



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 6549
Moraga, California 94570
Phone: (925) 299-8891
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February 11, 2003
Alameda County
Environmental Health
FEB 18 2003

Re: Semi-Annual 2002 Groundwater Monitoring Report
ARCO Station # 6113
785 E Stanley Blvd
Livermore, CA

"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
Environmental Business Manager

Alameda County
Environmental Health
FEB 18 2003



September 17, 2003

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Alameda County
SEP 27 2003
Environmental Health

**Re: Third Quarter 2003 Status Report
ARCO Service Station #6113
785 East Stanley Boulevard
Livermore, California
URS Project #38486462**

Dear Mr. Seery:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Third Quarter 2003 Status Report* for the ARCO Service Station #6113, located at 785 East Stanley Boulevard, Livermore, California.

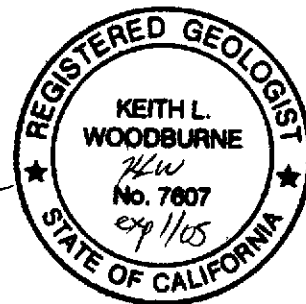
If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Keith Woodburne, R.G.
Project Geologist



Enclosure: Third Quarter 2003 Status Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)
Ms. Danielle Stefani, City of Livermore Fire Department, 4550 East Avenue, Livermore, CA 94550

Date: September 17, 2003

Quarter: 3Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.: 6113 Address: 785 East Stanley Boulevard, Livermore, California

Atlantic Richfield Co. Environmental Engineer: Paul Supple

Consulting Co./Contact Person: URS Corporation / Scott Robinson

Consultant Project No.: 38486462

Primary Agency: Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Third – 2003):

1. No environmental work was conducted at the site during the third quarter 2003.
2. Prepared and submitted third quarter 2003 status report.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2003):

1. Perform second semi-annual 2003 groundwater monitoring event.
2. Prepare and submit second semi-annual 2003 groundwater monitoring report.

February 11, 2003

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Semi-Annual 2002 Groundwater Monitoring Report
ARCO Service Station #6113
785 East Stanley Boulevard
Livermore, California
URS Project # 38465986**

Dear Ms. Chu:

On behalf of Atlantic Richfield Company (ARCO - an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Semi-Annual 2002 Groundwater Monitoring Report* for ARCO Service Station #6113, 785 East Stanley Boulevard, Livermore, California

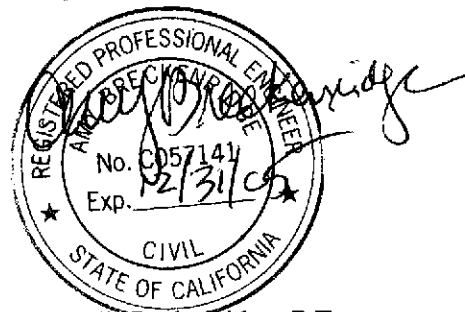
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION



Scott Robinson
Project Manager



Amy P. Breckenridge, P.E.
Portfolio Manager

Enclosure: Semi-Annual 2002 Groundwater Monitoring Report

cc: Ms. Danielle Stefani, City of Livermore Fire Department, 4550 East Ave, Livermore, CA 94550
Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

R E P O R T

Alameda County
FEB 18 2003
Environmental Health

**SEMI-ANNUAL 2002
GROUNDWATER MONITORING**

ARCO SERVICE STATION #6113
785 EAST STANLEY BOULEVARD
LIVERMORE, CALIFORNIA

Alameda County
FEB 16 2003
Environmental Health

Prepared for
Atlantic Richfield Company

February 11, 2003

URS

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38465986

Date: February 11, 2003
Quarter: 4Q 02

ATLANTIC RICHFIELD COMPANY SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Facility No.: 6113 Address: 785 East Stanley Boulevard, Livermore, California
ARCO Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38465986
Primary Agency: ACHCSA

WORK PERFORMED THIS QUARTER (Fourth – 2002):

1. Prepared third quarter 2002 groundwater status report.
2. Performed semi-annual 2002 groundwater monitoring event.
3. Oxygenate compounds were added to the groundwater analysis

WORK PROPOSED FOR NEXT QUARTER (First – 2003):

1. Prepare and submit semi-annual 2002 groundwater status report.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Wells MW-1 through MW-3, MW-8 through MW-10; Annually (4th Quarter)
Wells MW-4, MW-6, MW-7, MW-11 through MW-13, VW-1; Semi-Annually (2nd/4th Quarter)
Frequency of Groundwater Monitoring: Semi-Annual
Is Free Product (FP) Present On-Site: No
Bulk Soil Removed to Date: 288 cubic yards of TPH impacted soil
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 18.43 (MW-8) to 21.15 (MW-10) feet
Groundwater Gradient (direction): Northeast
Groundwater Gradient (magnitude): 0.017 feet per foot

DISCUSSION:

TPH-g was detected in three of the twelve wells sampled this quarter at concentrations ranging from 60 µg/L (MW-6) to 14,000 µg/L (MW-13). Benzene was detected in four wells at concentrations ranging from 1.2 µg/L (MW-7) to 510 µg/L (MW-13). MTBE was detected in six wells at concentrations ranging from 1.0 µg/L (MW-11) to 2,800 µg/L (MW-13).

We recommend removing wells MW-1, MW-2 and MW-8 from the annual sampling event. These wells are the farthest upgradient and have had no detections of the constituents of concern above the reporting limits since 1995. There are three other upgradient wells that have constituents at non-detectable levels that will continue to be sampled annually: MW-3, MW-9, and MW-10.

ATTACHMENTS:

- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Groundwater Flow Direction and Gradient
- Table 3 - Oxygenate Analytical Data
- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map - October 7, 2002
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C - Historic Groundwater Data
- Attachment D - EDCC and EDF/Geowell Submittal Confirmation

