

December 2, 2005

Mr. Don Hwang
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Alameda County
DEC 07 2005
Environmental Health

**Re: Fourth Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #2111
1156 Davis Street
San Leandro, California
ACEH Case #744**

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #2111, located at 1156 Davis Street, San Leandro, California.

If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION



Scott Robinson, P.G.
Project Manager



Enclosure: Fourth Quarter 2005 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS

R E P O R T

**FOURTH QUARTER 2005
GROUNDWATER MONITORING
REPORT**

**ARCO SERVICE STATION #2111
1156 DAVIS STREET
SAN LEANDRO, CALIFORNIA**

Prepared for
RM

Alameda County
DEC 07 2005
Environmental Health

December 2, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: December 2, 2005
Quarter: 4Q 05

FOURTH QUARTER 2005 GROUNDWATER MONITORING REPORT

Facility No.: 2111 Address: 1156 Davis Street, San Leandro, California
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Primary Agency: Alameda County Environmental Health (ACEH)
ACEH Case #: 744

WORK PERFORMED THIS QUARTER (Fourth – 2005):

1. Prepared and submitted the Third Quarter 2005 Groundwater Monitoring Report.
2. Performed the fourth quarter 2005 groundwater monitoring event on October 21, 2005.
3. Checked MW-2 monthly for free product.
4. Prepared and submitted this Fourth Quarter 2005 Groundwater Monitoring Report.
5. Construction of Dual-Phase Extraction (DPE) Remediation System.

WORK PROPOSED FOR NEXT QUARTER (First – 2006):

1. Perform the first quarter 2006 groundwater monitoring event.
2. Check MW-2 monthly for free product.
3. Prepare and submit the First Quarter 2006 Groundwater Monitoring Report.
4. Start-up of DPE system.

SITE SUMMARY:

Current Phase of Project: Groundwater monitoring/sampling/interim remediation
Frequency of Groundwater Sampling: Quarterly: Wells MW-1 through MW-5 and MW-8
Annually (3Q): MW-6
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: Sheen (MW-2)
FP recovered this quarter: 0 gallons
Cumulative FP Recovered from
6/28/99 to 10/21/05: 1.44 gallons
Current Remediation Techniques: Bailing free product as needed from MW-2
Approximate Depth to Groundwater: 14.60 (MW-6) to 17.71 (MW-1) feet
Groundwater Gradient (direction): West
Groundwater Gradient (magnitude): 0.008 feet per foot

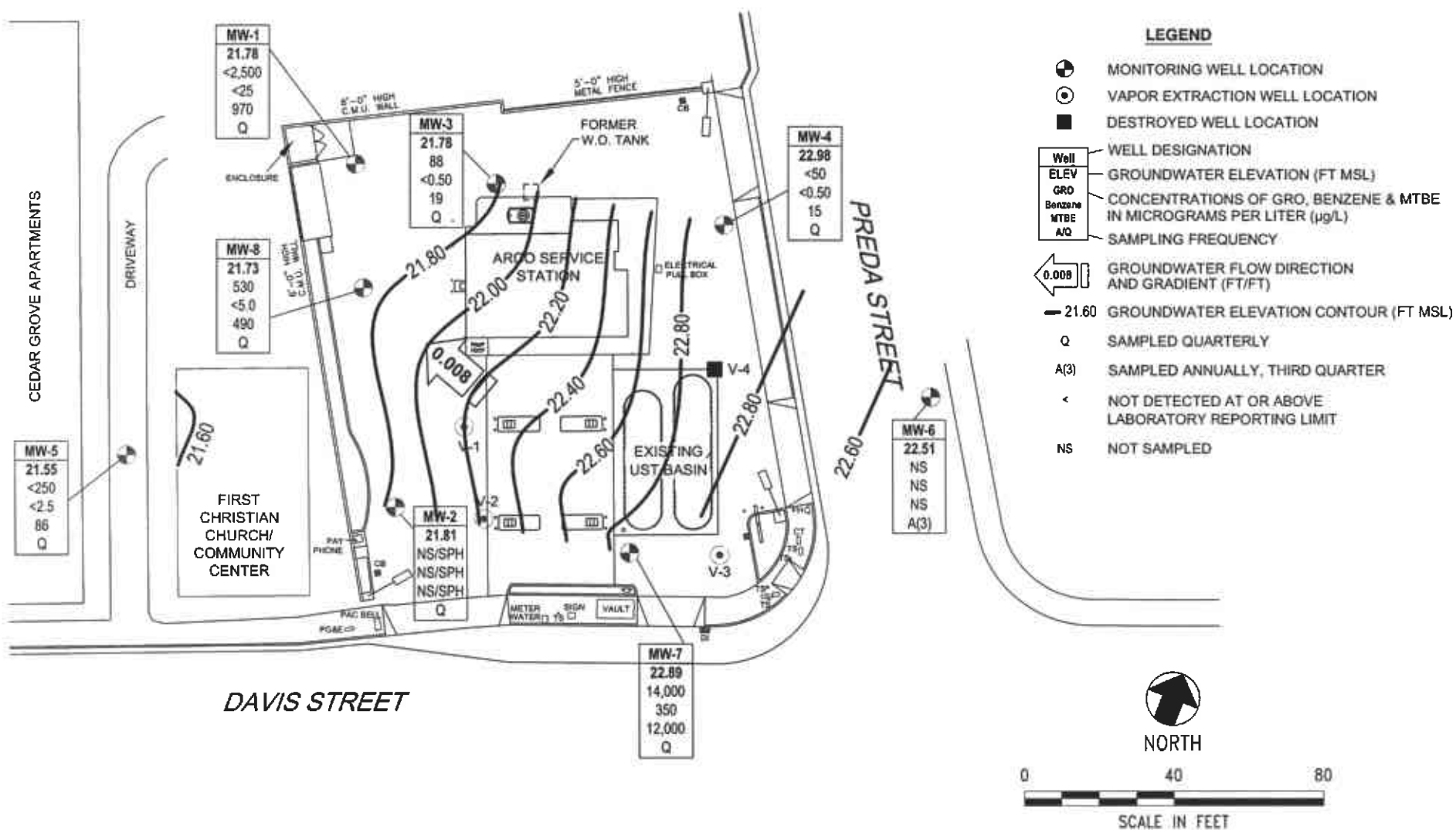
DISCUSSION:

Gasoline range organics were detected at or above the laboratory reporting limits in three of the six wells sampled this quarter at concentrations ranging from 88 micrograms per liter $\mu\text{g/L}$ (MW-3) to 14,000 $\mu\text{g/L}$ (MW-7). Benzene and xylenes were detected at or above their respective laboratory reporting limits in one well (MW-7) at concentrations of 350 $\mu\text{g/L}$ and 110 $\mu\text{g/L}$, respectively. Methyl tert-Butyl ether was detected at or above the laboratory reporting limit in all six wells at concentrations ranging from 15 $\mu\text{g/L}$ (MW-4) to 12,000 $\mu\text{g/L}$ (MW-7).

Tert-Amyl methyl ether was detected at or above the laboratory reporting limit in two wells at concentrations of 2.0 µg/L (MW-3) and 4.6 µg/L (MW-4). Tert-Butyl alcohol was detected at or above the laboratory reporting limit in two wells at concentrations of 1,400 µg/L (MW-5) and 24,000 µg/L (MW-7). No other fuel components were detected at or above the laboratory reporting limits in wells sampled this quarter. Well MW-2 was not sampled due to the presence of free product.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – October 21, 2005
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 – Groundwater Gradient Data
- Table 4 – Approximate Cumulative Floating Product Recovered (1999 – Present)
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Historical Groundwater Data
- Attachment D – Error Check Reports and EDF/GeoWell Submittal Confirmations



NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

| | | | |
|--|--|---|--------------------|
| | Project No. 38487175 | GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Fourth Quarter 2005 (October 21, 2005) | FIGURE 1 |
| | ARCO Service Station #2111 1156 Davis Street San Leandro, California | | |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

| Well No. | Date | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH |
|----------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|---------------|-----------|-----|
| MW-1 | 6/26/2000 | -- | | 39.6 | 12.50 | 26.00 | 16.46 | 23.14 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/20/2000 | -- | | 39.6 | 12.50 | 26.00 | 16.89 | 22.71 | 360 | 110 | <0.5 | <0.5 | 2.7 | 2,100 | -- | -- |
| | 9/19/2000 | -- | | 39.6 | 12.50 | 26.00 | 17.62 | 21.98 | 290 | 76 | <0.5 | <0.5 | 2.3 | 1,500 | -- | -- |
| | 12/21/2000 | -- | | 39.6 | 12.50 | 26.00 | 17.39 | 22.21 | 257 | 64 | 2.89 | 1.31 | 4.57 | 1,080/1,060 | -- | -- |
| | 3/13/2001 | -- | | 39.6 | 12.50 | 26.00 | 15.70 | 23.90 | <500 | 52.5 | <5.0 | <5.0 | <5.0 | 1,430/1,370 | -- | -- |
| | 9/18/2001 | -- | | 39.6 | 12.50 | 26.00 | 18.24 | 21.36 | <500 | 64 | 7.3 | <5.0 | 52 | 810/1,100 | -- | -- |
| | 12/28/2001 | -- | | 39.6 | 12.50 | 26.00 | 15.95 | 23.65 | <500 | <5.0 | <5.0 | 5 | 22 | 1,200/1,100 | -- | -- |
| | 3/14/2002 | -- | | 39.6 | 12.50 | 26.00 | 16.01 | 23.59 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 34/40 | -- | -- |
| | 4/23/2002 | -- | | 39.6 | 12.50 | 26.00 | 15.43 | 24.17 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 30 | -- | -- |
| | 7/17/2002 | NP | | 39.6 | 12.50 | 26.00 | 17.50 | 22.10 | <50 | 1.2 | <0.50 | <0.50 | <0.50 | 29 | 6.9 | 6.9 |
| | 10/9/2002 | -- | c | 39.6 | 12.50 | 26.00 | 18.27 | 21.33 | 240 | 4.9 | <1.0 | 4.1 | 7.0 | 290 | 6.5 | 6.5 |
| | 1/13/2003 | -- | c | 39.6 | 12.50 | 26.00 | 15.37 | 24.23 | 760 | 34 | 11 | 17 | 56 | 300 | 6.8 | 6.8 |
| | 04/07/03 | -- | | 39.6 | 12.50 | 26.00 | 16.61 | 22.99 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 22 | 6.8 | 6.8 |
| | 7/9/2003 | -- | | 39.6 | 12.50 | 26.00 | 17.27 | 22.33 | <2,500 | <25 | <25 | <25 | <25 | 690 | 6.7 | 6.7 |
| | 02/05/2004 | NP | m | 39.49 | 12.50 | 26.00 | 16.28 | 23.21 | 2,800 | 31 | <25 | <25 | <25 | 1,100 | 0.9 | 6.5 |
| | 04/05/2004 | NP | | 39.49 | 12.50 | 26.00 | 16.25 | 23.24 | 5,800 | 46 | <25 | <25 | <25 | 1,700 | 1.0 | -- |
| | 07/13/2004 | NP | | 39.49 | 12.50 | 26.00 | 17.57 | 21.92 | <1,000 | <10 | <10 | <10 | <10 | 730 | 0.5 | 6.6 |
| | 11/04/2004 | NP | | 39.49 | 12.50 | 26.00 | 17.78 | 21.71 | 560 | <5.0 | <5.0 | <5.0 | <5.0 | 380 | 0.8 | 6.5 |
| | 01/20/2005 | NP | | 39.49 | 12.50 | 26.00 | 15.50 | 23.99 | 670 | <5.0 | <5.0 | <5.0 | <5.0 | 570 | 0.6 | 6.0 |
| | 04/11/2005 | NP | | 39.49 | 12.50 | 26.00 | 14.82 | 24.67 | <2,500 | <25 | <25 | <25 | 25 | 1,100 | 0.9 | 6.9 |
| | 08/01/2005 | NP | | 39.49 | 12.50 | 26.00 | 16.77 | 22.72 | 2,200 | 33 | <10 | 110 | <10 | 1,400 | 1.27 | 7.3 |
| | 10/21/2005 | NP | | 39.49 | 12.50 | 26.00 | 17.71 | 21.78 | <2,500 | <25 | <25 | <25 | <25 | 970 | 1.17 | 6.6 |
| MW-2 | 6/26/2000 | -- | a | 37.99 | 12.00 | 26.00 | 14.60 | 23.39 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/20/2000 | -- | | 37.99 | 12.00 | 26.00 | 15.14 | 22.85 | 95,000 | 2,300 | 18,000 | 2,500 | 19,000 | 13,000 | -- | -- |
| | 9/19/2000 | -- | | 37.99 | 12.00 | 26.00 | 15.95 | 22.04 | 63,000 | 1,200 | 6,300 | 2,000 | 14,000 | 19,000 | -- | -- |
| | 12/21/00 | -- | b | 37.99 | 12.00 | 26.00 | -- | -- | 5,010 | 360 | 189 | 213 | 626 | 54,300/89,200 | -- | -- |
| | 12/21/2000 | -- | | 37.99 | 12.00 | 26.00 | 15.60 | 22.39 | 45,900 | -- | 2,130 | 1,160 | 9,460 | 22,400/24,700 | -- | -- |
| | 3/13/2001 | -- | b | 37.99 | 12.00 | 26.00 | -- | -- | <20,000 | 525 | 466 | 408 | 1,460 | 91,700/76,000 | -- | -- |
| | 3/13/2001 | -- | | 37.99 | 12.00 | 26.00 | 13.77 | 23.90 | 3,650 | 98.1 | <5.0 | <5.0 | 6.42 | 3,590/3,260 | -- | -- |
| | 9/18/2001 | -- | a | 37.99 | 12.00 | 26.00 | 16.86 | 21.13 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/28/2001 | -- | | 37.99 | 12.00 | 26.00 | 14.28 | 23.71 | 31,000 | 1,500 | 3,800 | 1,300 | 4,800 | 9,300/8,800 | -- | -- |
| | 3/14/2002 | -- | | 37.99 | 12.00 | 26.00 | 14.15 | 23.84 | 1,800 | 25 | 43 | 43 | 270 | 990/960 | -- | -- |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

