Level Data |       |                       |                               |                            |                                     | Purge Volume Calculations                                                    |                        |                      |                                |                               | Sampling Analytes                   |                                     |                                     |                                     |                         | Sample Record              |             |             |
|------------------|-------|-----------------------|-------------------------------|----------------------------|-------------------------------------|------------------------------------------------------------------------------|------------------------|----------------------|--------------------------------|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------|----------------------------|-------------|-------------|
| Well ID          | Time  | Depth to Water (feet) | Top of Screen Interval (feet) | Total Depth of Well (feet) | Check if Purge Not Required         | Casing Water Column (A)                                                      | Well Diameter (inches) | Multiplier Value (B) | Three Casing Volumes (gallons) | Actual Water Purged (gallons) | BTEX (8020) VOA                     | TPH-g (8015M) VOA                   | MTBE (8020) VOA                     | SVOCs (8270) VOA                    | Dissolved Oxygen (mg/L) | Sample Frequency (A, S, Q) | Sample I.D. | Sample Time |
| MW-1             | 16:52 | 8.13                  | 7.0                           | 10.8                       | <input checked="" type="checkbox"/> | 2.65                                                                         | 4 inch                 | 2.0                  | 5.3                            | NP                            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.26                    | Q/2,5,8,11                 | MW-1        | 19:15       |
| MW-2             | 16:40 | 6.84                  | 8.0                           | 12.1                       | <input type="checkbox"/>            | 5.30                                                                         | 4 inch                 | 2.0                  | 10.6                           | 10.6                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | NM                      | A/2                        | MW-2        | 19:05       |
| MW-3             | 16:56 | 6.10                  | 8.0                           | 11.8                       | <input type="checkbox"/>            | 5.71                                                                         | 4 inch                 | 2.0                  | 11.4                           | 11.4                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | NM                      | Q/2,5,8,11                 | MW-3        | 19:10       |
| MW-4             | 16:36 | 7.49                  | NM                            | 8.3                        | <input type="checkbox"/>            | 0.77                                                                         | 4 inch                 | 2.0                  | 1.5                            | N/A                           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | NM                      | Q/2,5,8,11                 |             | (DRY)       |
| MW-5             | 16:48 | 6.48                  | NM                            | 8.0                        | <input type="checkbox"/>            | 1.49                                                                         | 4 inch                 | 2.0                  | 3.0                            | 2.5                           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | NM                      | Q/2,5,8,11                 | MW-5        | 19:00       |
| MW-6             | 16:44 | 7.57                  | NM                            | 8.4                        | <input type="checkbox"/>            | 0.85                                                                         | 4 inch                 | 2.0                  | 1.7                            | N/A                           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | NM                      | Q/2,5,8,11                 |             | (DRY)       |
| MW-7             | 16:28 | 8.35                  | NM                            | 9.4                        | <input checked="" type="checkbox"/> | 1.02                                                                         | 4 inch                 | 2.0                  | 2.0                            | NP                            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 3.32                    | Q/2,5,8,11                 | MW-7        | 17:35       |
| MW-8             | 16:32 | 6.88                  | NM                            | 10.1                       | <input type="checkbox"/>            | 3.22                                                                         | 4 inch                 | 2.0                  | 6.4                            | 5                             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1.59                    | Q/2,5,8,11                 | MW-8        | 18:55       |
| MW-9             | 16:02 | 7.58                  | NM                            | 15.9                       | <input type="checkbox"/>            | 8.36                                                                         | 2 inch                 | 0.5                  | 4.2                            | 4.2                           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | NM                      | S/2,8                      | MW-9        | 18:36       |