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | | | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|---|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | | | | |
| MW-1 | 03/23/95 | 457.04 | 14.12 | 442.92 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 05/31/95 | 457.04 | 14.45 | 442.59 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 08/31/95 | 457.04 | 17.12 | 439.92 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 11/28/95 | 457.04 | 16.34 | 440.70 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-1 | 02/22/96 | 457.04 | 13.23 | 443.81 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 05/23/96 | 457.04 | 14.02 | 443.02 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 08/08/96 | 457.04 | 16.13 | 440.91 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 11/07/96 | 457.04 | 17.28 | 439.76 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-1 | 03/27/97 | 457.04 | 14.91 | 442.13 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 05/19/97 | 457.04 | 16.47 | 440.57 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 05/18/98 | 457.04 | 14.69 | 442.35 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 11/02/98 | 457.04 | 25.94 | 431.10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-1 | 06/04/99 | 457.04 | 17.38 | 439.66 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 11/11/99 | 457.04 | 18.63 | 438.41 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 1.03 | P | |
| MW-1 | 06/20/00 | 457.04 | 17.09 | 439.95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | 3.1 |
| MW-1 | 08/29/00 | 457.04 | 18.20 | 438.84 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | 2.66 |
| MW-1 | 11/29/00 | 457.04 | 20.30 | 436.74 | <50.0 | <0.500 | <0.500 | <0.500 | 1.36 | <2.50 | 0.71 | P | |
| MW-1 | 05/02/01 | 457.04 | 22.39 | 434.65 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 08/15/01 | 457.04 | 24.97 | 432.07 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 10/05/01 | 457.04 | 25.09 | 431.95 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 0.78 | P | |
| MW-1 | 01/21/02 | 457.04 | 24.58 | 432.46 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 04/26/02 | 457.04 | 24.19 | 432.85 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 10/0702 | 457.04 | 20.13 | 436.91 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | 1.8 | P |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|---|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |
| MW-2 | 03/23/95 | 457.74 | 14.15 | 443.59 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 05/31/95 | 457.74 | 14.67 | 443.07 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 08/31/95 | 457.74 | 17.24 | 440.50 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 11/28/95 | 457.74 | 16.40 | 441.34 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-2 | 02/22/96 | 457.74 | 13.55 | 444.19 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 05/23/96 | 457.74 | 14.29 | 443.45 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 08/08/96 | 457.74 | 16.19 | 441.55 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 11/07/96 | 457.74 | 17.50 | 440.24 | 65 | 0.6 | 7.4 | 2.1 | 12 | 5 | | | |
| MW-2 | 03/27/97 | 457.74 | 15.32 | 442.42 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 05/19/97 | 457.74 | 16.62 | 441.12 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 05/18/98 | 457.74 | 15.12 | 442.62 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 11/02/98 | 457.74 | 26.66 | 431.08 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-2 | 06/04/99 | 457.74 | 17.74 | 440.00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 11/11/99 | 457.74 | 18.75 | 438.99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 0.82 | P | |
| MW-2 | 06/20/00 | 457.74 | 17.21 | 440.53 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 08/29/00 | 457.74 | 18.25 | 439.49 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 11/29/00 | 457.74 | 20.69 | 437.05 | <50.0 | <0.500 | 0.581 | 0.827 | 4.38 | <2.50 | 0.88 | P | |
| MW-2 | 05/02/01 | 457.74 | 22.69 | 435.05 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 08/15/01 | 457.74 | 25.15 | 432.59 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 10/05/01 | 457.74 | 25.22 | 432.52 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 0.80 | P | |
| MW-2 | 01/21/02 | 457.74 | 24.70 | 433.04 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 04/26/02 | 457.74 | 24.53 | 433.21 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 10/07/02 | 457.74 | 19.45 | 438.29 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | 1.5 | P |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | | | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|---|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | | | | |
| MW-3 | 03/23/95 | 456.97 | 14.13 | 442.84 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 05/31/95 | 456.97 | 14.46 | 442.51 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 08/31/95 | 456.97 | 17.06 | 439.91 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 11/28/95 | 456.97 | 16.27 | 440.70 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-3 | 02/22/96 | 456.97 | 13.14 | 443.83 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 05/23/96 | 456.97 | 13.95 | 443.02 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 08/08/96 | 456.97 | 16.03 | 440.94 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 11/07/96 | 456.97 | 17.26 | 439.71 | <50 | <0.5 | 0.9 | <0.5 | 1.5 | <3 | | | |
| MW-3 | 03/27/97 | 456.97 | 14.85 | 442.12 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 05/19/97 | 456.97 | 16.40 | 440.57 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 05/18/98 | 456.97 | 14.66 | 442.31 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 11/02/98 | 456.97 | 25.85 | 431.12 | <1,000 | <10 | <10 | <10 | <10 | 1,700 | | | |
| MW-3 | 06/04/99 | 456.97 | 17.35 | 439.62 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 11/11/99 | 456.97 | 18.58 | 438.39 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 0.79 | P | |
| MW-3 | 06/20/00 | 456.97 | 17.03 | 439.94 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 2.8 | | |
| MW-3 | 08/29/00 | 456.97 | 18.25 | 438.72 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 3.39 | | |
| MW-3 | 11/29/00 | 456.97 | 20.27 | 436.70 | <50.0 | <0.500 | <0.500 | 1.08 | 3.34 | <2.50 | 0.67 | | |
| MW-3 | 05/02/01 | 456.97 | 22.33 | 434.64 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 08/15/01 | 456.97 | 25.03 | 431.94 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 10/05/01 | 456.97 | 25.17 | 431.80 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 0.79 | P | |
| MW-3 | 01/21/02 | 456.97 | 24.79 | 432.18 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 04/26/02 | 456.97 | 24.27 | 432.70 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 10/07/02 | 456.97 | 20.20 | 436.77 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | 1.2 | P |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|-----------------------|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|--------------------------|
| MW-4 | 03/23/95 | 456.55 | 15.39 | 441.16 | 210 | 2.1 | 0.6 | 0.8 | 2.1 | -- | | | |
| MW-4 | 05/31/95 | 456.55 | 15.32 | 441.23 | 190 | 1.6 | <0.5 | 0.7 | 0.9 | -- | | | |
| MW-4 | 08/31/95 | 456.55 | 17.86 | 438.69 | 160 | 1.2 | 0.7 | <0.5 | <2 | <3 | | | |
| MW-4 | 11/28/95 | 456.55 | 17.18 | 439.37 | 150 | 0.7 | <0.5 | 0.7 | 1.4 | <3 | | | |
| MW-4 | 02/22/96 | 456.55 | 14.80 | 441.75 | 100 | <0.5 | <0.5 | <0.6 | 0.8 | <3 | | | |
| MW-4 | 05/23/96 | 456.55 | 14.43 | 442.12 | 86 | <0.5 | <0.5 | <0.5 | <0.7 | <3 | | | |
| MW-4 | 08/08/96 | 456.55 | 16.80 | 439.75 | 98 | <0.5 | <0.5 | <0.5 | 1.3 | <3 | | | |
| MW-4 | 11/07/96 | 456.55 | 17.90 | 438.65 | 140 | <0.5 | <0.5 | <0.9 | 1.3 | <3 | | | |
| MW-4 | 03/27/97 | 456.55 | 15.22 | 441.33 | <50 | 1.1 | <0.5 | <0.5 | 1.6 | <3 | | | |
| MW-4 | 05/19/97 | 456.55 | 16.98 | 439.57 | 62 | <0.5 | <0.5 | <0.5 | 0.6 | <3 | | | |
| MW-4 | 05/18/98 | 456.55 | 14.99 | 441.56 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 64 | | | |
| MW-4 | 11/02/98 | 456.55 | 25.29 | 431.26 | 74 | <0.5 | <0.5 | <0.5 | <0.5 | 96 | | | |
| MW-4 | 06/04/99 | 456.55 | 17.95 | 438.60 | 100 | <0.5 | <0.5 | <0.5 | <0.5 | 38 | | | P |
| MW-4 | 11/11/99 | 456.55 | 19.25 | 437.30 | 88 | <0.5 | <0.5 | <0.5 | <1 | 10 | | 0.77 | P |
| DUP 1 | 06/20/00 | NR | NR | NR | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 62.3 | | | |
| MW-4 | 06/20/00 | 456.55 | 17.79 | 438.76 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 82.4 | | 1.3 | P |
| MW-4 | 08/29/00 | 456.55 | 18.90 | 437.65 | 56.0 | <0.500 | <0.500 | <0.500 | <0.500 | 47.9 | | 0.97 | P |
| MW-4 | 11/29/00 | 456.55 | 20.50 | 436.05 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 9.88 | 10.4 | 0.59 | P |
| MW-4 | 05/02/01 | 456.55 | 22.65 | 433.90 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 61.1 | 70.9 | 0.74 | P |
| DUP 1 | 05/02/01 | NR | NR | NR | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 59.4 | 68.4 | | |
| MW-4 | 08/15/01 | NR | NR | NR | Not sampled: well dry | | | | | | | | |
| MW-4 | 10/05/01 | NR | NR | NR | Not sampled: well dry | | | | | | | | |
| MW-4 | 01/21/02 | NR | NR | NR | Not sampled: well dry | | | | | | | | |
| MW-4 | 04/26/02 | 456.55 | 20.15 | 436.40 | 110 | <0.50 | <0.50 | <0.50 | <0.50 | 150 | | 0.21 | P |
| MW-4 | 10/07/02 | 456.55 | 20.76 | 435.79 | 96 ¹ | <0.50 | <0.50 | 0.54 | <0.50 | -- | 260 | 1.0 | P |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|--|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | | | | | |
| MW-5 | 03/23/95 | 455.84 | 13.97 | 441.87 | 68 | 4.2 | 3.4 | 2.3 | 12 | -- | | | |
| MW-5 | 05/31/95 | 455.84 | NR | NR | Not sampled: well was inaccessible | | | | | | | | |
| MW-5 | 08/31/95 | 455.84 | NR | NR | Not sampled: well was inaccessible | | | | | | | | |
| MW-5 | 11/28/95 | 455.84 | 16.46 | 439.38 | 960 | 41 | 24 | 38 | 210 | <5 | | | |
| MW-5 | 02/22/96 | 455.84 | 13.34 | 442.50 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-5 | 05/23/96 | 455.84 | 14.36 | 441.48 | 7,100 | 440 | 180 | 270 | 1,700 | <50 | | | |
| MW-5 | 08/08/96 | 455.84 | 16.38 | 439.46 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-5 | 11/07/96 | 455.84 | 17.26 | 438.58 | 5,600 | 230 | 86 | 210 | 1,100 | <80 | | | |
| MW-5 | 03/27/97 | 455.84 | 15.95 | 439.89 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-5 | 05/19/97 | 455.84 | 16.64 | 439.20 | 7,600 | 480 | 140 | 400 | 1,200 | <40 | | | |
| MW-5 | 05/18/98 | 455.84 | 14.75 | 441.09 | 990 | 46 | 13 | 45 | 180 | 4 | | | |
| MW-5 | 11/02/98 | 455.84 | 27.83 | 428.01 | 14,000 | 690 | 140 | 550 | 2,200 | 100 | | | |
| MW-5 | 06/04/99 | 455.84 | 17.47 | 438.37 | 8,300 | 690 | 370 | 90 | 440 | 1,400 | | P | |
| MW-5 | 11/11/99 | 455.84 | 18.80 | 437.04 | 18,000 | 900 | 190 | 1,100 | 3,200 | 72 | 0.86 | P | |
| MW-5 | 06/20/00 | 455.84 | 17.14 | 438.70 | 10,200 | 618 | 122 | 832 | 2,020 | <50.0 | 1.6 | P | |
| MW-5 | 08/29/00 | 455.84 | 18.60 | 437.24 | 12,300 | 436 | 166 | 711 | 2,120 | 517 | 0.79 | P | |
| MW-5 | 11/29/00 | 455.84 | 20.57 | 435.27 | 26,000 | 491 | 149 | 1,090 | 3,810 | 671 | <20.0 | 0.51 | P |
| MW-5 | 05/02/01 | NR | NR | NR | Well Abandoned | | | | | | | | |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|-----------------|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |
| MW-6 | 03/23/95 | 454.93 | 13.38 | 441.55 | <50 | 1.5 | <0.5 | <0.5 | 0.9 | -- | | | |
| MW-6 | 05/31/95 | 454.93 | 13.96 | 440.97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | |
| MW-6 | 08/31/95 | 454.93 | 16.71 | 438.22 | 150 | 9 | 1.8 | 4 | 12 | <3 | | | |
| MW-6 | 11/28/95 | 454.93 | 15.65 | 439.28 | <50 | 0.6 | <0.5 | <0.5 | 0.8 | <3 | | | |
| MW-6 | 02/22/96 | 454.93 | 12.53 | 442.40 | <50 | 1.9 | <0.5 | 0.8 | 2.1 | <3 | | | |
| MW-6 | 05/23/96 | 454.93 | 13.24 | 441.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-6 | 08/08/96 | 454.93 | 16.65 | 438.28 | <50 | 0.5 | <0.5 | <0.5 | 0.5 | <3 | | | |
| MW-6 | 11/07/96 | 454.93 | 16.65 | 438.28 | 110 | 5.3 | 1.3 | 3.1 | 6.6 | <3 | | | |
| MW-6 | 03/27/97 | 454.93 | 14.25 | 440.68 | <50 | 2.3 | <0.5 | 0.9 | 3.5 | 4 | | | |
| MW-6 | 05/19/97 | 454.93 | 15.87 | 439.06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-6 | 05/18/98 | 454.93 | 14.00 | 440.93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-6 | 11/02/98 | 454.93 | 24.95 | 429.98 | <50 | 1.2 | <0.5 | <0.5 | <0.5 | 3 | | | |
| MW-6 | 06/04/99 | 454.93 | 16.68 | 438.25 | 310 | 41 | 3.8 | 11 | 19 | 33 | | | P |
| MW-6 | 11/11/99 | 454.93 | 16.12 | 438.81 | <50 | 0.5 | <0.5 | <0.5 | <1 | <3 | | 0.92 | P |
| MW-6 | 06/20/00 | 454.93 | 16.63 | 438.30 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 17.3 | | 1.9 | P |
| DUP | 08/29/00 | NR | NR | NR | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | | |
| MW-6 | 08/29/00 | 454.93 | 17.91 | 437.02 | <50.0 | <0.500 | 0.551 | <0.500 | <0.500 | <2.50 | | 1.67 | P |
| MW-6 | 11/29/00 | 454.93 | 20.30 | 434.63 | <50.0 | <0.500 | <0.500 | <0.500 | 1.03 | <2.50 | | 0.79 | P |
| MW-6 | 05/02/01 | 454.93 | 22.20 | 432.73 | 3,230 | 1,300 | 33.6 | 89.4 | 136 | 1,810 | 2,310 | 0.95 | P |
| MW-6 | 08/15/01 | 454.93 | 27.95 | 426.98 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 21 | 25 | 0.63 | P |
| MW-6 | 10/05/01 | 454.93 | 28.05 | 426.88 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | 0.85 | P |
| MW-6 | 01/21/02 | 454.93 | 26.81 | 428.12 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | | 0.91 | P |
| MW-6 | 04/26/02 | 454.93 | 26.27 | 428.66 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 17 | | 0.75 | P |
| MW-6 | 10/07/02 | 454.93 | 20.05 | 434.88 | 60 ^L | 13 | 1.7 | 1.7 | 3.5 | -- | 8.0 | 2.8 | P |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|------------------------------------|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| MW-7 | 03/23/95 | 454.92 | 13.29 | 441.63 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | |
| MW-7 | 05/31/95 | 454.92 | 13.72 | 441.20 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | |
| MW-7 | 08/31/95 | 454.92 | 16.53 | 438.39 | <50 | <0.5 | <0.5 | <0.5 | 1.2 | <3 | | | |
| MW-7 | 11/28/95 | 454.92 | 15.50 | 439.42 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-7 | 02/22/96 | 454.92 | 12.30 | 442.62 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-7 | 05/23/96 | 454.92 | 13.02 | 441.90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-7 | 08/08/96 | 454.92 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-7 | 11/07/96 | 454.92 | 16.50 | 438.42 | <50 | <0.5 | <0.5 | <0.5 | 0.8 | <3 | | | |
| MW-7 | 03/27/97 | 454.92 | 14.22 | 440.70 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-7 | 05/19/97 | 454.92 | 15.74 | 439.18 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-7 | 05/18/98 | 454.92 | 13.82 | 441.10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-7 | 11/02/98 | 454.92 | 24.80 | 430.12 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | | | |
| MW-7 | 06/04/99 | 454.92 | 16.55 | 438.37 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | P |
| MW-7 | 11/11/99 | 454.92 | 18.02 | 436.90 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | | 1.03 | P |
| MW-7 | 06/20/00 | 454.92 | 16.50 | 438.42 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | 1.3 | P |
| MW-7 | 08/29/00 | 454.92 | 17.80 | 437.12 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | 1.67 | P |
| MW-7 | 11/29/00 | 454.92 | 19.61 | 435.31 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | 0.51 | P |
| MW-7 | 05/02/01 | 454.92 | 22.05 | 432.87 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | 2.66 | 0.9 | P |
| MW-7 | 08/15/01 | 454.92 | 27.55 | 427.37 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | 0.84 | P |
| MW-7 | 10/05/01 | 454.92 | 27.59 | 427.33 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | 0.62 | P |
| MW-7 | 01/21/02 | 454.92 | 26.50 | 428.42 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 15 | 21 | 0.65 | P |
| MW-7 | 04/26/02 | 454.92 | 26.22 | 428.70 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 18 | | 0.61 | P |
| MW-7 | 10/07/02 | 454.92 | 20.04 | 434.88 | <50 | 1.2 | <0.50 | <0.50 | 0.77 | -- | 41 | 4.8 | P |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|---|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | | | | | |
| MW-8 | 03/23/95 | 456.97 | 11.55 | 445.42 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 05/31/95 | 456.97 | 12.37 | 444.60 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 08/31/95 | 456.97 | 15.68 | 441.29 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 11/28/95 | 456.97 | 14.15 | 442.82 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-8 | 02/22/96 | 456.97 | 10.97 | 446.00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 05/23/96 | 456.97 | 11.90 | 445.07 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 08/08/96 | 456.97 | 13.85 | 443.12 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 11/07/96 | 456.97 | 15.08 | 441.89 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-8 | 03/27/97 | 456.97 | 12.96 | 444.01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 05/19/97 | 456.97 | 14.35 | 442.62 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 05/18/98 | 456.97 | 12.97 | 444.00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 11/02/98 | 456.97 | 26.01 | 430.96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-8 | 06/04/99 | 456.97 | 15.53 | 441.44 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 11/11/99 | 456.97 | 16.67 | 440.30 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 1.01 | P | |
| MW-8 | 06/20/00 | 456.97 | 15.29 | 441.68 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | 2.4 |
| MW-8 | 08/29/00 | 456.97 | 16.59 | 440.38 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | 3.37 |
| MW-8 | 11/29/00 | 456.97 | 19.80 | 437.17 | <50.0 | <0.500 | <0.500 | <0.500 | 0.772 | <2.50 | 1.35 | P | |
| MW-8 | 05/02/01 | 456.97 | 22.12 | 434.85 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 08/15/01 | 456.97 | 27.63 | 429.34 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 10/05/01 | 456.97 | 27.65 | 429.32 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 1.07 | P | |
| MW-8 | 01/21/02 | 456.97 | 26.73 | 430.24 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 04/26/02 | 456.97 | 26.39 | 430.58 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-8 | 10/07/02 | 456.97 | 18.43 | 438.54 | <50 | <0.50 | <0.50 | <0.50 | 0.86 | -- | <0.50 | 4.2 | P |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | | | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) | |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|---|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|--|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | | | | | |
| MW-9 | 03/23/95 | 456.18 | 13.18 | 443.00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 05/31/95 | 456.18 | 12.66 | 443.52 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 08/31/95 | 456.18 | 14.40 | 441.78 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 11/28/95 | 456.18 | 14.26 | 441.92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-9 | 02/22/96 | 456.18 | 12.05 | 444.13 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 05/23/96 | 456.18 | 12.07 | 444.11 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 08/08/96 | 456.18 | 14.12 | 442.06 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 11/07/96 | 456.18 | 15.42 | 440.76 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-9 | 03/27/97 | 456.18 | 13.01 | 443.17 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 05/19/97 | 456.18 | 14.60 | 441.58 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 05/18/98 | 456.18 | 12.60 | 443.58 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 11/02/98 | 456.18 | 25.08 | 431.10 | Not sampled | | | | | | | | | |
| MW-9 | 06/04/99 | 456.18 | 15.87 | 440.31 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | P | |
| MW-9 | 11/11/99 | 456.18 | 17.02 | 439.16 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 0.96 | | P | |
| MW-9 | 06/20/00 | 456.18 | 15.54 | 440.64 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | 2.1 | | |
| MW-9 | 08/29/00 | 456.18 | 16.81 | 439.37 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | 2.59 | | |
| MW-9 | 11/29/00 | 456.18 | 18.81 | 437.37 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | 0.81 | | P | |
| MW-9 | 05/02/01 | 456.18 | 22.09 | 434.09 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 08/15/01 | 456.18 | 27.59 | 428.59 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 10/05/01 | 456.18 | 27.63 | 428.55 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 0.93 | | P | |
| DUP | 10/05/01 | NR | NR | NR | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | | | |
| MW-9 | 01/21/02 | 456.18 | 26.77 | 429.41 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 04/26/02 | 456.18 | 26.41 | 429.77 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-9 | 10/07/02 | 456.18 | 18.85 | 437.33 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | 2.6 | P | |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | | | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|---|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|--------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | | | | |
| MW-10 | 03/23/95 | 456.85 | 14.86 | 441.99 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 05/31/95 | 456.85 | 15.63 | 441.22 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 08/31/95 | 456.85 | 14.40 | 442.45 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 11/28/95 | 456.85 | 17.24 | 439.61 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-10 | 02/22/96 | 456.85 | 14.30 | 442.55 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 05/23/96 | 456.85 | 14.93 | 441.92 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 08/08/96 | 456.85 | 17.20 | 439.65 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 11/07/96 | 456.85 | 18.25 | 438.60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-10 | 03/27/97 | 456.85 | 15.77 | 441.08 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 05/19/97 | 456.85 | 17.38 | 439.47 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 05/18/98 | 456.85 | 15.47 | 441.38 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 11/02/98 | 456.85 | 26.94 | 429.91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-10 | 06/04/99 | 456.85 | 17.19 | 439.66 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 11/11/99 | 456.85 | 19.35 | 437.50 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 0.68 | P | |
| MW-10 | 06/20/00 | 456.85 | 17.92 | 438.93 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | 2.9 |
| MW-10 | 08/29/00 | 456.85 | 19.15 | 437.70 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | 1.54 |
| MW-10 | 11/29/00 | 456.85 | 21.30 | 435.55 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | 0.95 | P | |
| MW-10 | 05/02/01 | 456.85 | 29.95 | 426.90 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 08/15/01 | 456.85 | 30.74 | 426.11 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 10/05/01 | 456.85 | 30.95 | 425.90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 0.89 | P | |
| MW-10 | 01/21/02 | 456.85 | 28.97 | 427.88 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 04/26/02 | 456.85 | 28.50 | 428.35 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 10/07/02 | 456.85 | 21.15 | 435.70 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <0.50 | 3.0 | P |