| Well No. | Date | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH |
|----------|------------|-------|----------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| MW-2 | 4/23/2002 | -- | | 37.99 | 12.00 | 26.00 | 13.60 | 24.39 | 9,000 | 220 | 110 | 470 | 2,500 | 8,500 | -- | -- |
| | 7/17/2002 | NP | a, c | 37.99 | 12.00 | 26.00 | 15.75 | -- | 74,000 | 280 | 290 | 820 | 10,000 | 19,000/0.4 | 6.8 | 6.8 |
| | 10/9/02 | NP | g | 37.99 | 12.00 | 26.00 | 16.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 1/13/03 | -- | g, h | 37.99 | 12.00 | 26.00 | 13.59 | 24.61 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/07/03 | -- | g, h | 37.99 | 12.00 | 26.00 | 14.70 | 23.69 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/09/03 | -- | g, h | 37.99 | 12.00 | 26.00 | 15.48 | 22.57 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/05/2004 | NP | g,m | 37.86 | 12.00 | 26.00 | 14.43 | 23.53 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/05/2004 | NP | | 37.86 | 12.00 | 26.00 | 14.35 | 23.51 | 2,300 | 33 | <5.0 | <5.0 | 200 | 750 | 0.6 | -- |
| | 07/13/2004 | NP | | 37.86 | 12.00 | 26.00 | 15.79 | 22.07 | 59,000 | 380 | <50 | 2,100 | 7,900 | 5,800 | 0.3 | 6.4 |
| | 08/31/2004 | -- | | 37.86 | 12.00 | 26.00 | 15.89 | 21.97 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/04/2004 | -- | g, h | 37.86 | 12.00 | 26.00 | 15.92 | 21.94 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 01/20/2005 | NP | o | 37.86 | 12.00 | 26.00 | 13.71 | 24.15 | 30,000 | 450 | <50 | 1,300 | 3,300 | 7,000 | 0.7 | 6.2 |
| | 04/11/2005 | NP | | 37.86 | 12.00 | 26.00 | 12.70 | 25.16 | 11,000 | 170 | <50 | 580 | 630 | 2,700 | 0.9 | 6.8 |
| | 08/01/2005 | NP | | 37.86 | 12.00 | 26.00 | 14.89 | 22.97 | 24,000 | 170 | <50 | 1,100 | 2,700 | 2,700 | 0.64 | 6.9 |
| | 10/21/2005 | -- | a | 37.86 | 12.00 | 26.00 | 16.05 | 21.81 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-3 | 6/26/2000 | -- | | 39.32 | 12.00 | 26.00 | 15.96 | 23.36 | -- | -- | -- | -- | -- | -- | -- | NA |
| | 7/20/2000 | -- | | 39.32 | 12.00 | 26.00 | 16.42 | 22.90 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | 130 | -- | -- |
| | 9/19/2000 | -- | | 39.32 | 12.00 | 26.00 | 17.18 | 22.14 | 190 | 17 | <0.5 | 1.4 | 2.4 | 160 | -- | -- |
| | 12/21/2000 | -- | | 39.32 | 12.00 | 26.00 | 16.97 | 22.35 | 187 | 17.8 | <0.5 | 2.47 | 2.5 | 143/125 | -- | -- |
| | 3/13/2001 | -- | | 39.32 | 12.00 | 26.00 | 15.17 | 24.15 | 72.4 | 2.83 | <0.5 | <0.5 | <0.5 | 126/122 | -- | -- |
| | 9/18/2001 | -- | | 39.32 | 12.00 | 26.00 | 17.81 | 21.51 | 140 | 6.4 | <0.5 | 3.5 | 1.6 | 110/75 | -- | -- |
| | 12/28/2001 | -- | | 39.32 | 12.00 | 26.00 | 15.44 | 23.88 | 130 | 5.9 | <0.5 | 0.99 | 0.55 | 90/63 | -- | -- |
| | 3/14/2002 | -- | | 39.32 | 12.00 | 26.00 | 15.50 | 23.82 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 100/88 | -- | -- |
| | 4/23/2002 | -- | | 39.32 | 12.00 | 26.00 | 14.96 | 24.36 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 77 | -- | -- |
| | 7/17/2002 | NP | | 39.32 | 12.00 | 26.00 | 17.09 | 22.23 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 47 | 7.2 | 7.2 |
| | 10/9/2002 | NP | | 39.32 | 12.00 | 26.00 | 17.87 | 21.45 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 26/29 | 7.2 | 7.2 |
| | 1/13/2003 | NP | I (Toluene and MTBE) | 39.32 | 12.00 | 26.00 | 14.78 | 24.54 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 59 | 6.8 | 6.8 |
| | 04/07/03 | NP | | 39.32 | 12.00 | 26.00 | 16.15 | 23.17 | 88 | <0.50 | <0.50 | <0.50 | <0.50 | 75 | 7.0 | 7.0 |
| | 7/9/2003 | -- | | 39.32 | 12.00 | 26.00 | 16.79 | 22.53 | 100 | <0.50 | <0.50 | <0.50 | <0.50 | 52 | 6.5 | 6.5 |
| | 02/05/2004 | NP | m | 39.19 | 11.90 | 26.00 | 15.66 | 23.53 | 240 | <0.50 | <0.50 | <0.50 | <0.50 | 37 | 0.5 | -- |
| | 04/05/2004 | NP | | 39.19 | 11.90 | 26.00 | 15.78 | 23.41 | 140 | <0.50 | <0.50 | <0.50 | 0.60 | 53 | 1.0 | 6.6 |
| | 07/13/2004 | NP | | 39.19 | 11.90 | 26.00 | 17.20 | 21.99 | 120 | <0.50 | <0.50 | <0.50 | <0.50 | 35 | 0.8 | 6.7 |
| | 11/04/2004 | NP | | 39.19 | 11.90 | 26.00 | 17.32 | 21.87 | 160 | <0.50 | <0.50 | <0.50 | <0.50 | 25 | 0.8 | 6.5 |
| | 01/20/2005 | NP | | 39.19 | 11.90 | 26.00 | 15.07 | 24.12 | 160 | <0.50 | <0.50 | <0.50 | <0.50 | 27 | 0.6 | 6.1 |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

| Well No. | Date | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH |
|------------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|---------------|-----------|-----|
| MW-3 | 04/11/2005 | NP | | 39.19 | 11.90 | 26.00 | 14.24 | 24.95 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 21 | 0.6 | 6.1 |
| | 08/01/2005 | NP | | 39.19 | 11.90 | 26.00 | 16.29 | 22.90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 23 | 1.04 | 7.2 |
| | 10/21/2005 | NP | | 39.19 | 11.90 | 26.00 | 17.41 | 21.78 | 88 | <0.50 | <0.50 | <0.50 | <0.50 | 19 | 1.9 | 6.6 |
| MW-4 | 6/26/2000 | -- | | 38.1 | 10.00 | 24.00 | 14.59 | 23.51 | -- | -- | -- | -- | -- | -- | -- | NA |
| | 7/20/2000 | -- | | 38.1 | 10.00 | 24.00 | 15.04 | 23.06 | 97 | 7.9 | <0.5 | <0.5 | 1.1 | 51 | -- | -- |
| | 9/19/2000 | -- | | 38.1 | 10.00 | 24.00 | 15.83 | 22.27 | 110 | 7 | <0.5 | <0.5 | <1.0 | 60 | -- | -- |
| | 12/21/2000 | -- | | 38.1 | 10.00 | 24.00 | 15.59 | 22.51 | 120 | 5.6 | <0.5 | 1.72 | <0.5 | 46.3/48.6 | -- | -- |
| | 3/13/2001 | -- | | 38.1 | 10.00 | 24.00 | 13.73 | 24.37 | 76 | 0.796 | <0.5 | <0.5 | <0.5 | 53.7/50 | -- | -- |
| | 9/18/2001 | -- | | 38.1 | 10.00 | 24.00 | 16.50 | 21.60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 25/26 | -- | -- |
| | 12/28/2001 | -- | | 38.1 | 10.00 | 24.00 | 14.03 | 24.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 15/11 | -- | -- |
| | 3/14/2002 | -- | | 38.1 | 10.00 | 24.00 | 14.10 | 24.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 31/28 | -- | -- |
| | 4/23/2002 | -- | | 38.1 | 10.00 | 24.00 | 13.57 | 24.53 | <50 | 2.8 | <0.5 | <0.5 | <0.5 | 42 | -- | -- |
| | 7/17/2002 | NP | | 38.1 | 10.00 | 24.00 | 15.76 | 22.34 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 16 | 7.1 | 7.1 |
| | 10/9/2002 | NP | | 38.1 | 10.00 | 24.00 | 16.59 | 21.51 | <50 | 2.2 | <0.50 | <0.50 | <0.50 | 20/23 | 7.1 | 7.1 |
| | 1/13/2003 | NP | d | 38.1 | 10.00 | 24.00 | 13.43 | 24.67 | 52 | <0.50 | 1.6 | <0.50 | <0.50 | 22 | 6.6 | 6.6 |
| | 04/07/03 | NP | | 38.1 | 10.00 | 24.00 | 14.74 | 23.36 | 65 | <0.50 | <0.50 | <0.50 | <0.50 | 24 | 6.6 | 6.6 |
| | 7/9/2003 | -- | | 38.1 | 10.00 | 24.00 | 15.44 | 22.66 | 120 | <0.50 | <0.50 | <0.50 | <0.50 | 34 | 6.6 | 6.6 |
| | 02/05/2004 | NP | m | 37.99 | 10.00 | 24.00 | 14.39 | 23.60 | 120 | <0.50 | <0.50 | <0.50 | <0.50 | 22 | 0.5 | 6.6 |
| | 04/05/2004 | NP | | 37.99 | 10.00 | 24.00 | 14.37 | 23.62 | 110 | <0.50 | <0.50 | <0.50 | <0.50 | 27 | 1.1 | 6.5 |
| | 07/13/2004 | NP | | 37.99 | 10.00 | 24.00 | 15.96 | 22.03 | 77 | <0.50 | <0.50 | <0.50 | <0.50 | 27 | 0.6 | 6.6 |
| 11/04/2004 | NP | | 37.99 | 10.00 | 24.00 | 16.02 | 21.97 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 19 | 1.2 | 6.7 | |
| 01/20/2005 | NP | | 37.99 | 10.00 | 24.00 | 13.72 | 24.27 | 65 | <0.50 | <0.50 | <0.50 | <0.50 | 18 | 0.6 | 6.1 | |
| 04/11/2005 | NP | | 37.99 | 10.00 | 24.00 | 12.80 | 25.19 | 51 | <0.50 | <0.50 | <0.50 | <0.50 | 14 | 0.7 | 6.2 | |
| 08/01/2005 | NP | | 37.99 | 10.00 | 24.00 | 14.88 | 23.11 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 18 | 1.46 | 7.3 | |
| 10/21/2005 | NP | | 37.99 | 10.00 | 24.00 | 15.01 | 22.98 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 15 | 1.24 | 7.6 | |
| MW-5 | 6/26/2000 | -- | | 37.21 | 9.50 | 23.50 | 14.27 | 22.94 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/20/2000 | -- | | 37.21 | 9.50 | 23.50 | 14.69 | 22.52 | 55 | <0.5 | <0.5 | <0.5 | <1.0 | 14,000 | -- | -- |
| | 9/19/2000 | -- | | 37.21 | 9.50 | 23.50 | 15.36 | 21.85 | 54 | <0.5 | <0.5 | <0.5 | <1.0 | 13,000 | -- | -- |
| | 12/21/2000 | -- | | 37.21 | 9.50 | 23.50 | 15.15 | 22.06 | 72.9 | 2.51 | <0.5 | <0.5 | 0.961 | 19,200/21,200 | -- | -- |
| | 3/13/2001 | -- | | 37.21 | 9.50 | 23.50 | 13.50 | 23.71 | <500 | <5 | <5 | <5 | <5 | 15,900/20,000 | -- | -- |
| | 9/18/2001 | -- | | 37.21 | 9.50 | 23.50 | 15.94 | 21.27 | <10,000 | <100 | <100 | <100 | <1,000 | 22,000/20,000 | -- | -- |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

| Well No. | Date | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH |
|----------|------------|-------|-------------------------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|---------------|-----------|-----|
| MW-5 | 12/28/2001 | -- | | 37.21 | 9.50 | 23.50 | 13.45 | 23.76 | <10,000 | <100 | <100 | <100 | <100 | 10,000/10,000 | -- | -- |
| | 3/14/2002 | -- | | 37.21 | 9.50 | 23.50 | 13.82 | 23.39 | <5,000 | <50 | <50 | <50 | <50 | 7,100/7,700 | -- | -- |
| | 4/23/2002 | -- | | 37.21 | 9.50 | 23.50 | 13.25 | 23.96 | <5,000 | <50 | <50 | <50 | <50 | 8,900 | -- | -- |
| | 7/17/2002 | NP | d | 37.21 | 9.50 | 23.50 | 15.27 | 21.94 | 7,900 | <50 | <50 | <50 | <50 | 13,000 | 7.5 | 7.5 |
| | 10/9/2002 | NP | e | 37.21 | 9.50 | 23.50 | 16.02 | 21.19 | 2,400 | <20 | <20 | <20 | <20 | 7,300/7,500 | 6.7 | 6.7 |
| | 1/13/2003 | NP | e, k, j (benzene and total xylenes) | 37.21 | 9.50 | 23.50 | 13.20 | 24.01 | 6,400 | <50 | <50 | <50 | <50 | 8,900 | 6.8 | 6.8 |
| | 04/07/03 | NP | | 37.21 | 9.50 | 23.50 | 14.42 | 22.79 | <10,000 | <100 | <100 | <100 | <100 | 3,700 | 6.8 | 6.8 |
| | 7/9/2003 | -- | | 37.21 | 9.50 | 23.50 | 15.01 | 22.20 | 11,000 | <50 | <50 | <50 | <50 | 6,500 | 6.9 | 6.9 |
| | 02/05/2004 | NP | m | 37.12 | 9.00 | 23.50 | 14.10 | 23.02 | 8,100 | <50 | <50 | <50 | <50 | 7,900 | 1.5 | -- |
| | 04/05/2004 | NP | | 37.12 | 9.00 | 23.50 | 14.14 | 22.98 | 4,000 | <25 | <25 | <25 | <25 | 2,000 | 1.0 | 6.6 |
| | 07/13/2004 | NP | | 37.12 | 9.00 | 23.50 | 15.37 | 21.75 | <5,000 | <50 | <50 | <50 | <50 | 4,000 | 0.8 | 6.7 |
| | 11/04/2004 | NP | | 37.12 | 9.00 | 23.50 | 15.53 | 21.59 | 7,400 | <50 | <50 | <50 | <50 | 6,300 | 3.5 | 6.7 |
| | 01/20/2005 | NP | n | 37.12 | 9.00 | 23.50 | 13.51 | 23.61 | 6,500 | <50 | <50 | <50 | <50 | 6,900 | 0.7 | 6.5 |
| | 04/11/2005 | NP | | 37.12 | 9.00 | 23.50 | 12.75 | 24.37 | <5,000 | <50 | <50 | <50 | <50 | 2,600 | 0.5 | 7.0 |
| | 08/01/2005 | NP | | 37.12 | 9.00 | 23.50 | 14.59 | 22.53 | 110 | <1.0 | <1.0 | <1.0 | <1.0 | 130 | 1.36 | 7.5 |
| | 10/21/2005 | NP | | 37.12 | 9.00 | 23.50 | 15.57 | 21.55 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | 86 | 1.53 | 6.8 |
| MW-6 | 6/26/2000 | -- | | 37.11 | 10.00 | 25.00 | 13.46 | 23.65 | -- | -- | -- | -- | -- | -- | -- | NA |
| | 7/20/2000 | -- | | 37.11 | 10.00 | 25.00 | 13.94 | 23.17 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <3.0 | -- | -- |
| | 9/19/2000 | -- | | 37.11 | 10.00 | 25.00 | 14.41 | 22.70 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <3.0 | -- | -- |
| | 12/21/2000 | -- | | 37.11 | 10.00 | 25.00 | 14.53 | 22.58 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- |
| | 3/13/2001 | -- | | 37.11 | 10.00 | 25.00 | 12.67 | 24.44 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- |
| | 9/18/2001 | -- | | 37.11 | 10.00 | 25.00 | 15.42 | 21.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5/<2.0 | -- | -- |
| | 12/28/2001 | -- | | 37.11 | 10.00 | 25.00 | 12.96 | 24.15 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 12/<0.5 | -- | -- |
| | 3/14/2002 | -- | | 37.11 | 10.00 | 25.00 | 12.98 | 24.13 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- |
| | 4/23/2002 | -- | | 37.11 | 10.00 | 25.00 | 12.44 | 24.67 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.1 | -- | -- |
| | 7/17/2002 | NP | | 37.11 | 10.00 | 25.00 | 14.65 | 22.46 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 7.3 | 7.3 |
| | 10/9/2002 | NP | | 37.11 | 10.00 | 25.00 | 15.51 | 21.60 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 7.1 | 7.1 |
| | 1/13/2003 | NP | | 37.11 | 10.00 | 25.00 | 12.27 | 24.84 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 6.8 | 6.8 |
| | 04/07/03 | NP | | 37.11 | 10.00 | 25.00 | 13.61 | 23.50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 6.6 | 6.6 |
| | 7/9/2003 | -- | | 37.11 | 10.00 | 25.00 | 14.34 | 22.77 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 7 | 7.0 |
| | 02/05/2004 | -- | m | 37.11 | 10.00 | 25.00 | 13.38 | 23.73 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/05/2004 | -- | | 37.11 | 10.00 | 25.00 | 13.31 | 23.80 | -- | -- | -- | -- | -- | -- | -- | -- |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

