



Atlantic Richfield Company (a BP affiliated company)

P.O. Box 6549 Moraga, California 94570 Phone: (925) 299-8891 Fax: (925) 299-8872 **RECEIVED** By lopprojectop at 9:54 am, Apr 17, 2006

March 31, 2006

Re: ARCO Service Station # 2169 889 West Grand Avenue Oakland, California First Quarter 2006 Groundwater Monitoring Report ACEH Case # 3793

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supple



March 31, 2006

Mr. Don Hwang Alameda County Environmental Health (ACEH) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: First Quarter 2006 Groundwater Monitoring Report ARCO Service Station #2169 889 West Grand Avenue Oakland, California ACEH Case #3793

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *First Quarter 2006 Groundwater Monitoring Report* for ARCO Service Station #2169, located at 889 West Grand Avenue, Oakland, California.

If you have any questions regarding this submission, please call at (510) 874-3296.

Sincerely,

URS CORPORATION

Barbara Barbara Jakub

Project Manager

Enclosure: First Quarter 2006 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS Mr. Rob Miller, Broadbent & Associates, Inc., electronic copy uploaded to ENFOS

URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612-1924 Tel: 510.893.3600 Fax: 510.874.3268



REPORT

**RECEIVED** By lopprojectop at 9:54 am, Apr 17, 2006

## FIRST QUARTER 2006 GROUNDWATER MONITORING REPORT

## ARCO SERVICE STATION #2169 889 WEST GRAND AVENUE OAKLAND, CALIFORNIA

Prepared for RM

March 31, 2006



URS Corporation 1333 Broadway, Suite 800 Oakland, California 94612

March 31, 2006

Date:

Quarter: 1Q.06

#### FIRST QUARTER 2006 GROUNDWATER MONITORING REPORT

| Facility No.:      | 2169              | Address: | 889 West Grand Avenue, Oakland, California |  |
|--------------------|-------------------|----------|--|--|
| RM Environmental   | Business Manager: |          | Paul Supple                                |  |
| Consulting Co./Cor | ntact Person:     |          | URS Corporation / Barbara Jakub            |  |
| Primary Agency:    |                   |          | Alameda County Environmental Health (ACEH) |  |
| ACEH Case No.:     |                   |          | 3793                                       |  |
|                    |                   |          |  |  |

#### WORK PERFORMED THIS QUARTER

#### (First - 2006):

1. Performed the first quarter 2006 groundwater monitoring event on February 9, 2006.

2. Prepared and submitted this First Quarter 2006 Groundwater Monitoring Report.

#### WORK PROPOSED FOR NEXT QUARTER (Second – 2006):

- 1. No environmental work is expected during the second quarter 2006.
- 2. Prepare and submit the Second Quarter 2006 Status Report.

#### SITE SUMMARY:

| Current Phase of Project:             | GW monitoring/sampling   |
|---------------------------------------|--|
| Frequency of Groundwater Sampling:    | Semi-Annually (1Q & 3Q): Wells A-1, A-5, A-6 and ADR-1         |
|                                       | Annually (3Q): Wells A-2, AR-1, AR-2, ADR-2                    |
| Frequency of Groundwater Monitoring:  | Semi-Annually  |
| Is Free Product (FP) Present On-Site: | No   |
| FP Recovered this Quarter:            | None - Soil Vapor Extraction System shut-down in December 2001 |
| Cumulative FP Recovered to Date:      | 4.8 gallons, wells ADR-1 and ADR-2                             |
| Bulk Soil Removed This Quarter:       | None   |
| Bulk Soil Removed to Date:            | 2,196 cubic yards of TPH impacted soil                         |
| Current Remediation Techniques:       | None   |
| Approximate Depth to Groundwater:     | 9.02 (A-5) to 11.27 (A-3) feet                                 |
| Groundwater Gradient (direction):     | West   |
| Groundwater Gradient (magnitude):     | 0.003 feet per foot  |

#### **DISCUSSION:**

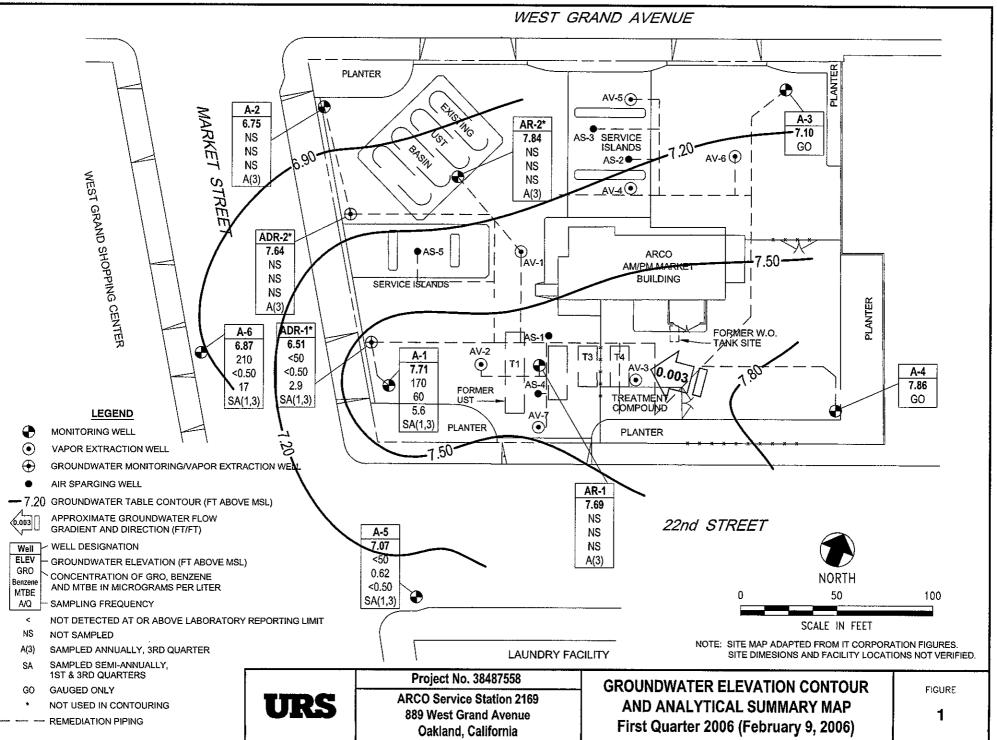
Gasoline range organics were detected at or above the laboratory reporting limit in two of the four wells sampled this quarter at concentrations of 170 micrograms per liter ( $\mu$ g/L) (A-1) and 210  $\mu$ g/L (A-6). Benzene was detected at or above the laboratory reporting limit in two wells at concentrations of 0.62  $\mu$ g/L (A-5) and 60  $\mu$ g/L (A-1). Toluene, ethylbenzene, and xylenes were detected at or above their respective laboratory reporting limits in one well (A-1) at concentrations of 1.5  $\mu$ g/L, 3.5  $\mu$ g/L, and 5.1  $\mu$ g/L, respectively. Methyl tert-butyl ether was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 2.9  $\mu$ g/L (ADR-1) to 17  $\mu$ g/L (A-6). Tert-amyl methyl ether was detected at or above the laboratory reporting limit in one well (A-6) at a concentration of 1.2  $\mu$ g/L. No other fuel components were detected at or above their respective laboratory reporting limit in expective laboratory reporting limit in one well (A-6) at a concentration of the wells sampled this quarter.

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#### ATTACHMENTS:

- Figure 1 Groundwater Elevation Contour and Analytical Summary Map February 9, 2006
- Table 1 Groundwater Elevation and Analytical Data
- Table 2 Fuel Additives Analytical Data
- Table 3 Groundwater Gradient Data
- 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

Mar 13, 2006 - 5:58pm X: \z\_env\\_waste\BP GEM \Sites\Scott Robinson\Paul Supple\2169\Monitoring\2006 Qtr. 1\Drawings\2169-1Q06-GW.dwg



#### Groundwater Elevation and Analytical Data

ARCO Service Station #2169 889 W. Grand Ave., Oakland, CA

| Well<br>No. | Date       | P/<br>NP | Footnotes/<br>Comments                 | TOC<br>(ft MSL) | Top of<br>Screen<br>(ft bgs) | Bottom<br>of Screen<br>(ft bgs) | DTW<br>(ft bgs) | GWE<br>(ft MSL) | GRO/<br>TPH-g<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L) | MTBE<br>(µg/L) | DO<br>(mg/L) | pН   |
|-------------|------------|----------|--|-----------------|------------------------------|---------------------------------|-----------------|-----------------|-------------------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|--------------|------|
| A-1         | 6/26/2000  |          |  | 14.16           | 9.00                         | 25.00                           | 10.75           | 3.41            |                         |                   |                   |                             |                            |                |              |      |
|             | 7/20/2000  |          |  | 14.16           | 9.00                         | 25.00                           | 11.01           | 3.15            | 3,900                   | 1,100             | 28                | 12                          | 46                         | 25             |              |      |
|             | 9/19/2000  |          |  | 14.16           | 9.00                         | 25.00                           | 11.26           | 2.90            | 4,800                   | 2,400             | 27                | 20                          | 57                         | 32             |              |      |
|             | 12/26/2000 |          |  | 14.16           | 9.00                         | 25.00                           | 10.96           | 3.20            | 429                     | 104               | 2.85              | 12.2                        | 9.91                       | 18.7           |              |      |
|             | 3/20/2001  |          |  | 14.16           | 9.00                         | 25.00                           | 9.59            | 4.57            | <500                    | 13.9              | 7.12              | 13.9                        | 23.2                       | <25            |              |      |
|             | 6/12/2001  |          |  | 14.16           | 9.00                         | 25.00                           | 10.83           | 3.33            | 140                     | 2.2               | <0.5              | 8.7                         | 9.2                        | 25             |              |      |
|             | 9/23/2001  |          |  | 14.16           | 9.00                         | 25.00                           | 11.43           | 2.73            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | 4.5            |              |      |
|             | 12/28/2001 |          | ······································ | 14.16           | 9.00                         | 25.00                           | 8.66            | 5.50            | 930                     | 250               | 7.6               | 21                          | 13                         | <25            |              |      |
|             | 3/21/2002  |          | · · · · · · · · · · · · · · · · · · ·  | 14.16           | 9.00                         | 25.00                           | 8.43            | 5.73            | <50                     | <0.5              | <0.5              | <0.5                        | 1.2                        | <2.5           |              |      |
|             | 4/17/2002  |          |  | 14.16           | 9.00                         | 25.00                           | 9.36            | 4.80            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | <2.5           |              |      |
|             | 8/14/2002  |          | b                                      | 14.16           | 9.00                         | 25.00                           | 11.12           | 3.04            | 170                     | 8.4               | <0.5              | <0.5                        | 1.4                        | 4.9            | 5.7          | 7.4  |
|             | 11/27/2002 |          | b                                      | 14.16           | 9.00                         | 25.00                           | 11.11           | 3.05            | 98                      | 2.9               | 0.75              | <0.5                        | <0.5                       | 6.4            | 1.6          | 7.0  |
|             | 2/12/2003  |          | d                                      | 14.16           | 9.00                         | 25.00                           | 10.10           | 4.06            | 73                      | 9.3               | <0.50             | 1                           | 0.53                       | 2.9            | 2.1          | 7.2  |
|             | 5/22/2003  |          |  | 14.16           | 9.00                         | 25.00                           | 10.18           | 3.98            | 400                     | 88                | 1.6               | 4.6                         | 11                         | 4.9            | 1.3          | 7.4  |
|             | 7/23/2003  |          |  | 14.16           | 9.00                         | 25.00                           | 10.85           | 3.31            | 140                     | 3.2               | <0.50             | <0.50                       | 0.56                       | 10             | 10.8         | 7.4  |
|             | 11/13/2003 | Р        | f                                      | 14.16           | 9.00                         | 25.00                           | 11.35           | 2.81            | <50                     | 0.64              | <0.50             | <0.50                       | <0.50                      | 4.2            | 4.3          | 7.75 |
|             | 02/16/2004 | Р        | f, i                                   | 16.75           | 9.00                         | 25.00                           | 9.65            | 7.10            | 99                      | 18                | <0.50             | 1.2                         | 0.96                       | 3.2            | 7.2          | 7.6  |
|             | 05/06/2004 | Р        |  | 16.75           | 9.00                         | 25.00                           | 10.57           | 6.18            | <50                     | 0.73              | <0.50             | <0.50                       | <0.50                      | 1.9            | 1.23         | 6.93 |
|             | 09/02/2004 | Р        | · · · · · · · · · · · · · · · · · · ·  | 16.75           | 9.00                         | 25.00                           | 11.05           | 5.70            | 64                      | 1.1               | <0.50             | <0.50                       | <0.50                      | 1.7            | 12.1         | 8.7  |
|             | 11/29/2004 | Р        |  | 16.75           | 9.00                         | 25.00                           | 10.50           | 6.25            | <50                     | 1.4               | <0.50             | <0.50                       | <0.50                      | <0.50          | 0.62         | 7.0  |
|             | 02/02/2005 | Р        |  | 16.75           | 9.00                         | 25.00                           | 9.18            | 7.57            | 56                      | 14                | <0.50             | <0.50                       | 0.55                       | 5.1            | 3.2          | 7.2  |
|             | 05/09/2005 | Р        |  | 16.75           | 9.00                         | 25.00                           | 9.28            | 7.47            | 52                      | 7.8               | <0.50             | 0.53                        | 0.52                       | 2.7            | 2.1          | 7.2  |
|             | 08/11/2005 | Р        |  | 16.75           | 9.00                         | 25.00                           | 10.70           | 6.05            | 420                     | 61                | <0.50             | 1.8                         | 1.0                        | 4.2            | 3.2          | 6.8  |
|             | 02/09/2006 | Ρ        | 0                                      | 16.75           | 9.00                         | 25.00                           | 9.04            | 7.71            | 170                     | 60                | 1.5               | 3.5                         | 5.1                        | 5.6            | 1.69         | 7.1  |
| A-2         | 6/26/2000  |          |  | 14.55           | 10.00                        | 25.00                           | 11.27           | 3.28            |                         |                   |                   |                             |                            |                |              |      |
|             | 7/20/2000  |          |  | 14.55           | 10.00                        | 25.00                           | 11.52           | 3.03            | <50                     | <0.5              | <0.5              | <0.5                        | <1.0                       | <3             |              |      |
|             | 9/19/2000  |          | ······································ | 14.55           | 10.00                        | 25.00                           | 11.63           | 2.92            |                         |                   |                   |                             |                            |                |              |      |
|             | 12/26/2000 |          |  | 14.55           | 10.00                        | 25.00                           | 11.44           | 3.11            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | <2.5           |              |      |
|             | 3/20/2001  |          |  | 14.55           | 10.00                        | 25.00                           | 10.08           | 4.47            |                         | -0.0              |                   | -0.0                        |                            |                |              |      |
|             | 6/12/2001  |          |  | 14.55           | 10.00                        | 25.00                           | 11.35           | 3.20            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | <2.5           |              |      |
|             | 9/23/2001  |          |  | 14.55           | 10.00                        | 25.00                           | 11.92           | 2.63            |                         | -0.0              |                   |                             |                            |                | <u> </u>     |      |
|             | 12/28/2001 |          |  | 14.55           | 10.00                        | 25.00                           | 9.31            | 5.24            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | <2.5           |              |      |
|             | 3/21/2002  |          |  | 14.55           | 10.00                        | 25.00                           | 9.05            | 5.50            |                         |                   |                   |                             |                            |                |              |      |

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#### Groundwater Elevation and Analytical Data ARCO Service Station #2169

889 W. Grand Ave., Oakland, CA GRO/ Ethyl-Top of Bottom Total Well P/ TOC DTW GWE TPH-g DO Footnotes/ Screen of Screen Benzene Toluene benzene **Xylenes** MTBE No. Date NP Comments (ft MSL) (ft bgs) (ft MSL) (ft bgs) (ft bgs)  $(\mu g/L)$  $(\mu g/L)$  $(\mu g/L)$ (µg/L) (µg/L)  $(\mu g/L)$ (mg/L)bН A-2 4/17/2002 14.55 10.00 25.00 9.88 4.67 52 < 0.5 < 0.5 < 0.5 < 0.5 26 -----------8/14/2002 14.55 11.62 < 0.5 < 0.5 <2.5 10.00 25.00 2.93 <50 < 0.5 1.2 3.7 7.2 ---С 11/27/2002 14.55 10.00 25.00 11.56 2.99 -----------------------------14.55 2/12/2003 d 10.00 25.00 10.75 3.80 --<50 < 0.50 < 0.50 < 0.50 < 0.50 12 2.9 7.1 5/22/2003 14.55 10.00 25.00 10.72 ---3.83 ------------------------------7/23/2003 14.55 ---10.00 25.00 11.39 3.16 <50 < 0.50 < 0.50 < 0.50 < 0.50 2.6 1.3 6.8 11/13/2003 14.55 10.00 25.00 2.95 11.60 ---------------...... \_\_\_ ---02/16/2004 i 17.18 10.00 25.00 10.27 6.91 ----------------------------05/06/2004 17.18 10.00 25.00 11.05 6.13 ---------------------------09/02/2004 P 17.18 10.00 25.00 11.45 5.73 130 < 0.50 < 0.50 < 0.50 < 0.50 2.5 5.1 7.4 11/29/2004 ---17.18 10.00 25.00 11.12 6.06 ------------------------02/02/2005 17.18 10.00 25.00 9.73 7.45 \_ -------------------05/09/2005 17.18 10.00 25.00 12.82 4.36 ---\_\_\_ ---------------------Ρ 17.18 08/11/2005 10.00 25.00 11.29 5.89 120 < 0.50 < 0.50 < 0.50 <0.50 1.2 m 1.6 7.1 02/09/2006 17.18 10.00 25.00 10.43 ---6.75 --------•• ----------A-3 6/26/2000 15.75 9.00 29.50 11.98 3.77 -------\_\_\_\_ ----------------------7/20/2000 15.75 9.00 29.50 12.21 3.54 ----------------------------9/19/2000 15.75 ---9.00 29.50 12.50 3.25 ---------------------------12/26/2000 15.75 9.00 29.50 12.17 3.58 <50 < 0.5 <0.5 < 0.5 < 0.5 <2.5 ---\_\_\_\_ ----3/20/2001 ---15.75 9.00 29.50 10.70 5.05 -------\_\_\_\_ ----\_\_\_\_ -----------6/12/2001 15.75 9.00 29.50 12.09 3.66 \_ ----------------------------9/23/2001 15.75 9.00 29.50 12.65 ---3.10 ---------------------------12/28/2001 15.75 9.00 29,50 9.94 5.81 <50 -< 0.5 <0.5 < 0.5 < 0.5 <2.5 ------3/21/2002 \_\_\_ 15.75 9.00 29.50 9.69 6.06 ----------------------------4/17/2002 15.75 9.00 29.50 10.61 5.14 ----------------------------8/14/2002 15.75 9.00 29.50 12.27 3.48 --------------------\_\_\_\_ -------11/27/2002 15.75 9.00 29.50 12.22 3.53 -----------------------------2/12/2003 d 15.75 9.00 29.50 11.40 4.35 --<50 <0.50 < 0.50 < 0.50 <0.50 < 0.50 1.2 6.9 5/22/2003 15.75 29.50 ---9.00 11.42 4.33 -----------------------------7/23/2003 15.75 9.00 29.50 12.00 3.75 -------\_\_\_\_ ---\_\_\_\_ --------------02/16/2004 18.37 9.00 29.50 10.94 7.43 --g, i ---\_\_\_ ---------------05/06/2004 18.37 9.00 29.50 11.75 6.62 -----------------\_\_\_ -----09/02/2004 ---18.37 9.00 29.50 12.15 6.22 ------------------\_

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#### Groundwater Elevation and Analytical Data