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | | | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|--|----------------|----------------|----------------------|--------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | | | | | | |
| MW-11 | 03/23/95 | 455.07 | 17.34 | 437.73 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | | |
| MW-11 | 05/31/95 | 455.07 | 16.68 | 438.39 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | |
| MW-11 | 08/31/95 | 455.07 | 20.20 | 434.87 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | | |
| MW-11 | 11/28/95 | 455.07 | 17.80 | 437.27 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-11 | 02/22/96 | 455.07 | 15.97 | 439.10 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | | |
| MW-11 | 05/23/96 | 455.07 | 15.50 | 439.57 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-11 | 08/08/96 | 455.07 | 17.77 | 437.30 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | | |
| MW-11 | 11/07/96 | 455.07 | 17.45 | 437.62 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-11 | 03/27/97 | 455.07 | 15.77 | 439.30 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | | |
| MW-11 | 05/19/97 | 455.07 | 16.80 | 438.27 | <50 | 1.1 | 4.5 | <0.5 | 2.2 | <3 | | | | |
| MW-11 | 05/18/98 | 455.07 | 15.38 | 439.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-11 | 11/02/98 | 455.07 | 24.15 | 430.92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-11 | 06/04/99 | 455.07 | 18.39 | 436.68 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | P |
| MW-11 | 11/11/99 | 455.07 | 18.62 | 436.45 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | | 1.01 | | P |
| MW-11 | 06/20/00 | 455.07 | 17.82 | 437.25 | <50.0 | 0.631 | <0.500 | <0.500 | <0.500 | <2.50 | | 4.1 | | P |
| MW-11 | 08/29/00 | 455.07 | 19.50 | 435.57 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | | |
| MW-11 | 11/29/00 | 455.07 | 20.60 | 434.47 | <50.0 | <0.500 | <0.500 | <0.500 | 1.63 | <2.50 | | 0.97 | | P |
| MW-11 | 05/02/01 | 455.07 | 22.42 | 432.65 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | 1.04 | | P |
| MW-11 | 08/15/01 | 455.07 | 27.41 | 427.66 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | | |
| MW-11 | 10/05/01 | 455.07 | 27.59 | 427.48 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | 1.05 | | P |
| MW-11 | 01/21/02 | 455.07 | 26.75 | 428.32 | Not sampled: well sampled semi annually, during the second quarter | | | | | | | | | |
| MW-11 | 04/26/02 | 455.07 | 26.50 | 428.57 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | 0.47 | | P |
| MW-11 | 10/07/02 | 455.07 | 20.79 | 434.28 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 1.0 | 1.4 | | P |

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|--|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | | | | | |
| MW-12 | 03/23/95 | 455.04 | 15.54 | 439.50 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 05/31/95 | 455.04 | 15.66 | 439.38 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | |
| MW-12 | 08/31/95 | 455.04 | 18.23 | 436.81 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 11/28/95 | 455.04 | 17.53 | 437.51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 02/22/96 | 455.04 | 14.45 | 440.59 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 05/23/96 | 455.04 | 14.88 | 440.16 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 08/08/96 | 455.04 | 17.30 | 437.74 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 11/07/96 | 455.04 | 18.30 | 436.74 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 03/27/97 | 455.04 | 15.69 | 439.35 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 05/19/97 | 455.04 | 17.41 | 437.63 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 05/18/98 | 455.04 | 15.21 | 439.83 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 11/02/98 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 06/04/99 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 11/11/99 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 06/20/00 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 08/29/00 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 11/29/00 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 05/02/01 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 08/15/01 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 10/05/01 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 01/21/02 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 04/26/02 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 10/07/02 | 455.04 | NR | NR | Not sampled: unable to locate well | | | | | | | | |