| MW-10            | 16:05 | 7.47                  | NM                            | 11.9                       | <input type="checkbox"/>            | 4.45                                                                         | 2 inch                 | 0.5                  | 2.2                            | 2.2                           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1.22                    | Q/2,5,8,11                 | MW-10       | 18:40       |
| MW-11            | 16:08 | 7.88                  | 7.0                           | 11.6                       | <input checked="" type="checkbox"/> | 3.70                                                                         | 4 inch                 | 2.0                  | 7.4                            | NP                            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | NM                      | A/2                        | MW-11       | 17:30       |
| MW-12            | 16:12 | 8.31                  | 7.5                           | 11.1                       | <input checked="" type="checkbox"/> | 2.83                                                                         | 4 inch                 | 2.0                  | 5.7                            | NP                            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | NM                      | A/2                        | MW-12       | 17:40       |
| MW-13            | 16:16 | 7.69                  | NM                            | 12.7                       | <input type="checkbox"/>            | 4.99                                                                         | 2 inch                 | 0.5                  | 2.5                            | 1.9                           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | NM                      | A/2                        | MW-13       | 18:50       |
| MW-14            | 16:20 | 8.91                  | 7.5                           | 12.6                       | <input checked="" type="checkbox"/> | 3.70                                                                         | 2 inch                 | 0.5                  | 1.9                            | NP                            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | NM                      | Q/2,5,8,11                 | MW-14       | 17:25       |
| MW-15            | 16:24 | 5.78                  | NM                            | 9.8                        | <input type="checkbox"/>            | 4.03                                                                         | 2 inch                 | 0.5                  | 2.0                            | 2                             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 0.66                    | S/2,8                      | MW-15       | 18:44       |
|                  |       |                       |                               |                            | <input type="checkbox"/>            |                                                                              |                        |                      |                                |                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |                         |                            |             |             |
|                  |       |                       |                               |                            | <input type="checkbox"/>            | Note: Use Separate COC for Samples collected from wells MW-9 and MW-10       |                        |                      |                                |                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |                         |                            |             |             |
|                  |       |                       |                               |                            | <input type="checkbox"/>            |                                                                              |                        |                      |                                |                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |                         |                            |             |             |
|                  |       |                       |                               |                            | <input type="checkbox"/>            | Note: Sample well MW-1 for Metals Annually in February (Cd, Cr, Pb, Ni & Zn) |                        |                      |                                |                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |                         |                            |             |             |
|                  |       |                       |                               |                            | <input type="checkbox"/>            |                                                                              |                        |                      |                                |                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |                         |                            |             |             |
|                  |       |                       |                               |                            | <input type="checkbox"/>            |                                                                              |                        |                      |                                |                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |                         |                            |             |             |