ARCO Service Station #2169 889 W. Grand Ave., Oakland, CA

| Weil<br>No. | Date       | P/<br>NP | Footnotes/<br>Comments                 | TOC<br>(ft MSL) | Top of<br>Screen<br>(ft bgs) | Bottom<br>of Screen<br>(ft bgs) | DTW<br>(ft bgs) | GWE<br>(ft MSL) | GRO/<br>TPH-g<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L) | MTBE<br>(µg/L) | DO<br>(mg/L) | рН  |
|-------------|------------|----------|--|-----------------|------------------------------|---------------------------------|-----------------|-----------------|-------------------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|--------------|-----|
| A-3         | 11/29/2004 |          |  | 18.37           | 9.00                         | 29.50                           | 11.87           | 6.50            |                         |                   |                   |                             |                            |                |              |     |
|             | 02/02/2005 |          |  | 18.37           | 9.00                         | 29.50                           | 10.42           | 7.95            |                         |                   |                   |                             |                            |                |              |     |
|             | 05/09/2005 |          |  | 18.37           | 9.00                         | 29.50                           | 10.49           | 7.88            |                         |                   |                   |                             |                            |                |              |     |
|             | 08/11/2005 |          | ······································ | 18.37           | 9.00                         | 29.50                           | 12.02           | 6.35            |                         |                   |                   |                             |                            |                |              |     |
|             | 02/09/2006 |          |  | 18.37           | 9.00                         | 29.50                           | 11.27           | 7.10            |                         |                   |                   |                             |                            | ==             |              |     |
| A-4         | 6/26/2000  |          |  | 15.25           | 8.00                         | 28.00                           | 10.99           | 4.26            |                         |                   |                   |                             |                            |                |              |     |
|             | 7/20/2000  |          |  | 15.25           | 8.00                         | 28.00                           | 11.16           | 4.09            |                         |                   |                   |                             |                            |                |              |     |
|             | 9/19/2000  |          |  | 15.25           | 8.00                         | 28.00                           | 11.97           | 3.28            |                         |                   |                   |                             |                            | **             |              |     |
|             | 12/26/2000 |          |  | 15.25           | 8.00                         | 28.00                           | 11.19           | 4.06            | <50                     | <0.5              | <0.5              | < 0.5                       | <0.5                       | <2.5           |              |     |
|             | 3/20/2001  |          |  | 15.25           | 8.00                         | 28.00                           | 9.81            | 5.44            |                         |                   |                   |                             |                            |                |              |     |
|             | 6/12/2001  |          |  | 15.25           | 8.00                         | 28.00                           | 11.12           | 4.13            |                         |                   |                   |                             |                            |                |              |     |
|             | 9/23/2001  |          |  | 15.25           | 8.00                         | 28.00                           | 11.63           | 3.62            |                         |                   |                   |                             |                            |                |              |     |
|             | 12/28/2001 |          |  | 15.25           | 8.00                         | 28.00                           | 8.41            | 6.84            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | <2.5           |              |     |
|             | 3/21/2002  | -        |  | 15.25           | 8.00                         | 28.00                           | 8.63            | 6.62            |                         |                   |                   |                             |                            |                |              |     |
|             | 4/17/2002  |          |  | 15.25           | 8.00                         | 28.00                           | 9.68            | 5.57            |                         |                   |                   |                             |                            |                |              |     |
|             | 8/14/2002  |          |  | 15.25           | 8.00                         | 28.00                           | 11.31           | 3.94            |                         |                   |                   |                             |                            |                |              |     |
|             | 11/27/2002 |          |  | 15.25           | 8.00                         | 28.00                           | 11.25           | 4.00            |                         |                   |                   |                             |                            |                |              |     |
|             | 2/12/2003  |          | d                                      | 15.25           | 8.00                         | 28.00                           | 10.37           | 4.88            | <50                     | < 0.50            | <0.50             | <0.50                       | <0.50                      | <0.50          | 0.9          | 7.1 |
|             | 5/22/2003  |          |  | 15.25           | 8.00                         | 28.00                           | 10.42           | 4.83            | ***                     |                   |                   |                             |                            |                |              |     |
|             | 7/23/2003  |          |  | 15.25           | 8.00                         | 28.00                           | 11.02           | 4.23            |                         |                   |                   |                             |                            |                |              |     |
|             | 02/16/2004 |          | g, i                                   | 18.01           | 8.00                         | 28.00                           | 9.65            | 8.36            |                         |                   |                   |                             |                            |                |              |     |
|             | 05/06/2004 |          |  | 18.01           | 8.00                         | 28.00                           | 10.68           | 7.33            |                         |                   |                   |                             |                            |                |              |     |
|             | 09/02/2004 | -        |  | 18.01           | 8.00                         | 28.00                           | 10.83           | 7.18            |                         |                   |                   |                             |                            |                |              |     |
|             | 11/29/2004 |          |  | 18.01           | 8.00                         | 28.00                           | 10.50           | 7.51            |                         |                   |                   |                             |                            |                |              |     |
|             | 02/02/2005 |          |  | 18.01           | 8.00                         | 28.00                           | 9.22            | 8.79            |                         |                   |                   |                             |                            |                |              |     |
|             | 05/09/2005 |          |  | 18.01           | 8.00                         | 28.00                           | 8.98            | 9.03            |                         |                   |                   |                             |                            |                |              |     |
|             | 08/11/2005 |          |  | 18.01           | 8.00                         | 28.00                           | 10.99           | 7.02            |                         |                   |                   |                             |                            |                |              |     |
|             | 02/09/2006 |          |  | 18.01           | 8.00                         | 28.00                           | 10.15           | 7.86            |                         |                   |                   |                             |                            |                |              |     |
| A-5         | 6/26/2000  |          |  | 13.51           | 8.00                         | 30.00                           | 10.04           | 3.47            |                         |                   |                   |                             |                            |                |              |     |
|             | 7/20/2000  |          |  | 13.51           | 8.00                         | 30.00                           | 10.31           | 3.20            | 730                     | 140               | 11                | <0.5                        | 8.9                        | 3              |              |     |
|             | 9/19/2000  |          |  | 13.51           | 8.00                         | 30.00                           | 10.55           | 2.96            | 160                     | 13                | <0.5              | 2.8                         | 1.9                        | <3             |              |     |
|             | 12/26/2000 |          |  | 13.51           | 8.00                         | 30.00                           | 10.37           | 3.14            | 8,120                   | 465               | 108               | 659                         | 1,450                      | <250           |              |     |
|             | 3/20/2001  |          |  | 13.51           | 8.00                         | 30.00                           | 8.81            | 4.70            | 7,990                   | 1,110             | 473               | 611                         | 1,580                      | <250           |              |     |

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#### Groundwater Elevation and Analytical Data ARCO Service Station #2169

889 W. Grand Ave., Oakland, CA GRO/ Ethyl-Total Top of Bottom DTW GWE TPH-g MTBE DO Well  $\mathbf{P}$ Footnotes/ TOC Screen of Screen Benzene Toluene benzene **Xylenes** NP (ft MSL) (ft bgs) (ft MSL)  $(\mu g/L)$ (mg/L)pН Comments (ft bgs) (ft bgs) (µg/L)  $(\mu g/L)$  $(\mu g/L)$  $(\mu g/L)$  $(\mu g/L)$ No. Date A-5 6/12/2001 13.51 8.00 30.00 10.13 3.38 450 91 18 35 95 <5.0 --------20 < 0.5 5 5 2.7 9/23/2001 13.51 8.00 30.00 10.80 2.71110 ----------12/28/2001 13.51 8.00 30.00 5.34 320 24 2 20 27 5 8.17 ---------2.500 420 85 130 350 31 3/21/2002 13.51 8.00 30.00 7.78 5.73 ------------190 36 67 210 <25 4/17/2002 ---13.51 8.00 30.00 8.68 4.83 1,300 ------8/14/2002 13.51 8.00 30.00 10.41 3.10 840 150 <5.0 68 41 <25 1.4 6.8 b ---2.3 6 < 0.5 11/27/2002 13.51 8.00 30.00 10.50 3.01 300 26 17 1.16 7.2 þ --7 45 2/12/2003 đ 13.51 8.00 30.00 10.81 2.70 <500 74 34 < 5.0 1.0 7.3 ---13.51 100 9 47 <5.0 1.0 7.6 5/22/2003 8.00 30.00 9.46 4.05 500 28 \_\_\_ 7/23/2003 3.22 13,51 8.00 30.00 10.29 900 100 5.7 65 57 <5.0 4.5 8.4 ---11/13/2003 NP f 13.51 8.00 30.00 11.24 2.27 1.800 210 5.1 190 140 <5.0 4.3 7.32 02/16/2004 NP 16.09 8.00 30.00 9.45 6.64 680 52 15 50 77 < 0.50 5.0 7.8 h, i 05/06/2004 Ρ 16.09 8.00 30.00 1.500 13 72 <2.5 6.93 10.28 5.81 140 110 1.03 09/02/2004 NP 16.09 8.00 30.00 10.78 5.31 690 69 1.3 42 35 <1.0 1.3 7.1 NP 8.00 30.00 <5.000 <50 190 290 <50 11/29/2004 16.09 10.05 6.04 360 1.0 7.0 02/02/2005 NP 16.09 8.00 30.00 8.37 7.72 220 31 2.3 10 13 < 0.50 0.6 7.4 05/09/2005 NP 16.09 8.00 30.00 7.64 1.7 < 0.50 1.4 1.1 < 0.50 2.5 7.6 8.45 110 08/11/2005 NP 16.09 8.00 30.00 10.11 5.98 <50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 0.8 7.3 02/09/2006 NP 30.00 <50 <0.50 16.09 8.00 9.02 7.07 0.62 < 0.50 < 0.50 < 0.50 0.89 7.3 ο A-6 6/26/2000 13.51 8.00 28.50 10.09 3.42 -----------------------------7/20/2000 13.51 8.00 28.50 2.60 170 2 ---10.91 < 0.5 < 0.5 0.6 6 ------9/19/2000 13.51 8.00 28.50 11.27 2.24 <50 < 0.5 < 0.5 < 0.5 <1.0 6 -----------12/26/2000 13.51 8.00 ---28.50 10.65 2.86 56.2 < 0.5 < 0.5 < 0.5 < 0.5 8.17 ------3/20/2001 13.51 8.00 28.50 8.72 4.79 216 < 0.5 < 0.5 < 0.5 1.8 19.9 -----------6/12/2001 13.51 2.71 0.62 < 0.5 < 0.5 < 0.5 8.00 28.50 10.80 80 15 -----------9/23/2001 13.51 8.00 28.50 10.79 2.72 450 1.7 1.9 2.3 3.3 53 ---------12/28/2001 270 0.98 0.77 1.4 26 13.51 8.00 28.50 8.05 5.46 3.5 -----------3/21/2002 13.51 8.00 28.50 7.83 130 < 0.5 < 0.5 < 0.5 <0.5 19 ---5.68 --------4/17/2002 13.51 8.00 28.50 8.73 4.78 <50 < 0.5 <0.5 < 0.5 <0.5 16 ----------8/14/2002 13.51 2 4.9 75 8.00 28.50 10.43 3.08 980 4.8 2.6 --b 1.5 7.1 11/27/2002 13.51 0.74 <0.5 b 8.00 28.50 10.47 3.04 280 < 0.5 < 0.5 16 0.9 6.9 ---2/12/2003 d 13.51 8.00 28.50 10.44 3.07 51 < 0.50 < 0.50 < 0.50 < 0.50 9.9 ---0.8 7.1 5/22/2003 13.51 8.00 28.50 9.43 4.08 <50 < 0.50 < 0.50 < 0.50 < 0.50 1.2 8.2 ---11

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#### Groundwater Elevation and Analytical Data ARCO Service Station #2169

889 W. Grand Ave., Oakland, CA GRO/ Ethyl-Top of Bottom Total Well P/ Footnotes/ TOC of Screen DTW GWE TPH-g Screen Benzene Toluene benzene **Xylenes** MTBE DO No. Date NP Comments (ft MSL) (ft bgs) (ft bgs) (ft bgs) (ft MSL) (µg/L)  $(\mu g/L)$ (µg/L) (µg/L) (µg/L) (µg/L) (mg/L) pН A-6 7/23/2003 13.51 8.00 28.50 10.27 3.24 120 < 0.50 < 0.50 < 0.50 < 0.50 14 >20 9.6 ---11/13/2003 NP f 13.51 8.00 28.50 <50 < 0.50 < 0.50 < 0.50 < 0.50 2.3 11.20 2.31 6.2 9.0 NP 02/16/2004 h, i 16.10 8.00 28.50 9.76 6.34 50 < 0.50 < 0.50 < 0.50 <0.50 3.9 6.5 8.3 05/06/2004 Ρ 16.10 8.00 28.50 10.03 < 0.50 < 0.50 < 0.50 <0.50 7.1 7.02 6.07 110 1.01 09/02/2004 NP 16.10 8.00 28.50 10.47 5.63 56 < 0.50 < 0.50 <0.50 <0.50 4.4 3.2 7.4 11/29/2004 NP 16.10 8.00 28.50 9.99 6.11 <50 < 0.50 < 0.50 <0.50 < 0.50 2.9 0.92 6.9 02/02/2005 NP 16.10 8.00 28.50 7.64 150 < 0.50 < 0.50 <0.50 < 0.50 14 8.46 0.5 7.4 05/09/2005 NP 16.10 8.00 28.50 8.55 7.55 93 < 0.50 < 0.50 <0.50 < 0.50 12 3.0 7.2 08/11/2005 NP 16.10 8.00 28.50 10.13 5.97 780 < 0.50 <0.50 <0.50 < 0.50 14 1.0 6.9 02/09/2006 NP 16.10 8.00 28.50 9.23 <0.50 ο 6.87 210 < 0.50 < 0.50 < 0.50 17 1.27 6.8 ADR-1 6/26/2000 13.95 5.0022.00 10.55 3.40 ----------------------\_\_\_\_ ----7/20/2000 13.95 5.00 22.00 10.85 3.10 29 ---180 < 0.5 0.8 <1.0 22 -------9/19/2000 \_\_\_ 13.95 5.00 22.00 11.08 2.87 120 7.4 < 0.5 1.2 <1.0 22 -------12/26/2000 13.95 5.00 22.00 10.93 3.02 <0.5 14.7 ---<50 1.29 < 0.5 < 0.5--------3/20/2001 13.95 5.00 22.00 9.32 4.63 23.4 225 < 0.5 10.8 ---8.71 4.13 ------6/12/2001 13.95 \_\_\_ 5.00 22.00 10.65 3.30 250 23 0.5 13 4.2 7.5 ------9/23/2001 13,95 5.00 22.00 11.25 2.70 ----<50 1.4 <0.5 < 0.5 0.57 2.8 -------12/28/2001 13.95 ----5.00 22.00 8.43 5.52 250 16 < 0.5 1.2 4.1 6.8 ------3/21/2002 13.95 5.00 22.00 8.27 5.68 <50 < 0.5 < 0.5 < 0.5 < 0.5 <2.5 ----------4/17/2002 13.95 5.00 ---22.00 9.17 4.78 <50 < 0.5 < 0.5 < 0.5 < 0.5 <2.5 --------8/14/2002 13.95 5.00 22.00 11.88 2.07 < 0.5 < 0.5 ---<50 1.1 < 0.5 <2.5 3.4 6.7 11/27/2002 13.95 5.00 ---22.00 10.91 3.04 <50 0.54 < 0.5 < 0.5 < 0.5 1.1 1.8 6.8 2/12/2003 d 13.95 5.00 22.00 9.95 4.00 <0.50 < 0.50 <0.50 ---<50 < 0.50 0.73 1.9 7.2 5/22/2003 ---13.95 5.00 22.00 9.86 4.09 <50 0.96 < 0.50 <0.50 <0.50 3.5 1.2 7.3 7/23/2003 13.95 5.00 <u> ---</u> 22.00 10.59 3.36 <50 2.5 < 0.50 0.56 <0.50 4 >20 9.4 13.95 11/13/2003 f 5.00 22.00 11.15 2.80 <50 0.60 < 0.50 <0.50 ---<0.50 1.6 8.2 8.5 f, i 02/16/2004 NP 16.56 22.00 <50 5.00 9.43 7.13 < 0.50 < 0.50 <0.50 < 0.50 1.6 5.5 9.6 05/07/2004 NP 16.56 5.00 22.00 10.41 6.15 <500 <5.0 5.3 < 5.0 < 5.0 <5.0 1.72 7.0 09/02/2004 NP 16.56 5.00 22.00 10.73 5.83 <50 <0.50 <0.50 <0.50 <0.50 0.84 18.1 8.4 11/29/2004 NP 16.56 5.00 22.00 <50 10.30 6.26 3.0 < 0.50 <0.50 < 0.50 < 0.500.77 6.9 02/02/2005 NP 16.56 5.00 22.00 9.02 7.54 <50 < 0.50 < 0.50 <0.50 < 0.50 3.4 7.5 0.5 05/09/2005 NP 16.56 5.00 22.00 8.92 7.64 <50 <0.50 <0.50 <0.50 < 0.50 2.6 2.9 7.3 NP 08/11/2005 16.56 5.00 22.00 10.57 5.99 67 2.8 < 0.50 <0.50 < 0.50 4.0 0.6 6.0

#### Groundwater Elevation and Analytical Data

ARCO Service Station #2169 889 W. Grand Ave., Oakland, CA

| Well<br>No. | Date       | P/<br>NP | Footnotes/<br>Comments                | TOC<br>(ft MSL) | Top of<br>Screen<br>(ft bgs) | Bottom<br>of Screen<br>(ft bgs) | DTW<br>(ft bgs) | GWE<br>(ft MSL) | GRO/<br>TPH-g<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Total<br>Xylenes<br>(μg/L) | MTBE<br>(µg/L) | DO<br>(mg/L) | pН  |
|-------------|------------|----------|---------------------------------------|-----------------|------------------------------|---------------------------------|-----------------|-----------------|-------------------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|--------------|-----|
| ADR-1       | 02/09/2006 | NP       | 0                                     | 16.56           | 5.00                         | 22.00                           | 10.05           | 6.51            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | 2.9            | 1.09         | 7.0 |
| ADR-2       | 6/26/2000  |          |                                       | 14.64           | 5.00                         | 22.00                           | 11.22           | 3.42            | ·                       |                   |                   |                             |                            |                |              | T   |
|             | 7/20/2000  |          |                                       | 14.64           | 5.00                         | 22.00                           | 11.60           | 3.04            | 12,000                  | 410               | 2.5               | 540                         | 720                        | 23             |              |     |
|             | 9/19/2000  |          |                                       | 14.64           | 5.00                         | 22.00                           | 11.81           | 2.83            | 1,400                   | 530               | 5                 | 680                         | 740                        | 34             |              |     |
|             | 12/26/2000 | -        |                                       | 14.64           | 5.00                         | 22.00                           | 11.52           | 3.12            | 901                     | 26.6              | <5.0              | 21.4                        | 32.5                       | 32.8           |              |     |
|             | 3/20/2001  |          | j                                     | 14.64           | 5.00                         | 22.00                           | 10.10           | 4.54            |                         |                   |                   |                             |                            |                |              |     |
|             | 6/12/2001  |          | j                                     | 14.64           | 5.00                         | 22.00                           | 11.41           | 3.23            |                         |                   |                   |                             |                            |                |              |     |
|             | 9/23/2001  |          |                                       | 14.64           | 5.00                         | 22.00                           | 11.98           | 2.66            | 5,300                   | 370               | <5.0              | 550                         | 96                         | 60             |              |     |
|             | 12/28/2001 |          |                                       | 14.64           | 5.00                         | 22.00                           | 9.48            | 5.16            | 2,600                   | 190               | <5.0              | 160                         | 29                         | 61             |              |     |
|             | 3/21/2002  |          |                                       | 14.64           | 5.00                         | 22.00                           | 9.10            | 5.54            | 180                     | 6                 | <0.5              | 4.5                         | 3.2                        | 15             |              |     |
|             | 4/17/2002  |          |                                       | 14.64           | 5.00                         | 22.00                           | 9.93            | 4.71            | 730                     | 86                | <0.5              | 13                          | <0.5                       | <25            |              |     |
|             | 8/14/2002  |          | b                                     | 14.64           | 5.00                         | 22.00                           | 12.09           | 2.55            | 1,300                   | 170               | <10               | 100                         | 47                         | <50            | 0.9          | 7.0 |
|             | 11/27/2002 |          | b                                     | 14.64           | 5.00                         | 22.00                           | 11.66           | 2.98            | 1,800                   | 240               | 3.1               | 120                         | 14                         | 74             | 0.6          | 6.9 |
|             | 2/12/2003  | _        | d                                     | 14.64           | 5.00                         | 22.00                           | 10.74           | 3.90            | 760                     | 120               | <5.0              | 15                          | 5.2                        | 22             | 1.3          | 7.1 |
|             | 5/22/2003  |          |                                       | 14.64           | 5.00                         | 22.00                           | 10.67           | 3.97            | 520                     | 110               | <5.0              | 7.1                         | <5.0                       | 9.7            | 0.7          | 7.6 |
|             | 7/23/2003  |          |                                       | 14.64           | 5.00                         | 22.00                           | 11.38           | 3.26            | 140                     | 2.8               | <0.50             | 5                           | 0.98                       | 8.4            | >20          | 9.4 |
|             | 02/16/2004 |          | f, i                                  | 17.24           | 5.00                         | 22.00                           | 10.26           | 6.98            |                         |                   |                   |                             |                            |                |              |     |
|             | 05/06/2004 | -        |                                       | 17.24           | 5.00                         | 22.00                           | 11.05           | 6.19            |                         |                   |                   |                             |                            |                |              |     |
|             | 09/02/2004 | Р        |                                       | 17.24           | 5.00                         | 22.00                           | 11.50           | 5.74            | <500                    | 67                | <5.0              | 71                          | 12                         | 5.6            | 0.7          | 7.4 |
|             | 11/29/2004 |          |                                       | 17.24           | 5.00                         | 22.00                           | 11.20           | 6.04            |                         |                   |                   |                             |                            |                |              |     |
|             | 02/02/2005 |          |                                       | 17.24           | 5.00                         | 22.00                           | 9.76            | 7.48            |                         |                   |                   |                             |                            |                |              |     |
|             | 05/09/2005 |          |                                       | 17.24           | 5.00                         | 22.00                           | 11.18           | 6.06            |                         |                   |                   |                             |                            |                |              |     |
|             | 08/11/2005 | NP       |                                       | 17.24           | 5.00                         | 22.00                           | 11.30           | 5.94            | 1,900                   | 200               | <2.5              | 160                         | 9.6                        | 9.0            | 0.6          | 6.6 |
|             | 02/09/2006 |          |                                       | 17.24           | 5.00                         | 22.00                           | 9.60            | 7.64            |                         |                   |                   | <b>4</b> 1                  |                            |                |              |     |
| AR-1        | 6/26/2000  |          |                                       | 15.61           | 8.00                         | 28.00                           | 11.59           | 4.02            |                         |                   |                   |                             |                            |                |              |     |
|             | 7/20/2000  |          |                                       | 15.61           | 8.00                         | 28.00                           | 12.06           | 3.55            | <50                     | <0.5              | <0.5              | <0.5                        | <1.0                       | 6              |              |     |
|             | 9/19/2000  |          |                                       | 15.61           | 8.00                         | 28.00                           | 11.89           | 3.72            | <50                     | <0.5              | <0.5              | < 0.5                       | <1.0                       | <3             |              |     |
|             | 12/26/2000 |          |                                       | 15.61           | 8.00                         | 28.00                           | 11.95           | 3.66            | <50                     | <0.5              | <0.5              | < 0.5                       | <0.5                       | <2.5           |              |     |
|             | 03/20/01   |          | а                                     | 15.61           | 8.00                         | 28.00                           |                 |                 |                         |                   |                   |                             |                            |                |              |     |
| ••          | 6/12/2001  |          |                                       | 15.61           | 8.00                         | 28.00                           | 11.87           | 3.74            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | 17             |              |     |
| · · · · · · | 9/23/2001  |          |                                       | 15.61           | 8.00                         | 28.00                           | 12.42           | 3.19            |                         |                   |                   |                             |                            |                |              |     |
|             | 12/28/2001 |          | · · · · · · · · · · · · · · · · · · · | 15.61           | 8.00                         | 28.00                           | 7.62            | 7.99            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | <2.5           |              |     |
|             | 3/21/2002  |          |                                       | 15.61           | 8.00                         | 28.00                           | 9.37            | 6.24            |                         |                   |                   |                             |                            |                |              |     |

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#### Groundwater Elevation and Analytical Data