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|---------------------|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |
| MW-13 | 01/21/02 | NR | 24.61 | NR | 15,000 | 160 | 68 | 1,700 | 3,200 | 4,900 | 5,200 | 0.71 | P |
| MW-13 | 04/26/02 | NR | 24.2 | NR | 17,000 | 98 | <100 | 1,700 | 3,400 | 1,600 | | 0.6 | P |
| MW-13 | 10/07/02 | NR | 20.12 | NR | 14,000 ² | 510 | <50 | 2,200 | 2,300 | -- | 2,800 | 0.8 | P |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|-----------------|----------------------------------|-----------------------|--------------------------------|------------------------|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | | | | | |
| VW-1 | 08/29/00 | NR | 17.40 | NR | 2,360 | 27.6 | 11.6 | 26.3 | 33.2 | 110 | | 4.47 | P |
| VW-1 | 11/29/00 | NR | 18.75 | NR | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | 0.46 | P |
| VW-1 | 05/02/01 | NR | 21.59 | NR | Well not sampled | | | | | | | | |
| VW-1 | 08/15/01 | NR | 24.62 | NR | 1,200 | 6.3 | 4.3 | 1.7 | 1.3 | 20 | 17 | | P |
| DUP | 08/15/01 | NR | NR | NR | 1,200 | 6.2 | 4.1 | 1.8 | 1.1 | 20 | 17 | | |
| VW-1 | 10/05/01 | NR | 24.75 | NR | 1,500 | 140 | 55 | 28 | 82 | 610 | 660 | 0.71 | P |
| VW-1 | 01/21/02 | NR | 24.59 | NR | 6,700 | 810 | 350 | 270 | 1,100 | 2,600 | 3,400 | 0.69 | P |
| DUP | 01/21/02 | NR | NR | NR | 8,000 | 770 | 320 | 96 | 1,100 | 2,500 | 3,200 | | |
| VW-1 | 04/26/02 | NR | 24.27 | NR | 370 | 26 | 2.1 | 6.6 | 1.7 | 48 | | 0.50 | P |
| DUP | 04/26/02 | NR | NR | NR | 350 | 24 | 1.6 | 5.9 | 1.6 | 45 | | | |
| VW-1 | 10/07/02 | NR | 19.20 | NR | 410² | 25 | 2.2 | 8.0 | 4.3 | -- | 88 | 1.7 | P |

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|------------------------------------|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|--------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |
| VW-2 | 08/29/00 | NR | NR | NR | Well inaccessible | | | | | | | | |
| VW-2 | 11/29/00 | NR | NR | NR | Well inaccessible | | | | | | | | |
| VW-2 | 05/02/01 | NR | NR | NR | Well not sampled | | | | | | | | |
| VW-2 | 05/02/01 | NR | NR | NR | Well not sampled | | | | | | | | |
| VW-2 | 10/05/01 | NR | NR | NR | Well inaccessible | | | | | | | | |
| VW-2 | 01/21/02 | NR | NR | NR | Well inaccessible | | | | | | | | |
| VW-2 | 04/26/02 | NR | NR | NR | Not sampled: unable to locate well | | | | | | | | |
| VW-2 | 10/07/02 | NR | NR | NR | Not sampled: well inaccessible | | | | | | | | |

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|--------------|----------------------------------|-----------------------|--------------------------------|-----------------------|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |
| VW-3 | 08/29/00 | NR | 17.93 | NR | 25,400 | 3,540 | 10,600 | 1,280 | 43,000 | 44,700 | | | P |
| VW-3 | 11/29/00 | NR | 19.75 | NR | 54,200 | 9,450 | 1,870 | 2,350 | 9,400 | 12,300 | 15,100 | 0.47 | P |
| VW-3 | 05/02/01 | NR | NR | NR | Well abandoned | | | | | | | | |
| VW-4 | 08/29/00 | NR | NR | NR | Well inaccessible | | | | | | | | |
| VW-4 | 11/29/00 | NR | 19.45 | NR | 37,500 | 4,510 | 206 | 2,100 | 9,030 | 6,770 | 7,880 | 0.42 | P |
| DUP | 11/29/00 | NR | NR | NR | 36,100 | 3,700 | 206 | 1,850 | 7,890 | 6,430 | 8,460 | | |
| VW-4 | 05/02/01 | NR | 21.66 | NR | Well not sampled | | | | | | | | |
| VW-4 | 08/15/01 | NR | NR | NR | Well not sampled | | | | | | | | |
| VW-4 | 10/05/01 | NR | NR | NR | Not sampled: well dry | | | | | | | | |
| VW-4 | 01/21/02 | NR | NR | NR | Not sampled: well dry | | | | | | | | |
| VW-4 | 04/26/02 | NR | NR | NR | Not sampled: well dry | | | | | | | | |
| VW-4 | 10/07/02 | NR | 19.25 | NR | Well not sampled | | | | | | | | |

Notes:

--: Not analyzed, not applicable

NR: not reported; data not available or not measurable

TPH: Total petroleum hydrocarbons by modified EPA method 8015

BTEX: Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 11/11/99)

MTBE: Methyl tertiary butyl ether by EPA method 8021B. (EPA method 8020 prior to 11/11/99). Any MTBE Detection by 8021B was confirmed by EPA method 8260 beginning Third Quarter 2000 (08-29-00 Results)

ft-MSL: elevation in feet, relative to mean sea level

µg/L: micrograms per liter

mg/L: milligrams per liter

<: less than laboratory detection limit stated to the right

DUP: duplicate

1 = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

2 = Chromatogram Pattern: C6-C10

The data within this table collected prior to October 2002 was provided to URS by Group Environment Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Date Measured | Average Flow Direction | Average Hydraulic Gradient |
|----------------------|-------------------------------|-----------------------------------|
| 03/23/95 | Northwest | 0.035 |
| 05/31/95 | North-Northwest | 0.028 |
| 08/31/95 | North-Northwest | 0.03 |
| 11/28/95 | North-Northwest | 0.025 |
| 02/22/96 | North-Northwest | 0.031 |
| 05/23/96 | North-Northwest | 0.025 |
| 08/08/96 | North | 0.019 |
| 11/07/96 | North-Northeast | 0.019 |
| 03/27/97 | North-Northwest | 0.021 |
| 05/19/97 | North | 0.019 |
| 05/18/98 | North | 0.02 |
| 11/02/98 | North | 0.02 |
| 06/04/99 | North | 0.02 |
| 11/11/99 | North | 0.03 |
| 06/20/00 | North-Northeast | 0.014 |
| 08/29/00 | North-Northeast | 0.013 |
| 11/29/00 | North-Northwest | 0.026 |
| 05/02/01 | Northeast | 0.026 |
| 08/15/01 | Northeast | 0.047 |
| 10/05/01 | Northeast | 0.031 |
| 01/21/02 | Northeast | 0.033 |
| 04/26/02 | Northeast | 0.031 |
| 10/07/02 | Northeast | 0.017 |

Note:

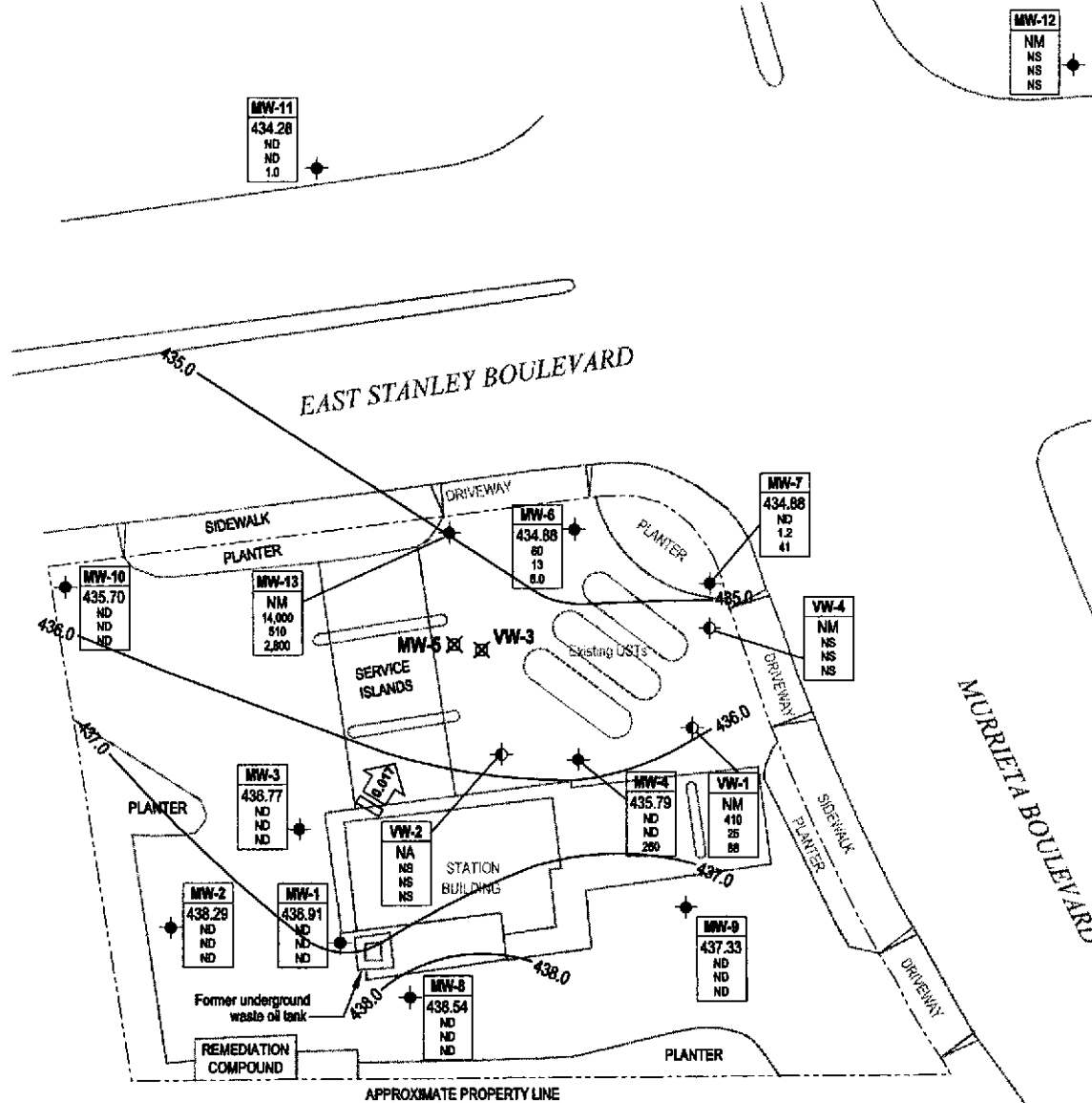
The data within this table collected prior to October 2002 was provided to URS by Group Environment Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 3
Oxygenate Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

| Well Number | Date Sampled | Ethanol (µg/L) | TBA (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-Dichloroethane (µg/L) | Ethylene Dibromide (µg/L) |
|-------------|--------------|----------------|------------|--------------|-------------|-------------|-------------|---------------------------|---------------------------|
| MW-1 | 10/07/02 | ND<40 | ND<20 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| MW-2 | 10/07/02 | ND<40 | ND<20 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| MW-3 | 10/07/02 | ND<40 | ND<20 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| MW-4 | 10/07/02 | ND<400 | ND<200 | 260 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 |
| MW-6 | 10/07/02 | ND<40 | ND<20 | 8.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| MW-7 | 10/07/02 | ND<40 | ND<20 | 41 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| MW-8 | 10/07/02 | ND<40 | ND<20 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| MW-9 | 10/07/02 | ND<40 | ND<20 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| MW-10 | 10/07/02 | ND<40 | ND<20 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| MW-11 | 10/07/02 | ND<40 | ND<20 | 1.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 |
| MW-13 | 10/07/02 | ND<4000 | ND<2000 | 2,800 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 |
| VW-1 | 10/07/02 | ND<80 | ND<40 | 88 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA = tert-Butyl alcohol
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert butyl ether
TAME = tert-Amyl methyl ether
µg/L = micrograms per liter