(A)-Casing Water Column: Depth to Bottom - Depth to Water (B)-Multiplier Values: (2" Well: 0.5) (4" Well: 2.0) (6" Well: 4.4)

Sampling Sequence: Annual: MW-11, MW-12, MW-13, MW-2; Semi-Annual: MW-9, MW-15 Quarterly: MW-10, MW-14, MW-7, MW-8, MW-4, MW-6, MW-5, MW-1, MW-3

Sampling Notes: List depth of Sample on C.O.C. [i.e. MW-1(30)]. Make Sure to Note on C.O.C. "Provide Lowest Reporting Limit Available."

Original Copies of Field Sampling Sheets are Located in Project File

If the water level is below the top of the screen, take a grab sample and check box for NO PURGE (NP). If the water level is above the screen, purge as normal.

\*Sample MW-1 for Metals Annually in February.



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Site Sampled By: **Doulos**

Arco Site Number: **601**

Delta Project No.: **D000-303**

Delta Project PM: **Steven W. Meeks**

Date Sampled: **03/28/01**

Site Contact & Phone Number: \_\_\_\_\_

| Well ID     | Time                        | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time                     | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time  | Temp °C | pH Units | Sp. Cond. | Gallons |
|-------------|-----------------------------|---------|----------|-----------|---------|--------------|--------------------------|---------|----------|-----------|---------|--------------|-------|---------|----------|-----------|---------|
| <b>MW-1</b> | <b>No Purge Required</b>    |         |          |           |         | <b>MW-8</b>  | 17:34                    | 65.2    | 7.33     | 1,254     | 2       | <b>MW-15</b> | 17:17 | 68.4    | 7.02     | 1,264     | 0.5     |
|             |                             |         |          |           |         |              | 17:36                    | 65.4    | 7.28     | 1,230     | 4       |              | 17:18 | 68.1    | 7.54     | 1,250     | 1.0     |
|             |                             |         |          |           |         |              | 17:38                    | 65.3    | 7.27     | 1,222     | 5       |              | 17:19 | 68.0    | 7.53     | 1,248     | 2.0     |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
| Well ID     | Time                        | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time                     | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time  | Temp °C | pH Units | Sp. Cond. | Gallons |
| <b>MW-2</b> | 17:55                       | 69.2    | 7.05     | 1,436     | 3       | <b>MW-9</b>  | 17:02                    | 68.2    | 7.32     | 1,142     | 1       |              |       |         |          |           |         |
|             | 17:57                       | 68.4    | 7.08     | 1,381     | 6       |              | 17:03                    | 67.2    | 7.36     | 1,122     | 2       |              |       |         |          |           |         |
|             | 17:59                       | 68.3    | 6.98     | 1,372     | 9       |              | 17:05                    | 68.3    | 7.35     | 1,124     | 4       |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
| Well ID     | Time                        | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time                     | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time  | Temp °C | pH Units | Sp. Cond. | Gallons |
| <b>MW-3</b> | 18:04                       | 68.4    | 7.31     | 1,481     | 3       | <b>MW-10</b> | 17:10                    | 67.1    | 7.91     | 1,214     | 0.5     |              |       |         |          |           |         |
|             | 18:06                       | 67.2    | 7.00     | 1,216     | 6       |              | 17:11                    | 65.2    | 7.80     | 1,206     | 1.0     |              |       |         |          |           |         |
|             | 18:09                       | 67.3    | 6.98     | 1,210     | 10      |              | 17:12                    | 66.3    | 7.79     | 1,205     | 2       |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
| Well ID     | Time                        | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time                     | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time  | Temp °C | pH Units | Sp. Cond. | Gallons |
| <b>MW-4</b> | <b>Not Sampled-Well Dry</b> |         |          |           |         | <b>MW-11</b> | <b>No Purge Required</b> |         |          |           |         |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
| Well ID     | Time                        | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time                     | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time  | Temp °C | pH Units | Sp. Cond. | Gallons |
| <b>MW-5</b> | 17:45                       | 68.2    | 7.04     | 1,357     | 1       | <b>MW-12</b> | <b>No Purge Required</b> |         |          |           |         |              |       |         |          |           |         |
|             | 17:47                       | 67.3    | 7.01     | 1,202     | 2       |              |                          |         |          |           |         |              |       |         |          |           |         |
|             | 17:49                       | 67.2    | 7.06     | 1,299     | 3       |              |                          |         |          |           |         |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
| Well ID     | Time                        | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time                     | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time  | Temp °C | pH Units | Sp. Cond. | Gallons |
| <b>MW-6</b> | <b>Not Sampled-Well Dry</b> |         |          |           |         | <b>MW-13</b> | 17:29                    | 68.4    | 7.44     | 1,362     | 0.5     |              |       |         |          |           |         |
|             |                             |         |          |           |         |              | 17:30                    | 68.0    | 7.31     | 1,284     | 1.0     |              |       |         |          |           |         |
|             |                             |         |          |           |         |              | 17:33                    | 68.1    | 7.30     | 1,253     | 1.9     |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
| Well ID     | Time                        | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time                     | Temp °C | pH Units | Sp. Cond. | Gallons | Well ID      | Time  | Temp °C | pH Units | Sp. Cond. | Gallons |
| <b>MW-7</b> | <b>No Purge Required</b>    |         |          |           |         | <b>MW-14</b> | <b>No Purge Required</b> |         |          |           |         |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |
|             |                             |         |          |           |         |              |                          |         |          |           |         |              |       |         |          |           |         |

Notes: NP = NO PURGE

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