ARCO Service Station #2169 889 W. Grand Ave., Oakland, CA

| Well<br>No. | Date       | P/<br>NP | Footnotes/<br>Comments | TOC<br>(ft MSL) | Top of<br>Screen<br>(ft bgs) | Bottom<br>of Screen<br>(ft bgs) | DTW<br>(ft bgs) | GWE<br>(ft MSL) | GRO/<br>TPH-g<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L) | MTBE<br>(µg/L) | DO<br>(mg/L) | рН  |
|-------------|------------|----------|------------------------|-----------------|------------------------------|---------------------------------|-----------------|-----------------|-------------------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|--------------|-----|
| AR-1        | 4/17/2002  |          |                        | 15.61           | 8.00                         | 28.00                           | 10.43           | 5.18            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | <2.5           |              |     |
|             | 8/14/2002  |          |                        | 15.61           | 8.00                         | 28.00                           | 12.08           | 3.53            | <50                     | <0.5              | <0.5              | <0.5                        | 1.3                        | <2.5           | 2.2          | 7.9 |
|             | 11/27/2002 |          |                        | 15.61           | 8.00                         | 28.00                           | 12.00           | 3.61            |                         |                   |                   |                             |                            |                |              |     |
|             | 2/12/2003  |          | d                      | 15.61           | 8.00                         | 28.00                           | 10.89           | 4.72            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | <0.50          | 1.8          | 7.9 |
|             | 5/22/2003  | _        |                        | 15.61           | 8.00                         | 28.00                           | 11.18           | 4.43            |                         |                   |                   |                             |                            |                |              |     |
|             | 7/23/2003  | -        |                        | 15,61           | 8.00                         | 28.00                           | 11.73           | 3.88            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | <0.50          | 1.3          | 7.7 |
|             | 11/13/2003 |          |                        | 15.61           | 8.00                         | 28.00                           | 12.05           | 3.56            |                         |                   |                   |                             |                            |                |              |     |
|             | 02/16/2004 |          |                        | 18.18           | 8.00                         | 28.00                           | 10.35           | 7.83            |                         |                   |                   |                             |                            |                |              |     |
|             | 05/06/2004 |          | · · · · ·              | 18.18           | 8.00                         | 28.00                           | 11.60           | 6.58            |                         |                   |                   |                             |                            |                |              |     |
|             | 09/02/2004 | Р        |                        | 18.18           | 8.00                         | 28.00                           | 11.88           | 6.30            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | <0.50          | 1.2          | 7.8 |
|             | 11/29/2004 |          |                        | 18.18           | 8.00                         | 28.00                           | 11.55           | 6.63            |                         |                   |                   |                             |                            |                |              |     |
|             | 02/02/2005 |          |                        | 18.18           | 8.00                         | 28.00                           | 9.92            | 8.26            |                         |                   |                   |                             |                            |                |              | -   |
|             | 05/09/2005 |          |                        | 18.18           | 8.00                         | 28.00                           | 10.19           | 7.99            |                         |                   |                   |                             |                            |                |              |     |
|             | 08/11/2005 | Ρ        | n                      | 18.18           | 8.00                         | 28.00                           | 11.80           | 6.38            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | <0.50          | 7.4          | 7.6 |
|             | 02/09/2006 |          |                        | 18.18           | 8.00                         | 28.00                           | 10.49           | 7.69            |                         |                   |                   |                             |                            |                |              |     |
| AR-2        | 6/26/2000  |          |                        | 15.28           | 8.50                         | 28.50                           | 11.79           | 3.49            |                         |                   |                   |                             |                            |                |              |     |
|             | 7/20/2000  |          |                        | 15.28           | 8.50                         | 28.50                           | 12.07           | 3.21            | <50                     | <0.5              | <0.5              | <0.5                        | <1.0                       | <3             |              |     |
|             | 9/19/2000  |          |                        | 15.28           | 8.50                         | 28.50                           | 12.08           | 3.20            | <50                     | <0.5              | <0.5              | <0.5                        | <1.0                       | <3             |              |     |
|             | 12/26/2000 |          |                        | 15.28           | 8.50                         | 28.50                           | 11.95           | 3.33            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | <2.5           |              |     |
|             | 3/20/2001  |          |                        | 15.28           | 8.50                         | 28.50                           | 10.50           | 4.78            |                         |                   |                   |                             |                            |                |              |     |
|             | 6/12/2001  | -        |                        | 15.28           | 8.50                         | 28.50                           | 11.73           | 3.55            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | 82             |              |     |
|             | 9/23/2001  |          |                        | 15.28           | 8.50                         | 28.50                           | 12.43           | 2.85            |                         |                   |                   |                             |                            |                |              |     |
|             | 12/28/2001 |          |                        | 15.28           | 8.50                         | 28.50                           | 8.60            | 6.68            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | 30             |              |     |
|             | 3/21/2002  |          |                        | 15.28           | 8.50                         | 28.50                           | 9.49            | 5.79            |                         |                   |                   |                             |                            |                |              |     |
|             | 4/17/2002  |          |                        | 15.28           | 8.50                         | 28.50                           | 10.37           | 4.91            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | 3.2            |              |     |
|             | 8/14/2002  |          |                        | 15.28           | 8.50                         | 28.50                           | 12.13           | 3.15            | <50                     | <0.5              | <0.5              | <0.5                        | <0.5                       | <2.5           | 1.4          | 7.9 |
|             | 11/27/2002 |          |                        | 15.28           | 8.50                         | 28.50                           | 12.08           | 3.20            |                         |                   |                   |                             |                            |                |              |     |
|             | 2/12/2003  |          | d                      | 15.28           | 8.50                         | 28.50                           | 11.15           | 4.13            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | <0.50          | 1.2          | 7.5 |
|             | 5/22/2003  |          |                        | 15.28           | 8.50                         | 28.50                           | 11.18           | 4.10            |                         |                   |                   |                             |                            |                |              |     |
|             | 7/23/2003  |          |                        | 15.28           | 8.50                         | 28.50                           | 11.85           | 3.43            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | <0.50          | 1.3          | 8.2 |
|             | 11/13/2003 |          | f                      | 15.28           | 8.50                         | 28.50                           | 11.98           | 3.30            |                         |                   |                   |                             |                            |                |              | -   |
|             | 02/16/2004 |          | f, i                   | 17.87           | 8.50                         | 28.50                           | 10.69           | 7.18            |                         |                   |                   |                             |                            |                |              |     |
|             | 05/06/2004 |          |                        | 17.87           | 8.50                         | 28.50                           | 11.55           | 6.32            |                         |                   |                   |                             |                            |                |              |     |

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#### Groundwater Elevation and Analytical Data

ARCO Service Station #2169 889 W. Grand Ave., Oakland, CA

| Well<br>No. | Date       | P/<br>NP | Footnotes/<br>Comments | TOC<br>(ft MSL) | Top of<br>Screen<br>(ft bgs) | Bottom<br>of Screen<br>(ft bgs) | DTW<br>(ft bgs) | GWE<br>(ft MSL) | GRO/<br>TPH-g<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(μg/L) | Ethyl-<br>benzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L) | MTBE<br>(µg/L) | DO<br>(mg/L) | pН   |
|-------------|------------|----------|------------------------|-----------------|------------------------------|---------------------------------|-----------------|-----------------|-------------------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|--------------|------|
| AR-2        | 09/02/2004 | 1        | k                      | 17.87           | 8.50                         | 28.50                           |                 | -               |                         |                   |                   |                             |                            |                |              |      |
|             | 09/20/2004 | NP       |                        | 17.87           | 8.50                         | 28.50                           | 11.98           | 5.89            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | <0.50          | 2.2          | 10.4 |
|             | 11/29/2004 |          |                        | 17.87           | 8.50                         | 28.50                           | 12.62           | 5.25            |                         |                   |                   |                             |                            |                |              |      |
|             | 02/02/2005 |          |                        | 17.87           | 8.50                         | 28.50                           | 10.12           | 7.75            |                         |                   |                   |                             |                            |                |              |      |
|             | 05/09/2005 |          |                        | 17.87           | 8.50                         | 28.50                           | 10.13           | 7.74            |                         |                   |                   |                             |                            |                |              |      |
|             | 08/11/2005 | NP       |                        | 17.87           | 8.50                         | 28.50                           | 11.73           | 6.14            | <50                     | <0.50             | <0.50             | <0.50                       | <0.50                      | <0.50          | 1.8          | 7.3  |
|             | 02/09/2006 |          |                        | 17.87           | 8.50                         | 28.50                           | 10.03           | 7.84            |                         |                   |                   |                             |                            |                |              |      |

#### **Groundwater Elevation and Analytical Data**

ARCO Service Station #2169 889 W. Grand Ave., Oakland, CA

#### ABBREVIATIONS & SYMBOLS:

- --- = Not analyzed/applicable/measured/available < = Not detected at or above specified laboratory reporting limit
- < = Not detected at or above spe DO = Disselved everyon
- DO = Dissolved oxygen DTW = Depth to water in ft bos
- ft bas = Feet below ground surface
- ft MSL = Feet above mean sea level
- GRO = Gasoline range organics
- GWE = Groundwater elevation measured in ft MSL
- mg/L = Milligrams per liter
- mg/L = Milligrams per liter
- MTBE = Methyl tert-butyl ether analyzed by EPA Method 8021B unless otherwise noted
- NP = Well not purged prior to sampling
- P = Well purged prior to sampling
- TOC = Top of casing measured in ft MSL
- TPH-g = Total petroleum hydrocarbons as gasoline
- µg/L = Micrograms per liter

#### FOOTNOTES:

- a = Well was covered by stockpiled soil and not accessible.
- b = GRO/TPH-g chromatogram pattern: Gasoline C6-C10.
- c = Primary and confirmation results for xylene varied by greater than 40% RPD. The values may still be useful for their intended purpose.
- d = TPH-g, BTEX, and MTBE analyzed using EPA Method 8260B starting first quarter 2003.
- e = Well inaccessible.
- f = ORC sock in well.
- g = Well removed from annual sampling schedule.
- h = ORC sock removed prior to gauging.
- i = Site re-survey to NAV'88 datum on January 30, 2004.
- j = Sheen in well.
- k = Car parked over well AR-2 during monitoring event on 9/2/04. Well was sampled 9/20/04.
- m = Hydrocarbon result partly due to individual peak(s) in quant, range.
- n = Possible low bias for GRO due to CCV falling outside acceptance criteria.
- o = Initial analysis within holding time but failed QA/QC criteria.

#### NOTES:

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.

Top and bottom of screen depths for wells ADR-1 and ADR-2 are estimated from EMCON sampling sheets.

Values for DO and pH were obtained through field measurements.

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.

#### Fuel Additives Analytical Data

ARCO Service Station #2169

889 W. Grand Ave., Oakland, CA

| Well<br>Numbe <del>r</del> | Date<br>Sampled | Ethanol<br>(µg/L) | TBA<br>(μg/L) | MTBE<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | 1,2-DCA<br>(μg/L) | EDB<br>(µg/L) | Footnotes/<br>Comments                 |
|----------------------------|-----------------|-------------------|---------------|----------------|----------------|----------------|----------------|-------------------|---------------|--|
| A-1                        | 2/12/2003       | <40               | <20           | 2.9            | < 0.50         | <0.50          | <0.50          |                   |               |  |
|                            | 5/22/2003       | <100              | <20           | 4.9            | <0.50          | <0.50          | <0.50          |                   |               |  |
|                            | 7/23/2003       | <100              | <20           | 10             | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |  |
|                            | 11/13/2003      | <100              | <20           | 4.2            | <0.50          | <0.50          | <0.50          |                   |               | ······································ |
|                            | 02/16/2004      | <100              | <20           | 3.2            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |  |
|                            | 05/06/2004      | <100              | <20           | 1.9            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |  |
|                            | 09/02/2004      | <100              | <20           | 1.7            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |  |
|                            | 11/29/2004      | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |  |
|                            | 02/02/2005      | <100              | <20           | 5.1            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | а                                      |
|                            | 05/09/2005      | <100              | <20           | 2.7            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |  |
|                            | 08/11/2005      | <100              | <20           | 4.2            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | а                                      |
|                            | 02/09/2006      | <300              | <20           | 5.6            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | b                                      |
| A-2                        | 2/12/2003       | <40               | <20           | 12             | <0.50          | <0.50          | <0.50          |                   |               |  |
|                            | 5/22/2003       |                   |               |                |                |                |                |                   |               |  |
|                            | 7/23/2003       | <100              | <20           | 2.6            | <0.50          | < 0.50         | < 0.50         | <0.50             | <0.50         |  |
|                            | 09/02/2004      | <100              | <20           | 2.5            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |  |
|                            | 08/11/2005      | <100              | <20           | 1.2            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | а                                      |
| A-3                        | 2/12/2003       | <40               | <20           | <0.50          | <0.50          | <0.50          | <0.50          |                   |               | · · · ·                                |
|                            | 5/22/2003       |                   |               |                |                |                |                |                   |               |  |
| ·                          | 7/23/2003       |                   |               |                |                |                |                |                   |               |  |
| A-4                        | 2/12/2003       | <40               | <20           | <0.50          | <0.50          | <0.50          | <0.50          |                   |               |  |
| •••                        | 5/22/2003       |                   |               |                |                |                |                |                   |               |  |
|                            | 7/23/2003       |                   |               |                |                |                |                |                   |               |  |
| A-5                        | 2/12/2003       | <400              | <200          | <5.0           | <5.0           | <5.0           | <5.0           |                   |               |  |
|                            | 5/22/2003       | <1,000            | <200          | <5.0           | <5.0           | <5.0           | <5.0           |                   |               |  |
|                            | 7/23/2003       | <1,000            | <200          | <5.0           | <5.0           | <5.0           | <5.0           | <5.0              | <5.0          | · · · ·                                |
|                            | 11/13/2003      | <1,000            | <200          | <5.0           | <5.0           | <5.0           | <5.0           |                   |               |  |
|                            | 02/16/2004      | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |  |
|                            | 05/06/2004      | <500              | <100          | <2.5           | <2.5           | <2.5           | <2.5           | <2.5              | <2.5          |  |
|                            | 09/02/2004      | <200              | <40           | <1.0           | <1.0           | <1.0           | <1.0           | <1.0              | <1.0          |  |
|                            | 11/29/2004      | <10,000           | <2,000        | <50            | <50            | <50            | <50            | <50               | <50           |  |

MARTINE CONFIDENCE STREET

#### Fuel Additives Analytical Data

ARCO Service Station #2169

889 W. Grand Ave., Oakland, CA

| Well<br>Number | Date<br>Sampled | Ethanoi<br>(µg/L) | ТВА<br>(µg/L) | MTBE<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | 1,2-DCA<br>(μg/L) | EDB<br>(µg/L) | Footnotes/<br>Comments                  |
|----------------|-----------------|-------------------|---------------|----------------|----------------|----------------|----------------|-------------------|---------------|---|
| A-5            | 02/02/2005      | <100              | <20           | <0.50          | < 0.50         | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 05/09/2005      | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | ,                                       |
|                | 08/11/2005      | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | a                                       |
|                | 02/09/2006      | <300              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | b                                       |
| A-6            | 2/12/2003       | <40               | <20           | 9.9            | <0.50          | <0.50          | <0.50          |                   |               | · • • • • • • • • • • • • • • • • • • • |
|                | 5/22/2003       | <100              | <20           | 11             | <0.50          | <0.50          | 0.6            |                   |               |   |
|                | 7/23/2003       | <100              | <20           | 14             | <0.50          | <0.50          | 0.54           | <0.50             | <0.50         |   |
|                | 11/13/2003      | <100              | <20           | 2.3            | <0.50          | < 0.50         | <0.50          |                   |               |   |
|                | 02/16/2004      | <100              | <20           | 3.9            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 05/06/2004      | <100              | <20           | 7.1            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | *************************************** |
|                | 09/02/2004      | <100              | <20           | 4.4            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 11/29/2004      | <100              | <20           | 2.9            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 02/02/2005      | <100              | <20           | 14             | <0.50          | <0.50          | 0.91           | <0.50             | <0.50         | а                                       |
|                | 05/09/2005      | <100              | <20           | 12             | < 0.50         | <0.50          | 0.66           | <0.50             | <0,50         |   |
|                | 08/11/2005      | <100              | <20           | 14             | <0.50          | <0.50          | 2.2            | <0.50             | <0.50         | a                                       |
|                | 02/09/2006      | <300              | <20           | 17             | <0.50          | <0.50          | 1.2            | <0.50             | <0.50         | b                                       |
| ADR-1          | 2/12/2003       | <40               | <20           | 0.73           | <0.50          | <0.50          | <0.50          |                   |               |   |
|                | 5/22/2003       | <100              | <20           | 3.5            | <0.50          | <0.50          | <0.50          |                   |               |   |
|                | 7/23/2003       | <100              | <20           | 4              | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 11/13/2003      | <100              | <20           | 1.6            | <0.50          | <0.50          | <0.50          |                   |               |   |
|                | 02/16/2004      | <100              | <20           | 1.6            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 05/07/2004      | <1,000            | <200          | <5.0           | <5.0           | <5.0           | <5.0           | <5.0              | <5.0          |   |
|                | 09/02/2004      | <100              | <20           | 0.84           | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 11/29/2004      | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 02/02/2005      | <100              | <20           | 3.4            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | а                                       |
|                | 05/09/2005      | <100              | <20           | 2.6            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 08/11/2005      | <100              | <20           | 4.0            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | a                                       |
|                | 02/09/2006      | <300              | <20           | 2.9            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | b                                       |
| ADR-2          | 2/12/2003       | <400              | <200          | 22             | <5.0           | <5.0           | <5.0           |                   |               |   |
|                | 5/22/2003       | <1,000            | <200          | 9.7            | <5.0           | <5.0           | <5.0           |                   |               |   |
|                | 7/23/2003       | <100              | <20           | 8.4            | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |   |
|                | 09/02/2004      | <1,000            | <200          | 5.6            | <5.0           | <5.0           | <5.0           | <5.0              | <5.0          |   |

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#### Fuel Additives Analytical Data

ARCO Service Station #2169

889 W. Grand Ave., Oakland, CA

| Well<br>Number | Date<br>Sampled | Ethanol<br>(µg/L) | TBA<br>(µg/L) | MTBE<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | 1,2-DCA<br>(µg/L) | EDB<br>(µg/L) | Footnotes/<br>Comments |
|----------------|-----------------|-------------------|---------------|----------------|----------------|----------------|----------------|-------------------|---------------|------------------------|
| ADR-2          | 08/11/2005      | <500              | <100          | 9.0            | <2.5           | <2.5           | <2.5           | <2.5              | <2.5          | а                      |
| AR-1           | 2/12/2003       | <40               | <20           | <0.50          | <0.50          | <0.50          | <0.50          |                   |               |                        |
|                | 5/22/2003       |                   |               |                |                |                |                |                   |               |                        |
|                | 7/23/2003       | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |                        |
|                | 09/02/2004      | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |                        |
|                | 08/11/2005      | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |                        |
| AR-2           | 2/12/2003       | <40               | <20           | <0.50          | <0.50          | <0.50          | <0.50          |                   |               |                        |
|                | 5/22/2003       |                   |               |                |                |                |                |                   |               |                        |
|                | 7/23/2003       | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |                        |
|                | 09/20/2004      | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         |                        |
|                | 08/11/2005      | <100              | <20           | <0.50          | <0.50          | <0.50          | <0.50          | <0.50             | <0.50         | а                      |

#### Fuel Additives Analytical Data ARCO Service Station #2169

889 W. Grand Ave., Oakland, CA

ABBREVIATIONS & SYMBOLS:

-- = Not analyzed/applicable/measured/available < = Not detected at or above specified 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-Amyl methyl ether TBA = tert-Butyl alcohol µg/L = Micrograms per Liter

FOOTNOTES:

a = Calibration verification was within method limits but outside contract limits for ethanol. b = Initial analysis within holding time but failed QA/QC criteria.

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

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.

#### Groundwater Gradient Data

#### ARCO Service Station #2169 889 W. Grand Ave., Oakland, CA

| Date Sampled | Approximate Flow Direction | Approximate Hydraulic Gradient |
|--------------|----------------------------|--------------------------------|
| 7/20/2000    | Northwest                  | 0.004                          |
| 9/19/2000    | West-Northwest             | 0.003                          |
| 12/26/2000   | Northwest                  | 0.004                          |
| 3/20/2001    | Northwest                  | 0.003                          |
| 6/12/2001    | Northwest                  | 0.004                          |
| 9/23/2001    | Northwest                  | 0.004                          |
| 12/28/2001   | Variable                   | Variable                       |
| 3/21/2002    | Northwest                  | 0.004                          |
| 4/17/2002    | Northwest                  | 0.003                          |
| 8/14/2002    | West                       | 0.003                          |
| 11/27/2002   | West                       | 0.003                          |
| 2/12/2003    | South                      | 0.005                          |
| 5/22/2003    | West to Northwest          | 0.002 to 0.003                 |
| 7/23/2003    | Southwest to Northwest     | 0.005 to 0.004                 |
| 11/13/2003   | Southwest                  | 0.009                          |
| 2/16/2004    | Southwest                  | 0.009                          |
| 5/6/2004     | Southwest                  | 0.004                          |
| 9/2/2004     | West-Northwest             | 0.005                          |
| 11/29/2004   | West to Southwest          | 0.005 to 0.006                 |
| 2/2/2005     | Northwest to Southwest     | 0.005                          |
| 5/9/2005     | Northwest                  | 0.01                           |
| 8/11/2005    | West                       | 0.004                          |
| 2/9/2006     | West                       | 0.003                          |

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.