| Well No. | Date | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH |
|----------|------------|-------|-----------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-----------------|-----------|-----|
| MW-6 | 07/13/2004 | NP | | 37.11 | 10.00 | 25.00 | 14.65 | 22.46 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.7 | 6.8 |
| | 11/04/2004 | -- | | 37.11 | 10.00 | 25.00 | 14.95 | 22.16 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 01/20/2005 | -- | | 37.11 | 10.00 | 25.00 | 12.57 | 24.54 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/2005 | -- | | 37.11 | 10.00 | 25.00 | 12.05 | 25.06 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/01/2005 | NP | | 37.11 | 10.00 | 25.00 | 13.79 | 23.32 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.15 | 7.6 |
| | 10/21/2005 | -- | | 37.11 | 10.00 | 25.00 | 14.60 | 22.51 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-7 | 6/26/2000 | -- | | 38.68 | 12.00 | 27.00 | 14.34 | 24.34 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 7/20/2000 | -- | | 38.68 | 12.00 | 27.00 | 15.26 | 23.42 | 14,000 | 5.4 | <0.5 | 2.8 | 5.9 | 71,000 | -- | -- |
| | 9/19/2000 | -- | | 38.68 | 12.00 | 27.00 | 15.70 | 22.98 | 8,400 | 420 | 38 | 470 | 220 | 5,600 | -- | -- |
| | 12/21/2000 | -- | | 38.68 | 12.00 | 27.00 | 16.02 | 22.66 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/13/2001 | -- | | 38.68 | 12.00 | 27.00 | 14.18 | 24.50 | <2,000 | 154 | 63 | 46.3 | 127 | 175,000/160,000 | -- | -- |
| | 9/18/2001 | -- | | 38.68 | 12.00 | 27.00 | 17.02 | 21.66 | <100,000 | 1,900 | <1,000 | <1,000 | 2,800 | 190,000/370,000 | -- | -- |
| | 12/28/2001 | -- | | 38.68 | 12.00 | 27.00 | 14.81 | 23.87 | <20,000 | <200 | <200 | <200 | <200 | 84,000/72,000 | -- | -- |
| | 3/14/2002 | -- | | 38.68 | 12.00 | 27.00 | 14.60 | 24.08 | <50,000 | <500 | <500 | <500 | <500 | 85,000/85,000 | -- | -- |
| | 4/23/2002 | -- | | 38.68 | 12.00 | 27.00 | 13.94 | 24.74 | <20,000 | 530 | 200 | 220 | 800 | 67,000 | -- | -- |
| | 7/17/2002 | NP | d | 38.68 | 12.00 | 27.00 | 16.27 | 22.41 | 26,000 | 720 | <250 | <250 | 860 | 120,000 | 6.9 | 6.9 |
| | 10/9/2002 | NP | d | 38.68 | 12.00 | 27.00 | 17.16 | 21.52 | 110,000 | 1,500 | 4,400 | 820 | 5,400 | 97,000/120,000 | 6.8 | 6.8 |
| | 1/13/2003 | NP | f (TPH-g, BTEX, MTBE) | 38.68 | 12.00 | 27.00 | 13.82 | 24.86 | <50,000 | <500 | <500 | <500 | 2,200 | 33,000 | 6.6 | 6.6 |
| | 04/07/03 | NP | | 38.68 | 12.00 | 27.00 | 14.52 | 24.16 | <2,500 | 30 | <25 | <25 | <25 | 710 | 7.0 | 7.0 |
| | 7/9/2003 | -- | | 38.68 | 12.00 | 27.00 | 15.97 | 22.71 | 66,000 | <500 | <500 | <500 | <500 | 36,000 | 6.7 | 6.7 |
| | 02/05/2004 | NP | m | 38.54 | 12.00 | 27.00 | 14.75 | 23.79 | 55,000 | 300 | <250 | <250 | <250 | 34,000 | 1.0 | 6.7 |
| | 04/05/2004 | NP | | 38.54 | 12.00 | 27.00 | 14.63 | 23.91 | 62,000 | 520 | <250 | <250 | 380 | 37,000 | 1.0 | 6.7 |
| | 07/13/2004 | NP | | 38.54 | 12.00 | 27.00 | 16.31 | 22.23 | <100,000 | <1,000 | <1,000 | <1,000 | <1,000 | 56,000 | 0.7 | 6.7 |
| | 11/04/2004 | -- | | 38.54 | 12.00 | 27.00 | 16.46 | 22.08 | 70,000 | <500 | <500 | <500 | <500 | 71,000 | 2.0 | 6.6 |
| | 01/20/2005 | NP | n | 38.54 | 12.00 | 27.00 | 14.05 | 24.49 | 34,000 | <250 | <250 | <250 | <250 | 36,000 | 0.6 | 6.3 |
| | 04/11/2005 | NP | | 38.54 | 12.00 | 27.00 | 12.55 | 25.99 | <2,500 | 46 | <25 | <25 | <25 | 1,200 | 0.7 | 6.8 |
| | 08/01/2005 | NP | | 38.54 | 12.00 | 27.00 | 15.11 | 23.43 | <25,000 | <250 | <250 | <250 | <250 | 4,800 | 1.78 | 7.3 |
| | 10/21/2005 | NP | n (MTBE) | 38.54 | 12.00 | 27.00 | 15.65 | 22.89 | 14,000 | 350 | <100 | <100 | 110 | 12,000 | 1.41 | 6.6 |
| MW-8 | 02/05/2004 | P | m | 38.91 | 18.00 | 38.00 | 15.61 | 23.30 | 3,600 | <25 | <25 | <25 | <25 | 1,900 | 6.9 | 6.8 |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

| Well No. | Date | P/ NP | Footnotes/ Comments | TOC (ft MSL) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (ft bgs) | GWE (ft MSL) | GRO/ TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DO (mg/L) | pH |
|----------|------------|-------|---------------------|--------------|------------------------|---------------------------|--------------|--------------|-------------------|----------------|----------------|----------------------|----------------------|-------------|-----------|-----|
| MW-8 | 04/05/2004 | P | | 38.91 | 18.00 | 38.00 | 15.64 | 23.27 | 1,900 | <10 | <10 | <10 | <10 | 1,200 | 3.2 | 6.7 |
| | 07/13/2004 | P | | 38.91 | 18.00 | 38.00 | 17.22 | 21.69 | <1,000 | <10 | <10 | <10 | <10 | 760 | 1.6 | 6.7 |
| | 11/04/2004 | P | | 38.91 | 18.00 | 38.00 | 17.19 | 21.72 | 960 | <5.0 | <5.0 | <5.0 | <5.0 | 820 | 1.8 | 6.7 |
| | 01/20/2005 | P | | 38.91 | 18.00 | 38.00 | 15.25 | 23.66 | <2,500 | <25 | <25 | <25 | <25 | 1,400 | 1.5 | 6.4 |
| | 04/11/2005 | P | | 38.91 | 18.00 | 38.00 | 14.17 | 24.74 | 700 | <5.0 | <5.0 | <5.0 | <5.0 | 610 | 1.1 | 7.1 |
| | 08/01/2005 | P | | 38.91 | 18.00 | 38.00 | 16.10 | 22.81 | <1,000 | <10 | <10 | <10 | <10 | 900 | 2.58 | 7.7 |
| | 10/21/2005 | P | n (GRO) | 38.91 | 18.00 | 38.00 | 17.18 | 21.73 | 530 | <5.0 | <5.0 | <5.0 | <5.0 | 490 | 1.4 | 6.7 |

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
BTEX = Benzene, Toluene, Ethylbenzene and Toluene
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline Range Organics, range C4-C12
GWE = Groundwater elevation in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert-Butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter

FOOTNOTES:

a = Product sheen noted
b = Well was sampled after batch extraction event.
c = Chromatogram Pattern: Gasoline C6-C10 for GRO/TPH-g.
d = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel for GRO/TPH-g.
e = Discrete peak @C6-C7 for GRO/TPH-g.
f = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
g = Well not sampled due to the detection of free product.
h = Groundwater elevation adjusted for free product: (thickness of free product x 0.8) + measured groundwater elevation
j = The closing calibration was outside acceptance limits by 1%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
k = The closing calibration was outside acceptance limits by 6%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
l = This analyte was not confirmed using a secondary column in accordance to client contract.
m = TOC elevations re-surveyed to NAVD '88 on February 23, 2004.
n = Hydrocarbon result partly due to indiv. peak(s) in quant. range.
o = Light to moderate sheen

NOTES:

Beginning with the second quarter 2003 sampling event (04/07/03), TPH-g, BTEX, and MTBE analyzed by EPA method 8260B. Prior to 04/07/03, TPH-g was analyzed by EPA method 8015 modified and MTBE was analyzed by EPA methods 8020/ 8260B.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Values for DO and pH were obtained through field measurements.

Source: The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Table 2

Fuel Additives Analytical Data
 ARCO Service Station #2111
 1156 Davis St, San Leandro, CA

| Well Number | Date Sampled | Ethanol (µg/L) | TBA (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Footnotes/ Comments |
|-------------|--------------|----------------|------------|-------------|-------------|-------------|-------------|----------------|------------|---------------------|
| MW-1 | 4/7/2003 | <100 | <20 | 1,100 | <0.50 | <0.50 | <0.50 | -- | -- | |
| | 7/9/2003 | <5,000 | <1,000 | 690 | <25 | <25 | <25 | -- | -- | |
| | 02/05/2004 | <5,000 | <1,000 | 1,100 | <25 | <25 | 32 | <25 | <25 | |
| | 04/05/2004 | <5,000 | <1,000 | 1,700 | <25 | <25 | 38 | <25 | <25 | a |
| | 07/13/2004 | <2,000 | 780 | 730 | <10 | <10 | 19 | <10 | <10 | a |
| | 11/04/2004 | <1,000 | <200 | 380 | <5.0 | <5.0 | 12 | <5.0 | <5.0 | |
| | 01/20/2005 | <1,000 | <200 | 570 | <5.0 | <5.0 | 17 | <5.0 | <5.0 | a |
| | 04/11/2005 | <5,000 | <1,000 | 1,100 | <25 | <25 | 34 | <25 | <25 | |
| | 08/01/2005 | <2,000 | <400 | 1,400 | <10 | <10 | 40 | <10 | <10 | |
| | 10/21/2005 | <5,000 | <1,000 | 970 | <25 | <25 | <25 | <25 | <25 | |
| MW-2 | 04/05/2004 | <1,000 | <200 | 750 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| | 07/13/2004 | <10,000 | 12,000 | 5,800 | <50 | <50 | <50 | <50 | <50 | a |
| | 01/20/2005 | <10,000 | <2,000 | 7,000 | <50 | <50 | <50 | <50 | <50 | a |
| | 04/11/2005 | <10,000 | <2,000 | 2,700 | <50 | <50 | <50 | <50 | <50 | |
| | 08/01/2005 | <10,000 | <2,000 | 2,700 | <50 | <50 | <50 | <50 | <50 | |
| MW-3 | 4/7/2003 | <100 | <20 | 75 | <0.50 | <0.50 | 6.5 | -- | -- | |
| | 7/9/2003 | <100 | <20 | 52 | <0.50 | <0.50 | 4.2 | -- | -- | |
| | 02/05/2004 | <100 | <20 | 37 | <0.50 | <0.50 | 3.1 | <0.50 | <0.50 | |
| | 04/05/2004 | <100 | <20 | 53 | <0.50 | <0.50 | 3.7 | <0.50 | <0.50 | a |
| | 07/13/2004 | <100 | 44 | 35 | <0.50 | <0.50 | 3.2 | <0.50 | <0.50 | |
| | 11/04/2004 | <100 | <20 | 25 | <0.50 | <0.50 | 2.2 | <0.50 | <0.50 | |
| | 01/20/2005 | <100 | <20 | 27 | <0.50 | <0.50 | 2.6 | <0.50 | <0.50 | |
| | 04/11/2005 | <100 | <20 | 21 | <0.50 | <0.50 | 2.0 | <0.50 | <0.50 | |
| | 08/01/2005 | <100 | <20 | 23 | <0.50 | <0.50 | 1.9 | <0.50 | <0.50 | |
| | 10/21/2005 | <100 | <20 | 19 | <0.50 | <0.50 | 2.0 | <0.50 | <0.50 | |
| MW-4 | 4/7/2003 | <100 | <20 | 24 | <0.50 | <0.50 | 7.3 | -- | -- | |
| | 7/9/2003 | <100 | <20 | 34 | <0.50 | <0.50 | 9.8 | -- | -- | |
| | 02/05/2004 | <100 | <20 | 22 | <0.50 | <0.50 | 6.2 | <0.50 | <0.50 | |
| | 04/05/2004 | <100 | <20 | 27 | <0.50 | <0.50 | 7.2 | <0.50 | <0.50 | a |
| | 07/13/2004 | <100 | 26 | 27 | <0.50 | <0.50 | 7.4 | <0.50 | <0.50 | a |
| | 11/04/2004 | <100 | <20 | 19 | <0.50 | <0.50 | 5.1 | <0.50 | <0.50 | |
| | 01/20/2005 | <100 | <20 | 18 | <0.50 | <0.50 | 5.2 | <0.50 | <0.50 | |
| | 04/11/2005 | <100 | <20 | 14 | <0.50 | <0.50 | 4.0 | <0.50 | <0.50 | |
| | 08/01/2005 | <100 | <20 | 18 | <0.50 | <0.50 | 3.9 | <0.50 | <0.50 | |