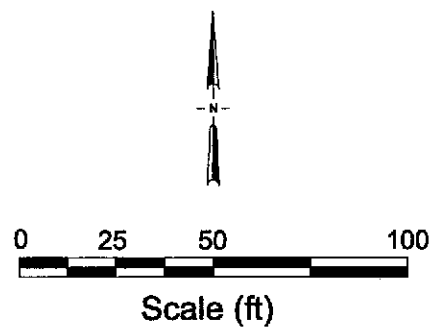


EXPLANATION

- MW-1 ◆ Monitoring well location
- VW-1 ◆ Vapor Extraction Well Location
- MW-5 ✕ Abandoned Well Location
- 435.0 Groundwater elevation contour

| Well ID | ELEV | TPHg | Benzene | MTBE |
|---------|------|------|---------|------|
| ◆ | | | | |
| ◆ | | | | |
| ✕ | | | | |
| — | | | | |

- * Not used for contouring
- NA Not Accessible
- ND Not Detected
- NM Not Measured
- NS Not Sampled
- ← 0.017 Approximate groundwater flow direction and gradient (ft/MSL)



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

| | | | |
|------------|--|--|--------------------|
| URS | Project No. 38465986 | Groundwater Elevation Contour and Analytical Summary Map (October 7, 2002) | FIGURE 1 |
| | ARCO Service Station 6113 785 East Stanley Blvd. Livermore, California | | |

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

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

WELL GAUGING DATA

Project # 021007-BA1 Date 10/07/02 Client ARLO 6113

Site 785 E. STANLEY BLVD, LIVERMORE

| Well ID | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TOC | |
|-------------------------|---|--------------|----------------------------------|--------------------------------------|------------------------------------|----------------------|----------------------------|--------------------------|---------------|
| MW-1 | 2 | | | | | 20.13 | 44.65 | TOC | |
| MW-2 | 2 | | | | | 19.45 | 38.80 | | |
| MW-3 | 2 | | | | | 20.20 | 39.08 | | |
| MW-4 | 4 | | | | | 20.76 | 26.73 | | // |
| MW-6 | 4 | | | | | 20.05 | 66.78 | | |
| MW-7 | 4 | | | | | 20.04 | 67.49 | | |
| MW-8 | 4 | | | | | 18.43 | 66.57 | | |
| MW-9 | 4 | | | | | 18.85 | 67.82 | | |
| MW-10 | 4 | | | | | 21.15 | 49.81 | | |
| MW-11 | 2 | | | | | 20.79 | 44.36 | | |
| MW-12 | UNABLE TO LOCATE | | | | | | | | |
| MW-13 | 2 | | | | | 20.12 | 30.34 | | // |
| VW-1 | 4 | | | | | 19.20 | 44.82 | | VAULT EXT SYS |
| VW-2 | WELL INACCESSIBLE / UNABLE TO UNSCREW BOLT + LIFT LID | | | | | | | | |
| VW-4 VW-3 | 4 | | | | | 19.25 | 24.43 | | VAULT EXT SYS |
| | | | | | | | | | |
| | | | | | | | | | |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|-----------------------------------|--|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALCOEN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-1</u> | Well Diameter: <u>(2)</u> 3 4 6 8 _____ |
| Total Well Depth: <u>44.65</u> | Depth to Water: <u>20.13</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>(PVC)</u> Grade | D.O. Meter (if req'd): <u>(YSI)</u> HACH |

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

| | |
|-----------------------------|--------------------------------|
| Purge Method: <u>Bailer</u> | Sampling Method: <u>Bailer</u> |
| <u>Disposable Bailer</u> | <u>(Disposable Bails)</u> |
| <u>(Middleburg)</u> | <u>Extraction Port</u> |
| <u>Electric Submersible</u> | Other: _____ |
| <u>Extraction Pump</u> | |
| Other: _____ | |

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>3.9</u> | X | <u>3</u> | = | <u>11.7</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|------------------------------|-------------|------------|---------------------------------|---------------|--------------------------|
| <u>1219</u> | <u>69.2</u> | <u>7.1</u> | <u>686</u> | <u>4</u> | <u>cloudy brown</u> |
| <u>1226</u> | <u>70.6</u> | <u>7.3</u> | <u>698</u> | <u>8</u> | <u>semi-cloudy brown</u> |
| <u>1232</u> | <u>67.9</u> | <u>7.3</u> | <u>694</u> | <u>12</u> | <u>"</u> |
| | | | | | |
| | | | | | |
| <u>NOTE: REACTION w/ HCL</u> | | | | | |

| | |
|--|---|
| Did well dewater? Yes <u>(No)</u> | Gallons actually evacuated: <u>12</u> |
| Sampling Time: <u>1235</u> | Sampling Date: <u>10/07/02</u> |
| Sample I.D.: <u>MW-1</u> | Laboratory: Pace <u>(Sequoia)</u> Other _____ |
| Analyzed for: <u>(TPH-G BTEX)</u> MTBE TPH-D Other: <u>ORGANICATES, ETHANOL, 1,2-DCA + EDB</u> | |
| D.O. (if req'd): | Pre-purge: _____ mg/L |
| | <u>(Post-purges)</u> <u>1.8</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV |
| | <u>(Post-purges)</u> _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|-----------------------------------|--|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALCORN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-2</u> | Well Diameter: <u>(2)</u> 3 4 6 8 _____ |
| Total Well Depth: <u>38.80</u> | Depth to Water: <u>19.45</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>(PVC)</u> Grade | D.O. Meter (if req'd): <u>(YSI)</u> HACH |

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

| | |
|---|--|
| Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>(Middleburg)</u> <u>Electric Submersible</u> <u>Extraction Pump</u> Other: _____ | Sampling Method: <u>Bailer</u> <u>(Disposable Bailer)</u> <u>Extraction Port</u> Other: _____ |
|---|--|

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>3.1</u> | X | <u>3</u> | = | <u>9.3</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>(LS)</u>) | Gals. Removed | Observations |
|------|-----------|-----|-----------------------------------|---------------|--------------|
| 1512 | 68.7 | 7.6 | 723 | 3 | cloudy gray |
| 1516 | 66.2 | 7.3 | 726 | 6 | " |
| 1520 | 65.8 | 7.2 | 721 | 9 | clear |
| | | | | | |
| | | | | | |

| | | |
|--|---|-----------------------------|
| Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/> | Gallons actually evacuated: <u>9</u> | |
| Sampling Time: <u>1525</u> | Sampling Date: <u>10/07/02</u> | |
| Sample I.D.: <u>MW-2</u> | Laboratory: Pace <u>(Sequoia)</u> Other _____ | |
| Analyzed for: <u>(TPH-G BTEX)</u> MTBE TPH-D Other: <u>ORGANATES, ETHANOL, 1,2-DCA + ENB</u> | | |
| D.O. (if req'd): | Pre-purge: _____ mg/L | Post-purge: <u>1.5</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV | Post-purge: _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALLEN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-3</u> | Well Diameter: <u>2</u> 3 4 6 8 <u> </u> |
| Total Well Depth: <u>39.08</u> | Depth to Water: <u>20.20</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

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

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>3.0</u> | X | <u>3</u> | = | <u>9.0</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|-----------------------|-----------|-----|---------------------------------|---------------|--------------|
| 1258 | 69.0 | 7.9 | 696 | 3 | cloudy gray |
| 1302 | 67.0 | 7.4 | 700 | 6 | clear |
| 1306 | 67.4 | 7.5 | 700 | 9 | " |
| 1 | | | | | |
| Note: Reaction to HCL | | | | | |

| | | |
|--|---|-----------------------------|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>9</u> | |
| Sampling Time: <u>1310</u> | Sampling Date: <u>10/07/02</u> | |
| Sample I.D.: <u>MW-3</u> | Laboratory: Pace <u>Sequoia</u> Other _____ | |
| Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>ORGANATES, ETHANOL, 1,2-DCA + EDS</u> | | |
| D.O. (if req'd): | Pre-purge: _____ mg/L | Post-purge: <u>1.2</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV | Post-purge: _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| BTS #: 021007-BA1 | Station # 6113 |
| Sampler: BRIAN ALLEN | Date: 10/07/02 |
| Well I.D.: MW-4 | Well Diameter: 2 3 <u>4</u> 6 8 |
| Total Well Depth: 26.73 | Depth to Water: 20.76 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

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

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| 3.9 | X | 3 | = | 11.7 | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or µS) | Gals. Removed | Observations |
|--|-----------|-----|-------------------------|---------------|-----------------|
| 1404 | 71.0 | 7.5 | 731 | 4 | clear mild odor |
| 1405 | 69.6 | 6.9 | 734 | 8 | " |
| 1406 | 69.1 | 6.8 | 737 | 12 | " |
| Note: Beganto Dewater at end of 3rd volume | | | | | |

| | |
|--|---|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: 12 |
| Sampling Time: 1410 | Sampling Date: 10/07/02 |
| Sample I.D.: MW-4 | Laboratory: Pace <u>Sequoia</u> Other _____ |
| Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>ORGANATES, ETHANOL, 1,2-DCA + EDB</u> | |
| D.O. (if req'd): | Pre-purge: _____ mg/L |
| | Post-purge: <u>1.0</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV |
| | Post-purge: _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALLORN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-6</u> | Well Diameter: 2 3 <u>4</u> 6 8 _____ |
| Total Well Depth: <u>66.78</u> | Depth to Water: <u>20.05</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>30.4</u> | x | <u>3</u> | = | <u>91.2</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|------|-----------|-----|---------------------------------|---------------|-----------------|
| 1721 | 70.6 | 7.5 | 716 | 30.5 | clear mild odor |
| 1727 | 67.9 | 7.1 | 739 | 61 | " |
| 1733 | 67.2 | 7.1 | 740 | 91.5 | " |
| | | | | | |
| | | | | | |

Did well dewater? Yes No Gallons actually evacuated: 92

Sampling Time: 1740 Sampling Date: 10/07/02

Sample I.D.: MW-6 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: ORGANATES, ETHANOL, 1,2-DCA + EDS

| | | | | | |
|--------------------|------------|------|-------------|------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | <u>2.8</u> | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | | mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|------------------------------------|---|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALLEN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-7</u> | Well Diameter: 2 3 <u>4</u> 6 8 <u> </u> |
| Total Well Depth: <u>67.49</u> | Depth to Water: <u>20.04</u> |
| Depth to Free Product: <u> </u> | Thickness of Free Product (feet): <u> </u> |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

| | |
|---|--|
| Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Middleburg</u> <u>Electric Submersible</u> <u>Extraction Pump</u> Other: <u> </u> | Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Extraction Port</u> Other: <u> </u> |
|---|--|