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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<sup>TM</sup> 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 # 060209-1) RZ Date 2/9/06 Client Areo 2769

مر

# Site 889 W. Crand Ave. Oakland CA

|            | Well<br>Size | Sheen / | Depth to<br>Immiscible |              | Volume of<br>Immiscibles<br>Removed<br>(ml) | Depth to water<br>(ft.) | Depth to well<br>bottom (ft.) | Survey<br>Point: TOB<br>or | NP ©  |
|------------|--------------|---------|------------------------|--------------|---|-------------------------|-------------------------------|----------------------------|-------|
| Well ID    | (in.)<br>}   | Odor    | Liquid (ft.)           | Liquid (ft.) | (m)   | 9.04                    | 23.70                         | 04,009                     | Puige |
| A-1<br>A-2 | 3            |         |                        | <u></u>      |   | 10.43                   | 24.05                         |                            | 0.)   |
| A-3        | 3            |         |                        |              |   | 11.27                   | 28.47                         |                            |       |
| 1-4        | 3            |         |                        |              |   | [c.15                   | 27.73                         |                            |       |
| 15         | 2            |         |                        |              |   | 9.02                    | 24.18                         |                            | 5'    |
| 16         | 2            |         |                        |              |   | 9.23                    | 26.95                         |                            | 5'    |
| AR-1       | 6            |         |                        |              |   | 10.49                   | 07.75                         |                            | 6.0   |
| A-R-2      | 4            |         |                        |              |   | 10.03                   | 28.65                         |                            | 6.0.  |
| ADR-1      | 4            |         |                        |              |   | 19.05                   | 20.56                         |                            | 5     |
| ADR-2      | 4            |         |                        |              |   | 9.60                    | 25.86                         |                            | 6.0.  |
|            |              |         |                        |              |   |                         |                               |                            |       |
|            |              |         |                        |              |   |                         |                               | <br> <br>                  |       |
|            |              |         |                        |              |   | <u></u>                 |                               |                            |       |
|            |              |         |                        |              |   |                         |                               |                            |       |
|            |              |         |                        |              |   |                         |                               |                            | 1     |
|            |              |         |                        | 1            |   |                         |                               |                            |       |
|            |              |         |                        |              |   |                         |                               |                            |       |

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

| BTS #:  | 060209   | . DRZ         |   | Station # 2169                    |   |          |         |       |                  |  |  |
|---|--|---------------|---|-----------------------------------|---|----------|---------|-------|------------------|--|--|
| Sampler:  | DR   |               |   | Date: 2/9/                        | 106   |          |         |       |                  |  |  |
| Well I.D.:  | A -  | ł             |   | Well Diameter                     | r: 2 3  | 4        | 6       | 8     |                  |  |  |
| Total We  | ll Depth:  | 23.70         | 2   | Depth to Wate                     | r: 9.04   |          |         |       |                  |  |  |
| Depth to I  | Free Produ   | ct:           | ······                                      | Thickness of Free Product (feet): |   |          |         |       |                  |  |  |
| Reference   | ed to:   | RVC           | Grade                                       | D.O. Meter (if req'd):            |   |          |         |       |                  |  |  |
| <b></b>   | Well Diametr<br>1"<br>2"<br>3"                           | er j          | <u>Multiplier V</u><br>0.04<br>0.16<br>0.37 | 4"<br>6"                          | Multiplier<br>0.65<br>1.47<br>us <sup>2</sup> * 0.163 |          |         |       |                  |  |  |
| Purge Metho                                       | Purge Method: Bailer                                     |               |   | Sampling Method: Bailer           |   |          |         |       |                  |  |  |
|   |  | sposable Bail |   | KDisposable Bailer                |   |          |         |       |                  |  |  |
| Positive Air Displacement<br>Electric Submersible |  |               | Other                                       | Extraction F                      |   |          |         |       |                  |  |  |
|   |  | struc Submers |   | Other                             | :   | <u>.</u> |         |       |                  |  |  |
|   |  |               |   |                                   |   |          |         |       |                  |  |  |
| Top of Scree                                      | Top of Screen: If well is listed as<br>of screen. Otherw |               |   |                                   |   | el is be | elow th | e top | ٦                |  |  |
|   | 5.0  | 4             | x 3   | = I                               | 6.Z G   | als.     |         |       |                  |  |  |
|   | 1 Case Volu  | ıme (Gals.)   | Specified Vo                                |                                   | culated Volume  |          |         |       |                  |  |  |
| Time  | Temp (°F)  | pН            | Conductivity<br>(mS or <b>t</b> S           | Gals. Removed                     | Observatio  | ons      |         |       |                  |  |  |
| 1155  | 68.9   | 7.1           | 1058  | 5.4                               | Irpht c   | loyde    | 1       |       |                  |  |  |
| 1200  | 69.3   | 7.1           | 700 j                                       | 10.8                              | 11  |          | ,<br>   |       |                  |  |  |
| 1205  | 69.6   | 7.1           | 989   | 16.2                              | \$7   |          |         |       |                  |  |  |
|   |  |               |   |                                   |   |          |         |       |                  |  |  |
|   |  |               |   |                                   |   |          |         |       |                  |  |  |
| Did well o  | dewater?   | Yes           | No  | Gallons actual                    | ly evacuate   | d:       | 16.2    | •     |                  |  |  |
| Sampling  | Time:  | 1210          | )   | Sampling Date                     | e: 2/9/0  | 6        |         |       |                  |  |  |
| Sample I.   | D.: A  | - 1           |   | Laboratory: Pace Source Other     |   |          |         |       |                  |  |  |
| Analyzed  | for: GR  | D BFFEX       | MTBE DRO                                    | Other: Okys,                      | EDB, 1,2  | DU       | 4, Ef   | homo  | -                |  |  |
| D.O. (if r  | eq'd):   |               | Pre-purge:                                  | <sup>mg</sup> /                   | L Post-p  | urges    | 1.0     | 69    | <sup>ng</sup> /L |  |  |
| O.R.P. (if  | req'd):  |               | Pre-purge:                                  | mV                                | / Post-p  | urge:    |         |       | mV               |  |  |

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| BTS #:       | 060209                                | . JR 2   | •  | Station # 21                                     | 69               |                                       |                   |        |                   |
|--------------|---------------------------------------|--|--|--|------------------|---------------------------------------|-------------------|--------|-------------------|
| Sampler:     | DR                                    |  |  | Date: 2/9/                                       | 106              |                                       |                   |        | *                 |
| Well I.D.    | : A -                                 | 5  |  | Well Diameter                                    | r: P             | 3 4                                   | 6                 | 8      |                   |
| Total We     | ll Depth: "                           | R2#  | 24.18  | Depth to Wate                                    | er: C            | Î. 02                                 |                   |        |                   |
| Depth to 2   | Free Produ                            | ict:   |  | Thickness of F                                   | ree Pr           | oduct (fe                             | et):              | -      |                   |
| Reference    | ed to:                                | RVC)   | Grade  | D.O. Meter (if                                   | ····             |                                       | (S)               | HA     | .CH               |
| Purge Metho  | Di<br>Positiv<br>Elec                 | Bailer<br>sposable Ba<br>e Air Displa<br>etric Submer<br>straction Pur | 0.04<br>0.16<br>0.37<br>iler<br>accement<br>rsible | 4"<br>6"<br>Other radii<br>Sampling Method:      | XDispos<br>Extra | Bailer<br>sable Bailer<br>action Port |                   |        |                   |
| Top of Scree | Other:<br>cn: $\zeta'$<br>l Case Volu | une (Gals.)  |  | a no-purge, confirm<br>ise, the well must be<br> |                  | Gals.                                 | b <b>el</b> ow th | ie top |                   |
| . Time       | Temp (°F)                             | pHq  | Conductivity<br>(mS or (S)                         | Gals. Removed                                    | Obse             | ervations                             |                   |        |                   |
| 1110         | 62.9                                  | 7.3  | 1015   |  | cle              | ën 🗌                                  |                   |        |                   |
|              |                                       |  |  |  |                  |                                       |                   |        |                   |
| Did well d   | lewater?                              | Yes  | (No  | Gallons actuall                                  | ly evac          | uated:                                | $\overline{}$     |        |                   |
| Sampling     | Time:                                 | 10   |  | Sampling Date                                    | : 2/             | 4/06                                  | <del></del>       |        |                   |
| Sample I.I   | D.: A                                 | - 5  |  | Laboratory:                                      | Pace             | Squoia                                | Oth               | ler    |                   |
| Analyzed     | for: GR                               | D BFFEX  | MTBE DRO   | Other: Orys,                                     | EDB.             | 1,2 00                                | 14, Et            | homo   |                   |
| D.O. (if re  | eq'd):                                |  | Pre-purge:   | <sup>mg</sup> /L                                 | <u> </u>         | est-purge                             | T                 | AI     | <sup>nig</sup> /L |
| O.R.P. (if   | req'd):                               |  | Pre-purge:   | mV   | Р                | ost-purge:                            |                   | ·      | mV                |

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ς.

| ·            |   | · ···· ·····  |                        |                      |                           |            |
|--------------|---|---------------|------------------------|----------------------|---------------------------|------------|
| BTS #:       | 060209  | - JR2         |                        | Station # 216        | 59                        |            |
| Sampler:     | DR  |               |                        | Date: 2/9/           | 06                        |            |
| Well I.D.:   | : A -   | 6             |                        | Well Diameter        | : 🕭 3 4                   | 68         |
| Total Wel    | ll Depth:   | 26.           | 95                     | Depth to Water       | r: 9.23                   |            |
| Depth to 1   | Free Produ  | ct:           |                        | Thickness of F       | ree Product (feet)        | ):         |
| Reference    | ed to:  | Ŵ             | Grade                  | D.O. Meter (if       | req'd):                   | SB HACH    |
|              | Well Diamet   | er            | -                      |                      | Aultiplier                |            |
|              | 1"<br>2"  |               | 0.04<br>0.16           |                      | 0.65<br>1.47              |            |
|              | 3"  |               | 0.37                   | -                    | s <sup>2</sup> * 0.163    |            |
| Purge Metho  | د   | Bailer        |                        | Sampling Method:     |                           |            |
| I dige Meth  |   | sposable Bai  |                        |                      |                           |            |
|              |   |               |                        |                      | XDisposable Bailer        |            |
|              | and the second se | Air Displac   |                        | 04                   | <b>Extraction Port</b>    |            |
|              |   | tric Submers  |                        | Other:               |                           |            |
|              |   | xtraction Pun | -                      |                      |                           |            |
|              | Other:  | <u>.</u>      |                        |                      |                           |            |
| Top of Scree | en:   |               | If well is listed as a | no-purge, confirm    | that water level is below | ow the top |
| •            |   |               |                        | se, the well must be |                           |            |
|              | [   |               |                        |                      | puibou.                   |            |
|              | _   |               | x                      |                      | Gals.                     |            |
|              | I Case Volu   | une (Gals.)   | Specified Vo           | lumes Cale           | culated Volume            |            |
| I            | L   |               |                        | χ                    |                           |            |
|              | <b>n</b> (0m)   |               | Conductivity           | N I                  |                           |            |
| Time         | Temp (°F)   | pH            | (mS or 🔊)              | Gals. Removed        | Observations              |            |
| 1050         | 67.3  | 6.8           | 1039                   |                      | clur / color              |            |
|              |   |               |                        |                      |                           | خر         |
|              |   | <u></u>       |                        |                      |                           |            |
|              |   |               |                        |                      |                           |            |
|              |   | ·····         |                        |                      |                           |            |
| Did well o   | dewater?  | Yes           | ND                     | Gallons actuall      | y evacuated: -            |            |
| Sampling     | Time: /   | 050           |                        | Sampling Date        |                           |            |
| Sample I.    |   | - 6           |                        | Laboratory:          | Pace Sequoia              | Other      |
| Analyzed     |   | Ø BFEX        | MTBE DRO               |                      | FOB, 1,2 Det.             |            |
| D.O. (if re  | eq'd):  |               | Pre-purge:             | 1010                 | Post-purge                | 1.27 mg/L  |
| O.R.P. (if   | req'd):   |               | Pre-purge:             | mV                   | Post-purge:               | mV         |
|              |   |               |                        |                      |                           |            |

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| BTS #:       | 060209   | . DRZ         |   | Station # 216        | 59                      |                 |                  |
|--------------|--|---------------|---|----------------------|-------------------------|-----------------|------------------|
| Sampler:     | DR   |               |   | Date: 2/9/           | 06                      |                 |                  |
| Well I.D.    | : ADR-1  |               |   | Well Diameter        | : 2 3 (4)               | 68              |                  |
| Total We     | ll Depth:  | 20.56         | ,   | Depth to Water       | r: 10.05                |                 |                  |
| Depth to     | Free Produ   | ct:           |   | Thickness of F       | ree Product (fee        | et):            |                  |
| Reference    | ed to:   | RVC)          | Grade                                       | D.O. Meter (if       | req'd):                 | (TSB            | HACH             |
|              | Well Diamet  | <u>er</u>     |   | Vell Diameter N      | Aultiplier              |                 |                  |
|              | 1"<br>2"   |               | 0.04<br>0.16                                |                      | ).65<br>I.47            |                 |                  |
|              | 3"   |               | 0.37  | -                    | us <sup>2</sup> * 0.163 |                 |                  |
| Purge Metho  | od•  | Bailer        |   | Sampling Method:     | Bailer                  | ····=··         |                  |
| r urge menn  |  | sposable Bai  | and a series and and a series of the series |                      | XDisposable Bailer      |                 |                  |
|              |  | e Air Displac | *****                                       |                      | Extraction Port         |                 |                  |
|              |  | tric Submers  |   | Other                |                         |                 |                  |
|              | and a second | xtraction Pun |   | Ottior.              |                         |                 |                  |
|              | Other:   |               | 15  |                      |                         |                 |                  |
|              |  | ,             |   |                      |                         |                 |                  |
| Top of Scree | en: <u> </u>   |               | If well is listed as a                      | a no-purge, confirm  | that water level is b   | below the top   |                  |
|              |  |               | of screen. Otherwi                          | se, the well must be | purged.                 |                 |                  |
|              |  |               |   |                      |                         |                 |                  |
|              |  |               | X   |                      | Gals.                   |                 |                  |
|              | 1 Case Volu  | une (Gals.)   | Specified Vo                                | lumes Cale           | culated Volume          |                 |                  |
|              |  |               | Conductivity                                | [                    |                         |                 |                  |
| Time         | Temp (°F)  | pН            | (mS or S                                    | Gals. Removed        | Observations            |                 |                  |
|              |  | •             | 11-1  |                      | 1                       | <del>~~~~</del> |                  |
| 1130         | 67.9   | 7.0           | // /0                                       |                      | Clear                   |                 |                  |
|              |  |               |   |                      |                         |                 |                  |
|              |  | <u></u>       |   |                      |                         |                 |                  |
|              |  |               |   |                      |                         |                 |                  |
|              |  |               |   |                      |                         | <u> </u>        |                  |
|              |  |               |   |                      |                         |                 |                  |
|              | <u> </u>   | <u></u>       |   | l                    | · · · · ·               |                 |                  |
|              |  |               |   |                      |                         |                 |                  |
| Did well o   | dewater?   | Yes           | No  | Gallons actual       | y evacuated: –          |                 |                  |
|              |  |               |   | ·····                |                         | <u></u>         |                  |
| Sampling     | Time:  | 30            | · · · · · · · · · · · · · · · · · · ·       | Sampling Date        | : <u>Z/9/00</u>         |                 |                  |
| Sample I.    | D.: ADI  | R-1           |   | Laboratory:          | Pace Sequoia            | Other           |                  |
| Analyzed     | for: GR  | brex          | MTBE DRO                                    | Other: Oxys,         | FOB, 1,2 DC             | A, Ethomo       |                  |
| D.O. (if r   | eq'd):   |               | Pre-purge:                                  | <sup>mg</sup> /L     | Post-purge              | 1.09            | <sup>mg</sup> /L |
| O.R.P. (if   | f req'd):  |               | Pre-purge:                                  | mV                   | Post-purge:             |                 | mV               |
|              |  |               |   |                      |                         |                 |                  |

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## 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; from a BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM 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:

2169 Station # \$89 W. Grand Ave. Oakland CA Station Address Total Gallons Collected From Groundwater Monitoring Wells: 16.2 added equip. any other rinse water adjustments TOTAL GALS. 16.2 loaded onto BTS vehicle # BTS event # time date 060209- DRZ 1235 219106 signature REC'D AT time date unloaded by signature

## 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.



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

28 February, 2006

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

RE: ARCO #2169, Oakland, CA Work Order: MPB0725

Enclosed are the results of analyses for samples received by the laboratory on 02/13/06 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race Senior 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.

Page 1 of 7



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| ANALYTICAL REPORT FOR SAMPLES |  |           |  |  |  |  |  |  |
|-------------------------------|--|-----------|--|--|--|--|--|--|
| Oakland CA, 94612             | akland CA, 94612 Project Manager:Barbara Jakub |           |  |  |  |  |  |  |
| 1333 Broadway, Suite 800      | Project Number:G0C2D-0010                      | Reported: |  |  |  |  |  |  |
| URS Corporation [Arco]        | Project: ARCO #2169, Oakland, CA               | MPB0725   |  |  |  |  |  |  |

| Sample ID        | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|------------------|---------------|--------|----------------|----------------|
| A-1              | MPB0725-01    | Water  | 02/09/06 12:10 | 02/13/06 17:40 |
| A-5              | MPB0725-02    | Water  | 02/09/06 11:10 | 02/13/06 17:40 |
| A-6              | MPB0725-03    | Water  | 02/09/06 10:50 | 02/13/06 17:40 |
| ADR-1            | MPB0725-04    | Water  | 02/09/06 11:30 | 02/13/06 17:40 |
| TB-2169-02092006 | MPB0725-05    | Water  | 02/09/06 00:00 | 02/13/06 17:40 |

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 no custody seals.

Sequoia Analytical - Morgan Hill



| URS Corporation [Arco]<br>1333 Broadway, Suite 800<br>Oakland CA, 94612 | Project:ARCO #2169, Oakland, CA<br>Project Number:G0C2D-0010<br>Project Manager:Barbara Jakub |                    |            |          |         |          | MPB0725<br>Reported:<br>02/28/06 18:22 |           |      |
|---|---|--------------------|------------|----------|---------|----------|--|-----------|------|
| Vo  | latile Org  |                    | -          | •        |         | od 8260] | B                                      |           |      |
|   | Sec   | quoia Ana          | lytical    | - Morga  | an Hill |          |  |           |      |
| Analyte   | Result  | Reporting<br>Limit | Units      | Dilution | Batch   | Prepared | Analyzed                               | Method    | Note |
| A-1 (MPB0725-01) Water Sampled: 02/                                     | 09/06 12:10   | Received: 02/      | /13/06 17: | :40      |         |          |  |           | CK   |
| tert-Amyl methyl ether  | ND  | 0.50               | ug/l       | 1        | 6B27009 | 02/27/06 | 02/27/06                               | EPA 8260B |      |
| Benzene   | 60  | 0.50               | n          | 4        | 11      | н        | "                                      | н         |      |
| tert-Butyl alcohol  | ND  | 20                 | ŋ          | **       | **      | n        | "                                      | IJ        |      |
| Di-isopropyl ether  | ND  | 0.50               | н          | "        | "       |          | "                                      | н         |      |
| 1,2-Dibromoethane (EDB)   | ND  | 0.50               | н          |          |         | и        | "                                      | н         |      |
| 1,2-Dichloroethane  | ND  | 0.50               | н          | *        |         | n        | 99                                     | U         |      |
| Ethanol   | ND  | 300                | U          | *        | "       | "        | "                                      | н         |      |
| Ethyl tert-butyl ether  | ND  | 0.50               | н          |          | **      | "        | "                                      | n         |      |
| Ethylbenzene  | 3.5   | 0.50               | н          | 11       | n       |          | "                                      | U         |      |
| Methyl tert-butyl ether   | 5.6   | 0.50               | н          | 11       | 11      | н        | "                                      | н         |      |
| Toluene   | 1.5   | 0.50               | U)         | *        | n       |          | "                                      | U         |      |
| Xylenes (total)   | 5.1   | 0.50               | н          | n        | 11      | н        | *                                      | н         |      |
| Gasoline Range Organics (C4-C12)  | 170   | 50                 | п          | n        | 11      | n        | "                                      | n         |      |
| Surrogate: 1,2-Dichloroethane-d4  |   | 81 %               | 60-1       | 135      | n       | "        | "                                      | "         |      |
| Surrogate: Toluene-d8   |   | 90 %               | 70-1       | 120      | "       | 11       | #                                      | H         |      |
| Surrogate: Dibromofluoromethane   |   | 80 %               | 65-1       | 130      | "       | "        | "                                      | "         |      |
| Surrogate: 4-Bromofluorobenzene   |   | 94 %               | 70-1       |          | #       | "        | "                                      | n         |      |
| A-5 (MPB0725-02) Water Sampled: 02/                                     | 09/06 11:10   |                    |            |          |         |          |  |           | СК   |
| tert-Amyl methyl ether  | ND  | 0.50               | ug/l       | 1        | 6B27009 | 02/27/06 | 02/27/06                               | EPA 8260B |      |
| Benzene   | 0.62  | 0.50               | "          |          | 11      | н        | 11                                     | н         |      |
| tert-Butyl alcohol  | ND  | 20                 | D          | 11       | **      |          | n                                      | u         |      |
| Di-isopropyl ether  | ND  | 0.50               | ut .       | "        | "       | п        | n                                      | н         |      |
| 1,2-Dibromoethane (EDB)   | ND  | 0.50               | н          | 11       | **      | н        | **                                     | n         |      |
| 1,2-Dichloroethane  | ND  | 0.50               | u.         | Ħ        | **      | н        | n                                      | U U       |      |
| Ethanol   | ND  | 300                | tr         | "        | .,      | "        | "                                      | 11        |      |
| Ethyl tert-butyl ether  | ND  | 0.50               | н          | 11       | **      |          | n                                      | n         |      |
| Ethylbenzene  | ND  | 0.50               | Ir         | 11       | \$7     |          | 17                                     | и         |      |
| Methyl tert-butyl ether   | ND  | 0.50               | **         | "        |         | н        | "                                      | ш         |      |
| Toluene   | ND  | 0.50               | n          | 17       | ••      |          | "                                      | 'n        |      |
| Xylenes (total)   | ND  | 0.50               | u          | 11       | "       | п        | "                                      | n         |      |
| Gasoline Range Organics (C4-C12)  | ND  | 50                 | 11         | 11       | "       | н        | "                                      | 11        |      |
| Surrogate: 1,2-Dichloroethane-d4  |   | 77 %               | 60-1       | 135      | "       | "        | "                                      | "         |      |
| Surrogate: Toluene-d8   |   | 87 %               | 70-2       |          | н       | n        | #                                      | "         |      |
| Surrogate: Dibromofluoromethane   |   | 83 %               | 65-1       |          | и       | "        | "                                      | "         |      |
| Service Provonorial Villenance  |   | 05 /0              | 00-1       | ~~~      |         |          |  |           |      |