Table 2

Fuel Additives Analytical Data
 ARCO Service Station #2111
 1156 Davis St, San Leandro, CA

| Well Number | Date Sampled | Ethanol (µg/L) | TBA (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Footnotes/ Comments |
|-------------|--------------|----------------|------------|-------------|-------------|-------------|-------------|----------------|------------|---------------------|
| MW-4 | 10/21/2005 | <100 | <20 | 15 | <0.50 | <0.50 | 4.6 | <0.50 | <0.50 | |
| MW-5 | 4/7/2003 | <20,000 | <4,000 | 3,700 | <100 | <100 | <100 | -- | -- | |
| | 7/9/2003 | <10,000 | <2,000 | 6,500 | <50 | <50 | <50 | -- | -- | |
| | 02/05/2004 | <10,000 | <2,000 | 7,900 | <50 | <50 | <50 | <50 | <50 | a |
| | 04/05/2004 | <5,000 | <1,000 | 2,000 | <25 | <25 | <25 | <25 | <25 | a |
| | 07/13/2004 | <10,000 | 3,200 | 4,000 | <50 | <50 | <50 | <50 | <50 | a |
| | 11/04/2004 | <10,000 | <2,000 | 6,300 | <50 | <50 | <50 | <50 | <50 | |
| | 01/20/2005 | <10,000 | <2,000 | 6,900 | <50 | <50 | <50 | <50 | <50 | a |
| | 04/11/2005 | <10,000 | 3,600 | 2,600 | <50 | <50 | <50 | <50 | <50 | |
| | 08/01/2005 | <200 | 1,600 | 130 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 10/21/2005 | <500 | 1,400 | 86 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| MW-6 | 4/7/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | |
| | 7/9/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | |
| | 07/13/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | a |
| | 08/01/2005 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| MW-7 | 4/7/2003 | <5,000 | <1,000 | 710 | <25 | <25 | <25 | -- | -- | |
| | 7/9/2003 | <100,000 | <20,000 | 36,000 | <500 | <500 | <500 | -- | -- | |
| | 02/05/2004 | <50,000 | <10,000 | 34,000 | <250 | <250 | <250 | <250 | <250 | |
| | 04/05/2004 | <50,000 | <10,000 | 37,000 | <250 | <250 | <250 | <250 | <250 | |
| | 07/13/2004 | <200,000 | <40,000 | 56,000 | <1,000 | <1,000 | 1,300 | <1,000 | <1,000 | |
| | 11/04/2004 | <100,000 | <20,000 | 71,000 | <500 | <500 | <500 | <500 | <500 | |
| | 01/20/2005 | <50,000 | <10,000 | 36,000 | <250 | <250 | <250 | <250 | <250 | a |
| | 04/11/2005 | <5,000 | <1,000 | 1,200 | <25 | <25 | <25 | <25 | <25 | |
| | 08/01/2005 | <50,000 | <10,000 | 4,800 | <250 | <250 | <250 | <250 | <250 | |
| | 10/21/2005 | <20,000 | 24,000 | 12,000 | <100 | <100 | <100 | <100 | <100 | |
| MW-8 | 02/05/2004 | <5,000 | <1,000 | 1,900 | <25 | <25 | <25 | <25 | <25 | |
| | 04/05/2004 | <2,000 | <400 | 1,200 | <10 | <10 | 12 | <10 | <10 | a |
| | 07/13/2004 | <2,000 | 770 | 760 | <10 | <10 | <10 | <10 | <10 | a |
| | 11/04/2004 | <1,000 | <200 | 820 | <5.0 | <5.0 | 9.6 | <5.0 | <5.0 | |
| | 01/20/2005 | <5,000 | <1,000 | 1,400 | <25 | <25 | <25 | <25 | <25 | a |
| | 04/11/2005 | <1,000 | <200 | 610 | <5.0 | <5.0 | 8.1 | <5.0 | <5.0 | |
| | 08/01/2005 | <2,000 | <400 | 900 | <10 | <10 | <10 | <10 | <10 | |
| | 10/21/2005 | <1,000 | <200 | 490 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |

Table 2

Fuel Additives Analytical Data

ARCO Service Station #2111
1156 Davis St, San Leandro, CA

ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above the laboratory reporting limit.
1,2-DCA = 1,2-Dichloroethane
DIPE = Di-isopropyl ether
EDB = 1,2-Dibromoethane
ETBE = Ethyl tert-Butyl ether
MTBE = Methyl tert-Butyl ether
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
µg/L = Micrograms per Liter

FOOTNOTES:

a = The continuing calibration verification for ethanol was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be considered useful for its intended purpose.

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

Source: The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Table 3

Groundwater Gradient Data
ARCO Service Station #2111
1156 Davis St, San Leandro, CA

| Date Sampled | Approximate Flow Direction | Approximate Hydraulic Gradient |
|---------------------|-----------------------------------|---------------------------------------|
| 7/20/2000 | West-Northwest | 0.006 |
| 9/19/2000 | West-Northwest | 0.004 |
| 12/21/2000 | West-Northwest | 0.004 |
| 3/13/2001 | West-Northwest | 0.005 |
| 5/30/2001 | West-Northwest | 0.004 |
| 9/18/2001 | West-Northwest | 0.003 |
| 12/28/2001 | West-Northwest | 0.003 |
| 3/14/2002 | West | 0.004 |
| 4/23/2002 | West | 0.006 |
| 7/17/2002 | West | 0.003 |
| 10/9/2002 | West | 0.002 |
| 1/13/2003 | Southwest | 0.0043 |
| 4/7/2003 | West-Northwest | 0.009 to 0.011 |
| 7/9/2003 | West-Northwest | 0.004 |
| 10/1/2003 | West | 0.002 |
| 2/5/2004 | West | 0.004 |
| 4/5/2004 | West-Southwest | 0.004 |
| 7/13/2004 | West-Southwest | 0.003 |
| 11/4/2004 | West | 0.003 |
| 1/20/2005 | West | 0.009 |
| 4/11/2005 | North to West | 0.009 to 0.01 |
| 8/1/2005 | West to Northwest | 0.006 to 0.004 |
| 10/21/2005 | West | 0.008 |

Note: The data within this table collected prior to July 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Table 4
Approximate Cumulative Floating Product Recovered
(1999 - present)

ARCO Service Station #2111
1156 Davis Street, San Leandro California

| Well Designation | Product Recovery Field Date | Floating Product Thickness (feet) | Floating Product Recovered (gallons) |
|---|-----------------------------|-----------------------------------|--------------------------------------|
| MW-2 | 06/28/99 | 0.45 | 0.30 |
| MW-2 | 06/30/99 | 0.015 | 0.01 |
| MW-2 | 07/07/99 | 0.06 | 0.04 |
| MW-2 | 07/23/99 | 0.008 | 0.01 |
| MW-2 | 08/25/99 | 0.02 | 0.01 |
| MW-2 | 09/21/99 | 0.01 | 0.01 |
| MW-2 | 11/10/99 | ND | 0.00 |
| MW-2 | 02/09/00 | ND | 0.00 |
| MW-2 | 04/23/02 | ND | 0.00 |
| MW-2 | 07/17/02 | Sheen | 0.00 |
| MW-2 | 10/9/2002 (1) | NA | 0.00 |
| MW-2 | 01/13/03 | 0.26 | 0.13 |
| MW-2 | 02/14/03 | ND | 0.00 |
| MW-2 | 03/24/03 | ND | 0.00 |
| MW-2 | 04/07/03 | 0.05 | 0.00 |
| MW-2 | 05/23/03 | ND | 0.00 |
| MW-2 | 06/24/03 | 0.03 | 0.01 |
| MW-2 | 07/09/03 | 0.07 | 0.03 |
| MW-2 | 07/31/03 | 0.05 | 0.03 |
| MW-2 | 09/04/03 | 0.02 | 0.01 |
| MW-2 | 10/01/03 | 0.07 | 0.02 |
| MW-2 | 11/12/03 | 0.59 | 0.36 |
| MW-2 | 12/11/03 | 0.05 | 0.07 |
| MW-2 | 02/05/04 | 0.13 | 0.02 |
| MW-2 | 02/16/04 | 0.02 | 0.01 |
| MW-2 | 03/11/04 | ND | 0.00 |
| MW-2 | 03/30/04 | ND | 0.00 |
| MW-2 | 04/05/04 | ND | 0.00 |
| MW-2 | 07/13/04 | ND | 0.00 |
| MW-2 | 08/31/04 | ND | 0.00 |
| MW-2 | 09/07/04 | ND | 0.00 |
| MW-2 | 11/04/04 | 0.22 | 0.14 |
| MW-2 | 11/29/04 | 0.02 | 0.05 |
| MW-2 | 12/15/04 | 0.24 | 0.16 |
| MW-2 | 01/20/05 | ND | 0.00 |
| MW-2 | 02/04/05 | Sheen | 0.00 |
| MW-2 | 03/23/05 | Sheen | 0.00 |
| MW-2 | 04/11/05 | ND | 0.00 |
| MW-2 | 05/12/05 | ND | 0.00 |
| MW-2 | 06/20/05 | ND | 0.00 |
| MW-2 | 08/01/05 | ND | 0.00 |
| MW-2 | 08/24/05 | ND | 0.00 |
| MW-2 | 09/16/05 | ND | 0.00 |
| MW-2 | 10/21/05 | Sheen | 0.00 |
| Approximate Cumulative Floating Product: | | | 1.44 |

FOOTNOTES:

- 1) Free product encountered, but unable to gauge.

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe.

Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 051021-PCZ

Date 10/21/05

Client Arco 2111

Site 1156 Davis St., San Leandro

| Well ID | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TOC | NFO |
|---------|-----------------|--------------|----------------------------------|--------------------------------------|------------------------------------|----------------------|----------------------------|--------------------------|-------------|
| MW-1 | 4 | | | | | 17.71 | 26.23 | TOC | 12.5' |
| MW-2 | 4 | 0/5 | | | | 16.05 | - | ↓ | √SPH 12" |
| MW-3 | 4 | | | | 17.41 | 26.66 | 11.9' | | |
| MW-4 | 4 | | | | 15.01 | 21.66 | 10' | | |
| MW-5 | 2 | | | | 15.57 | 23.87 | 9.4' | | |
| MW-6 | 2 | | | | 14.60 | 20.49 | TOB 9.0' | | |
| MW-7 | 4 | | | | 15.65 | 21.20 | 12' | | |
| MW-8 | 2 | | | | 17.18 | 39.81 | ↓ | | |
| | | | | | | | | | |
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ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|---|
| BTS #: <u>051021-PC2</u> | Station # <u>Area 2111</u> |
| Sampler: <u>pc</u> | Date: <u>10/21/05</u> |
| Well I.D.: <u>MW-1</u> | Well Diameter: 2 <u>3</u> <u>4</u> 6 8 |
| Total Well Depth: <u>26.23</u> | Depth to Water: <u>17.71</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>CSI</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius ² * 0.163 |

| | |
|--|--|
| Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____ | Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____ |
|--|--|

Top of Screen: 12.5 If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| _____ | X | _____ | = | _____ | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or µS) | Gals. Removed | Observations |
|-------------|-------------|------------|-------------------------------------|---------------|--------------|
| <u>1255</u> | <u>69.5</u> | <u>6.6</u> | <u>760</u> | - | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 1255 Sampling Date: 10/21/05

Sample I.D.: MW-1 Laboratory: Pace Sequima Other _____

Analyzed for: DRO BTEX MTBE DRO Chys 1,2-DCA EDB Ethanol Other: _____

| | | | | | |
|--------------------|------------|------|-------------|------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | 1.17 | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | | mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|----------------------------------|---|
| BTS #: <u>051021-PCZ</u> | Station # <u>Arco 2111</u> |
| Sampler: <u>pc</u> | Date: <u>10/21/05</u> |
| Well I.D.: <u>MW-2</u> | Well Diameter: 2 3 <u>4</u> 6 8 |
| Total Well Depth: _____ | Depth to Water: <u>1605</u> |
| Depth to Free Product: _____ | Thickness of Free Product (feet): _____ |
| Referenced to: <u>PV13</u> Grade | D.O. Meter (if req'd): <u>YS</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius ² * 0.163 |

Purge Method: Bailer
~~Disposable Bailer~~
~~Positive Air Displacement~~
~~Electric Submersible Extraction Pump~~
 Other: _____

Sampling Method: Bailer
~~Disposable Bailer~~
~~Extraction Port~~
 Other: _____

Top of Screen: 12' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| _____ | X | _____ | = | _____ | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|--|-------------|------------|---------------------------------|---------------|-------------------------------|
| <u>1358</u> | <u>72.1</u> | <u>6.4</u> | <u>676</u> | - | <u>Heavy sludge, gas odor</u> |
| | | | | | <u>Product like glob</u> |
| <u>SAMPLE NOT SUBMITTED DUE TO SPH</u> | | | | | |

| | |
|--|--|
| Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: _____ |
| Sampling Time: <u>1358</u> | Sampling Date: <u>10/21/05</u> |
| Sample I.D.: <u>MW-2</u> | Laboratory: Pace <u>Sequon</u> Other _____ |
| Analyzed for: GRO BTEX MTBE DRO Other: _____ | |
| D.O. (if req'd): | Pre-purge: _____ mg/L Post-purge: <u>0.59</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV Post-purge: _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| BTS #: <u>051021-09</u> | Station # <u>Arco 2111</u> |
| Sampler: <u>pc</u> | Date: <u>10/21/05</u> |
| Well I.D.: <u>MW-3</u> | Well Diameter: 2 3 <u>4</u> 6 8 _____ |
| Total Well Depth: <u>26.66</u> | Depth to Water: <u>17.41</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>VST</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius ² * 0.163 |

| | |
|---|--|
| Purge Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____ | Sampling Method: <input checked="" type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____ |
|---|--|

Top of Screen: 11.9' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

| | | | | |
|-----------------------|---|-------------------|---|-------------------|
| _____ | X | _____ | = | _____ Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume |

| Time | Temp (°F) | pH | Conductivity (mS or μ S) | Gals. Removed | Observations |
|------|-----------|-----|------------------------------|---------------|--------------|
| 1240 | 68.1 | 6.6 | 691 | - | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | |
|---|--|------------------------------|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: _____ | |
| Sampling Time: <u>1240</u> | Sampling Date: <u>10/21/05</u> | |
| Sample I.D.: <u>MW-3</u> | Laboratory: Pace <u>Sequon</u> Other _____ | |
| Analyzed for: GRO BTEX MTBE DRO Other: _____ | | |
| D.O. (if req'd): | Pre-purge: _____ mg/L | Post-purge: <u>1.90</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV | Post-purge: _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|--------------------------------|---------------------------------------|
| BTS #: 051021-PC2 | Station # Arco 2111 |
| Sampler: PC | Date: 10/21/05 |
| Well I.D.: MW-4 | Well Diameter: 2 3 ④ 6 8 |
| Total Well Depth: 21.66 | Depth to Water: 15.01 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PC</u> Grade | D.O. Meter (if req'd): <u>SD</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius ² * 0.163 |

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible
 Extraction Pump
 Other: _____

Top of Screen: 10' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| _____ | X | _____ | = | _____ | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>SD</u>) | Gals. Removed | Observations |
|------|-----------|-----|---------------------------------|---------------|--------------|
| 1200 | 68.6 | 7.6 | 765 | - | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 1200 Sampling Date: 10/21/05

Sample I.D.: MW-4 Laboratory: Pace Sequon Other _____

Analyzed for: GRO BTEX MTBE DRO Other: _____

| | | | | |
|--------------------|------------|------|-------------|-----------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | 1.24 mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|--------------------------------|---|
| BTS #: <u>051021-PC2</u> | Station # <u>Arco 2111</u> |
| Sampler: <u>PC</u> | Date: <u>10/21/05</u> |
| Well I.D.: <u>MW-5</u> | Well Diameter: <u>(2)</u> 3 4 6 8 _____ |
| Total Well Depth: <u>23-07</u> | Depth to Water: <u>15.57</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>02</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius ² * 0.163 |

| | |
|--|--|
| Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____ | Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____ |
|--|--|

Top of Screen: 9.4' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| _____ | X | _____ | = | _____ | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or µS) | Gals. Removed | Observations |
|-------------|-------------|------------|-------------------------------------|---------------|--------------|
| <u>1340</u> | <u>75.2</u> | <u>6-8</u> | <u>694</u> | — | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | |
|---------------------------------|---|
| Did well dewater? Yes No | Gallons actually evacuated: - |
| Sampling Time: <u>1340</u> | Sampling Date: <u>10/21/05</u> |
| Sample I.D.: <u>MW-5</u> | Laboratory: Pace <u>Sequoia</u> Other _____ |
| Analyzed for: GRO BTEX MTBE DRO | Other: _____ |
| D.O. (if req'd): | Pre-purge: _____ mg/L Post-purge: <u>1.53</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV Post-purge: _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| BTS #: <u>051021-PC2</u> | Station # <u>Arco 2111</u> |
| Sampler: <u>PC</u> | Date: <u>10/21/05</u> |
| Well I.D.: <u>MW-7</u> | Well Diameter: 2 3 <u>4</u> 6 8 _____ |
| Total Well Depth: <u>21.20</u> | Depth to Water: <u>1565</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVD</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius ² * 0.163 |

| | |
|---|---|
| Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____ | Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____ |
|---|---|