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>30.8</u> | X | <u>3</u> | = | <u>92.4</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|--------------------------------|-------------|------------|---------------------------------|---------------|--------------|
| <u>1754</u> 1754 | <u>68.1</u> | <u>7.6</u> | <u>657</u> | <u>31</u> | <u>clear</u> |
| <u>1700</u> | <u>66.4</u> | <u>7.2</u> | <u>653</u> | <u>62</u> | <u>"</u> |
| <u>1806</u> | <u>66.4</u> | <u>7.1</u> | <u>654</u> | <u>93</u> | <u>"</u> |
| | | | | | |
| | | | | | |

| | | |
|---|---|------------------------------|
| Did well dewater? Yes <input type="radio"/> <u>No</u> <input checked="" type="radio"/> | Gallons actually evacuated: <u>93</u> | |
| Sampling Time: <u>1810</u> | Sampling Date: <u>10/07/02</u> | |
| Sample I.D.: <u>MW-7</u> | Laboratory: Pace <u>Sequoia</u> Other <u> </u> | |
| Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> Other: <u>ORGANATES, ETHANOL, 1,2-DCA + EDB</u> | | |
| D.O. (if req'd): | Pre-purge: <u> </u> mg/L | Post-purges: <u>4.8</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: <u> </u> mV | Post-purge: <u> </u> mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALCOEN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-8</u> | Well Diameter: 2 3 <u>4</u> 6 8 |
| Total Well Depth: <u>66.57</u> | Depth to Water: <u>18.43</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

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

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>31.3</u> | X | <u>3</u> | = | <u>93.9</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|------|-----------|-----|---------------------------------|---------------|--------------|
| 1330 | 68.4 | 7.9 | 631 | 31.5 | clear |
| 1336 | 66.4 | 7.2 | 626 | 63 | " |
| 1342 | 67.0 | 7.1 | 627 | 94.5 | " |
| | | | | | |
| | | | | | |

| | | |
|--|---|-----------------------------|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>94.5</u> | |
| Sampling Time: <u>1350</u> | Sampling Date: <u>10/07/02</u> | |
| Sample I.D.: <u>MW-8</u> | Laboratory: Pace <u>Sequoia</u> Other _____ | |
| Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>ORGANATES, ETHANOL, 1,2-DCA + EDB</u> | | |
| D.O. (if req'd): | Pre-purge: _____ mg/L | Post-purge: <u>4.2</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV | Post-purge: _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|------------------------------------|---|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALLEN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-9</u> | Well Diameter: 2 3 <u>4</u> 6 8 <u> </u> |
| Total Well Depth: <u>67.82</u> | Depth to Water: <u>18.85</u> |
| Depth to Free Product: <u> </u> | Thickness of Free Product (feet): <u> </u> |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

| | |
|---|--|
| Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Middleburg</u> <u>Electric Submersible</u> <u>Extraction Pump</u> Other: <u> </u> | Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Extraction Port</u> Other: <u> </u> |
|---|--|

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>31.9</u> | X | <u>3</u> | = | <u>95.4</u> | Gals. |
| 1 Case Volume (Gala.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|------|-----------|-----|---------------------------------|---------------|--------------|
| 1647 | 68.5 | 8.2 | 611 | 32 | clear |
| 1653 | 66.6 | 7.4 | 606 | 64 | " |
| 1659 | 65.9 | 7.1 | 604 | 96 | " |
| | | | | | |
| | | | | | |

| | |
|---|---|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>96</u> |
| Sampling Time: <u>1705</u> | Sampling Date: <u>10/07/02</u> |
| Sample I.D.: <u>MW-9</u> | Laboratory: Pace <u>Sequoia</u> Other <u> </u> |
| Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> Other: <u>ORGANATES, ETHANOL, 1,2-DCA + ENB</u> | |
| D.O. (if req'd): | Pre-purge: <u> </u> mg/L |
| | Post-purge: <u>2.6</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: <u> </u> mV |
| | Post-purge: <u> </u> mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|---|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALLEN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-10</u> | Well Diameter: 2 3 4 6 8 <u> </u> |
| Total Well Depth: <u>49.81</u> | Depth to Water: <u>21.15</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: PVC Grade | D.O. Meter (if req'd): YSI HACH |

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

| | |
|---|--|
| Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Middleburg</u> <u>Electric Submersible</u> <u>Extraction Pump</u> Other: <u> </u> | Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Extraction Port</u> Other: <u> </u> |
|---|--|

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>18.6</u> | X | <u>3</u> | = | <u>55.8</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or µS) | Gals. Removed | Observations |
|-------------|-------------|------------|---------------------------------|---------------|--------------------------|
| <u>1137</u> | <u>68.2</u> | <u>7.2</u> | <u>599</u> | <u>18.5</u> | <u>very cloudy brown</u> |
| <u>1140</u> | <u>66.9</u> | <u>7.0</u> | <u>592</u> | <u>37</u> | <u>cloudy brown</u> |
| <u>1143</u> | <u>66.9</u> | <u>7.1</u> | <u>592</u> | <u>55.5</u> | <u>cloudy brown</u> |
| | | | | | |
| | | | | | |

| | |
|--|---|
| Did well dewater? Yes No | Gallons actually evacuated: <u>56</u> |
| Sampling Time: <u>1150</u> | Sampling Date: <u>10/07/02</u> |
| Sample I.D.: <u>MW-10</u> | Laboratory: Pace Sequoia Other <u> </u> |
| Analyzed for: TPH-G BTEX MTBE TPH-D | Other: <u>ORGANATES, ETHANOL, 1,2-DCA + ELS</u> |

| | | |
|--------------------|---|--|
| D.O. (if req'd): | Pre-purge: <u> </u> mg/L | Post-purge: 3.0 mg/L |
| O.R.P. (if req'd): | Pre-purge: <u> </u> mV | Post-purge: <u> </u> mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALLEN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-11</u> | Well Diameter: <u>2</u> .3 4 6 8 _____ |
| Total Well Depth: <u>44.36</u> | Depth to Water: <u>20.79</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

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

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>3.8</u> | x | <u>3</u> | = | <u>11.4</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|-------------|-------------|------------|---------------------------------|---------------|--------------------------------|
| <u>0915</u> | <u>67.8</u> | <u>5.7</u> | <u>667</u> | <u>3.75</u> | <u>very cloudy brown silty</u> |
| <u>0920</u> | <u>68.1</u> | <u>6.5</u> | <u>687</u> | <u>7.5</u> | <u>"</u> |
| <u>0928</u> | <u>69.0</u> | <u>6.7</u> | <u>685</u> | <u>11.25</u> | <u>"</u> |
| | | | | | |
| | | | | | |

| | | |
|--|---|-----------------------------|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>11</u> | |
| Sampling Time: <u>0935</u> | Sampling Date: <u>10/07/02</u> | |
| Sample I.D.: <u>MW-11</u> | Laboratory: Pace <u>Sequoia</u> Other _____ | |
| Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>ORGANICATES, ETHANOL, 1,2-DCA + EDS</u> | | |
| D.O. (if req'd): | Pre-purge: _____ mg/L | Post-purge: <u>1.4</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV | Post-purge: _____ mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|------------------------------------|---|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALLEN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-12</u> | Well Diameter: 2 3 4 6 8 <u> </u> |
| Total Well Depth: <u> </u> | Depth to Water: <u> </u> |
| Depth to Free Product: <u> </u> | Thickness of Free Product (feet): <u> </u> |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

| | |
|---|---|
| Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: <u> </u> | Sampling Method: Bailer <u>Disposable Bailer</u> Extraction Port Other: <u> </u> |
|---|---|

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>0</u> | x | <u>3</u> | = | <u>0</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or µS) | Gals. Removed | Observations |
|------------------------------|-----------|----|-------------------------|---------------|--------------|
| <u>UNABLE TO LOCATE WELL</u> | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | |
|---|---|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>0</u> |
| Sampling Time: <u> </u> | Sampling Date: <u>10/07/02</u> |
| Sample I.D.: <u>MW-12</u> | Laboratory: Pace <u>Sequoia</u> Other <u> </u> |
| Analyzed for: <u>TPH-G BTEX</u> MIBE TPH-D Other: <u>ORGANICS, ETHANOL, 1,2-DCA + EDB</u> | |
| D.O. (if req'd): | Pre-purge: <u> </u> mg/L |
| | Post-purge: <u> </u> mg/L |
| O.R.P. (if req'd): | Pre-purge: <u> </u> mV |
| | Post-purge: <u> </u> mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|---|
| BTS #: <u>021007-BA1</u> | Station # <u>6113</u> |
| Sampler: <u>BRIAN ALLORN</u> | Date: <u>10/07/02</u> |
| Well I.D.: <u>MW-13</u> | Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u> |
| Total Well Depth: <u>30.34</u> | Depth to Water: <u>20.12</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

| | |
|--------------------------------------|------------------------------------|
| Purge Method: <u>Bailer</u> | Sampling Method: <u>Bailer</u> |
| <u>Disposable Bailer</u> | <u>Disposable Bailer</u> |
| <u>Middleburg</u> | Extraction Port |
| Electric Submersible Extraction Pump | Other: <u> </u> |
| Other: <u> </u> | |

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>1.6</u> | X | <u>3</u> | = | <u>4.8</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|-------------|-------------|------------|---------------------------------|---------------|-------------------------|
| <u>1823</u> | <u>71.6</u> | <u>7.1</u> | <u>1041</u> | <u>1.5</u> | <u>cloudy gray odor</u> |
| <u>1825</u> | <u>70.4</u> | <u>6.7</u> | <u>1050</u> | <u>3</u> | <u>"</u> |
| <u>1827</u> | <u>69.8</u> | <u>6.8</u> | <u>1066</u> | <u>4.5</u> | <u>"</u> |
| | | | | | |
| | | | | | |

| | | |
|--|---|-----------------------------|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>5</u> | |
| Sampling Time: <u>1835</u> | Sampling Date: <u>10/07/02</u> | |
| Sample I.D.: <u>MW-13</u> | Laboratory: Pace <u>Sequoia</u> Other <u> </u> | |
| Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>OSBATES, ETHANOL, 1,2-DCA + EUS</u> | | |
| D.O. (if req'd): | Pre-purge: <u> </u> mg/L | Post-purge: <u>0.8</u> mg/L |
| O.R.P. (if req'd): | Pre-purge: <u> </u> mV | Post-purge: <u> </u> mV |

ARCO / BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| BTS #: 021007-BA1 | Station # 6113 |
| Sampler: BRIAN ALLEN | Date: 10/07/02 |
| Well I.D.: VW-1 | Well Diameter: 2 3 <u>4</u> 6 8 |
| Total Well Depth: 44.32 | Depth to Water: 19.20 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): <u>YSI</u> HACH |

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

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>16.3</u> | X | <u>3</u> | = | <u>48.9</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Conductivity (mS or <u>µS</u>) | Gals. Removed | Observations |
|------|-----------|-----|---------------------------------|---------------|--------------|
| 1431 | 69.5 | 7.8 | 674 | 16.5 | cloudy grey |
| 1434 | 68.5 | 7.3 | 664 | 33 | " |
| 1437 | 68.1 | 7.2 | 672 | 49.5 | " |
| | | | | | |
| | | | | | |

| | |
|---|--|
| Did well dewater? Yes <u>No</u> | Gallons actually evacuated: <u>50</u> |
| Sampling Time: 1445 | Sampling Date: 10/07/02 |
| Sample I.D.: VW-1 | Laboratory: Pace <u>Sequoia</u> Other _____ |
| Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>ORGANICS, ETHANOL, 1,2-DCA + ENB</u> | |
| D.O. (if req'd): | Pre-purge: _____ mg/L <u>Post-purge</u> : 1.7 mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV <u>Post-purge</u> : _____ mV |