Sequoia Analytical - Morgan Hill



| URS Corporation [Arco]<br>1333 Broadway, Suite 800<br>Oakland CA, 94612 |                        | Project:ARCO #2169, Oakland, CA<br>Project Number:G0C2D-0010<br>Project Manager:Barbara Jakub |           |          |         |          |          | MPB0725<br>Reported:<br>02/28/06 18:22 |      |
|---|------------------------|---|-----------|----------|---------|----------|----------|--|------|
|   | Volatile Orga          | nic Com   | pounds    | by EPA   | A Metho | od 8260] | B        |  |      |
|   | Seq                    | uoia Ana  | lytical   | - Morg   | an Hill |          |          |  |      |
| Analyte   | Result                 | Reporting<br>Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method                                 | Note |
| A-6 (MPB0725-03) Water Sam  | pled: 02/09/06 10:50 1 | Received: 02  | /13/06 17 | :40      | ·       |          |          |  | CH   |
| tert-Amyl methyl ether  | 1.2                    | 0.50  | ug/l      | 1        | 6B27009 | 02/27/06 | 02/27/06 | EPA 8260B                              |      |
| Benzene   | ND                     | 0.50  | "         | *        | "       | 77       | 11       | н                                      |      |
| tert-Butyl alcohol  | ND                     | 20  | u         | **       | н       | 11       | п        | н                                      |      |
| Di-isopropyl ether  | ND                     | 0.50  | п         | 17       | 11      | 11       | D        | u –                                    |      |
| 1,2-Dibromoethane (EDB)   | ND                     | 0.50  |           | n        | u       | **       |          | u                                      |      |
| 1,2-Dichloroethane  | ND                     | 0.50  | u         | 11       | 11      | 14       | н        | н                                      |      |
| Ethanol   | ND                     | 300   | н         | 11       | ч       | 11       | IJ       | u                                      |      |
| Ethyl tert-butyl ether  | ND                     | 0.50  | n         | n        | п       | 14       | н        | н                                      |      |
| Ethylbenzene  | ND                     | 0.50  | н         | 11       | н       | **       | н        | n                                      |      |
| Methyl tert-butyl ether   | 17                     | 0.50  | "         | "        |         | **       | ų        | n                                      |      |
| Foluene   | ND                     | 0.50  | n         | 11       | н       | 17       | н        | U-                                     |      |
| Xylenes (total)   | ND                     | 0.50  |           | 17       | ١r      | **       | 0        | u                                      |      |
| Gasoline Range Organics (C4-C1  | 12) 210                | 50  | **        |          | *       | **       | ų        | п                                      |      |
| Surrogate: 1,2-Dichloroethane-d4  |                        | 78 %  | 60-       | 135      | "       | "        | 0        | "                                      |      |
| Surrogate: Toluene-d8   |                        | 103 %   | 70-       | 120      | "       | "        | п        | п                                      |      |
| Surrogate: Dibromofluoromethane   | •                      | 85 %  | 65-       | 130      | "       | "        | ĸ        | "                                      |      |
| Surrogate: 4-Bromofluorobenzene   |                        | 111 %   | 70-       | 120      | "       | n        | n        | п                                      |      |
| 0   | ampled: 02/09/06 11:3  |   |           |          |         |          |          |  | CH   |
| tert-Amyl methyl ether  | ND                     | 0.50  | ug/l      | 1        | 6B27009 | 02/27/06 | 02/27/06 | EPA 8260B                              |      |
| Benzene   | ND                     | 0.50  | "         | 11       | tr      | п        | u        | n                                      |      |
| tert-Butyl alcohol  | ND                     | 20  |           | п        | **      | n        | н        | н                                      |      |
| Di-isopropyl ether  | ND                     | 0.50  |           | IJ       | 11      | и        | 0        | tı                                     |      |
| 1,2-Dibromoethane (EDB)   | ND                     | 0.50  | "         | н        | n       | 11       | u        | н                                      |      |
| 1,2-Dichloroethane  | ND                     | 0.50  | "         | н        | **      | n        | н        | н                                      |      |
| Ethanol   | ND                     | 300   | **        | ų        | 17      | n        | u        | и                                      |      |
| Ethyl tert-butyl ether  | ND                     | 0.50  | "         | н        | п       | 11       | u        | п                                      |      |
| Ethylbenzene  | ND                     | 0.50  | 11        | 0        | н       | н        | н        | н                                      |      |
| Methyl tert-butyl ether   | 2.9                    | 0.50  | 17        | n        | "       | n        | u        | u                                      |      |
| Toluene   | ND                     | 0.50  | "         | 11       | 11      | н        |          | н                                      |      |
| Xylenes (total)   | ND                     | 0.50  | 11        | 11       | н       | н        | ч        | н                                      |      |
| Gasoline Range Organics (C4-C12   |                        | 50  | 11        | 11       | 11      | n        | н        | ч                                      |      |
| Surrogate: 1,2-Dichloroethane-d4  |                        | 77 %  | 60-       | 135      | "       | "        | n        | 'n                                     |      |
| Surrogate: Toluene-d8   |                        | 91%   |           | 120      | "       | n        | п        | "                                      |      |
| Surrogate: Dibromofluoromethane   |                        | 83 %  |           | 130      | "       | "        | "        | "                                      |      |
|   |                        |   |           |          |         | u .      | "        | #                                      |      |
| Surrogate: 4-Bromofluorobenzene   |                        | 90 %  | 70-       | 120      | "       | "        | 4        | "                                      |      |

Sequoia Analytical - Morgan Hill



| URS Corporation [Arco]   | Project:ARCO #2169, Oakland, CA | MPB0725        |
|--------------------------|---------------------------------|----------------|
| 1333 Broadway, Suite 800 | Project Number:G0C2D-0010       | Reported:      |
| Oakland CA, 94612        | Project Manager: Barbara Jakub  | 02/28/06 18:22 |

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Sequoia Analytical - Morgan Hill

|                                    |           | Reporting |       | Spike    | Source    |             | %REC   |     | RPD   |       |
|------------------------------------|-----------|-----------|-------|----------|-----------|-------------|--------|-----|-------|-------|
| Analyte                            | Result    | Limit     | Units | Level    | Result    | %REC        | Limits | RPD | Limit | Notes |
| Batch 6B27009 - EPA 5030B P/T /    | EPA 8260B |           |       |          |           |             |        |     |       |       |
| Blank (6B27009-BLK1)               |           |           |       | Prepared | & Analyze | ed: 02/27/0 | 06     |     |       |       |
| tert-Amyl methyl ether             | ND        | 0.50      | ug/l  |          |           |             |        |     |       |       |
| Benzene                            | ND        | 0.50      |       |          |           |             |        |     |       |       |
| tert-Butyl alcohol                 | ND        | 5.0       | "     |          |           |             |        |     |       |       |
| Di-isopropyl ether                 | ND        | 0.50      | "     |          |           |             |        |     |       |       |
| 1,2-Dibromoethane (EDB)            | ND        | 0.50      | "     |          |           |             |        |     |       |       |
| 1,2-Dichloroethane                 | ND        | 0.50      | n     |          |           |             |        |     |       |       |
| Ethanol                            | ND        | 300       | 11    |          |           |             |        |     |       |       |
| Ethyl tert-butyl ether             | ND        | 0.50      | **    |          |           |             |        |     |       |       |
| Ethylbenzene                       | ND        | 0.50      | н     |          |           |             |        |     |       |       |
| Methyl tert-butyl ether            | ND        | 0.50      | "     |          |           |             |        |     |       |       |
| Toluene                            | ND        | 0.50      | U     |          |           |             |        |     |       |       |
| Xylenes (total)                    | ND        | 0.50      | 11    |          |           |             |        |     |       |       |
| Gasoline Range Organics (C4-C12)   | ND        | 50        | Ur    |          |           |             |        |     |       |       |
| Surrogate: 1,2-Dichloroethane-d4   | 4.02      |           | n     | 5.00     |           | 80          | 60-135 |     |       |       |
| Surrogate: Toluene-d8              | 4.27      |           | n     | 5.00     |           | 85          | 70-120 |     |       |       |
| Surrogate: Dibromofluoromethane    | 4.23      |           | 11    | 5.00     |           | 85          | 65-130 |     |       |       |
| Surrogate: 4-Bromofluorobenzene    | 4.47      |           | "     | 5.00     |           | <i>89</i>   | 70-120 |     |       |       |
| Laboratory Control Sample (6B27009 | -BS1)     |           |       | Prepared | & Analyze | ed: 02/27/  | 06     |     |       |       |
| tert-Amyl methyl ether             | 14.9      | 0.50      | ug/l  | 16.3     |           | 91          | 80-115 |     |       |       |
| Benzene                            | 4.65      | 0.50      | "     | 5.04     |           | 92          | 65-115 |     |       |       |
| tert-Butyl alcohol                 | 159       | 5.0       | "     | 169      |           | 94          | 75-150 |     |       |       |
| Di-isopropyl ether                 | 15.4      | 0.50      | **    | 16.2     |           | 95          | 75-125 |     |       |       |
| 1,2-Dibromoethane (EDB)            | 17.2      | 0.50      | 11    | 16.6     |           | 104         | 85-120 |     |       |       |
| 1,2-Dichloroethane                 | 14.0      | 0.50      | 11    | 15.5     |           | 90          | 85-130 |     |       |       |
| Ethanol                            | 181       | 300       | u     | 165      |           | 110         | 70-135 |     |       |       |
| Ethyl tert-butyl ether             | 14.0      | 0.50      | Ħ     | 16.4     |           | 85          | 75-130 |     |       |       |
| Ethylbenzene                       | 7.13      | 0.50      | **    | 7.28     |           | 98          | 75-135 |     |       |       |
| Methyl tert-butyl ether            | 6.57      | 0.50      | rŧ    | 7.84     |           | 84          | 65-125 |     |       |       |
| Toluene                            | 35.3      | 0.50      | н     | 38.0     |           | 93          | 85-120 |     |       |       |
| Xylenes (total)                    | 37.6      | 0.50      |       | 40.8     |           | 92          | 85-125 |     |       |       |
| Gasoline Range Organics (C4-C12)   | 455       | 50        | "     | 440      |           | 103         | 60-140 |     |       |       |
| Surrogate: 1,2-Dichloroethane-d4   | 4.15      |           | "     | 5.00     |           | 83          | 60-135 |     |       |       |
| Surrogate: Toluene-d8              | 4.64      |           | "     | 5.00     |           | <i>93</i>   | 70-120 |     |       |       |
| Surrogate: Dibromofluoromethane    | 4.20      |           | "     | 5.00     |           | 84          | 65-130 |     |       |       |
| Surrogate: 4-Bromofluorobenzene    | 4.88      |           | "     | 5.00     |           | 98          | 70-120 |     |       |       |

Sequoia Analytical - Morgan Hill



| URS Corporation [Arco]<br>1333 Broadway, Suite 800<br>Oakland CA, 94612 |                    | Project N            | umber:G(     | RCO #2169,<br>)C2D-0010<br>nrbara Jakub |                  | CA         |                |      | Repo         | 0725<br>orted:<br>16 18:22 |
|---|--------------------|----------------------|--------------|---|------------------|------------|----------------|------|--------------|----------------------------|
| Volatile Or   | ganic Comp<br>Sequ | oounds b<br>uoia Ana | •            |   |                  | - Qual     | ity Con        | trol |              |                            |
| 4   | Decult             | Reporting            | -<br>I Inita | Spike<br>Level                          | Source<br>Result | %REC       | %REC<br>Limits | RPD  | RPD<br>Limit | Notes                      |
| Analyte   | Result             | Limit                | Units        | Lever                                   | Kesun            | 70KEC      | Lums           | MD   | Link         | Notes                      |
| Batch 6B27009 - EPA 5030B P/T / E<br>Matrix Spike (6B27009-MS1)         | Source: MI         | PR0617_04            |              | Prepared                                | & Analyz         | ed: 02/27/ | 06             |      |              |                            |
| tert-Amyl methyl ether  | 1440               | 50                   | ug/l         | 1630                                    | ND               | 88         | 80-115         |      |              |                            |
| Benzene   | 448                | 50                   | "            | 504                                     | ND               | 89         | 65-115         |      |              |                            |
| tert-Butyl alcohol  | 20200              | 500                  | **           | 16900                                   | 1900             | 108        | 75-120         |      |              |                            |
| Di-isopropyl ether  | 1480               | 50                   | н            | 1620                                    | ND               | 91         | 75-125         |      |              |                            |
| 1,2-Dibromoethane (EDB)   | 1730               | 50                   | n            | 1660                                    | ND               | 104        | 85-120         |      |              |                            |
| 1,2-Dichloroethane  | 1420               | 50                   | U            | 1550                                    | ND               | 92         | 85-130         |      |              |                            |
| Ethanol   | 12700              | 10000                | U            | 16500                                   | ND               | 77         | 70-135         |      |              |                            |
| Ethyl tert-butyl ether  | 1330               | 50                   | "            | 1640                                    | ND               | 81         | 75-130         |      |              |                            |
| Ethylbenzene  | 705                | 50                   |              | 728                                     | ND               | 97         | 75-135         |      |              |                            |
| Methyl tert-butyl ether   | 5300               | 50                   | "            | 784                                     | 5000             | 38         | 65-125         |      |              | BB,LN                      |
| Toluene   | 3370               | 50                   | 'n           | 3800                                    | ND               | 89         | 85-120         |      |              |                            |
| Xylenes (total)   | 3720               | 50                   | n            | 4080                                    | ND               | 91         | 85-125         |      |              |                            |
| Gasoline Range Organics (C4-C12)  | 44300              | 5000                 | п            | 44000                                   | 5500             | 88         | 60-140         |      |              |                            |
| Surrogate: 1,2-Dichloroethane-d4  | 4.20               |                      | "            | 5.00                                    |                  | 84         | 60-135         |      |              |                            |
|   | 4.20<br>4.50       |                      | "            | 5.00                                    |                  | 90         | 70-120         |      |              |                            |
| Surrogate: Toluene-d8   | 4.09               |                      | n            | 5.00                                    |                  | 90<br>82   | 65-130         |      |              |                            |
| Surrogate: Dibromofluoromethane   | 4.85               |                      | "            | 5.00                                    |                  | 97         | 70-120         |      |              |                            |
| Surrogate: 4-Bromofluorobenzene   |                    |                      |              |   |                  |            |                |      |              |                            |
| Matrix Spike Dup (6B27009-MSD1)   | Source: M          |                      |              | Prepared                                |                  |            |                |      |              |                            |
| tert-Amyl methyl ether  | 1410               | 50                   | ug/l         | 1630                                    | ND               | 87         | 80-115         | 2    | 15           |                            |
| Benzene   | 448                | 50                   | n            | 504                                     | ND               | 89         | 65-115         | 0    | 20           |                            |
| tert-Butyl alcohol  | 20300              | 500                  | U            | 16900                                   | 1900             | 109        | 75-120         | 0.5  | 25           |                            |
| Di-isopropyl ether  | 1520               | 50                   | v            | 1620                                    | ND               | 94         | 75-125         | 3    | 15           |                            |
| 1,2-Dibromoethane (EDB)   | 1690               | 50                   | ti           | 1660                                    | ND               | 102        | 85-120         | 2    | 15           |                            |
| 1,2-Dichloroethane  | 1360               | 50                   | 11           | 1550                                    | ND               | 88         | 85-130         | 4    | 20           |                            |
| Ethanol   | 18000              | 30000                | 90           | 16500                                   | ND               | 109        | 70-135         | 35   | 35           |                            |
| Ethyl tert-butyl ether  | 1310               | 50                   | н            | 1640                                    | ND               | 80         | 75-130         | 2    | 25           |                            |
| Ethylbenzene  | 746                | 50                   | "            | 728                                     | ND               | 102        | 75-135         | 6    | 15           |                            |
| Methyl tert-butyl ether   | 5170               | 50                   |              | 784                                     | 5000             | 22         | 65-125         | 2    | 20           | BB,Lì                      |
| Toluene   | 3480               | 50                   | U            | 3800                                    | ND               | 92         | 85-120         | 3    | 20           |                            |
| Xylenes (total)   | 3890               | 50                   | U            | 4080                                    | ND               | 95         | 85-125         | 4    | 20           |                            |
| Gasoline Range Organics (C4-C12)  | 44500              | 5000                 | "            | 44000                                   | 5500             | 89         | 60-140         | 0.5  | 25           |                            |
| Surrogate: 1,2-Dichloroethane-d4  | 3.95               |                      | 11           | 5.00                                    |                  | 79         | 60-135         |      |              |                            |
| Surrogate: Toluene-d8   | 4.43               |                      | n            | 5.00                                    |                  | <i>89</i>  | 70-120         |      |              |                            |
| Surrogate: Dibromofluoromethane   | 4.01               |                      | p            | 5.00                                    |                  | 80         | 65-130         |      |              |                            |
| Surrogate: 4-Bromofluorobenzene   | 4.83               |                      | 17           | 5.00                                    |                  | 97         | 70-120         |      |              |                            |

Sequoia Analytical - Morgan Hill



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

| URS Corp  | oration [Arco]                                 | Project: ARCO #2169, Oakland, CA     | MPB0725        |
|-----------|--|--------------------------------------|----------------|
| 1333 Broa | udway, Suite 800                               | Project Number:G0C2D-0010            | Reported:      |
| Oakland C | CA, 94612                                      | Project Manager:Barbara Jakub        | 02/28/06 18:22 |
|           |  | Notes and Definitions                |                |
| CK        | Initial analysis within holding time but faile | d QA/QC criteria                     |                |
| BB,LN     | Sample > 4x spike concentration.               |                                      |                |
| DET       | Analyte DETECTED                               |                                      |                |
| ND        | Analyte NOT DETECTED at or above the report    | ng limit or MDL, if MDL is specified |                |
| NR        | Not Reported                                   |                                      |                |
| dry       | Sample results reported on a dry weight basis  |                                      |                |
| RPD       | Relative Percent Difference                    |                                      |                |
|           |  |                                      |                |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

| Chain | of | Custody | Record |
|-------|----|---------|--------|
|-------|----|---------|--------|

|      |      | 1 |
|------|------|---|
| Page | _of_ |   |



#### Project Name: Analytical for QMR Sampling

 BP BU/AR Region/Enfos Segment:
 BP > Americas > West Coast > Retail > WCBU > CA > Central > 2169 > HistoricalBL

 State or Lead Regulatory Agency:
 California Regional Water Quality Control Board - San France

Requested Due Date (mm/dd/yy): 10 Day TAT

 est Coast > Retail > WCBU >
 On-site
 T

 9 > HistoricalBL
 Sky Condi

 r Quality Control Board - San Fra
 Meteorolog

 0 Day TAT
 Wind Speer

| -site Time:          | Temp:      |   |
|----------------------|------------|---|
| f-site Time:         | Temp:      | _ |
| y Conditions: (L     | ur         | _ |
| teorological Events: |            |   |
| nd Speed:            | Direction: |   |
|                      | ··· ···    | - |

| Lab Name: Sequoia       BP/AR Facility No.:       2169       Consultant/Contractor:       URS         Address:       885 Jarvis Drive       BP/AR Facility Address:       889 W. Grand Ave., Oakland, CA 94607       Address:       1333 Broadway, Suite 800         Morgan Hill, CA 95037       Site Lat/Long:       37.814558 / -122.277       Oakland, CA 94612         Lab PM: Lisa Race / Katt Min       California Global ID No.:       T0600100112       Consultant/Contractor Project No.:       38487531         Tele/Fax:       408.782.8156 / 408.782.6308       Bafos Project No.:       G0C2D-0010       Consultant/Contractor PM:       Barb Jakub         BP/AR PM Contact:       Paul Supple       Provision or RCOP:       Provision       Tele/Fax:       510.874.3296 / 510.874.3268         Address:       P.O. Box 6549       Phase/WBS:       04 - Mon/Remed by Natural Attenuation       Report Type & QC Level:       Level 1 with BDF         Moraga, CA 94570       Sub Phase/Task:       03 - Analytical       B-mail BDD To:       Donna Cosper@urscorp.com         Tele/Fax:       925.299.8891 / 925.299.8872       Cost Blement:       05 - Subcontracted Costs       Invoice to:       Atlantic Richfield Company         Lab Bottle Order No:2169       Matrix       Preservative       Requested Analysis |          |
|---|----------|
| Initigan Init, CA 93037       One Data Doug         Lab PM: Lisa Race / Katt Min       California Global ID No.: T0600100112       Consultant/Contractor Project No.: 38487531         Tele/Fax: 408.782.8156 / 408.782.6308       Enfos Project No.: G0C2D-0010       Consultant/Contractor PM: Barb Jakub         BP/AR PM Contact: Paul Supple       Provision or RCOP: Provision       Tele/Fax: 510.874.3296 / 510.874.3268         Address: P.O. Box 6549       Phase/WBS: 04 - Mon/Remed by Natural Attenuation       Report Type & QC Level: Level 1 with EDF         Moraga, CA. 94570       Sub Phase/Task: 03 - Analytical       B-mail EDD To: Donna Cosper@urscorp.com         Tele/Fax: 925.299.8891 / 925.299.8872       Cost Element: 05 - Subcontracted Costs       Invoice to: Atlantic Richfield Company         Lab Bottle Order No:2169       Matrix       Preservative       Requested Analysis   |          |
| Lab PM: Lisa Race / Katt Min       Cantonna Globar ID NC.:       1000000000000000000000000000000000000  |          |
| Interfail       Address:       Provision or RCOP:       Provision       Tele/Fax:       \$10.874.3296 / 510.874.3268         BP/AR PM Contact:       Paul Supple       Provision or RCOP:       Provision       Tele/Fax:       \$10.874.3296 / 510.874.3268         Address:       P.O. Box 6549       Phase/WBS:       04 - Mon/Remed by Natural Attenuation       Report Type & QC Level:       Level 1 with BDF         Moraga, CA.94570       Sub Phase/Task:       03 - Analytical       B-mail BDD To:       Donna Cosper@urscorp.com         Tele/Fax:       925.299.8891 / 925.299.8872       Cost Element:       05 - Subcontracted Costs       Invoice to:       Atlantic Richfield Company         Lab Bottle Order No:2169       Matrix       Preservative       Requested Analysis       Invoice to:  |          |
| Address: P.O. Box 6549       Phase/WBS:       04 - Mon/Remed by Natural Attenuation       Report Type & QC Level: Level 1 with EDF         Moraga, CA. 94570       Sub Phase/Task:       03 - Analytical       B-mail EDD To: Donna Cosper@urscorp.com         Tele/Fax: 925.299.8891 / 925.299.8872       Cost Blement:       05 - Subcontracted Costs       Invoice to: Atlantic Richfield Company         Lab Bottle Order No:2169       Matrix       Preservative       Requested Analysis  |          |
| Moraga, CA. 94570       Sub Phase/Task:       03 - Analytical       E-mail EDD To:       Donna Cosper@urscorp.com         Tele/Fax: 925.299.8891 / 925.299.8872       Cost Element:       05 - Subcontracted Costs       Invoice to:       Atlantic Richfield Company         Lab Bottle Order No:2169       Matrix       Preservative       Requested Analysis   |          |
| Intologie, 011 945 / 10       Distriction       Distriction         Tele/Fax: 925,299,8891 / 925,299,8872       Cost Blement:       05 - Subcontracted Costs       Invoice to:       Atlantic Richfield Company         Lab Bottle Order No:2169       Matrix       Preservative       Requested Analysis   |          |
| Lab Bottle Order No:2169     Matrix     Preservative     Requested Analysis   |          |
|   |          |
|   |          |
| Item<br>No.     Sample Description     H     Air<br>bill     No. of Containers       Item No.     No. of Containers       No.     No. of Containers       Item No.     No. of Containers  | .d       |
| 1 A-1 1210 2/406 X 01 3 X XXXX  |          |
|   |          |
|   |          |
| 3 A-6 1050 X 03 Y X X X   |          |
| 4 APR-1 1130 Y X ON Y X XXX   | <u>.</u> |
| 5 TB-2169-0209 2006 - X 05 2 On hold  |          |
|   | — ·<br>~ |
|   | `        |
| 7   |          |
| 8   |          |
| 9   |          |
|   |          |
| 10     Date     Time     Accepted By / Affiliation     Date       Sampler's Name:     Description     Description     Description     Description   | Time     |
| Dampier's Hame. John Schnet   | 542      |
|   |          |
|   | 17-55    |
| Shipment Tracking No:   |          |
| Special Instructions:   |          |
|   |          |
| tody Seals In Place Yes No X Temp Blank Yes X No Cooler Temperature on Receipt 2.3 90 Trip Blank Yes X No   |          |

Vistribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

|                                       | •                           |               |                     |                                       |                                       |          | •            |                                       | ·. ·                                  |                                       |  |  |  |
|---------------------------------------|-----------------------------|---------------|---------------------|---------------------------------------|---------------------------------------|----------|--------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|
|                                       |                             | SEQUO         | A AN                | ALYTICAL SAM                          | PLE RECE<br>2- 13-0                   |          | G.           |                                       |                                       |                                       |  |  |  |
| CLIENT NAME:                          | Alama URS                   | •             |                     | DATE REC'D AT LAB                     | For Regulatory Purposes?              |          |              |                                       |                                       |                                       |  |  |  |
| REC. BY (PRINT)                       | EB                          |               |                     | TIME REC'D AT LAB:                    | 1740                                  |          |              |                                       |                                       |                                       |  |  |  |
| WORKORDER:                            | MPB0725                     |               |                     | DATE LOGGED IN:                       | 2/16                                  | 106      | . '          | TER YES (NO)'                         |                                       |                                       |  |  |  |
| WORKORD                               |                             |               |                     |                                       |                                       |          |              |                                       |                                       |                                       |  |  |  |
| CIRCLE THE APPRO                      | OPRIATE RESPONSE            | LAB           | DASH                | CLIENT ID                             | CONTAINER<br>DESCRIPTION              | PRESERV  | pН           | SAMPLE<br>MATRIX                      | DATE<br>SAMPLED                       | REMARKS:<br>CONDITION (ETC.)          |  |  |  |
|                                       |                             | SAMPLE #      | ₩.                  |                                       | DESCRIPTION                           | AllVL    |              | MAIGA                                 | SAMFEED                               |                                       |  |  |  |
| 1. Custody Seal(s)                    | Present / Absent            |               |                     | · · · · · · · · · · · · · · · · · · · |                                       |          | •            | · · · · · · · · · · · · · · · · · · · |                                       |                                       |  |  |  |
|                                       | Intact/-Broken*             | , <u> </u>    | · · ·               |                                       |                                       |          |              | ·                                     | ~                                     | /                                     |  |  |  |
| 2. Chain-of-Custody                   | Present / Absent*           | ·             | ·                   |                                       |                                       |          |              |                                       | •                                     | · / · · ·                             |  |  |  |
| 3. Traffic Reports or                 |                             |               |                     |                                       | · · · · · · · · · · · · · · · · · · · |          |              |                                       |                                       | · · ·                                 |  |  |  |
| Packing List:                         | Present Absent              | •             | ·                   |                                       |                                       | , ,      |              |                                       |                                       |                                       |  |  |  |
| 4. Airbill:                           | Airbill / Sticker           |               |                     | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |          |              |                                       |                                       | · .                                   |  |  |  |
| · · · · · · · · · · · · · · · · · · · | Present / Absent            |               | ·                   |                                       |                                       | · · · ·  |              |                                       |                                       |                                       |  |  |  |
| 5. Airbill #:                         | Present/ Absent             | ·····         |                     | · ·                                   |                                       | •        |              | <u>/.</u>                             | · · · · · · · · · · · · · · · · · · · |                                       |  |  |  |
| Sample Labels:                        | Listed Not Listed           |               |                     |                                       | ·                                     |          | 10 M         |                                       | ·                                     |                                       |  |  |  |
| 7. Sample IDs:                        | on Chain-of-Custody         | · ·           | ;                   | -                                     |                                       |          | Ľ            | ļ                                     | ·                                     | ·                                     |  |  |  |
| 3. Sample Condition:                  | Intact 7 Broken* /-         |               |                     |                                       |                                       | - Jakz   | /            |                                       | · · · · · ·                           |                                       |  |  |  |
| 3. Sample Condition.                  | Leaking*                    |               |                     |                                       |                                       | 13       |              | ļ                                     | · · · ·                               |                                       |  |  |  |
| ). Does information o                 |                             |               |                     | · · ·                                 |                                       |          | ·            |                                       |                                       | · · · · · · · · · · · · · · · · · · · |  |  |  |
| traffic reports and                   | sample labels               |               |                     |                                       | - voe                                 | 1        |              |                                       | · · · · · · · · · · · · · · · · · · · | <u> </u>                              |  |  |  |
| agree?                                | Yes No*                     |               |                     |                                       | V                                     |          |              |                                       |                                       |                                       |  |  |  |
| 0. Sample received wit                | hin                         |               | · ·                 | · · ·                                 | w/                                    |          |              |                                       |                                       |                                       |  |  |  |
| hold time?                            | Yes I No*                   |               |                     | ·                                     | ¥                                     |          | ·            |                                       |                                       | · · · · · · · · · · · · · · · · · · · |  |  |  |
| 1. Adequate sample vo                 | olume                       |               |                     | +/-                                   | - <u> </u>                            | · · · ·  |              |                                       | +                                     | · · ·                                 |  |  |  |
| received?                             | (Yes KNo*                   | 1             |                     | ļ                                     |                                       |          | <del> </del> |                                       |                                       | ·                                     |  |  |  |
| 2. Proper preservatives               | s used? . Yes No*           | ·             |                     | +                                     | · · · · ·                             |          | <u> </u>     | · · ·                                 |                                       |                                       |  |  |  |
| 3. Trip Blank / Temp B                | Iank Received?              |               | +                   |                                       |                                       |          |              |                                       | ·.                                    |                                       |  |  |  |
| (circle which, if yes)                | Yes / No.                   |               | +                   | ·/                                    |                                       | · ·      | 1 .          |                                       |                                       |                                       |  |  |  |
| 4. Read Temp:                         | <u></u>                     |               | +->                 | 4                                     |                                       |          |              |                                       |                                       |                                       |  |  |  |
| Corrected Temp:                       | 2.3 °C                      |               |                     |                                       |                                       |          |              |                                       |                                       |                                       |  |  |  |
| Is corrected temp 4                   | +/-2°C? (Yes) No**          | - 7           |                     | · · · · · · · · · · · · · · · · · · · |                                       |          |              | 1                                     |                                       |                                       |  |  |  |
| Acceptance range for sample           | es requiring thermal pres.) | $\vdash \neq$ | - <del> </del>      |                                       | •                                     |          |              |                                       |                                       |                                       |  |  |  |
|                                       | ETALS / DFF ON ICE          | 1/.           | - <del> </del>      |                                       |                                       |          |              |                                       | B TANK THE PARTY OF THE               |                                       |  |  |  |
| or Problem COC                        |                             | TE CID        |                     | CONTACT PROJECT                       | MANAGER AN                            | D ATTACH | RECO         | RD OF RE                              | SOLUTION.                             | - · ·                                 |  |  |  |
| SRL Revision 7                        |                             |               | ر <i>ل</i> ا تنظرب. | COLUMN TILOVE                         |                                       |          |              | •                                     |                                       | Page 02                               |  |  |  |
| Replaces Rev 5 (07/13                 | 3/04)                       |               | •                   |                                       |                                       | •        |              |                                       |                                       |                                       |  |  |  |
| Strective 07/19/05                    |                             | •             |                     |                                       |                                       |          |              |                                       | •                                     | . ` <b>.</b>                          |  |  |  |

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ATTACHMENT C

HISTORICAL GROUNDWATER DATA

| 2 | • |  |
|---|---|--|
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|              |                                  |                         |                | •                   | . His                | torical Grr          | undwater                  | fable 1                                     |                      |  |                      | •<br>•               |              |                  |                  | Page 1 of 11        |
|--------------|----------------------------------|-------------------------|----------------|---------------------|----------------------|----------------------|---------------------------|---|----------------------|--|----------------------|----------------------|--------------|------------------|------------------|---------------------|
|              |                                  |                         |                |                     | P                    |                      | 1995 -                    | Present                                     |                      | alytical E<br>Instituent   | )ata<br>s            |                      |              |                  |                  |                     |
| Weil         |                                  | TOC                     | Depth          | TP                  | Groundwares          | A<br>889 West        | RCO Serv<br>Grand Ave     | ice Statio<br>enue, Oal                     | on 2169<br>Kland, Ca | lifornia   |                      |                      |              |                  | ·                |                     |
| umber<br>A-I | Date<br>Gauged<br>03-24-95       | Elevation<br>(R-MSL)    | (feet)         | Thickness<br>(feet) | Elevation<br>(R-MSL) | Date<br>Sampled      | TPH<br>Gasoline<br>(µg/L) | Benzéne                                     | Tolueno              | Ethyl-<br>benzene  | Totai<br>Xvienes     | ASTRE<br>8021B*      | MTBE<br>8260 | TPH              | Dissolved        | Purged              |
| A-1<br>A-1   | 05-24-95<br>06-05-95<br>08-17-95 | 14.16<br>14.16<br>14.16 | 8.10<br>11.13  | ND<br>ND            | 6.06<br>3.03         | 03-24-95<br>06-05-95 | 1,200                     | (48/Ľ)<br>230                               | (µg/L)<br>39         | (# <u>8/L)</u><br>94   | (µg/L)<br>66         | (µg/L)               | (με/L)       | Diesel<br>(µg/L) | Orygen<br>(mg/L) | Not Purge<br>(P/NP) |
| -1           | 12-04-95                         | 14.16                   | 11.71<br>12.28 | 'ND<br>ND           | 2,45                 | 08.18-95             | 1,500<br>1,600            | \$10<br>470                                 | 27                   | 36   | 7G                   |                      | **           | 160<br>710       |                  |                     |
| -1<br>-1     | 03-01-96<br>05-29-96             | 14.16                   | 8.78           | ND                  | 1.88<br>5.38         | 12-04-95             | 1,200                     | 240   | 35<br>17             | 48<br>25   | 110                  | 120                  | ••           | 249              |                  |                     |
| -1           | 08-29-96                         | 14,16<br>14,16          | 9.85           | ND                  | 4.31                 | 03-13-96<br>05-29-04 | 1,300                     | 300   |                      |  | 56                   |                      | 120          |                  |                  |                     |
| 1            | 11-21-96                         | 14.16                   | 11.08<br>10,54 | ND                  | 3.08                 | 08-29-96             | Not sampled:<br>1,200     | well sample                                 | đ semi-anzus         | ally, during t   | 13<br>he first and i | 100<br>hind augustaa | ••           |                  |                  |                     |
| -1<br>-1     | 03-26-97                         | 14.16                   | 10.55          | ND<br>ND            | 3.62                 | 11-21-96             | Not sampled:              | 320<br>Marine 107                           | 5,9                  | 25   | 27                   | 110                  |              | •                |                  |                     |
| 1            | 05-21-97<br>08-08-97             | 14.16                   | 11.10          | ND                  | 3.61<br>3.06         | 03-26-97             | Not suppled:<br><50       | 0.8<br>0.93<br>0.91<br>0.91<br>0.91<br>0.91 | . 2.0.5<br>≤0.5      | lly, during t  | he first and t       | bird quarters        | ••           | **               |                  |                     |
| 1            | 11-18-97                         | 14.16<br>14.16          | 11.32          | ND                  | 2.84                 | 05-21-97             | Not sampled:<br>91        | well sampled                                | Semi-annual          | <0,5<br>Bu dunin - a   | <0,5                 | 64                   |              |                  |                  |                     |
|              | 02-20-98                         | 14.16                   | 3.46           | NÐ                  | 10.70                | 11-18-97             | 91                        | 7   | <0,5                 | 0.5  | to first and th      | aird quarters        |              |                  |                  |                     |
|              | 05-11-98                         | 14.15                   | 7.10<br>9.87   | ND                  | 7.06                 | 02-23-98             | 54                        | <\$.5                                       | <0,5                 | <0.5   | 3.9<br>0.6           | <60                  |              |                  |                  |                     |
|              | 07-30-98                         | 14.16                   | 9.87<br>10,73  | ND                  | 4.29                 | 05-11-98             | 590 .<br>280              | 160   | 22                   | IS   | 0.8<br>28            | 27.                  |              | •-               |                  |                     |
|              | 10-08-98                         | 14.16                   | 11.15          | ND<br>ND            | 3.43                 | 07-30-98             | 280<br>1,000              | 26  | <0.5                 | 0.8  | 2.3                  | 70 .<br>16           | ••           | ••               |                  |                     |
|              | 02-18-99                         | 14.1ċ                   | 8,00           | ND                  | 3.01                 | 10-08-98             | 3,100                     | 210   | 5                    | <5   | 38                   | ⊲0                   |              | **               |                  |                     |
|              | 05-26-99                         | 14.16                   | 10.60          | ND                  | 6.16                 | 02-18-99             | 510                       | 740   | 11                   | <10  | 24                   | <60                  | ••           | ••               |                  |                     |
|              | 08-23-99<br>10-27-99             | 14.16                   | 11.22          | ND                  | 3.56                 | 05-25-99             | 240                       | 87  | 7.1                  | 6.4  | 13                   | 52                   | ••           |                  |                  |                     |
|              | 01-31-00                         | 14.16                   | 11.37          | ND                  | 2.94<br>2.79         | 08-23-99             | 79                        | 26<br>3.9                                   | <0.5<br>0.6          | 1,2  | 6.2                  | 34                   |              | •=               |                  |                     |
|              |                                  | 14.16                   | 9.44           | ND                  | 4.72                 | 10-27-99             | 110                       | 2.2   | <0.5                 | <0.5   | 1.7                  | 38                   | ••           |                  | 0.00             |                     |
|              |                                  |                         |                |                     | ***                  | 01-31-00             | <50                       | <0.5  | <0.5                 | <0,5<br><0,5   | <1                   | 25                   | ••           | ••               | 0.68             | NP                  |
|              |                                  |                         |                |                     |                      |                      |                           |   | -416                 | <u.3< td=""><td>&lt;1</td><td>3</td><td>_</td><td></td><td>0.80<br/>1.0</td><td>NP</td></u.3<> | <1                   | 3                    | _            |                  | 0.80<br>1.0      | NP                  |

OAKVC:VARCO(2) 69/QTRL/VEintorical Data.tistuin;1

|            |                      |                |               |           | 217.4        | 10 <del>17 - 11 - 11 - 11 - 1</del> |   | able 1            |                          |                       |                      |                    |              |        |          | Page 2 of 1 |
|------------|----------------------|----------------|---------------|-----------|--------------|-------------------------------------|---|-------------------|--------------------------|-----------------------|----------------------|--------------------|--------------|--------|----------|-------------|
|            |                      |                |               |           | Hist         | orical Gro                          | undwater  | Elevation         | i and Ang                | listical D            | at.                  |                    |              |        |          |             |
|            |                      | •              |               |           | P            | etroleum I                          | Hydrocarb   | ons and           | Their Cen                | anyacan D             | ala                  |                    |              |        |          |             |
|            |                      |                |               |           |              |                                     | 1995 -  | Present           |                          | ISUICIBIL             | 5                    |                    |              |        |          |             |
|            |                      |                |               |           |              |                                     |   | ļ                 |                          |                       |                      |                    |              |        |          |             |
|            |                      |                |               |           |              | A                                   | RCO Serv  | ice Static        | on 2169                  |                       |                      |                    |              |        |          |             |
|            |                      |                |               |           |              | 889 West                            | Grand Ave   | nue, Òal          | land. Ca                 | lifomia               |                      |                    |              |        |          |             |
| Well       | _                    | TOC            | Depth         | FP        | Groundwater  |                                     |   | 1                 |                          | mentid                |                      |                    |              |        |          |             |
| umber      | Date                 | Elevation      |               | Thickness | Elevation    | Date                                | TPH   | i                 |                          | Ethyj-                | Total                | MTBE               | 1 (70)       |        |          |             |
| uniter -   | Gauged               | (ft-MSL)       | (feet)        | (feet)    | (ft-MSL)     | Sampled                             | Gasoline  | Benzene           | Tolucne                  | banzene               | Xylenes              | 8021B*             | MTBE<br>8260 | TPH    | Disolved | Purgeo      |
|            |                      |                |               |           |              |                                     | (µg/L)  | <u>(µø/Ļ)</u>     | (µg/L)                   | (µg/L)                | (#g/L)               | (µg/L)             | (µg/L)       | Diese! | Oxygen   | Not Purg    |
| 4-2<br>4-2 | 03-24-95             | 14.35          | 8,64          | ND        | 5.91         |                                     |   | 1                 |                          |                       |                      |                    | (PS/2-)      | (µg/L) | (mg/L)   | (P/NP       |
| 1-2        | 06-05-95<br>08-17-95 | 14.55          | 11.72         | ND        | 2.83         | 03-24-95<br>06-05-95                |   | ' ≮0.5            | <0.5                     | <0.5                  | <0.5                 |                    |              |        |          |             |
| <u>1-2</u> | 12-04-95             | 14.55          | 12,35         | ND        | 2.20         | 08-17-95                            | <\$0  | <b>40.5</b>       | <0.5                     | <0.5                  | <0.5                 |                    | ••           |        |          |             |
| 1-2        | 03-01-96             | 14.55<br>14.55 | 12.74         | ND        | 1.81         | 12-04-95                            | <50   | <0,5              | <0.5                     | <0.5                  | <0.5                 | 12                 |              |        |          |             |
| 1-2        | 05-29-96             | 14.55          | 9.34<br>10.40 | ND        | 5.21         | 03-13-96                            | <50<br><50 -  | <b>&lt;</b> 0.5   | <0,5                     | <0.5                  | <0.5                 | ••                 | •-           | ••     |          |             |
| 1-2        | 08-29-96             | 14.55          | 11.50         | ND<br>ND  | 4.15         | 05-29-96                            | <50   | <0.3<br><0.5      | 0.6                      | , <0.5                | 1,3                  | <9                 |              | ••     |          |             |
| 1-2        | 11-21-96             | 14.55          | 11.06         | ND        | 3.05         | 08-29-96                            | <50   | <0.5              | <0.5<br><0.5             | <0.5                  | <0.5                 | <20                | **           |        |          |             |
| -2<br>-2   | 03-26-97             | 14.55          | 11.12         | ND        | 3.49<br>3.43 | 11-21-96                            | <50   | <0.5              | <v.5<br>&lt;0.5</v.5<br> | <0.5                  | <9.5                 | <39                | ••           |        | •        |             |
| -2         | 05-21-97<br>08-08-97 | 14.55          | 11.58         | ND        | 2,97         | 03-26-97                            | <50   | -                 |                          | <0,5<br><0,5          | <0.5                 | <10                |              |        |          |             |
| 2          | 11-18-97             | 14.55          | 11.82         | ND        | 2.73         | 03-21-97                            | Not sampled: <  | well sampled      | I somi-annua             | ₩.J<br>IlV. durine st | <0,5                 | <20                | **           |        |          |             |
| 2          | 02-20-98             | 14,55<br>14,55 | 3.33          | ND        | 11.22        | 11.12.07                            | <50   | <⊅.s              | <0.5                     | < 0.5                 | vennstandoru<br>≪Drs | ma directors       |              |        |          |             |
| 2          | 05-11-98             | 14.55          | 7.68<br>10.45 | ND        | 5.87         | 02-20-98                            | Not sampled: v<br><50   | well sampled      | semi-anma                | lly, during th        | a first and th       | V&~<br>everyed Dig | ••           |        |          |             |
| 2          | 07-30-98             | 14.55          | 11,23         | ND<br>ND  | 4.10         | 02-11-28                            | Not sampled   | 1                 |                          | <b>10-3</b>           | <0.5                 | 17                 |              |        |          |             |
| 2          | 10-08-98             | 14.55          | 11.62         | ND        | 3.32         | 07-30-98                            | Not sampled w   | i<br>Yell samulad |                          | • • •                 |                      |                    | ••           | ••     |          |             |
|            | 02-18-99<br>05-26-99 | 14.55          | 8.62          | ND        | 2.93<br>5.93 | 10-08-98                            | Not sampled: w  | vell sampled      | semi-annual              | ly, during th         | e füst and se        | cand quarters      | 6            |        |          |             |
|            | 03-26-99             | 14.55          | 11.16         | ND        | 3.39         | 07-19-36                            | 93  | <0.5              | <0.5                     | ty, ouring th<br><0.5 | न साथर वर्षाय ३५     | cond quarters      | 3            |        |          |             |
|            | 10-27-99             | 14.55<br>14.55 | 11.69         | ND        | 2.86         | V) 40-99                            | <50   | - Ó - C           |                          | The set               | વ                    | 26                 |              |        |          |             |
|            | 01-31-00             |                | 11.88         | ND        | 2.67         | 10-27.00                            | Not sampled: w  | tell sampled      | somi-anguali             |                       | ∼v.⊋<br>: fint and   |                    | ••           |        |          |             |
|            |                      |                | 10.17         | ND        | 4.38         | 01-31-00                            | Not sampled: W<br><50   | all sampled       | emi-unuali               | y, during the         | first and see        | -ving directed     |              |        | 0.59     |             |
|            |                      |                |               |           |              |                                     | ~ <b>J</b> U  | <0.5              | <0.5                     | <0.5                  | <1                   | <3<br><3           | -            |        | 0.59     |             |
|            |                      |                |               |           |              |                                     | States and s | 1                 |                          |                       |                      |                    |              |        | 1.0      | NP          |