Top of Screen: 12' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

| | | | | |
|-----------------------|---|-------------------|---|-------------------|
| _____ | X | _____ | = | _____ Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume |

| Time | Temp (°F) | pH | Conductivity (mS or μ S) | Gals. Removed | Observations |
|-------------|-------------|------------|------------------------------|---------------|--------------|
| <u>1220</u> | <u>67.0</u> | <u>6.6</u> | <u>989</u> | - | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | |
|--|--|
| Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/> | Gallons actually evacuated: _____ |
| Sampling Time: <u>1220</u> | Sampling Date: <u>10/21/05</u> |
| Sample I.D.: <u>MW-7</u> | Laboratory: Pace <u>Sequon</u> Other _____ |
| Analyzed for: GRO BTEX MTBE DRO Other: _____ | |
| D.O. (if req'd): Pre-purge: _____ mg/L | Post-purge: <u>1.41</u> mg/L |
| O.R.P. (if req'd): Pre-purge: _____ mV | Post-purge: _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|----------------------------------|---|
| BTS #: <u>051021-PC2</u> | Station # <u>Arco 2111</u> |
| Sampler: <u>PC</u> | Date: <u>10/21/05</u> |
| Well I.D.: <u>MW-B</u> | Well Diameter: <u>2</u> 3 4 6 8 <u> </u> |
| Total Well Depth: <u>39.01</u> | Depth to Water: <u>17.10</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>(VC)</u> Grade | D.O. Meter (if req'd): <u>(V)</u> HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 1" | 0.04 | 4" | 0.63 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius ² * 0.163 |

| | |
|---|---|
| Purge Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____ | Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____ |
|---|---|

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>3.6</u> | x | <u>3</u> | = | <u>10.8</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or μ S) | Gals. Removed | Observations |
|-------------|-------------|------------|------------------------------|---------------|--------------|
| <u>1308</u> | <u>68.0</u> | <u>6.8</u> | <u>682 691</u> | <u>3.6</u> | |
| <u>1316</u> | <u>67.4</u> | <u>6.7</u> | <u>682</u> | <u>7.2</u> | |
| <u>1324</u> | <u>67.7</u> | <u>6.7</u> | <u>682</u> | <u>10.8</u> | |
| | | | | | |
| | | | | | |

| | |
|---|---|
| Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Gallons actually evacuated: <u>10.8</u> |
| Sampling Time: <u>1330</u> | Sampling Date: <u>10/21/05</u> |
| Sample I.D.: <u>MW-B</u> | Laboratory: Pace <u>Sequoia</u> Other _____ |

| | | |
|--|-----------------------|------------------------------|
| Analyzed for: GRO BTEX MTBE DRO Other: _____ | | |
| D.O. (if req'd): | Pre-purge: _____ mg/L | Post-purge: <u>1.40</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV | Post-purge: _____ mV |

BP GEM OIL COMPANY TYPE A BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE-WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is PLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

Arco 2111

Station #

1156 Davis St., San Leandro

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

10.8

added equip.

any other

rinse water 8.2

adjustments

TOTAL GALS.

loaded onto

RECOVERED 19

BTS vehicle # 5E

BTS event #

time

date

051021-PCZ

10/21/05

signature *P. H. Wain*

REC'D AT

time

date

BTS

/ /

unloaded by

signature *P. H. Wain*

ATTACHMENT B

**LABORATORY PROCEDURES,
CERTIFIED ANALYTICAL REPORTS,
AND CHAIN-OF-CUSTODY RECORDS**

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by RM have been reviewed and verified by that laboratory.



5 November, 2005

Scott Robinson
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: ARCO #2111, San Leandro, CA
Work Order: MOJ1232

Enclosed are the results of analyses for samples received by the laboratory on 10/24/05 16:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamshid Kekobad
Project Manager

CA ELAP Certificate #1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0004
Project Manager: Scott Robinson

MOJ1232
Reported:
11/05/05 10:07

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------|---------------|--------|----------------|----------------|
| MW-1 | MOJ1232-01 | Water | 10/21/05 12:55 | 10/24/05 16:04 |
| MW-3 | MOJ1232-02 | Water | 10/21/05 12:40 | 10/24/05 16:04 |
| MW-4 | MOJ1232-03 | Water | 10/21/05 12:08 | 10/24/05 16:04 |
| MW-5 | MOJ1232-04 | Water | 10/21/05 13:48 | 10/24/05 16:04 |
| MW-7 | MOJ1232-05 | Water | 10/21/05 12:20 | 10/24/05 16:04 |
| MW-8 | MOJ1232-06 | Water | 10/21/05 13:30 | 10/24/05 16:04 |
| TB211110212005 | MOJ1232-07 | Water | 10/21/05 00:00 | 10/24/05 16:04 |

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with intact custody seals.

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0004
Project Manager: Scott Robinson

MOJ1232
Reported:
11/05/05 10:07

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| MW-1 (MOJ1232-01) Water Sampled: 10/21/05 12:55 Received: 10/24/05 16:04 | | | | | | | | | |
| tert-Amyl methyl ether | ND | 25 | ug/l | 50 | 5K01032 | 11/01/05 | 11/02/05 | EPA 8260B | |
| Benzene | ND | 25 | " | " | " | " | " | " | |
| tert-Butyl alcohol | ND | 1000 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 25 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 25 | " | " | " | " | " | " | |
| 1,2-Dichloroethane | ND | 25 | " | " | " | " | " | " | |
| Ethanol | ND | 5000 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 25 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 25 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | 970 | 25 | " | " | " | " | " | " | |
| Toluene | ND | 25 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 25 | " | " | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 2500 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 107 % | | 60-135 | " | " | " | " | |
| MW-3 (MOJ1232-02) Water Sampled: 10/21/05 12:40 Received: 10/24/05 16:04 | | | | | | | | | |
| tert-Amyl methyl ether | 2.0 | 0.50 | ug/l | 1 | 5K02005 | 11/02/05 | 11/02/05 | EPA 8260B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethanol | ND | 100 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | 19 | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | 88 | 50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 89 % | | 60-135 | " | " | " | " | |

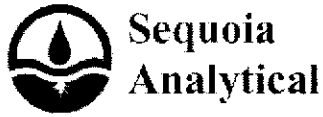
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0004
Project Manager: Scott Robinson

MOJ1232
Reported:
11/05/05 10:07

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|-------------|--------------------|--------|----------|---------|----------|----------|-----------|-------|
| MW-4 (MOJ1232-03) Water Sampled: 10/21/05 12:08 Received: 10/24/05 16:04 | | | | | | | | | |
| tert-Amyl methyl ether | 4.6 | 0.50 | ug/l | 1 | 5K02005 | 11/02/05 | 11/02/05 | EPA 8260B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethanol | ND | 100 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | 15 | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 93 % | 60-135 | " | " | " | " | " | |
| MW-5 (MOJ1232-04) Water Sampled: 10/21/05 13:48 Received: 10/24/05 16:04 | | | | | | | | | |
| tert-Amyl methyl ether | ND | 2.5 | ug/l | 5 | 5K01032 | 11/01/05 | 11/02/05 | EPA 8260B | |
| Benzene | ND | 2.5 | " | " | " | " | " | " | |
| tert-Butyl alcohol | 1400 | 100 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 2.5 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 2.5 | " | " | " | " | " | " | |
| 1,2-Dichloroethane | ND | 2.5 | " | " | " | " | " | " | |
| Ethanol | ND | 500 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 2.5 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 2.5 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | 86 | 2.5 | " | " | " | " | " | " | |
| Toluene | ND | 2.5 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.5 | " | " | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | ND | 250 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 109 % | 60-135 | " | " | " | " | " | |



URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

Project: ARCO #2111, San Leandro, CA
 Project Number: G0C28-0004
 Project Manager: Scott Robinson

MOJ1232
 Reported:
 11/05/05 10:07

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| MW-7 (MOJ1232-05) Water Sampled: 10/21/05 12:20 Received: 10/24/05 16:04 | | | | | | | | | |
| tert-Amyl methyl ether | ND | 100 | ug/l | 200 | 5K02005 | 11/02/05 | 11/02/05 | EPA 8260B | |
| Benzene | 350 | 100 | " | " | " | " | " | " | |
| tert-Butyl alcohol | 24000 | 4000 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 100 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 100 | " | " | " | " | " | " | |
| 1,2-Dichloroethane | ND | 100 | " | " | " | " | " | " | |
| Ethanol | ND | 20000 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 100 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 100 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | 12000 | 100 | " | " | " | " | " | " | PV |
| Toluene | ND | 100 | " | " | " | " | " | " | |
| Xylenes (total) | 110 | 100 | " | " | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | 14000 | 10000 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 96 % | 60-135 | " | " | " | " | " | |
| MW-8 (MOJ1232-06) Water Sampled: 10/21/05 13:30 Received: 10/24/05 16:04 | | | | | | | | | |
| tert-Amyl methyl ether | ND | 5.0 | ug/l | 10 | 5K01032 | 11/01/05 | 11/02/05 | EPA 8260B | |
| Benzene | ND | 5.0 | " | " | " | " | " | " | |
| tert-Butyl alcohol | ND | 200 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 5.0 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | " | " | " | " | " | " | |
| 1,2-Dichloroethane | ND | 5.0 | " | " | " | " | " | " | |
| Ethanol | ND | 1000 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 5.0 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 5.0 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | 490 | 5.0 | " | " | " | " | " | " | |
| Toluene | ND | 5.0 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 5.0 | " | " | " | " | " | " | |
| Gasoline Range Organics (C4-C12) | 530 | 500 | " | " | " | " | " | " | PV |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 105 % | 60-135 | " | " | " | " | " | |

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project: ARCO #2111, San Leandro, CA
 Project Number: G0C28-0004
 Project Manager: Scott Robinson

 MOJ1232
 Reported:
 11/05/05 10:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

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

Batch 5K01032 - EPA 5030B P/T / EPA 8260B
Blank (5K01032-BLK1)

Prepared & Analyzed: 11/01/05

| | | | | | | | | | | |
|---|------|------|------|------|--|-----|--------|--|--|--|
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| tert-Butyl alcohol | ND | 20 | " | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | " | | | | | | | |
| Ethanol | ND | 100 | " | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 2.57 | | " | 2.50 | | 103 | 60-135 | | | |

Laboratory Control Sample (5K01032-BS1)

Prepared & Analyzed: 11/01/05

| | | | | | | | | | | |
|---|------|------|------|------|--|-----|--------|--|--|----|
| tert-Amyl methyl ether | 18.0 | 0.50 | ug/l | 15.0 | | 120 | 80-115 | | | HL |
| Benzene | 5.12 | 0.50 | " | 5.16 | | 99 | 65-115 | | | |
| tert-Butyl alcohol | 194 | 20 | " | 143 | | 136 | 75-150 | | | |
| Di-isopropyl ether | 15.7 | 0.50 | " | 15.1 | | 104 | 75-125 | | | |
| 1,2-Dibromoethane (EDB) | 16.1 | 0.50 | " | 14.9 | | 108 | 85-120 | | | |
| 1,2-Dichloroethane | 16.0 | 0.50 | " | 14.7 | | 109 | 85-130 | | | |
| Ethanol | 200 | 100 | " | 142 | | 141 | 70-135 | | | HL |
| Ethyl tert-butyl ether | 17.8 | 0.50 | " | 15.0 | | 119 | 75-130 | | | |
| Ethylbenzene | 6.31 | 0.50 | " | 7.54 | | 84 | 75-135 | | | |
| Methyl tert-butyl ether | 6.91 | 0.50 | " | 7.02 | | 98 | 65-125 | | | |
| Toluene | 37.3 | 0.50 | " | 37.2 | | 100 | 85-120 | | | |
| Xylenes (total) | 38.3 | 0.50 | " | 41.2 | | 93 | 85-125 | | | |
| Gasoline Range Organics (C4-C12) | 547 | 50 | " | 440 | | 124 | 60-140 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 2.56 | | " | 2.50 | | 102 | 60-135 | | | |

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project: ARCO #2111, San Leandro, CA
 Project Number: G0C28-0004
 Project Manager: Scott Robinson

 MOJ1232
 Reported:
 11/05/05 10:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

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

Batch 5K01032 - EPA 5030B P/T / EPA 8260B

| Matrix Spike (5K01032-MS1) | Source: MOJ1232-01 | | | Prepared: 11/01/05 | | Analyzed: 11/02/05 | | | | |
|---|---------------------------|------|----------|---------------------------|------|---------------------------|---------------|--|--|----|
| tert-Amyl methyl ether | 960 | 25 | ug/l | 752 | 18 | 125 | 80-115 | | | HL |
| Benzene | 294 | 25 | " | 258 | 8.5 | 111 | 65-115 | | | |
| tert-Butyl alcohol | 11400 | 1000 | " | 7160 | ND | 159 | 75-120 | | | LM |
| Di-isopropyl ether | 808 | 25 | " | 756 | ND | 107 | 75-125 | | | |
| 1,2-Dibromoethane (EDB) | 840 | 25 | " | 744 | ND | 113 | 85-120 | | | |
| 1,2-Dichloroethane | 876 | 25 | " | 736 | ND | 119 | 85-130 | | | |
| Ethanol | 13300 | 5000 | " | 7080 | 2500 | 153 | 70-135 | | | HL |
| Ethyl tert-butyl ether | 922 | 25 | " | 752 | ND | 123 | 75-130 | | | |
| Ethylbenzene | 351 | 25 | " | 377 | ND | 93 | 75-135 | | | |
| Methyl tert-butyl ether | 1230 | 25 | " | 351 | 970 | 74 | 65-125 | | | |
| Toluene | 2030 | 25 | " | 1860 | ND | 109 | 85-120 | | | |
| Xylenes (total) | 2060 | 25 | " | 2060 | ND | 100 | 85-125 | | | |
| Gasoline Range Organics (C4-C12) | 30800 | 2500 | " | 22000 | 1500 | 133 | 60-140 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.46</i> | | <i>"</i> | <i>2.50</i> | | <i>98</i> | <i>60-135</i> | | | |

| Matrix Spike Dup (5K01032-MSD1) | Source: MOJ1232-01 | | | Prepared: 11/01/05 | | Analyzed: 11/02/05 | | | | |
|---|---------------------------|------|----------|---------------------------|------|---------------------------|---------------|---|----|----|
| tert-Amyl methyl ether | 947 | 25 | ug/l | 752 | 18 | 124 | 80-115 | 1 | 15 | HL |
| Benzene | 277 | 25 | " | 258 | 8.5 | 104 | 65-115 | 6 | 20 | |
| tert-Butyl alcohol | 11800 | 1000 | " | 7160 | ND | 165 | 75-120 | 3 | 25 | LM |
| Di-isopropyl ether | 808 | 25 | " | 756 | ND | 107 | 75-125 | 0 | 15 | |
| 1,2-Dibromoethane (EDB) | 806 | 25 | " | 744 | ND | 108 | 85-120 | 4 | 15 | |
| 1,2-Dichloroethane | 806 | 25 | " | 736 | ND | 110 | 85-130 | 8 | 20 | |
| Ethanol | 14500 | 5000 | " | 7080 | 2500 | 169 | 70-135 | 9 | 35 | HL |
| Ethyl tert-butyl ether | 902 | 25 | " | 752 | ND | 120 | 75-130 | 2 | 25 | |
| Ethylbenzene | 341 | 25 | " | 377 | ND | 90 | 75-135 | 3 | 15 | |
| Methyl tert-butyl ether | 1180 | 25 | " | 351 | 970 | 60 | 65-125 | 4 | 20 | LN |
| Toluene | 1910 | 25 | " | 1860 | ND | 103 | 85-120 | 6 | 20 | |
| Xylenes (total) | 1970 | 25 | " | 2060 | ND | 96 | 85-125 | 4 | 20 | |
| Gasoline Range Organics (C4-C12) | 29000 | 2500 | " | 22000 | 1500 | 125 | 60-140 | 6 | 25 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.33</i> | | <i>"</i> | <i>2.50</i> | | <i>93</i> | <i>60-135</i> | | | |