Chain of Custody Record

Project Name _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____

Date: 10/07/02

Requested Due Date (mm/dd/yy) Standard

| | |
|------------------------|------------|
| On-site Time: | Temp: |
| Off-site Time: | Temp: |
| Sky Conditions: | |
| Meteorological Events: | |
| Wind Speed: | Direction: |

| | | |
|--|---|---|
| Client Name: SEQUOIA | BP/GEM Facility No.: | Consultant/Contractor: URS |
| Client Address: 885 Jarvis Dr. Morgan Hill, CA 95037 | BP/GEM Facility Address: 785 E. Stanley Blvd, LIVERMORE, CA | Address: 500 12th St, Ste. 200 Oakland, CA 94609-4014 |
| Client PM: Latonya Pelt | Site ID No. ARCO 6113 | e-mail EDD: syed_rehan@urscorp.com |
| Client Tel/Fax: 408-778-9600 / 408-782-6308 | Site Lat/Long: | Consultant/Contractor Project No.: J5-00006113.01 00427 |
| Report Type & QC Level: Send EDF Reports | California Global ID #: T0600100111 | Consultant Tele/Fax: 510-874-1735/510-874-3268 |
| BP/GEM Account No.: | BP/GEM PM Contact: PAUL SUPPLE | Consultant/Contractor PM: Scott Robinson |
| | Address: | Invoice to: Consultant/Contractor or <u>BP/GEM</u> (circle one) |
| | Tele/Fax: | BP/GEM Work Release No: INTRIM-50739 |

| Sample No. | Sample Description | Time | Matrix | | | | Laboratory No. | No. of containers | Preservatives | | | | Requested Analysis | | | | | Sample Point Lat/Long and Comments |
|------------|--------------------|------|------------|--------------|-----------|-----|----------------|-------------------|---------------|--------------------------------|------------------|-----|------------------------|--------------|-------------|------------------------------------|----------------------|------------------------------------|
| | | | Soil/Solid | Water/Liquid | Sediments | Air | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | TPH-G/BTEX (8015/8021) | TPH-D (8015) | MTBE (8021) | MTBE, TAME, ETBE, DIPE, TBA (8260) | 1,2-DCA & EDB (8260) | |
| 1 | MW-1 | 1235 | | X | | | 6 | | | | | X | | X | X | X | | |
| 2 | MW-2 | 1525 | | X | | | 6 | | | | | X | | X | X | X | | |
| 3 | MW-3 | 1310 | | X | | | 6 | | | | | X | | X | X | X | | |
| 4 | MW-4 | 1410 | | X | | | 6 | | | | | X | | X | X | X | | |
| 5 | MW-6 | 1740 | | X | | | 6 | | | | | X | | X | X | X | | |
| 6 | MW-7 | 1814 | | X | | | 6 | | | | | X | | X | X | X | | |
| 7 | MW-8 | 1350 | | X | | | 6 | | | | | X | | X | X | X | | |
| 8 | MW-9 | 1705 | | X | | | 6 | | | | | X | | X | X | X | | |
| 9 | MW-10 | 1150 | | X | | | 6 | | | | | X | | X | X | X | | |
| 10 | MW-11 | 0935 | | X | | | 6 | | | | | X | | X | X | X | | |

| | | | | | | |
|--|---|--|-------|----------------------------|-------|-------|
| Sampler's Name: <u>BRIAN ALCOZA</u> | Relinquished By / Affiliation: <u>[Signature]</u> | Date: | Time: | Accepted By / Affiliation: | Date: | Time: |
| Sampler's Company: <u>BLAIR TECH SERVICES</u> | | | | | | |
| Shipment Date: | | | | | | |
| Shipment Method: | | | | | | |
| Shipment Tracking No: | | | | | | |
| Special Instructions: Address Invoice to BP/GEM but send to URS for approval | | CORRELATES = MTBE, TBA, DIPE, ETBE, TAME | | | | |

Custody Seals in Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt °F/C Trip Blank Yes No



Chain of Custody Record

Project Name _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____

| | |
|------------------------|------------|
| On-site Time: | Temp: |
| Off-site Time: | Temp: |
| Sky Conditions: | |
| Meteorological Events: | |
| Wind Speed: | Direction: |

Date: 10/07/02 Requested Due Date (mm/dd/yy) Standard

| | | |
|--|--|--|
| ID To: Name: SEQUOIA Address: 885 Jarvis Dr. Morgan Hill, CA 95037 PM: Latonya Pelt Phone/Fax: 408-776-9600 / 408-782-6308 Report Type & QC Level: Send EDF Reports BP/GEM Account No.: | BP/GEM Facility No.: BP/GEM Facility Address: 785 E. Stanley Blvd, LIVERMORE, CA Site ID No. ARCO 6113 Site Lat/Long: California Global ID #: T0600100111 BP/GEM PM Contact: PAUL SUPPLE Address: Tele/Fax: | Consultant/Contractor: URS Address: 500 12th St., Ste. 200 Oakland, CA 94609-4014 e-mail EDD: syed_rehan@urscorp.com Consultant/Contractor Project No.: J5-00006113.01 00427 Consultant Tele/Fax: 510-874-1735/510-874-3268 Consultant/Contractor PM: Scott Robinson Invoice to: Consultant/Contractor or (BP/GEM) (circle one) BP/GEM Work Release No: INTRIM-50739 |
|--|--|--|

| Bottle Order No. | Sample Description | Time | Matrix | | | | Laboratory No. | No. of containers | Preservatives | | | | Requested Analysis | | | | | | Sample Point Lat/Long and Comments | | |
|------------------|--------------------|------|------------|--------------|-----------|-----|----------------|-------------------|---------------|--------------------------------|------------------|-----|---------------------------|--------------|-------------|--------------------------------------|----------------------|------|------------------------------------|--|--|
| | | | Soil/Solid | Water/Liquid | Sediments | Air | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | TPH-G / BTX (8015 / 8021) | TPH-D (8015) | MTBE (8021) | MTBE, TAME, ETBE DIPE, TBA (8260) | 1,2-DCA & RDB (8260) | EMPA | | | |
| 1 | MW-13 | 1835 | | X | | | 8 | | | | | | X | | | X | X | | | | |
| 2 | VW-1 | 1445 | | X | | | 6 | | | | | | X | | | X | X | X | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|--------------------------------------|-------------|-------------|----------------------------------|-------------|-------------|
| Supplier's Name: <u>BLUW ACCORD</u> | Relinquished By / Affiliation: _____ | Date: _____ | Time: _____ | Accepted By / Affiliation: _____ | Date: _____ | Time: _____ |
| Supplier's Company: <u>BLUW TECH SERVICES</u> | Signature: _____ | | | | | |
| Shipment Date: _____ | | | | | | |
| Shipment Method: _____ | | | | | | |
| Shipment Tracking No: _____ | | | | | | |

Special Instructions: Address Invoice to BP/GEM but send to URS for approval OXYGENATES = MTBE, TBA, DIPE, ETBE, TAME

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

WELLHEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client Arco Inspection Date 10/7/02

Site Address 785 E. STANLEY BLVD Inspected By BRIAN ALLORN

| | | | |
|------------------------|-------------------------------------|---|------------------------------|
| 1. Lid on box? | 6. Casing secure? | 12. Water standing in wellbox? | 15. Well cap functional? |
| 2. Lid broken? | 7. Casing cut level? | 12a. Standing above the top of casing? | 16. Can cap be pulled loose? |
| 3. Lid bolts missing? | 8. Debris in wellbox? | 12b. Standing below the top of casing? | 17. Can cap seal out water? |
| 4. Lid bolts stripped? | 9. Wellbox is too far above grade? | 12c. Water even with the top of casing? | 18. Padlock present? |
| 5. Lid seal intact? | 10. Wellbox is too far below grade? | 13. Well cap present? | 19. Padlock functional? |
| | 11. Wellbox is crushed/damaged? | 14. Well cap found secure? | |

Check box if no deficiencies were found. Note below deficiencies you were able to correct.

| Well I.D. | Deficiency | Corrective Action Taken |
|-----------|-------------------|-------------------------|
| MW-11 | Bad Cap / Lock | Replaced 2" / #2357 |
| MW-10 | Bad Cap / Lock | Replaced 4" / #2357 |
| MW-1 | Bad Cap / Lock | Replaced 2" / #2357 |
| MW-3 | Bad Cap / Lock | Replaced 2" / #2357 |
| MW-8 | Bad Cap / No Lock | Replaced 4" / #2357 |
| MW-4 | Bad Cap / Lock | Replaced 4" / #2357 |
| MW-1 | PVC Cap / No Lock | Replaced 4" / #2357 |
| MW-2 | Bad Cap / Lock | Replaced 2" / #2357 |
| MW-9 | Bad Cap / No Lock | Replaced 4" / #2357 |
| MW-4 | Bad Cap / No Lock | Replaced 4" / #2357 |
| MW-7 | Bad Cap / Lock | Replaced 4" / #2357 |
| MW-13 | No Lock | Replaced #2357 |
| | | |
| | | |

Note below all deficiencies that could not be corrected and still need to be corrected.

| Well I.D. | Persisting Deficiency | BTS Office assigns or defers Correction to: | Date assigned | Date corrected |
|-----------|--|---|---------------|----------------|
| MW-11 | Retap/Helicoil | Contact BTS for repairs - | | |
| MW-10 | Retap/Helicoil | | | |
| MW-1 | Retap/Helicoil No Bolts Packed Dirt above casing | | | |
| MW-3 | Retap/Helicoil No Bolts Packed Dirt above casing | | | |
| | | | | |

Continued on back

- MW-8 Retap/Helicoil
- MW-4 Retap/Helicoil
- VW-1 No Bolt
- MW-9 Retap/Helicoil
- MW-2 No Bolts
Retap/Helicoil
- MW-4 Broken Lid ^{10-12"} 8" Enco Wheaton
Missing Bolt
Broken Bolt Tab
- MW-7 Retap/Helicoil
- MW-13 Standing water below casing

STB
 10-12" Enco Wheaton

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

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

| | | |
|--|------|---------------------------------|
| 6113 | | |
| Station # | | |
| 785 E. STANLEY BLVD, LIVERMORE | | |
| Station Address | | |
| Total Gallons Collected From Groundwater Monitoring Wells: | | |
| 540 | | |
| added equip. rinse water | 25 | any other adjustments |
| TOTAL GALS. RECOVERED | 575 | loaded onto BTS vehicle # 14 |
| BTS event # | time | date |
| 021007-BA1 | | 10 / 07 / 02 |
| 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 Group Environmental Management Company have been reviewed and verified by that laboratory.