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|--------------------------|--|--|----------------------------------|--|--------------------------------------|----------------------------------|--|--|--|--------------------------|------------------|----------------|---------------|---------------|------------------|---------------------|
|                          |  |  |                                  |  | His<br>P                             | torical Gr<br>etroleum           | oundwater<br>Hydrocarb                             | Table 1<br>Elevation<br>ons and<br>Present   | Fheir Co   | alylica) D<br>Nstituent: | aia<br>s         |                |               | <del>1</del>  |                  |                     |
|                          |  | TOC  | Depth                            | PP                                     |                                      | 889 West                         | ARCO Serv<br>Grand Ave                             | ice Static<br>Inue, Oal                      | on 2169<br>dand, Ca                              | lifornia                 |                  |                |               |               |                  |                     |
| Well<br>lumber           | Date<br>Gauged                               | Elevation<br>(ft-MSL)                              | to Water<br>(feet)               | Thickness<br>(feet)                    | Groundwater<br>Elevation<br>(fl-MSL) | Date<br>Sampled                  | TPH<br>Gasoline<br>(µg/L)                          | Benzene<br>(48/L)                            | Toluene  | Ethyl-<br>beuzene        | Total<br>Xylenex | MTBE<br>80218* | MTBE<br>8260  | TPH<br>Diesel | Dissolved        | Furged/             |
| A-3<br>A-3<br>A-3<br>A-3 | 03-24-95<br>06-05-95<br>08-17-95<br>12-04-95 | 15.75<br>15.75<br>15.75                            | 8.83<br>12.44<br>13.04           | nd<br>Nd<br>Nd                         | 6.92<br>3.31<br>2.71                 | 03-24-95                         | o <50<br>Not sampled                               | <0.5<br>Well samel                           | (1/24)<br><0.5<br>d annually                     | <u>(µg/L)</u><br><0.5    | (µg/L)<br><0.5   | <u>(µg/L)</u>  | <u>(48/L)</u> | _(µg/I.)      | Oxygen<br>(mg/L) | Not Purge<br>(P/NP) |
| 1-3<br>1-3<br>1-3        | 03-01-96<br>05-29-96<br>08-29-96<br>11-21-96 | 13.75<br>15.75<br>15.75<br>15.75<br>15.75          | 13.57<br>9.90<br>13.08<br>12.38  | ND<br>ND<br>ND<br>ND                   | 2,18<br>5.85<br>4.67<br>3.37         | 12-04-95<br>03-13-96             | Not sampled:<br><50<br>Not sampled:                | well sample<br>well sample<br><0.5           | d an <u>avally</u><br>d an <u>avally</u><br><0.5 | <0.5                     | ⊲1.5             | থ              |               |               |                  |                     |
| -3<br>-9<br>-3<br>-3     | 03-26-97<br>05-21-97<br>08-08-97<br>11-18-97 | 15.75<br>15.75<br>15.75                            | 11.86<br>11.81<br>12.35<br>12.62 | nd<br>Nd<br>Nd<br>Nd                   | 3.89<br>3.94<br>3.40<br>3.13         | 11-21-96<br>03-26-97<br>05-21-97 | Not sampled:<br><50<br>Not sampled:                | well sampled<br>well sampled<br><0.5         | i annualiy<br>i annualiy<br><0.5                 | <0,5                     | <9.5             | Ø              | ••            |               |                  |                     |
| 3<br>9<br>3              | 02-20-98<br>05-11-98<br>07-30-98<br>10-08-98 | 15.75<br>15.75<br>15.75<br>15.75<br>15.75<br>15.75 | 3.75<br>8.06<br>11.19<br>12.05   | ND<br>ND<br>ND<br>ND                   | 12.00<br>7.69<br>4.56<br>9.70        | 11-18-97<br>02-23-98<br>05-11-98 | Not sampled:<br><50                                | well sampled<br>well sampled<br><0,5         | annually<br>annually<br><0.5                     | <0.5                     | <0.5             | \$             |               |               |                  |                     |
| 3<br>5<br>1              | 02-18-99<br>05-26-99<br>08-23-99<br>10-27-99 | 15.75<br>13.75<br>15.75                            | 12.49<br>9.05<br>11.93<br>12.57  | ND<br>ND<br>ND<br>ND                   | 3.32<br>6.70<br>3.82<br>3.18         | 10-02-98<br>02-11-99<br>05-26-99 | Not sampled: v<br>Not sampled: v<br>Not sampled: v | vell sampled<br>vell sampled<br>vell sampled | annually<br>annually<br>monually                 | <0.5                     | •                |                |               |               |                  |                     |
|                          | 01-31-00                                     | 15.75<br>15.75                                     | 12.65<br>9,55                    | ND<br>ND                               | 3.10<br>6.20                         | 08-23-99<br>10-27-99<br>01-31-00 | Not sampled: w<br>Not sampled: w<br><50            |  |  | <0.5                     | <0.5             | 4              | ••            | *.            | 0.88             |                     |

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|---------------------------------|--|--|---|----------------------------|---------------------------------------|----------------------------------|--|--|------------------------------------|---|---|----------------|------------------|---------------|-----------------------|----------------------|
|                                 |  |  |   | -                          | His<br>P                              | lorical Gra<br>etroleum          | oundwater<br>Hydrocart   | Elevatio                               | Their Co                           | alytical D<br>Instituent  | ata<br>I  |                |                  |               |                       | <u></u>              |
| ļ                               |  | TOC  | Depth                                   |                            |                                       | 003 ¥46Sî                        | ARCO Serv<br>Grand Ave   | lica Stati<br>enue, Oa                 | on 2169<br>kland, Ca               | lifomia   |   |                |                  |               | t<br>Æ                |                      |
| Well<br><u>Number</u>           | Date<br>Gauged   | Elevation<br>(fl-MSL)                              | to Water                                | FP<br>Thickness<br>(feet)  | Groundwater<br>Elevation<br>(ft-MSL)  | Date<br>Sampled                  | TPH<br>Gasoline<br>(µg/L)  | Beazene<br>(µg/L)                      | Toluene<br>(µg/L)                  | Sthyl-'<br>benzene<br>(µg/L)  | Total<br>Xylenes<br>(ug/L)  | MTBE<br>8021B* | NTBE<br>\$260    | TPH<br>Diesel | Dissolved<br>Oxygen   | Purged/<br>Not Purge |
| A-4<br>A-4<br>A-4<br>A-4        | 03-24-95<br>06-05-95<br>08-17-95<br>12-04-95             | 15.25<br>15.25<br>13,25<br>15,25                   | 7.20<br>11,70<br>12.28<br>12.63         | nd<br>Nd<br>Nd<br>Nd       | 8.05<br>3.55<br>2.97                  |                                  | Not sampled  |  | <0.5<br>ed annually                | <0.5  | <0.5  | (µg/L)         | (#\$ <u>/l.)</u> | <u>(µg/L)</u> | (mg/L)                | (P/NP)               |
| A-4<br>A-4<br>A-4<br>A-4<br>A-4 | 03-01-96<br>05-29-96<br>08-29-96<br>11-21-96<br>03-26-97 | 15.25<br>15.25<br>15.25<br>15.25                   | 8,55<br>10.32<br>11.55<br>10.83         | ND<br>ND<br>ND<br>ND       | `2.62<br>6.70<br>4.93<br>3.70<br>4.42 | 03-13-96<br>05-29-96<br>08-29-96 | Not sampled<br>Not sampled<br>Not sampled                                    | Q.5                                    | ed annually<br><0.5<br>ed annually | <0.5  | <0.5  | ⊲              | ••               |               |                       |                      |
| А-4<br>А-4<br>А-4<br>А-4        | 05-21-97<br>08-08-97<br>11-18-97<br>02-20-98             | 15.25<br>15.25<br>15.25<br>15.25<br>15.25<br>15.25 | 10.97<br>11.51<br>11.73<br>4.37<br>6.25 | nd<br>Nd<br>Nd<br>Nd<br>Nd | 4.28<br>3.74<br>3.52<br>10.88         | 03-26-97<br>05-21-97<br>08-08-97 | Not sampled:<br>Not sampled:<br>Not sampled:<br>Not sampled:<br>Not sampled: | vieli sample<br><0.5<br>wdi sample     | d annually<br><0.5<br>d annually   | <0.5  | <0.5  | \$             | ••               | ••            |                       |                      |
|                                 | 05-11-98<br>07-30-98<br>10-08-98<br>02-18-99<br>05-26-99 | 15,25<br>15,25<br>15,25<br>15,25                   | 10.33<br>11.25<br>11.62<br>7.12         | nd<br>Nd<br>Nd<br>Nd<br>Nd | 9.00<br>4,92<br>4.00<br>3.63<br>8.13  | 05-11-98                         | <50<br>Not sampled:<br>Not sampled:<br>Not sampled:<br>Not sampled:<br><50   | <0.5<br>Well samples                   | <0.5<br>I annually                 | <0.5  | ⊲0_5  | \$             | ••               |               |                       |                      |
| २-4<br>२-4<br>२-4               | 08-23-99<br>10-27-99<br>01-31-00                         | 15.25<br>15.25<br>15.25<br>15.25                   | 11.12<br>11.62<br>11.74<br>9.45         | ND<br>ND<br>ND<br>ND       | 4.13<br>3.63<br>3.51<br>5.80          | 08-23-99                         | Not sampled:<br><50<br>Not sampled: v<br>Not sampled: v<br><50               | C.V><br>bolggass llsv<br>bolggass llsv | <0.5<br>annually<br>annually       | <0.5  | <0.5  | ও              |                  | •-            | ₽.<br>1<br>2<br>20.54 | •                    |
|                                 |  |  |   |                            |                                       |                                  |  | <0.5<br><br>i                          | <0.5                               | <0.5  | </td <td>4</td> <td>• •</td> <td>F 4</td> <td><u>الم</u></td> <td>NP</td> | 4              | • •              | F 4           | <u>الم</u>            | NP                   |
|                                 |  |  |   |                            |                                       |                                  |  | į                                      |                                    | eri mere dağını unan  |   |                |                  |               | ¥:                    |                      |
|                                 |  |  |   |                            |                                       |                                  |  | 1                                      |                                    |   |   |                |                  |               | ÷ -                   |                      |
| OARICHAR                        | Coisi esiqtri.yu   | futorical Delax                                    | is)uh;}                                 |                            |                                       |                                  |  | i<br>i                                 | -                                  | , second s |   |                |                  |               | •                     |                      |
|                                 |  |  |   | •                          |                                       |                                  |  | ł                                      |                                    | ļ   |   |                |                  | IT C          | ORPORAT               | ΠΟΝ                  |

|  |  |  |  |   |   | orical Grou<br>stroleum H<br>AF<br>888 West G  | ndwater<br>ydrocarb<br>1995 -<br>ICO Serv   | ons and<br>Present<br>ice Static  | Meir Cor<br>**<br>30 2460  | stituent   | ala -  |  | -<br>-        |               | site and the second |                      |
|--|--|--|--|---|---|--|---|---|--|--|--|--|---------------|---------------|--|----------------------|
| Well<br>Number   | Date<br>Gauged   | TOC<br>Elevation<br>(ft-MSL)   | Depth<br>to Water<br>(feet)                          | FP<br>Thickness<br>(foct)   | Groundwater<br>Elevation<br>(ft-MSL)            | Date<br>Sampled  | TPH<br>Gasoline<br>(µg/L)   | Benzene<br>(µg/L)   | Toluene<br>(µg/L)  | Ethyl-<br>benzene<br>(µg/L)  | Total<br>Xylenes<br>(µg/L)   | MTBE<br>8021B <sup>4</sup>                                 | ATTBE<br>8260 | TPH<br>Dicsel | Dissolved<br>Oxygen  | Purged/<br>Not Purge |
| A-5<br>A-5<br>A-5<br>A-5<br>A-5<br>A-5<br>A-5<br>A-5<br>A-5<br>A-5 | 03-24-95<br>06-05-95<br>08-17-95<br>12-04-95<br>03-01-96<br>08-29-96<br>11-21-96<br>03-26-97<br>05-21-97<br>08-08-97<br>13-18-97<br>02-20-98<br>05-11-98<br>07-30-98 | 13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51 | Not surrey<br>Not surrey                             | ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>N | essible   | 03-24-95<br>(6-05-95<br>08-18-95<br>12-04-95<br>03-13-96<br>08-29-96<br>08-29-96<br>11-21-96<br>03-26-97<br>05-21-97<br>08-08-97 | 3,300<br>57,000<br>34,000<br>61<br>11,000<br>19,000<br>7,700<br>8,000<br>3,100<br>16,000<br>9,000 | 2000<br>2,700<br>1,600<br><0.5<br>860<br>1,600<br>490<br>490<br>1,500<br>1,500<br>1,500 | 310<br>4,600<br>2,700<br><0.5<br>960<br>1,900<br>450<br>550<br>140<br>900<br>240 | 130<br>1,500<br>1,100<br><0.5<br>380<br>880<br>260<br>340<br>130<br>700<br>440 | 460<br>6,800<br>5,100<br><0.5<br>1,600<br>3,300<br>990<br>1,100<br>340<br>2,700<br>1,300 | (µg/L)<br><28<br><100<br><100<br><30<br><30<br><120<br><36 | (µg/L)        | (µe/L)<br>    | (mg/L)   | (P/NP)               |
| (-5<br>(-5<br>(-5<br>(-5<br>(-5)))))))))))))))))))))               | 10-08-98<br>02-18-99<br>05-26-99<br>08-23-99<br>08-23-99<br>08-23-99<br>01-31-00   | 13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51  | Not survey<br>7.63<br>9.85<br>10.60<br>10.72<br>9.37 | red: well inacc<br>red: well inacc<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND          | essible<br>5.58<br>3.66<br>2.91<br>2.79<br>4.14 | 02-18-99<br>05-26-99<br>08-23-99<br>10-27-99<br>01-31-00 N   | <50<br>1,700<br>560<br>480<br>ot sampled: w   | ! 0.8<br>240<br>  65<br>93<br>vdl vjas inac   | <0.5<br>41<br>3<br>1.0<br>×ssible  | <0.5<br>110<br>30<br>16  | 1.5<br>330<br>52<br>19   | <10<br><12<br><6<br><3                                     | <br><br>      | <br><br>      | 0.73<br>0.65   | np<br>Np             |

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

#### ARCO Service Station 2169 889 West Grand Avenue, Oakland, California

| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | Well<br>Number   | Date<br>Oauged   | TOC<br>Elevation<br>(R-MSL)  | Depth<br>to Water<br>(feet)  | FP ·<br>Thickness<br>(feet)             | Groundwater<br>Elevation<br>(fl-MSL)  | Date<br>Sampled  | TPH<br>Gasoline<br>(µg/L)   | Benzens<br>(µg/L)   | Toluens<br>(µg/L)  | Ethyl-<br>bonzene<br>(µg/L)  | Total<br>Xylenes<br>(µg/L)   | МТВЕ<br>8021В*<br>(µg/L)  | MTBE<br>\$260<br>(µg/L) | TPH<br>Djesel<br>(µg/L) | Dissolved<br>Oxygen<br>(mg/L) | Purged/<br>Not Purged<br>(P/NP) |
|---|--|--|--|--|---|---|--|---|---|--|--|--|---|-------------------------|-------------------------|-------------------------------|---------------------------------|
|   | A-6<br>A-6<br>A-6<br>A-6<br>A-6<br>A-6<br>A-6<br>A-6<br>A-6<br>A-6 | 05-05-95<br>08-17-95<br>12-04-95<br>03-01-96<br>05-29-96<br>08-29-96<br>03-26-97<br>05-21-97<br>08-08-97<br>11-18-97<br>02-20-98<br>05-21-98<br>07-30-98<br>10-08-98<br>10-08-98<br>02-18-99<br>02-26-99<br>08-23-99 | 13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51<br>13.51 | 10,06<br>11.10<br>11.52<br>8.21<br>9.25<br>10.52<br>10.54<br>9.93<br>10.54<br>9.93<br>10.54<br>10.77<br>3.41<br>6.73<br>9.26<br>10.12<br>10.53<br>7.50<br>10.00<br>10.70 | 222222222222222222222222222222222222222 | 3.45<br>2.41<br>1.99<br>5.30<br>4.26<br>2.99<br>2.97<br>3.58<br>2.97<br>2.74<br>10.10<br>6.78<br>4.25<br>3.39<br>2.98<br>6.01<br>3.51<br>2.81<br>2.51<br>4.20 | 06-03-95<br>08-18-95<br>12-04-95<br>03-13-96<br>03-29-96<br>11-21-96<br>03-26-97<br>05-21-97<br>08-08-97<br>11-18-97<br>02-20-98<br>05-11-98<br>07-30-98<br>10-08-98<br>02-18-99<br>01-27-99<br>01-27-99<br>01-31-00 | 160<br>530<br>28,000<br>1,400<br>410<br>80<br>62<br>110<br>600<br>850<br>690<br>60<br>140<br>910<br>1,300<br>1,300<br>150<br>100<br>98<br><50 | <pre>&lt;0.5 {0.5 1,600 0.5 0.5 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5</pre> | <0.6<br><0.5<br>1,800<br><15<br><2<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br><0.5<br><0.5<br>< | <ul> <li>&lt;0.5</li> <li>&lt;0.4</li> <li>&lt;0.5</li> </ul> | $\begin{array}{c} 0.5 \\ < 4.2 \\ 3,600 \\ < 10 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ 2 \\ 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ $ | $\begin{array}{c} & & & \\ & &$ |                         |                         | 2.42<br>13.23                 | NP<br>NP                        |

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|                |                      |                       |                             |                           | Hist<br>Pe                           |                       | Nundwater<br>Hydrocarb<br>1995 - | ons and<br>Present | Their Col    | alytical D<br>Instituent: | ata<br>S                               | an a |              |               |                     | Page 7 of 1          |
|----------------|----------------------|-----------------------|-----------------------------|---------------------------|--------------------------------------|-----------------------|----------------------------------|--------------------|--------------|---------------------------|--|--|--------------|---------------|---------------------|----------------------|
|                |                      |                       |                             |                           |                                      | A<br>889 Weet         | RCO Serv                         | ice Stati          | on 2169      |                           |  |  |              |               |                     |                      |
|                |                      | TOC                   | Denth                       |                           |                                      |                       | Grand Ave                        | nue, Oa            | dand, Ca     | lifornia                  |  |  |              |               |                     |                      |
| Well<br>Jumber | Date<br>Gauged       | Elevation<br>(ft-MSL) | Depth<br>to Water<br>(foct) | FP<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(ft-MSL) | Date<br>Sampled       | TPH<br>Gasoline<br>(µg/L)        | Benzene<br>(µg/L)  | Toluene      | Ethyl-<br>benzene         | Total<br>Xylenes                       | MTBE<br>8021B*                           | MTBE<br>8260 | TPH<br>Diese1 | Dissolved<br>Oxygen | Purged/<br>Not Purge |
| R-1            | 03-24-95             |                       |                             |                           |                                      |                       |                                  | (49.0)             | (µg/L)       | (#g/L)                    | (µg/L)                                 | (µg/L)                                   | (µş/L)       | _(µg/L)       | (mg/L)              | (P/NP)               |
| R-1            | 06-05-95             | 15.61<br>15.61        | 7,25                        | ND                        | 8.36                                 | 03-24-95              | 270                              |                    |              |                           |  |  |              |               | ·····               |                      |
| R-1            | 08-17-95             | 15.61                 | 11.37<br>12.40              | ND                        | 4.24                                 | 06-05-95              |                                  | 114<br> 10         | 0,6          | 2,5                       | 2.1                                    | ••                                       | ••           | 130           |                     |                      |
| R-1            | 12-04-95             | 15.61                 | 12.90                       | ND<br>ND                  | 3.21                                 | 08-17-95              | 960                              | 510<br>F10         | <0.5         | 0.8                       | 0.5                                    | ~~                                       |              | 580           |                     |                      |
| રના            | 03-01-96             | 15.61                 | 8.19                        | ND                        | 2.71                                 | 12-04-95              | <50                              | 1.5                | 12<br>⊲0,5   | 4.5                       | 150                                    | 14                                       | ••           | <50           |                     |                      |
| <b>K-I</b>     | 05-29-96             | 15.61                 | 10.41                       | ND                        | 7,42<br>5,20                         | 03-13-96              | 150                              | j.                 |              | <0.5.<br>1.4              | 0.8                                    |  |              | -+            |                     |                      |
| 6-1<br>6-1     | 08-29-96             | 15.61                 | 12.12                       | ND                        | 3,49                                 | 05-29-96              | Not sampled<br><50               | weil sample        | d semi-annu  | r, t<br>******            | 1.3<br>ha fini in 1 d                  | <3                                       | ••           |               |                     |                      |
| -1<br>-1       | 11-21-96             | 15.61                 | 11.52                       | ND                        | 4.09                                 | 08-29-96              | <50                              | ⊲0.5               | <0,5         |                           | V O<br>V O<br>V O<br>V O<br>V O<br>V O | und quarters                             |              |               |                     |                      |
|                | 03-26-97<br>05-21-97 | 15.61                 | 11.33                       | ND                        | 4,28                                 | 11-41-96              | Not sampled:<br><50              | well sample        | d semi-annu  | lly during t              | v,o<br>he first and d                  | 5J                                       |              |               |                     |                      |
| -1             | 03-23-97<br>08-08-97 | 15.61                 | 12.02                       | ND                        | 3.59                                 | 03-40-97<br>05-21 ord | <50                              | <0.5               | <0.5         | <0,5                      | <0.5                                   | an a quarters                            |              |               |                     |                      |
| -1             | 11-18-97             | 15,61                 | 12.31                       | ND                        | 3,30                                 | 0.21-77               | Not sampled:                     | Well sample        | d semi-annus | illy, ducing th           | ie fint and th                         |  |              |               |                     |                      |
| -1             | 02-20-98             | 15.61<br>15.61        | 3.97                        | ND                        | 11.64                                | 11-18-97              | Not some to -                    | 9.7                | <0.5         | Ĩ                         | <0,5                                   | yuuu iday<br><3                          |              |               | •                   |                      |
| -1             | 05-11-98             | 15.61                 | 6.42                        | ND                        | 9,19                                 | 02-13-98              | Not sampled:<br><200             | Well fample        | d semi-annus | lly, during th            | e first and th                         | and quarters                             |              | ••            |                     |                      |
| -]             | 07-30-98             | 15.61                 | 10.93<br>I 1.82             | ND .                      | 4.68                                 | 05-11-98              | <50                              | 17                 | ~            | < <u>2</u>                | <b>v</b>                               | 160                                      | ••           | _             |                     |                      |
| -1             | 10-08-98             | 15.61                 | 12.24                       | ND                        | 3,79                                 | 07-30-98              | ≪0                               | <0.5               | <0.5         | <0.5                      | <0,5                                   | 4  |              | ••            |                     |                      |
| 1              | 02-18-99             | 15.61                 | 7.75                        | ND                        | 3.37                                 | 10-08-98              | <ši                              | <0.5<br><0.5       | <0.5         | <0.5                      | <0,5                                   | 6  | ••           |               |                     |                      |
| 1              | 05-26-99             | 15.61                 | 11.62                       | ND<br>ND                  | 7.86                                 | 02-18-99              | <0                               | <0.5               | <0.5         | <0.5                      | <0.5                                   | G  | ~~           |               | •                   |                      |
| 1              | 08-23-99             | 15.61                 | 9.32                        | ND                        | 3.99                                 | 05-26-99              | <50                              | -04                | <0.5         | <0.5                      | <1.0                                   | <10                                      | **           |               |                     |                      |
| 1              | 10-27-99             | 15.61                 | 12.14                       | ND                        | 6,29                                 | 08-23-99              | Not suppliede                    | and and a          | <0,5         | <0.5                      | <0,5                                   | 4  | <i>.</i> .   |               |                     |                      |
| 1              | 01-31-00             | 15.61                 | Not survey                  | d; well inscen            | 3.47                                 | 10-27-99              | Not sampled: 1                   | Vellammiad         |              | -y, curing the            | s first and sea                        | cond quarters                            | 3            |               |                     |                      |