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #2111, San Leandro, CA
Project Number: G0C28-0004
Project Manager: Scott Robinson

MOJ1232
Reported:
11/05/05 10:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

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

Batch 5K02005 - EPA 5030B P/T / EPA 8260B

Blank (5K02005-BLK1)

Prepared & Analyzed: 11/02/05

| | | | | | | | | | | |
|---|-------------|------|----------|-------------|--|-----------|---------------|--|--|--|
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| tert-Butyl alcohol | ND | 20 | " | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | " | | | | | | | |
| Ethanol | ND | 100 | " | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.44</i> | | <i>"</i> | <i>2.50</i> | | <i>98</i> | <i>60-135</i> | | | |

Laboratory Control Sample (5K02005-BS2)

Prepared & Analyzed: 11/02/05

| | | | | | | | | | | |
|---|-------------|------|----------|-------------|-----------|---------------|--|--|--|----|
| tert-Amyl methyl ether | 17.8 | 0.50 | ug/l | 15.0 | 119 | 80-115 | | | | HL |
| Benzene | 5.04 | 0.50 | " | 5.16 | 98 | 65-115 | | | | |
| tert-Butyl alcohol | 206 | 20 | " | 143 | 144 | 75-150 | | | | |
| Di-isopropyl ether | 15.1 | 0.50 | " | 15.1 | 100 | 75-125 | | | | |
| 1,2-Dibromoethane (EDB) | 15.6 | 0.50 | " | 14.9 | 105 | 85-120 | | | | |
| 1,2-Dichloroethane | 15.6 | 0.50 | " | 14.7 | 106 | 85-130 | | | | |
| Ethanol | 332 | 100 | " | 142 | 234 | 70-135 | | | | HL |
| Ethyl tert-butyl ether | 17.6 | 0.50 | " | 15.0 | 117 | 75-130 | | | | |
| Ethylbenzene | 6.42 | 0.50 | " | 7.54 | 85 | 75-135 | | | | |
| Methyl tert-butyl ether | 6.92 | 0.50 | " | 7.02 | 99 | 65-125 | | | | |
| Toluene | 36.6 | 0.50 | " | 37.2 | 98 | 85-120 | | | | |
| Xylenes (total) | 38.1 | 0.50 | " | 41.2 | 92 | 85-125 | | | | |
| Gasoline Range Organics (C4-C12) | 528 | 50 | " | 440 | 120 | 60-140 | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.40</i> | | <i>"</i> | <i>2.50</i> | <i>96</i> | <i>60-135</i> | | | | |

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project: ARCO #2111, San Leandro, CA
 Project Number: G0C28-0004
 Project Manager: Scott Robinson

 MOJ1232
 Reported:
 11/05/05 10:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

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

Batch 5K02005 - EPA 5030B P/T / EPA 8260B

| Matrix Spike (5K02005-MS1) | Source: MOJ1233-02 | | | Prepared & Analyzed: 11/02/05 | | | | | | |
|---|---------------------------|-------|----------|--|-------|------------|---------------|--|--|----|
| tert-Amyl methyl ether | 1580 | 50 | ug/l | 1500 | ND | 105 | 80-115 | | | |
| Benzene | 651 | 50 | " | 516 | 230 | 82 | 65-115 | | | |
| tert-Butyl alcohol | 21400 | 2000 | " | 14300 | ND | 150 | 75-120 | | | LM |
| Di-isopropyl ether | 1360 | 50 | " | 1510 | ND | 90 | 75-125 | | | |
| 1,2-Dibromoethane (EDB) | 1420 | 50 | " | 1490 | ND | 95 | 85-120 | | | |
| 1,2-Dichloroethane | 1220 | 50 | " | 1470 | ND | 83 | 85-130 | | | LN |
| Ethanol | 24000 | 10000 | " | 14200 | 5400 | 131 | 70-135 | | | |
| Ethyl tert-butyl ether | 1530 | 50 | " | 1500 | ND | 102 | 75-130 | | | |
| Ethylbenzene | 1960 | 50 | " | 754 | 1500 | 61 | 75-135 | | | LN |
| Methyl tert-butyl ether | 576 | 50 | " | 702 | 12 | 80 | 65-125 | | | |
| Toluene | 3330 | 50 | " | 3720 | 160 | 85 | 85-120 | | | |
| Xylenes (total) | 10200 | 50 | " | 4120 | 7400 | 68 | 85-125 | | | LN |
| Gasoline Range Organics (C4-C12) | 72800 | 5000 | " | 44000 | 39000 | 77 | 60-140 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.78</i> | | <i>"</i> | <i>2.50</i> | | <i>111</i> | <i>60-135</i> | | | |

| Matrix Spike Dup (5K02005-MSD1) | Source: MOJ1233-02 | | | Prepared & Analyzed: 11/02/05 | | | | | | |
|---|---------------------------|-------|----------|--|-------|-----------|---------------|----|----|----|
| tert-Amyl methyl ether | 1720 | 50 | ug/l | 1500 | ND | 115 | 80-115 | 8 | 15 | |
| Benzene | 739 | 50 | " | 516 | 230 | 99 | 65-115 | 13 | 20 | |
| tert-Butyl alcohol | 22600 | 2000 | " | 14300 | ND | 158 | 75-120 | 5 | 25 | LM |
| Di-isopropyl ether | 1500 | 50 | " | 1510 | ND | 99 | 75-125 | 10 | 15 | |
| 1,2-Dibromoethane (EDB) | 1540 | 50 | " | 1490 | ND | 103 | 85-120 | 8 | 15 | |
| 1,2-Dichloroethane | 1330 | 50 | " | 1470 | ND | 90 | 85-130 | 9 | 20 | |
| Ethanol | 28100 | 10000 | " | 14200 | 5400 | 160 | 70-135 | 16 | 35 | HL |
| Ethyl tert-butyl ether | 1660 | 50 | " | 1500 | ND | 111 | 75-130 | 8 | 25 | |
| Ethylbenzene | 2260 | 50 | " | 754 | 1500 | 101 | 75-135 | 14 | 15 | |
| Methyl tert-butyl ether | 612 | 50 | " | 702 | 12 | 85 | 65-125 | 6 | 20 | |
| Toluene | 3790 | 50 | " | 3720 | 160 | 98 | 85-120 | 13 | 20 | |
| Xylenes (total) | 11600 | 50 | " | 4120 | 7400 | 102 | 85-125 | 13 | 20 | |
| Gasoline Range Organics (C4-C12) | 85900 | 5000 | " | 44000 | 39000 | 107 | 60-140 | 17 | 25 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>2.15</i> | | <i>"</i> | <i>2.50</i> | | <i>86</i> | <i>60-135</i> | | | |

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project:ARCO #2111, San Leandro, CA
Project Number:G0C28-0004
Project Manager:Scott Robinson

MOJ1232
Reported:
11/05/05 10:07

Notes and Definitions

PV Hydrocarbon result partly due to individ. peak(s) in quant. range

LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).

LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).

HL Analyte recovery above established limit

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Chain of Custody Record

Project Name: Analytical for QMR sampling
BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 2111 > Historical/BL
State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Francisco
Requested Due Date (mm/dd/yy): 10 Day TAT

| | |
|-----------------------------|------------|
| On-site Time: 1130 | Temp: 70°F |
| Off-site Time: 1415 | Temp: 75°F |
| Sky Conditions: clear | |
| Meteorological Events: none | |
| Wind Speed: | Direction: |

| | | |
|---|---|---|
| Lab Name: Sequoia | BP/AR Facility No.: 2111 | Consultant/Contractor: URS |
| Address: 885 Jarvis Drive Morgan Hill, CA 95037 | BP/AR Facility Address: 1156 Davis St, San Leandro, CA 94577 | Address: 1333 Broadway, Suite 800 Oakland, CA 94612 |
| Lab PM: Lisa Race / Jamshid Kekobad | California Global ID No.: T0600101764 | Consultant/Contractor Project No.: 38487022 |
| Tele/Fax: 408.782.8156 / 408.782.6308 | Enfos Project No.: GOC28-0004 | Consultant/Contractor PM: Scott Robinson |
| BP/AR PM Contact: Paul Supple | Provision or RCOP: Provision | Tele/Fax: 510.874.3280 / 510.874.3268 |
| Address: P.O. Box 6549 Moraga, CA 94570 | Phase/WBS: 04 - Mon/Remed by Natural Attenuation | Report Type & QC Level: Level 1 with EDF |
| Tele/Fax: 925.299.8891 / 925.299.8872 | Sub Phase/Task: 03 - Analytical | E-mail EDD To: Donna.Cosper@URSCorp.com |
| | Cost Element: 05 - Subcontracted Costs | Invoice to: Atlantic Richfield Company |

| Item No. | Sample Description | Time | Date | Matrix | | | Laboratory No. | No. of Containers | Preservative | | | | | Requested Analysis | | | | | Sample Point Lat/Long and Comments | | | | |
|----------|--------------------|-----------------|----------|--------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|----------|--------------------|-----------------------------------|----------------------|----------------|--|------------------------------------|--|--|--|--------------|
| | | | | Soil/Solid | Water/Liquid | Air | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | Methanol | GRO / BTEX (8260) | MTBE, TAME, ETBE, DPE, TBA (8260) | 1,2-DCA & EDB (8260) | ETHANOL (8260) | | | | | | |
| 1 | MW-1 | 1255 | 10/21/05 | X | | | 61 | 3 | | | | | | | | | | | | | | | |
| 2 | MW-2 | 1358 | | X | | | | 3 | | | | | | | | | | | | | | | mon 10/24/05 |
| 3 | MW-3 | 1240 | | X | | | 62 | 3 | | | | | | | | | | | | | | | |
| 4 | MW-4 | 1208 | | X | | | 63 | 3 | | | | | | | | | | | | | | | |
| 5 | MW-5 | 1348 | | X | | | 64 | 3 | | | | | | | | | | | | | | | |
| 6 | MW-7 | 1222 | | A | | | 65 | 3 | | | | | | | | | | | | | | | |
| 7 | MW-8 | 1330 | | A | | | 66 | 3 | | | | | | | | | | | | | | | |
| 8 | TB211110212005 | | | X | | | 67 | 2 | | | | | | | | | | | | | | | on hold |
| 9 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | |

M0J1232
 Sample Point Lat/Long and Comments

| | | | | | | |
|-----------------------------------|---------------------------------------|-----------------|--------------|-----------------------------------|-----------------|--------------|
| Sampler's Name: P. Lornish | Relinquished By / Affiliation: | Date: | Time: | Accepted By / Affiliation: | Date: | Time: |
| Sampler's Company: BTR | <i>P. Lornish</i> | <i>10/21/05</i> | <i>1456</i> | <i>[Signature]</i> | <i>10/21/05</i> | <i>1500</i> |
| Shipment Date: | <i>SAMPLES COSTUMAN</i> | <i>10/21/05</i> | <i>1400</i> | <i>[Signature]</i> | <i>10/21/05</i> | <i>1600</i> |
| Shipment Method: | <i>[Signature]</i> | <i>10/21/05</i> | <i>1604</i> | <i>[Signature]</i> | <i>10/21/05</i> | <i>16:00</i> |
| Shipment Tracking No.: | | | | | | |

Special Instructions:

Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt 4.1 °F/C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
 REC. BY (PRINT): Marcos
 WORKORDER: MOJ1232

DATE REC'D AT LAB: 10/24/05
 TIME REC'D AT LAB: 16:04
 DATE LOGGED IN: 10-25-05

For Regulatory Purposes?
 DRINKING WATER YES NO
 WASTE WATER YES NO

| CIRCLE THE APPROPRIATE RESPONSE | LAB SAMPLE # | DASH # | CLIENT ID | CONTAINER DESCRIPTION | PRESERVATIVE | pH | SAMPLE MATRIX | DATE SAMPLED | REMARKS: CONDITION (ETC.) |
|---|--------------|--------|-----------|-----------------------|--------------|----|---------------|--------------|---|
| 1. Custody Seal(s) <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent <input type="checkbox"/> Intact / <input type="checkbox"/> Broken* | | | | | | | | | ME 10/24/05 (A large diagonal line is drawn across the table from the bottom-left to the top-right.) |
| 2. Chain-of-Custody <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent* | | | | | | | | | |
| 3. Traffic Reports or Packing List: <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent | | | | | | | | | |
| 4. Airbill: <input type="checkbox"/> Airbill / <input type="checkbox"/> Sticker <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent | | | | | | | | | |
| 5. Airbill #: | | | | | | | | | |
| 6. Sample Labels: <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Absent | | | | | | | | | |
| 7. Sample IDs: <input checked="" type="checkbox"/> Listed / <input type="checkbox"/> Not Listed on Chain-of-Custody | | | | | | | | | |
| 8. Sample Condition: <input checked="" type="checkbox"/> Intact / <input type="checkbox"/> Broken* / <input type="checkbox"/> Leaking* | | | | | | | | | |
| 9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No* | | | | | | | | | |
| 10. Sample received within hold time? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No* | | | | | | | | | |
| 11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No* | | | | | | | | | |
| 12. Proper preservatives used? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No* | | | | | | | | | |
| 13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No* | | | | | | | | | |
| 14. Read Temp: <u>4.1</u> Corrected Temp: <u>4.1</u> Is corrected temp 4 +/-2°C? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No** <small>(Acceptance range for samples requiring thermal pres.)</small> | | | | | | | | | |