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#### Page 8 of 11 Table 1 Historical Groundwater Elevation and Analytical Data Petroleum Hydrocarbons and Their Constituents 1995 - Present\*\*\* ARCO Service Station 2169 889 West Grand Avenue, Oakland, California TOC Depth FP Groundwater TPH Wat Date Elevation Ethylto Water Total Thickness MTBE MTRE Elevation TPH Dissolwed Date Gasoline Purged/ Number Benzene Gauged Toluene (f-MSL) (feet) benzego Xylenes 8021B\* (feet) 8260 (ft-MSL) Diesel Sampled Oxygen Not Purged (µg/L) (µg/L) (µg/L) $(\mu g/L)$ (µg/L) $(\mu g/L)$ $(\mu g/L)$ (µg/L) (mg/L)(P/NP) AR-2 03-24-95 15.28 9.13 ND 6.15 03-24-95 AR-2 06-05-95 <50 15,28 6.2 12.09 < 0.5 ⊲0.5 ND 0.6 3.19 06-05-95 <50 AR-2 08-17-95 <50 - -15.28 <0.5 12.78 <0,5 ND <0.5 2.50 <9.5 08-18-95 AR-2 - -<50 12-04-95 <50 15.28 <0.5 11.44 <0.5 ND ⊲0.5 <0.5 3.84 12-13-95 AR-2 03-01-96 . . <50 <50 15.28 <0.5 9.83 ND <0.5 ⊲,5 5,45 <0.5 AR-2 03-13-96 05-29-96 190 • • 15.28 26 ٠. 10,97 2.6 ND 05-29-96 Not sampled: well sampled sami-annually, 3.3 13 4.31 200 AR-2 08-29-96 ... --15,28 12.20 ND during the first and third quarters 3.08 08-29-96 AR-2 11-21-96 <\$0 15,28 \$0.5 11.57 <0.5 NÐ <0,5 3.71 11-21-96 Not sampled: well sampled semi-annually, during the first and third quarters <0,5 AR-2 03-26-97 15.28 -11.60 ND 3.68 AR-2 05-21-97 <00 15,28 12.12 Q.5 <0,5 ND <0.5 05-21-97 Not sampled; well sampled semi-annually, during the first and third quarters 3.16 AR-2 08-08-97 15.28 12.35 • • - -ND 2.93 AR-2 11-18-97 15,28 3.48 **9.5** <0.5 . ND 11.80 <9.5 <0.5 11-18-97 Not sempled: w AR-2 G 02-20-98 15.28 Il sampled semi-annually, during the first and third quarters \$,00 ÷., ND 7.28 AR-2 05-11-98 02-20-98 15.28 <50 10.97 Q.5 ND <0.5 4.31 ≪:.5 <0,5 AR-2 05-11-98 43 07-30-98 15,28 <\$0 <₽,5 11.76 <0.5 ND 3.52 <0.5 <0,5 AR-2 07-30-98 <3 10-08-98 15.28 <50 12.17 <0.5 •• NÐ <0.5 <0.5 3.11 <0.5 AR-2 10-08-98 <3 02-18-99 15.28 <50 •• •• 5.17 <9.5 <0.5 ND <0.5 6.11 <0.\$ <3 AR-2 05-26-99 02-18-99 <50 15.28 J1.72 <0.5 •• •• <0.5 ND 3.56 <0.5 <1.0 AR-2 05-26-99 <10 08-23-99 15.28 <50 <0.5 ------12.31 <0.5 ND <0.5 2.97 08-23-59 Not sampled: well sampled semi-annually, during the first and second quarters AR-2 10-27-99 15.28 •--12.4z •• ND 2.86 AR-2 01-31-00 Not sampled: well sampled semi-annually, during the first and second quarters 13.28 10,31 0.61 ND

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4.97

01-31-00 Not sampled

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|  |  | TCC   | Depth                                   | FP   | -                                    | oos vyest  | undwater<br>iydrocarb<br>1995 -<br>RCO Serv  | Present"  | and Ane<br>heir Cor                               | nstituent                       | ata<br>S   |   | (                              |                               | <del>.</del>        | Page 9 of 11          |
|--|--|---|---|--|--------------------------------------|--|--|---|---|---------------------------------|--|---|--------------------------------|-------------------------------|---------------------|-----------------------|
| Well<br>Number   | Date<br>Gauged   | Elevation<br>(fl-MSL)   | to Water<br>(feet)                      | Thickness<br>(feet)  | Groundwater<br>Elsyntion<br>(ft-MSL) | Date<br>Sampled  | TPH<br>Gasoline<br>(µg/L)  | Benzene<br>(µg/L)   | Toluens<br>(µg/L)                                 | Ethyl-<br>benzene<br>(µg/L)     | Total<br>Nylenes   | MTBE<br>8021B*  | MTBE<br>8260                   | TPH<br>Diesel                 | Dissolved<br>Oxygen | Purged/<br>Not Purged |
| ADR-1<br>ADR-1<br>ADR-1<br>ADR-1<br>ADR-1<br>ADR-1<br>ADR-1<br>ADR-1<br>ADR-1<br>ADR-1<br>ADR-1<br>ADR-1<br>4DR-1<br>4DR-1<br>4DR-1<br>4DR-1 | 03-24.95<br>06-05-95<br>08-17-95<br>12-04-95<br>03-01-96<br>08-29-96<br>11-21-96<br>03-26-97<br>05-21-97<br>08-08-97<br>11-18-97<br>02-20-98<br>05-21-98<br>07-30-98<br>10-08-98<br>10-08-98 | 13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95 | Not survey<br>Not survey<br>Not survey  | 0.01<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ved: well inacce<br>ved: well inacce | sible<br>stible                      | 03-24-95<br>06-05-95<br>08-18-95<br>12-13-95<br>05-30-96<br>05-30-96<br>08-29-96<br>11-21-96<br>03-26-97<br>05-21-97<br>08-08-97<br>11-18-97 | Not sampled<br>23,000<br>4,400<br>8,800<br>89,000<br>27,000<br>5,300<br>1,900<br>1,900<br>1,900<br>1,900<br>1,900<br>1,900<br>1,900<br>1,900<br>18,000 | : well containe<br>310<br>150<br>230<br>190<br>82<br>260<br>300<br>620<br>900 |   |                                 | (µµ1)<br>1,900<br>620<br>990<br>8,100<br>2,700<br>470<br>270<br>270<br>200<br>470<br>2,700 | (µg/L)<br>120<br><500<br><100<br>85<br>110<br>95<br>79<br><200<br><60 | (µg/L)<br><br><br><br><br><br> | (µg/L)<br>13,000<br>4,500<br> | (reg7L)             | (PAP)                 |
| DR-1<br>DR-1<br>DR-1<br>DR-1   | 05-18-599<br>05-26-99<br>08-23-99<br>10-27-99<br>01-31-00  | 13.95<br>13.95<br>13.95<br>13.95<br>13.95<br>13.95  | 7.80<br>10.40<br>10.70<br>10.82<br>9.21 | ND<br>ND<br>ND<br>ND<br>ND   | 5.15<br>3.55<br>3.25<br>3.13<br>4.74 | 02-18-99<br>05-26-99<br>08-23-99<br>10-27-99<br>01-31-00   | 200<br>160<br>7,400<br>5,000<br>290  | 4.4<br>10<br>310<br>210<br>3.6  | <br>  <0.5<br>  <0.5<br>  6.3<br>  <0.5<br>  <0.5 | 1.3<br>1.7<br>210<br>180<br>1.1 | 1.3<br>1.8<br>970<br>490<br><1   | 43<br>43<br>18<br>5<br>26   | <br><br><br>                   | <br><br><br>                  | 0.37<br>0.73<br>1.0 | NP<br>NP<br>NP        |

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OAKICNARCON 691QTRL Wilstorical Data River

|  |  | TOC   |  |  |   | 889 West   | oundwater<br>Hydrocarb  | Present                          | n and An<br>Their Co | nstituent                   | Jata<br>s   |  |  |   |                     | ><br>Page 10 of 11    |
|--|--|---|--|--|---|--|---|----------------------------------|----------------------|-----------------------------|---|--|--|---|---------------------|-----------------------|
| Well<br>Number<br>ADR-2  | Date<br>Gauged   | Elevation<br>(fl-MSL)   | Depth<br>10 Water<br>(feet)                  | FP<br>Talekness<br>(fèet)  | Groundwater<br>Elevation<br>(ft-MSL)    | Date<br>Sampled  | TPH<br>Gatoline<br>(µg/L)   | Benzene<br>(µg/L)                | Toluene<br>(µg/L)    | Ethyl-<br>benzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L)  | MTBE<br>8021B*   | MTHE<br>8260   | TPH<br>Diesej   | Dissolved<br>Oxygen | Parged/<br>Not Parged |
| ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2<br>ADR-2 | 03-24-95<br>06-05-95<br>08-17-95<br>12-04-95<br>03-01-96<br>05-29-96<br>08-29-96<br>11-21-96<br>03-26-97<br>05-21-97<br>08-08-97<br>11-18-97<br>02-20-98<br>05-11-98<br>07-30-98<br>10-08-98<br>10-08-98 | 14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64<br>14.64 | 1107   | >3.00<br>>3.00<br>0.03<br>0.03<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND | 2.07                                    | 05-29-96<br>08-29-96<br>11-21-96<br>03-26-97<br>05-21-97<br>08-08-97<br>11-18-97<br>02-20-98<br>05-11-98 | Not sampled:<br>Not sampled:<br>Not sampled:<br>29,000<br>33,000<br>8,000 | WCIL CONTAN                      | ded floating p       | roduct                      | 3,800<br>2,300<br>730<br>2,100<br>460<br>329<br>910<br>1,200<br>369 | (µp/L)<br><500<br>120<br>53<br>75<br>32<br><50<br><30<br><60<br>20 | (µg/L)<br><br><br><br><br><br><br><br><br><br><br><br> | · (µg/1.)<br><br><br><br><br><br><br><br><br><br><br><br><br> | (mg/L)              | (R/NP)                |
| ADR-2<br>ADR-2<br>ADR-2<br>ADR-2   | 05-26-99<br>08-23-99<br>10-27-99<br>01-31-00   | 14.64<br>14.64<br>14.64<br>14.64  | Not EDropy<br>11.02<br>9.82<br>9.85<br>10.15 | ed: well insper<br>ND<br>ND<br>Sheen<br>ND   | cssible<br>3.62<br>4.82<br>4.79<br>4.49 | 05-26-99<br>08-23-99   | Not sampled<br>5,500<br>9,100<br>Not sampled: she<br>7,700                | 670<br>570<br>580 present<br>289 | 5<br>12<br>3.4       | 340<br>410<br>370           | 104<br>1,000<br>390   | 16<br>_28<br>  | * =  | <br>  | 0.50<br>0,65<br>2,9 | NP<br>NP<br>NP        |

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|  | 6  |  | Page 11 of 11                   |   |
|--|--|--|---------------------------------|---|
|  | Table 1<br>Historical Groundwater Elevate<br>Petroleum Hydrocarbons and<br>1995 - Presen | d Their Constituerite  | 4 #5- 1 + v( 1 +                |   |
| TOC Depth F  | ARCO Service Stat<br>889 West Grand Avenue, O  | tion 2169<br>aiçland, California   | • • • • • •                     |   |
| Well Data Elevation to Water Thick<br>Number Gauged (8-MSL) [foct) (fee<br>IDC: pp of cosing   | ness Elevation Date Ossoline Banger  | Contraction of the state of the | * 8260 Diesel Onveca Not Purged | 1 |
| LMSL oferation in feet, relative to mean see level<br>TH: teal patroleum hydrocarbans, California DHS LUFT Method<br>MHY: bearons, toblean, ethyl ensate, totel systems by BPA method 1<br>TH: Molhyl ten-buyl other<br>g/L: micrograms per liter<br>D: none detected<br>E: not reported; data not available or not measurable<br>-: motanalyzed or not applicable<br>denotes concentration not present at or above faloratory deloction He<br>): well contained more than 3 feet of floating product; exact product to<br>BPA method 8020 prior to 10/27/59<br>:: [contexted data into 10/27/59<br>:: [contexted data into the second second of the present star product and present at a product star product star<br>:: Per previous Materials, Oakland, California, (EMCON, March 4,<br>SON 10 10 10 10 10 10 10 10 10 10 10 10 10 | ; · · · · · · · · · · · · · · · · · · ·  | nirdiailan System Performtave Divituation Report, ARCS   | 7 Service Station 2169,         |   |
|  |  |  |                                 | 1 |
|  |  |  |                                 |   |
|  |  |  |                                 |   |
|  | ,  |  |                                 |   |
| ASC:ARCO21 69QTRL YEBstarical Data xit/ul:1  |  |  |                                 |   |
| A work a post tott full Kismil   |  |  |                                 |   |

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 Table 2

 Groundwater Flow Direction and Gradient

## ARCO Service Station 2169 889 West Grand Avenue, Oakland, California

| Date     | Average           | Average            |
|----------|-------------------|--------------------|
| Measured | How Direction     | Hydraulic Gradient |
|          |                   | Liferance Gradient |
| 03-24-95 | Northwest         | 0.009              |
| 06-05-95 | Northwest         | 0.002              |
| 08-17-95 | West              | 0.001              |
| 12-04-95 | North-Northwest   | 0.002              |
| 03-01-96 | Northwest         | 0.003              |
| 05-29-96 | Northwest         | 0.002              |
| 08-29-96 | West              | 0.002              |
| 11-21-96 | West-Northwest    | 0.002              |
| 03-26-97 | Northwest         | 0.002              |
|          | North-Northwest   | -0.002             |
| 08-08-97 | North-Northwest   | 0.002              |
| 11-18-97 | North-Northwest   | 0.003              |
| 02-20-98 | North             | 0.013              |
| 05-11-98 | North             | 0.03               |
| 07-30-98 | North             | 0.002              |
| 10-08-98 | · North-Northwest | 0.002              |
| 02-18-99 | Northwest         | 0.008              |
| 05-26-99 | North-Northwest   | 0.003              |
| 08-23-99 | Variable          | Variable           |
| 10-27-99 | Variable          | Variable           |
| 01-31-00 | West-Northwest    | 0.006              |

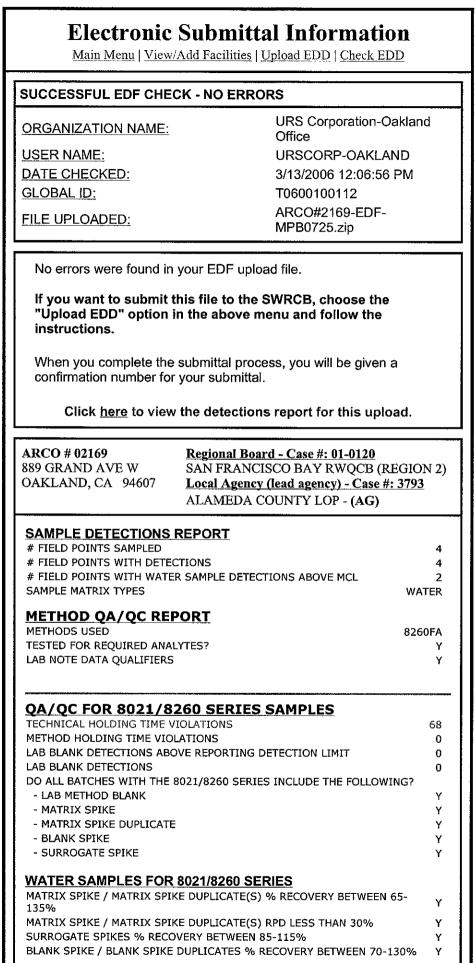
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### ATTACHMENT D

#### ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS



### Uploading EDF File, Step 3

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#### Page 2 of 2

| MATRIX SPIKE / MATRIX<br>135%      | SPIKE DUPLICATE(S) % RE                                   | COVERY BETWEEN 65-               | n/ |
|------------------------------------|---|----------------------------------|----|
| MATRIX SPIKE / MATRIX              | SPIKE DUPLICATE(S) RPD L                                  | ESS THAN 30%                     | n/ |
| SURROGATE SPIKES % F               | ECOVERY BETWEEN 70-125                                    | 5%                               | n/ |
| •                                  | PIKE DUPLICATES % RECOV                                   | ERY BETWEEN 70-                  | n/ |
|                                    | na 17 maan da bara ka |                                  |    |
| 130%<br>FIELD QC SAMPLES<br>SAMPLE | COLLECTED   | DETECTIONS >                     |    |
| FIELD QC SAMPLES                   | -   | <u>DETECTIONS &gt;</u> 0         |    |
| FIELD QC SAMPLES                   | <u>COLLECTED</u>  | <u>DETECTIONS &gt;</u><br>0<br>0 |    |

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Uploading EDF File, Step 3

#### **Electronic Submittal Information** Main Menu | View/Add Facilities | Upload EDD | Check EDD Your EDF file has been successfully uploaded! Confirmation Number: 3368133604 Date/Time of Submittal: 3/13/2006 12:07:43 PM Facility Global ID: T0600100112 Facility Name: ARCO # 02169 Submittal Title: 1Q 2006 BP/ARCO 2169 EDF Submittal Type: GW Monitoring Report Click here to view the detections report for this upload. ARCO # 02169 Regional Board - Case #: 01-0120 889 GRAND AVE W SAN FRANCISCO BAY RWQCB (REGION 2) OAKLAND, CA 94607 Local Agency (lead agency) - Case #: 3793 ALAMEDA COUNTY LOP - (AG) CONF # TITLE QUARTER 1Q 2006 BP/ARCO 2169 EDF 3368133604 Q1 2006 SUBMITTED BY SUBMIT DATE STATUS Srijesh Thapa 3/13/2006 PENDING REVIEW SAMPLE DETECTIONS REPORT # FIELD POINTS SAMPLED 4 # FIELD POINTS WITH DETECTIONS 4 # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL 2 SAMPLE MATRIX TYPES WATER **METHOD QA/QC REPORT** METHODS USED 8260FA TESTED FOR REQUIRED ANALYTES? LAB NOTE DATA QUALIFIERS Y QA/QC FOR 8021/8260 SERIES SAMPLES TECHNICAL HOLDING TIME VIOLATIONS 68 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% Y 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% Y 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

Uploading EDF File, Step 3

|                  | KE DUPLICATES % RECOVERY | BETWEEN 70-130% n/ |
|------------------|--------------------------|--------------------|
| FIELD QC SAMPLES |                          |                    |
| <u>SAMPLE</u>    | COLLECTED                | DETECTIONS > REP   |
| QCTB SAMPLES     | N                        | 0                  |
| QCEB SAMPLES     | N                        | 0                  |
| QCAB SAMPLES     | N                        | O                  |

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#### Uploading GEO\_WELL File

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Submittal Title:1Q 2006 BP/ARCO 2169<br/>GEOWELLSubmittal Date/Time:3/13/2006 12:06:07 PMConfirmation<br/>Number:3064120233Back to Main Menu

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| -000100110            | . 7   | /    | geo_well.txt<br>2/9/2006 | 9.04    | 23.7       |
|-----------------------|-------|------|--------------------------|---------|------------|
| T0600100112           | A-1   | АСТ√ | 2/9/2006                 | 9.04 V  | 23./ •     |
| N<br>T0600100112<br>N | A-2   | АСТ  | 2/9/2006                 | 10.43   | 24.65√ UNK |
| то600100112<br>N      | A-3   | АСТ  | 2/9/2006                 | 11.27   | 28.47      |
| т0600100112<br>N      | A-4   | АСТ  | 2/9/2006                 | 10.15 🗸 | 27.73 UNK  |
| T0600100112           | A-5   | ACT  | 2/9/2006                 | 9.02    | 24.18      |
| ТО600100112<br>N      | A-6   | АСТ  | 2/9/2006                 | 9.23    | 26.95√ UNK |
| ТО600100112<br>N      | ADR-1 | АСТ  | 2/9/2006                 | 10.05   | 20.56      |
| T0600100112<br>N      | ADR-2 | АСТ  | 2/9/2006                 | 9.6     | 25.86 UNK  |
| T0600100112<br>N      | AR-1  | АСТ  | 2/9/2006                 | 10.49   | 27.7       |
| T0600100112<br>N      | AR-2  | ACT  | 2/9/2006                 | 10.03 🗸 | 28.65√ UNK |
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