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

ATTACHMENT C

HISTORIC GROUNDWATER DATA

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents

ARCO Service Station 2111
1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | TPHC LUFT Method µg/L | Benzene EPA 8021B* µg/L | Toluene EPA 8021B* µg/L | Ethylbenzene EPA 8021B* µg/L | Total Xylenes EPA 8021B* µg/L | MTBE EPA 8021B* µg/L | MTBE EPA 8260 µg/L | TRPH EPA 418.1 µg/L | TPHD LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP |
|------------------|------------------------|-----------------------------------|------------------------|--------------------------------|---------------------------------|-------------------------|--------------------------|----------------------------|----------------------------|---------------------------------|----------------------------------|-------------------------|-----------------------|------------------------|--------------------------|--------------------------|-------------------------------|
| MW-1 | 08-01-95 | 39.60 | 17.45 | ND | 22.15 | 08-01-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | .. | | |
| MW-1 | 12-14-95 | 39.60 | 17.09 | ND | 22.51 | 12-14-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 03-21-96 | 39.60 | 14.72 | ND | 24.88 | 03-21-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 05-24-96 | 39.60 | 15.94 | ND | 23.66 | 05-24-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 08-09-96 | 39.60 | 17.89 | ND | 21.71 | 08-09-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 11-06-96 | 39.60 | 18.66 | ND | 20.94 | 11-06-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 03-24-97 | 39.60 | 16.13 | ND | 23.47 | 03-24-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 05-27-97 | 39.60 | 17.23 | ND | 22.37 | 05-28-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 08-07-97 | 39.60 | 18.68 | ND | 20.92 | 08-07-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 11-10-97 | 39.60 | 19.19 | ND | 20.41 | 11-10-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 02-16-98 | 39.60 | 12.61 | ND | 26.99 | 02-16-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 04-15-98 | 39.60 | 14.30 | ND | 25.30 | 04-15-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 07-24-98 | 39.60 | 16.40 | ND | 23.20 | 07-24-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 10-19-98 | 39.60 | 17.90 | ND | 21.70 | 10-19-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | .. | .. | .. | | |
| MW-1 | 01-28-99 | 39.60 | 16.85 | ND | 22.75 | 01-28-99 | <20,000 | 580 | <200 | <200 | 320 | 14,000 | .. | .. | .. | | |
| MW-1 | 06-25-99 | 39.60 | 17.35 | ND | 22.25 | 06-25-99 | 730 | 140 | 5 | 3 | 2 | 7,700 | .. | .. | .. | 0.79 | NP |
| MW-1 | 08-25-99 | 39.60 | 18.20 | ND | 21.40 | 08-25-99 | 390 | 66 | 8.5 | <2.5 | 8.6 | 3,700 | .. | .. | .. | 1.56 | NP |
| MW-1 | 11-10-99 | 39.60 | 17.77 | ND | 21.83 | 11-10-99 | 360 | 70 | 13 | 2.2 | 13 | 980 | .. | .. | .. | 0.30 | NP |
| MW-1 | 02-09-00 | 39.60 | 16.25 | ND | 23.35 | 02-09-00 | 190 | 4.5 | 0.9 | <0.5 | 12 | 3,500 | .. | .. | .. | 0.53 | NP |
| MW-2 | 08-01-95 | 37.99 | 15.67 | ND | 22.32 | 08-01-95 | 23,000 | 1,300 | 310 | 500 | 3,500 | .. | .. | .. | .. | | |
| MW-2 | 12-14-95 | 37.99 | 15.36 | ND | 22.63 | 12-14-95 | 7,300 | 900 | 25 | 180 | 1,000 | <200 | .. | .. | .. | | |
| MW-2 | 03-21-96 | 37.99 | 12.84 | ND | 25.15 | 03-21-96 | 9,600 | 850 | 30 | 280 | 1,400 | 250 | .. | .. | .. | | |
| MW-2 | 05-24-96 | 37.99 | 14.03 | ND | 23.96 | 05-24-96 | 2,300 | 300 | <5 | 73 | 310 | <25 | .. | .. | .. | | |
| MW-2 | 08-09-96 | 37.99 | 16.10 | ND | 21.89 | 08-09-96 | 2,800 | 290 | 6 | 75 | 320 | 50 | .. | .. | .. | | |

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents

ARCO Service Station 2111
1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | TPHC LUFT Method µg/L | Benzene EPA 8021B* µg/L | Toluene EPA 8021B* µg/L | Ethylbenzene EPA 8021B* µg/L | Total Xylenes EPA 8021B* µg/L | MTBE EPA 8021B* µg/L | MTBE EPA 8260 µg/L | TRPH EPA 418.1 µg/L | TPHD LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP |
|------------------|------------------------|--------------------------------|---------------------|-----------------------------|------------------------------|-------------------------|-----------------------|-------------------------|-------------------------|------------------------------|-------------------------------|----------------------|--------------------|---------------------|-----------------------|-----------------------|-------------------------|
| MW-2 | 11-06-96 | 37.99 | 16.98 | ND | 21.01 | 11-06-96 | 750 | 76 | <Δ | 15 | 51 | 110 | .. | .. | .. | | |
| MW-2 | 03-24-97 | 37.99 | 14.22 | ND | 23.77 | 03-24-97 | 790 | 18 | <Δ | 2 | 6 | 280 | .. | .. | .. | | |
| MW-2 | 05-27-97 | 37.99 | 15.42 | ND | 22.57 | 05-28-97 | 750 | 14 | <Δ | <Δ | 10 | 150 | .. | .. | .. | | |
| MW-2 | 08-07-97 | 37.99 | 16.92 | ND | 21.07 | 08-07-97 | 360 | 31 | <Δ.5 | <Δ.5 | 15 | 260 | .. | .. | .. | | |
| MW-2 | 11-10-97 | 37.99 | 17.52 | ND | 20.47 | 11-10-97 | 1,300 | 82 | <Δ | 14 | 49 | 550 | .. | .. | .. | | |
| MW-2 | 02-16-98 | 37.99 | 12.04 | ND | 25.95 | 02-16-98 | <Δ.500 | <Δ.25 | <Δ.25 | <Δ.25 | <Δ.25 | 4,200 | .. | .. | .. | | |
| MW-2 | 04-15-98 | 37.99 | 12.34 | ND | 25.65 | 04-15-98 | <Δ10,000 | <Δ100 | <Δ100 | <Δ100 | <Δ100 | 7,300 | .. | .. | .. | | |
| MW-2 | 07-24-98 | 37.99 | 14.45 | ND | 23.54 | 07-24-98 | <Δ.500 | <Δ.25 | <Δ.25 | <Δ.25 | <Δ.25 | 1,500 | .. | .. | .. | | |
| MW-2 | 10-19-98 | 37.99 | 16.08 | ND | 21.91 | 10-19-98 | <Δ1,000 | 18 | <Δ10 | <Δ10 | <Δ10 | 1,100 | .. | .. | .. | | |
| MW-2 | 01-28-99 | 37.99 | 15.59 | 0.02 | 22.41 [1] | 01-28-99 | 160,000 | 3,000 | 24,000 | 4,400 | 31,000 | 23,000 | .. | .. | .. | | |
| MW-2 | 06-25-99 | 37.99 | 19.20 | 3.73[4] | 21.51 [1] | 06-25-99 | 120,000 | 6,900 | 21,000 | 2,600 | 19,000 | 18,000 | 17,000[3] | .. | .. | 0.49 | NP |
| MW-2 | 08-25-99 | 37.99 | 16.49 | 0.02 | 21.51 [1] | 08-25-99 | 92,000 | 2,200 | 16,000 | 3,200 | 19,000 | 11,000 | 9,400[3] | .. | .. | 0.84 | NP |
| MW-2 | 11-10-99 | 37.99 | 16.08 | ND | 21.91 | 11-10-99 | 56,000 | 2,400 | 5,900 | 1,500 | 10,000 | 17,000 | 21,000[3] | .. | .. | 0.41 | NP |
| MW-2 | 02-09-00 | 37.99 | 14.85 | ND | 23.14 | 02-09-00 | 1,700 | 270 | 14 | 17 | 21 | 70,000 | 55,000[3] | .. | .. | 0.97 | NP |
| MW-3 | 08-01-95 | 39.32 | 17.00 | ND | 22.32 | 08-01-95 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | .. | .. | 600 | 76[2] | | |
| MW-3 | 12-14-95 | 39.32 | 16.70 | ND | 22.62 | 12-14-95 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ | .. | <Δ500 | <Δ50 | | |
| MW-3 | 03-21-96 | 39.32 | 14.17 | ND | 25.15 | 03-21-96 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ | .. | <Δ500 | <Δ50 | | |
| MW-3 | 05-24-96 | 39.32 | 15.30 | ND | 24.02 | 05-24-96 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ | .. | <Δ500 | <Δ50 | | |
| MW-3 | 08-09-96 | 39.32 | 17.58 | ND | 21.74 | 08-09-96 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ | .. | <Δ500 | .. | | |
| MW-3 | 11-06-96 | 39.32 | 18.33 | ND | 20.99 | 11-06-96 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ | .. | .. | .. | | |
| MW-3 | 03-24-97 | 39.32 | 15.44 | ND | 23.88 | 03-24-97 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ | .. | .. | .. | | |
| MW-3 | 05-27-97 | 39.32 | 16.75 | ND | 22.57 | 05-28-97 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ | .. | .. | .. | | |
| MW-3 | 08-07-97 | 39.32 | 18.35 | ND | 20.97 | 08-07-97 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ | .. | .. | .. | | |
| MW-3 | 11-10-97 | 39.32 | 18.83 | ND | 20.49 | 11-10-97 | <Δ50 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ.5 | <Δ | .. | .. | .. | | |

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents

ARCO Service Station 2111
1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | TPHG | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | MTBE | TPPH | TPHD | Dissolved Oxygen mg/L | Purged/Not Purged P/NP |
|------------------|------------------------|--------------------------------|---------------------|-----------------------------|------------------------------|-------------------------|-------------|------------|------------|--------------|---------------|------------|----------|-----------|-------------|-----------------------|------------------------|
| | | | | | | | LOFT Method | EPA 8021B* | EPA 8021B* | EPA 8021B* | EPA 8021B* | EPA 8021B* | EPA 8260 | EPA 418.1 | LOFT Method | | |
| | | | | | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | | |
| MW-3 | 02-16-98 | 39.32 | 11.99 | ND | 27.33 | 02-16-98 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-3 | 04-15-98 | 39.32 | 13.75 | ND | 25.57 | 04-15-98 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-3 | 07-24-98 | 39.32 | 15.90 | ND | 23.42 | 07-24-98 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-3 | 10-19-98 | 39.32 | 17.45 | ND | 21.87 | 10-19-98 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-3 | 01-28-99 | 39.32 | 16.40 | ND | 22.92 | 01-28-99 | <100 | 14 | 4 | <6.5 | <6.5 | 100 | .. | .. | .. | | |
| MW-3 | 06-25-99 | 39.32 | 17.92 | ND | 21.40 | 06-25-99 | 83 | 9.0 | 1.4 | <6.5 | 2.5 | 220 | .. | .. | .. | 1.11 | NP |
| MW-3 | 08-25-99 | 39.32 | 17.79 | ND | 21.53 | 08-25-99 | 240 | 41 | 12 | 3.7 | 9.9 | 160 | .. | .. | .. | 1.13 | NP |
| MW-3 | 11-10-99 | 39.32 | 17.37 | ND | 21.95 | 11-10-99 | 620 | 100 | 9.7 | 4.1 | 21 | 150 | .. | .. | .. | 0.24 | NP |
| MW-3 | 02-09-00 | 39.32 | 15.77 | ND | 23.55 | 02-09-00 | <60 | <6.5 | 0.7 | <6.5 | <6.5 | 180 | .. | .. | .. | 0.62 | NP |
| MW-4 | 08-01-95 | 38.10 | 15.65 | ND | 22.45 | 08-01-95 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | .. | | |
| MW-4 | 12-14-95 | 38.10 | 15.35 | ND | 22.75 | 12-14-95 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 03-21-96 | 38.10 | 12.74 | ND | 25.36 | 03-21-96 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 05-24-96 | 38.10 | 14.03 | ND | 24.07 | 05-24-96 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 08-09-96 | 38.10 | 16.10 | ND | 22.00 | 08-09-96 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 11-06-96 | 38.10 | 17.00 | ND | 21.10 | 11-06-96 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 03-24-97 | 38.10 | 14.21 | ND | 23.89 | 03-24-97 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 05-27-97 | 38.10 | 15.38 | ND | 22.72 | 05-28-97 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 08-07-97 | 38.10 | 16.95 | ND | 21.15 | 08-07-97 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 11-10-97 | 38.10 | 17.53 | ND | 20.57 | 11-10-97 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 02-16-98 | 38.10 | 10.65 | ND | 27.45 | 02-16-98 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 04-15-98 | 38.10 | 12.20 | ND | 25.90 | 04-15-98 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 07-24-98 | 38.10 | 14.47 | ND | 23.63 | 07-24-98 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 10-19-98 | 38.10 | 16.20 | ND | 21.90 | 10-19-98 | <60 | <6.5 | <6.5 | <6.5 | <6.5 | <6.5 | .. | .. | .. | | |
| MW-4 | 01-28-99 | 38.10 | 15.02 | ND | 23.08 | 01-28-99 | 340 | 52 | 5.5 | <6.5 | 74 | 31 | .. | .. | .. | | |

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents

ARCO Service Station 2111
1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | TPHC LUFT Method µg/L | Benzene EPA 8021B* µg/L | Toluene EPA 8021B* µg/L | Ethylbenzene EPA 8021B* µg/L | Total Xylenes EPA 8021B* µg/L | MTBE EPA 8021B* µg/L | MTBE EPA 8260 µg/L | TRPH EPA 418.1 µg/L | TPHD LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP |
|------------------|------------------------|--------------------------------|---------------------|-----------------------------|------------------------------|-------------------------|-----------------------|-------------------------|-------------------------|------------------------------|-------------------------------|----------------------|--------------------|---------------------|-----------------------|-----------------------|-------------------------|
| MW-4 | 06-25-99 | 38.10 | 15.57 | ND | 22.53 | 06-25-99 | 510 | 78 | 4.1 | 0.5 | 18 | 94 | .. | .. | .. | 0.90 | NP |
| MW-4 | 08-25-99 | 38.10 | 16.43 | ND | 21.67 | 08-25-99 | 660 | 130 | 21 | 6.4 | 39 | 110 | .. | .. | .. | 1.01 | NP |
| MW-4 | 11-10-99 | 38.10 | 16.02 | ND | 22.08 | 11-10-99 | 510 | 98 | 5.1 | 3.1 | 15 | 69 | .. | .. | .. | 0.28 | NP |
| MW-4 | 02-09-00 | 38.10 | 14.30 | ND | 23.80 | 02-09-00 | <50 | <0.5 | 0.9 | <0.5 | <1 | 55 | .. | .. | .. | 0.67 | NP |
| MW-5 | 03-21-96 | 37.21 | 12.60 | ND | 24.61 | 03-22-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 82 | .. | .. | .. | .. | .. |
| MW-5 | 05-24-96 | 37.21 | 13.71 | ND | 23.50 | 05-24-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 7 | .. | .. | .. | .. | .. |
| MW-5 | 08-09-96 | 37.21 | 15.60 | ND | 21.61 | 08-09-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 8 | .. | .. | .. | .. | .. |
| MW-5 | 11-06-96 | 37.21 | 16.36 | ND | 20.85 | 11-06-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 100 | .. | .. | .. | .. | .. |
| MW-5 | 03-24-97 | 37.21 | 13.87 | ND | 23.34 | 03-24-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 460 | .. | .. | .. | .. | .. |
| MW-5 | 05-27-97 | 37.21 | 14.71 | ND | 22.50 | 05-28-97 | <100 | <1 | <1 | <1 | <1 | 120 | .. | .. | .. | .. | .. |
| MW-5 | 08-07-97 | 37.21 | 16.90 | ND | 20.31 | 08-07-97 | <250 | <0.5 | <2.5 | <2.5 | <2.5 | 250 | .. | .. | .. | .. | .. |
| MW-5 | 11-10-97 | 37.21 | 16.38 | ND | 20.33 | 11-10-97 | <1,000 | <10 | <10 | <10 | <10 | 770 | .. | .. | .. | .. | .. |
| MW-5 | 02-16-98 | 37.21 | 10.56 | ND | 26.65 | 02-16-98 | <200 | <1 | <1 | <1 | <1 | 230 | .. | .. | .. | .. | .. |
| MW-5 | 04-15-98 | 37.21 | 12.20 | ND | 25.01 | 04-15-98 | <500 | <1 | <1 | <1 | <1 | 900 | .. | .. | .. | .. | .. |
| MW-5 | 07-24-98 | 37.21 | 14.20 | ND | 23.01 | 07-24-98 | <500 | <1 | <1 | <1 | <1 | 570 | .. | .. | .. | .. | .. |
| MW-5 | 10-19-98 | 37.21 | 15.74 | ND | 21.47 | 10-19-98 | <250 | <1.5 | <1.5 | <1.5 | <1.5 | 300 | .. | .. | .. | .. | .. |
| MW-5 | 01-28-99 | 37.21 | 14.60 | ND | 22.61 | 01-28-99 | <500 | 8 | <1 | <1 | <1 | 290 | .. | .. | .. | .. | .. |
| MW-5 | 06-25-99 | 37.21 | 15.10 | ND | 22.11 | 06-25-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1,300 | .. | .. | .. | 0.76 | NP |
| MW-5 | 08-25-99 | 37.21 | 15.91 | ND | 21.30 | 08-25-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6,700 | .. | .. | .. | 0.98 | NP |
| MW-5 | 11-10-99 | 37.21 | 15.32 | ND | 21.69 | 11-10-99 | 130 | 2.0 | 7.0 | 1.3 | 21 | 5,000 | .. | .. | .. | 0.21 | NP |
| MW-5 | 02-09-00 | 37.21 | 14.03 | ND | 23.18 | 02-09-00 | 92 | <0.5 | 0.8 | <0.5 | 1.0 | 7,900 | .. | .. | .. | 0.51 | NP |
| MW-6 | 03-21-96 | 37.11 | 11.55 | ND | 25.56 | 03-22-96 | <50 | <0.5 | 1.9 | <0.5 | <0.5 | <1 | .. | .. | .. | .. | .. |
| MW-6 | 05-24-96 | 37.11 | 12.80 | ND | 24.31 | 05-24-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6 | .. | .. | .. | .. | .. |

Table 1
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Petroleum Hydrocarbons and Their Constituents

ARCO Service Station 2111
1156 Davis Street, San Leandro, California

| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | TPHG LUFT Method µg/L | Benzene EPA 8021B* µg/L | Toluene EPA 8021B* µg/L | Ethylbenzene EPA 8021B* µg/L | Total Xylenes EPA 8021B* µg/L | MTBE EPA 8021B* µg/L | MTBE EPA 8260 µg/L | TRPH EPA 418.1 µg/L | TPHD LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP | |
|------------------|------------------------|-----------------------------------|------------------------|--------------------------------|---------------------------------|-------------------------|---------------------------------|----------------------------|----------------------------|---------------------------------|----------------------------------|-------------------------|-----------------------|------------------------|--------------------------|--------------------------|-------------------------------|--|
| MW-6 | 08-09-96 | 37.11 | Not surveyed | | | 08-09-96 | Not sampled: Car parked on well | | | | | | | | | | | |
| MW-6 | 11-06-96 | 37.11 | Not surveyed | | | 11-06-96 | Not sampled: Car parked on well | | | | | | | | | | | |
| MW-6 | 03-24-97 | 37.11 | 13.06 | ND | 24.05 | 03-24-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | Δ | :: | :: | :: | | | |
| MW-6 | 05-27-97 | 37.11 | 14.30 | ND | 22.81 | 05-28-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | Δ | Δ | Δ | Δ | | | |
| MW-6 | 08-07-97 | 37.11 | 16.40 | ND | 20.71 | 08-07-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | Δ | Δ | Δ | Δ | | | |
| MW-6 | 11-10-97 | 37.11 | 16.53 | ND | 20.58 | 11-10-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | Δ | Δ | Δ | Δ | | | |
| MW-6 | 02-16-98 | 37.11 | Not surveyed | | | 02-16-98 | Not sampled: Car parked on well | | | | | | | | | | | |
| MW-6 | 04-15-98 | 37.11 | 10.95 | ND | 26.16 | 04-15-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | Δ | Δ | Δ | Δ | | | |
| MW-6 | 07-24-98 | 37.11 | 13.30 | ND | 23.81 | 07-24-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | Δ | Δ | Δ | Δ | | | |
| MW-6 | 10-19-98 | 37.11 | Not surveyed | | | 10-19-98 | Not sampled: Car parked on well | | | | | | | | | | | |
| MW-6 | 01-28-99 | 37.11 | 13.92 | ND | 23.19 | 01-28-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | Δ | Δ | Δ | Δ | | | |
| MW-6 | 06-25-99 | 37.11 | 15.47 | ND | 21.64 | 06-25-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | Δ | Δ | Δ | Δ | 0.74 | NP | |
| MW-6 | 08-25-99 | 37.11 | 15.39 | ND | 21.72 | 08-25-99 | <50 | <0.5 | 3.4 | 0.6 | 3.7 | Δ | Δ | Δ | Δ | 0.92 | NP | |
| MW-6 | 11-10-99 | 37.11 | 14.92 | ND | 22.19 | 11-10-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | Δ | Δ | Δ | Δ | 0.31 | NP | |
| MW-6 | 02-09-00 | 37.11 | 13.30 | ND | 23.81 | 02-09-00 | <50 | <0.5 | 0.9 | <0.5 | 1.3 | Δ | Δ | Δ | Δ | 0.79 | NP | |
| MW-7 | 03-21-96 | 38.68 | 13.32 | ND | 25.36 | 03-22-96 | 32,000 | 870 | 450 | 970 | 4,900 | 280 | :: | :: | :: | | | |
| MW-7 | 05-24-96 | 38.68 | 14.58 | ND | 24.10 | 05-24-96 | 22,000 | 570 | 40 | 42 | 1,900 | <200[2] | :: | :: | :: | | | |
| MW-7 | 08-09-96 | 38.68 | 15.33 | ND | 23.35 | 08-09-96 | 14,000 | 390 | <10 | 180 | 470 | <200[2] | :: | :: | :: | | | |
| MW-7 | 11-06-96 | 38.68 | 16.95 | ND | 21.73 | 11-06-96 | 9,500 | 440 | <10 | 210 | 150 | <100[2] | :: | :: | :: | | | |
| MW-7 | 03-24-97 | 38.68 | 14.65 | ND | 24.03 | 03-24-97 | 6,400 | 420 | <10 | 260 | 13 | 480 | :: | :: | :: | | | |
| MW-7 | 05-27-97 | 38.68 | 15.58 | ND | 23.10 | 05-28-97 | 5,000 | 420 | <5 | 230 | 10 | 460 | :: | :: | :: | | | |
| MW-7 | 08-07-97 | 38.68 | 17.10 | ND | 21.58 | 08-07-97 | 3,900 | 350 | <5 | 200 | 10 | 330 | :: | :: | :: | | | |
| MW-7 | 11-10-97 | 38.68 | 18.05 | ND | 20.63 | 11-10-97 | 5,600 | 390 | 10 | 370 | 43 | 540 | :: | :: | :: | | | |
| MW-7 | 02-16-98 | 38.68 | 12.03 | ND | 26.63 | 02-16-98 | <5,000 | 390 | <50 | <50 | 61 | 4,300 | :: | :: | :: | | | |

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Petroleum Hydrocarbons and Their Constituents

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| Well Designation | Water Level Field Date | Top of Casing Elevation ft-MSL | Depth to Water feet | Free Product Thickness feet | Groundwater Elevation ft-MSL | Water Sample Field Date | TPHG LUFT Method µg/L | Benzene EPA 8021B* µg/L | Toluene EPA 8021B* µg/L | Ethylbenzene EPA 8021B* µg/L | Total Xylenes EPA 8021B* µg/L | MTBE EPA 8021B* µg/L | MTBE EPA 8260 µg/L | TRPH EPA 418.1 µg/L | TPHD LUFT Method µg/L | Dissolved Oxygen mg/L | Purged/ Not Purged P/NP |
|------------------|------------------------|-----------------------------------|------------------------|--------------------------------|---------------------------------|-------------------------|-----------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|-------------------------------|
| MW-7 | 04-15-98 | 38.68 | 13.02 | ND | 25.66 | 04-15-98 | <10,000 | <100 | <100 | <100 | <100 | 8,900 | -- | -- | -- | | |
| MW-7 | 07-24-98 | 38.68 | 14.18 | ND | 24.50 | 07-24-98 | 5,800 | 180 | <50 | 74 | <50 | 4,200 | -- | -- | -- | | |
| MW-7 | 10-19-98 | 38.68 | 15.99 | ND | 22.69 | 10-19-98 | <2,500 | 54 | <25 | 72 | <25 | 3,000 | -- | -- | -- | | |
| MW-7 | 01-28-99 | 38.68 | 15.69 | ND | 22.99 | 01-28-99 | 4,500 | 360 | 250 | <50 | 94 | 6,200 | -- | -- | -- | | |
| MW-7 | 06-25-99 | 38.68 | 15.36 | ND | 23.32 | 06-25-99 | 3,900 | 520 | 160 | 46 | 100 | 45,000 | 63,000[3] | -- | -- | 0.56 | NP |
| MW-7 | 08-25-99 | 38.68 | 16.71 | ND | 21.97 | 08-25-99 | 3,400 | 730 | 77 | 51 | 110 | 62,000 | 76,000[3] | -- | -- | 0.90 | NP |
| MW-7 | 11-10-99 | 38.68 | 16.76 | ND | 21.92 | 11-10-99 | 15,000 | 340 | 19 | 13 | 20 | 55,000 | 91,000[3] | -- | -- | 0.37 | NP |
| MW-7 | 02-09-00 | 38.68 | 14.45 | 0.03 | 24.25 [1] | 02-09-00 | Not sampled: free product present | | | | | | | | | | |

R-MSL: elevation in feet, relative to mean sea level
 TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method
 MTBE: Methyl tert-butyl ether
 TRPH: total recoverable petroleum hydrocarbons
 TPHD: total petroleum hydrocarbons as diesel, California DHS LUFT Method
 *: EPA method 8020 prior to 11/10/99
 EPA: United States Environmental Protection Agency
 µg/L: micrograms per liter
 mg/L: milligrams per liter
 ND: none detected
 - : not available or not analyzed
 <: less than laboratory detection limit stated to the right
 [1]: [corrected elevation (Z')] = Z + (h * 0.73) where: Z = measured elevation, h = floating product thickness, 0.73 = density ratio of oil to water
 [2]: chromatogram fingerprint is not characteristic of diesel
 [3]: also analyzed for fuel oxygenates
 [4]: this value is suspected to be erroneous based on subsequent check by bailer (following day). See discussion

**Table 2
Groundwater Flow Direction and Gradient**

**ARCO Service Station 2111
1156 Davis Street, San Leandro, California**

| Date Measured | Average Flow Direction | Average Hydraulic Gradient |
|----------------------|-------------------------------|-----------------------------------|
| 08-01-95 | NR | NR |
| 12-14-95 | West | 0.002 |
| 03-21-96 | West-Southwest | 0.005 |
| 05-24-96 | West | 0.003 |
| 08-09-96 | West-Northwest | 0.01 |
| 11-06-96 | West-Northwest | 0.007 |
| 03-24-97 | West | 0.005 |
| 05-27-97 | North-Northwest | 0.006 |
| 08-07-97 | West | 0.009 |
| 11-10-97 | West | 0.002 |
| 02-16-98 | South-Southwest | 0.013 |
| 04-15-98 | West-Southwest | 0.014 |
| 07-24-98 | Northwest | 0.01 |
| 10-19-98 | West | 0.008 |
| 01-28-99 | Southwest | 0.01 |
| 06-25-99 | North-Northwest | 0.017 |
| 08-25-99 | West-Northwest | 0.005 |
| 11-10-99 | West-Southwest | 0.002 |
| 02-09-00 | West-Northwest | 0.015 |

NR: not recorded

ATTACHMENT D

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|--|---|
| ARCO # 02111 1156 DAVIS ST SAN LEANDRO, CA 94577 | <u>Regional Board - Case #: 01-1903</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) <u>Local Agency (lead agency) - Case #: 744</u> ALAMEDA COUNTY LOP - (AG) |
|--|---|

SAMPLE DETECTIONS REPORT

| | |
|---|-------|
| # FIELD POINTS SAMPLED | 6 |
| # FIELD POINTS WITH DETECTIONS | 6 |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 4 |
| SAMPLE MATRIX TYPES | WATER |

METHOD QA/QC REPORT

| | |
|---------------------------------------|--------|
| METHODS USED | 8260FA |
| TESTED FOR REQUIRED ANALYTES? | N |
| MISSING PARAMETERS NOT TESTED: | |
| - 8260FA REQUIRES DBFM TO BE TESTED | |
| - 8260FA REQUIRES BR4FBZ TO BE TESTED | |
| - 8260FA REQUIRES BZMED8 TO BE TESTED | |
| LAB NOTE DATA QUALIFIERS | Y |

QA/QC FOR 8021/8260 SERIES SAMPLES

| | |
|---|---|
| TECHNICAL HOLDING TIME VIOLATIONS | 0 |
| METHOD HOLDING TIME VIOLATIONS | 0 |
| LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT | 0 |
| LAB BLANK DETECTIONS | 0 |
| DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? | |
| - LAB METHOD BLANK | Y |
| - MATRIX SPIKE | Y |
| - MATRIX SPIKE DUPLICATE | Y |
| - BLANK SPIKE | Y |
| - SURROGATE SPIKE | Y |

WATER SAMPLES FOR 8021/8260 SERIES

| | |
|---|---|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | N |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% | Y |
| SURROGATE SPIKES % RECOVERY BETWEEN 85-115% | Y |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% | N |

SOIL SAMPLES FOR 8021/8260 SERIES

| | |
|---|-----|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% | n/a |
| SURROGATE SPIKES % RECOVERY BETWEEN 70-125% | n/a |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% | n/a |

FIELD QC SAMPLES

| <u>SAMPLE</u> | <u>COLLECTED</u> | <u>DETECTIONS > REPD</u> |
|---------------|------------------|-----------------------------|
| QCTB SAMPLES | N | 0 |
| QCEB SAMPLES | N | 0 |
| QCAB SAMPLES | N | 0 |

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Confirmation Number: 5789206504

Date/Time of Submittal: 11/30/2005 10:56:19 AM

Facility Global ID: T0600101764

Facility Name: ARCO # 02111

Submittal Title: 4Q 2005 BP/ARCO 2111 EDF

Submittal Type: GW Monitoring Report

Click [here](#) to view the detections report for this upload.

| | |
|---|---|
| ARCO # 02111 1156 DAVIS ST SAN LEANDRO, CA 94577 | Regional Board - Case #: 01-1903 SAN FRANCISCO BAY RWQCB (REGION 2) - (RDB) Local Agency (lead agency) - Case #: 744 ALAMEDA COUNTY LOP - (AG) |
|---|---|

| CONF # | TITLE | QUARTER |
|---------------|--------------------------|----------------|
| 5789206504 | 4Q 2005 BP/ARCO 2111 EDF | Q4 2005 |
| SUBMITTED BY | SUBMIT DATE | STATUS |
| Srijesh Thapa | 11/30/2005 | PENDING REVIEW |

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QA/QC FOR 8021/8260 SERIES SAMPLES

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| METHOD HOLDING TIME VIOLATIONS | 0 |
| LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT | 0 |
| LAB BLANK DETECTIONS | 0 |
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| - LAB METHOD BLANK | Y |
| - MATRIX SPIKE | Y |
| - MATRIX SPIKE DUPLICATE | Y |
| - BLANK SPIKE | Y |
| - SURROGATE SPIKE | Y |

WATER SAMPLES FOR 8021/8260 SERIES

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|---|---|
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| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% | N |

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| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% | n/a |
| SURROGATE SPIKES % RECOVERY BETWEEN 70-125% | n/a |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% | n/a |

FIELD QC SAMPLES

| <u>SAMPLE</u> | <u>COLLECTED</u> | <u>DETECTIONS > REPD L</u> |
|---------------|------------------|-------------------------------|
| QCTB SAMPLES | N | 0 |
| QCEB SAMPLES | N | 0 |
| QCAB SAMPLES | N | 0 |

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