**Sequoia
Analytical**

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

31 October, 2002

Scott Robinson
URS Corporation
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #6113, Livermore, CA
Sequoia Report: MLJ0382

Enclosed are the results of analyses for samples received by the laboratory on 10/08/02 17:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate #1210



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #6113, Livermore, CA
Project Number: ARCO #6113, Livermore, CA
Project Manager: Scott Robinson

Reported:
10/31/02 07:23

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| MW-1 | MLJ0382-01 | Water | 10/07/02 12:35 | 10/08/02 17:08 |
| MW-2 | MLJ0382-02 | Water | 10/07/02 15:25 | 10/08/02 17:08 |
| MW-3 | MLJ0382-03 | Water | 10/07/02 13:10 | 10/08/02 17:08 |
| MW-4 | MLJ0382-04 | Water | 10/07/02 14:10 | 10/08/02 17:08 |
| MW-6 | MLJ0382-05 | Water | 10/07/02 17:40 | 10/08/02 17:08 |
| MW-7 | MLJ0382-06 | Water | 10/07/02 18:10 | 10/08/02 17:08 |
| MW-8 | MLJ0382-07 | Water | 10/07/02 13:50 | 10/08/02 17:08 |
| MW-9 | MLJ0382-08 | Water | 10/07/02 17:05 | 10/08/02 17:08 |
| MW-10 | MLJ0382-09 | Water | 10/07/02 11:50 | 10/08/02 17:08 |
| MW-11 | MLJ0382-10 | Water | 10/07/02 09:35 | 10/08/02 17:08 |
| MW-13 | MLJ0382-11 | Water | 10/07/02 18:35 | 10/08/02 17:08 |
| VW-1 | MLJ0382-12 | Water | 10/07/02 14:45 | 10/08/02 17:08 |

Sequoia Analytical - Morgan Hill

Latonya Pelt, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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URS Corporation
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Oakland CA, 94607

Project: ARCO #6113, Livermore, CA
Project Number: ARCO #6113, Livermore, CA
Project Manager: Scott Robinson

Reported:
10/31/02 07:23

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B
Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|-------------|-----------------|--------|----------|---------|----------|----------|------------------|-------|
| MW-1 (MLJ0382-01) Water Sampled: 10/07/02 12:35 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 104 % | 55-142 | | " | " | " | " | |
| MW-2 (MLJ0382-02) Water Sampled: 10/07/02 15:25 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 70.6 % | 55-142 | | " | " | " | " | |
| MW-3 (MLJ0382-03) Water Sampled: 10/07/02 13:10 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 90.0 % | 55-142 | | " | " | " | " | |
| MW-4 (MLJ0382-04) Water Sampled: 10/07/02 14:10 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 96 | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 B | HC-12 |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | 0.54 | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 91.0 % | 55-142 | | " | " | " | " | |

Sequoia Analytical - Morgan Hill

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Project: ARCO #6113, Livermore, CA
Project Number: ARCO #6113, Livermore, CA
Project Manager: Scott Robinson

Reported:
10/31/02 07:23

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B
Sequoia Analytical - Morgan Hill**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|---------|----------|----------|-------------|-------|
| MW-6 (MLJ0382-05) Water Sampled: 10/07/02 17:40 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 60 | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 | HC-12 |
| | | | | | | | | B | |
| Benzene | 13 | 0.50 | " | " | " | " | " | " | |
| Toluene | 1.7 | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | 1.7 | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | 3.5 | 0.50 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 97.3 % | 55-142 | | " | " | " | " | |
| MW-7 (MLJ0382-06) Water Sampled: 10/07/02 18:10 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 | |
| | | | | | | | | B | |
| Benzene | 1.2 | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | 0.77 | 0.50 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 87.6 % | 55-142 | | " | " | " | " | |
| MW-8 (MLJ0382-07) Water Sampled: 10/07/02 13:50 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 | |
| | | | | | | | | B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | 0.86 | 0.50 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 85.2 % | 55-142 | | " | " | " | " | |
| MW-9 (MLJ0382-08) Water Sampled: 10/07/02 17:05 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 | |
| | | | | | | | | B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 85.2 % | 55-142 | | " | " | " | " | |



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Project Number: ARCO #6113, Livermore, CA
Project Manager: Scott Robinson

Reported:
10/31/02 07:23

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B

Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|-------|----------|---------|----------|----------|------------------|-------|
| MW-10 (MLJ0382-09) Water Sampled: 10/07/02 11:50 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 103 % | | 55-142 | " | " | " | " | |
| MW-11 (MLJ0382-10) Water Sampled: 10/07/02 09:35 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | 1 | 2J18001 | 10/18/02 | 10/18/02 | 8015Bm/8021 B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 87.6 % | | 55-142 | " | " | " | " | |
| MW-13 (MLJ0382-11) Water Sampled: 10/07/02 18:35 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 14000 | 5000 | ug/l | 100 | 2J18002 | 10/18/02 | 10/18/02 | 8015Bm/8021 B | HC-21 |
| Benzene | 510 | 50 | " | " | " | " | " | " | |
| Toluene | ND | 50 | " | " | " | " | " | " | |
| Ethylbenzene | 2200 | 50 | " | " | " | " | " | " | |
| Xylenes (total) | 2300 | 50 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 105 % | | 55-142 | " | " | " | " | |
| VW-1 (MLJ0382-12) Water Sampled: 10/07/02 14:45 Received: 10/08/02 17:08 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 410 | 100 | ug/l | 2 | 2J18002 | 10/18/02 | 10/18/02 | 8015Bm/8021 B | HC-21 |
| Benzene | 25 | 1.0 | " | " | " | " | " | " | |
| Toluene | 2.2 | 1.0 | " | " | " | " | " | " | |
| Ethylbenzene | 8.0 | 1.0 | " | " | " | " | " | " | |
| Xylenes (total) | 4.3 | 1.0 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 123 % | | 55-142 | " | " | " | " | |



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Project: ARCO #6113, Livermore, CA
 Project Number: ARCO #6113, Livermore, CA
 Project Manager: Scott Robinson

Reported:
 10/31/02 07:23

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| MW-1 (MLJ0382-01) Water Sampled: 10/07/02 12:35 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 40 | ug/l | 1 | 2J20009 | 10/20/02 | 10/20/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| tert-Amyl methyl ether | ND | 0.50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethylene dibromide | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 102 % | 78-129 | " | " | " | " | " | |
| MW-2 (MLJ0382-02) Water Sampled: 10/07/02 15:25 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 40 | ug/l | 1 | 2J20009 | 10/20/02 | 10/20/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| tert-Amyl methyl ether | ND | 0.50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethylene dibromide | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 102 % | 78-129 | " | " | " | " | " | |
| MW-3 (MLJ0382-03) Water Sampled: 10/07/02 13:10 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 40 | ug/l | 1 | 2J20009 | 10/20/02 | 10/20/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| tert-Amyl methyl ether | ND | 0.50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethylene dibromide | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 96.6 % | 78-129 | " | " | " | " | " | |



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Project Manager: Scott Robinson

Reported:
10/31/02 07:23

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|------------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| MW-4 (MLJ0382-04) Water Sampled: 10/07/02 14:10 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 400 | ug/l | 10 | 2J21018 | 10/21/02 | 10/21/02 | EPA 8260B | O-10 |
| tert-Butyl alcohol | ND | 200 | " | " | " | " | " | " | " |
| Methyl tert-butyl ether | 260 | 5.0 | " | " | " | " | " | " | " |
| Di-isopropyl ether | ND | 5.0 | " | " | " | " | " | " | " |
| Ethyl tert-butyl ether | ND | 5.0 | " | " | " | " | " | " | " |
| tert-Amyl methyl ether | ND | 5.0 | " | " | " | " | " | " | " |
| 1,2-Dichloroethane | ND | 5.0 | " | " | " | " | " | " | " |
| Ethylene dibromide | ND | 5.0 | " | " | " | " | " | " | " |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 102 % | 78-129 | " | " | " | " | " | " |
| MW-6 (MLJ0382-05) Water Sampled: 10/07/02 17:40 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 40 | ug/l | 1 | 2J20009 | 10/20/02 | 10/20/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | 8.0 | 0.50 | " | " | " | " | " | " | " |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | " |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | " |
| tert-Amyl methyl ether | ND | 0.50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | " |
| Ethylene dibromide | ND | 0.50 | " | " | " | " | " | " | " |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 100 % | 78-129 | " | " | " | " | " | " |
| MW-7 (MLJ0382-06) Water Sampled: 10/07/02 18:10 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 40 | ug/l | 1 | 2J20009 | 10/20/02 | 10/20/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | 41 | 0.50 | " | " | " | " | " | " | " |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | " |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | " |
| tert-Amyl methyl ether | ND | 0.50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | " |
| Ethylene dibromide | ND | 0.50 | " | " | " | " | " | " | " |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 105 % | 78-129 | " | " | " | " | " | " |



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Reported:
 10/31/02 07:23

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| MW-8 (MLJ0382-07) Water Sampled: 10/07/02 13:50 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 40 | ug/l | 1 | 2120009 | 10/20/02 | 10/21/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| tert-Amyl methyl ether | ND | 0.50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethylene dibromide | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 97.4 % | 78-129 | | " | " | " | " | |
| MW-9 (MLJ0382-08) Water Sampled: 10/07/02 17:05 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 40 | ug/l | 1 | 2120009 | 10/20/02 | 10/21/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| tert-Amyl methyl ether | ND | 0.50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethylene dibromide | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 101 % | 78-129 | | " | " | " | " | |
| MW-10 (MLJ0382-09) Water Sampled: 10/07/02 11:50 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 40 | ug/l | 1 | 2120009 | 10/20/02 | 10/21/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| tert-Amyl methyl ether | ND | 0.50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethylene dibromide | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 114 % | 78-129 | | " | " | " | " | |



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 Project Manager: Scott Robinson

Reported:
 10/31/02 07:23

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|-------------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| MW-11 (MLJ0382-10) Water Sampled: 10/07/02 09:35 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 40 | ug/l | 1 | 2J20009 | 10/20/02 | 10/21/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | 1.0 | 0.50 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| tert-Amyl methyl ether | ND | 0.50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethylene dibromide | ND | 0.50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 103 % | 78-129 | | " | " | " | " | |
| MW-13 (MLJ0382-11) Water Sampled: 10/07/02 18:35 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 4000 | ug/l | 100 | 2J20009 | 10/20/02 | 10/21/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 2000 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | 2800 | 50 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 50 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 50 | " | " | " | " | " | " | |
| tert-Amyl methyl ether | ND | 50 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 50 | " | " | " | " | " | " | |
| Ethylene dibromide | ND | 50 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 104 % | 78-129 | | " | " | " | " | |
| VW-1 (MLJ0382-12) Water Sampled: 10/07/02 14:45 Received: 10/08/02 17:08 | | | | | | | | | |
| Ethanol | ND | 80 | ug/l | 2 | 2J20009 | 10/20/02 | 10/21/02 | EPA 8260B | O-09 |
| tert-Butyl alcohol | ND | 40 | " | " | " | " | " | " | O-10 |
| Methyl tert-butyl ether | 88 | 1.0 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 1.0 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 1.0 | " | " | " | " | " | " | |
| tert-Amyl methyl ether | ND | 1.0 | " | " | " | " | " | " | O-09 |
| 1,2-Dichloroethane | ND | 1.0 | " | " | " | " | " | " | |
| Ethylene dibromide | ND | 1.0 | " | " | " | " | " | " | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 100 % | 78-129 | | " | " | " | " | |

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #6113, Livermore, CA
Project Number: ARCO #6113, Livermore, CA
Project Manager: Scott Robinson

Reported:
10/31/02 07:23

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch 2J18001 - EPA 5030B [P/T] | | | | | | | | | | |
| Blank (2J18001-BLK1) Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 10.1 | | " | 10.0 | | 101 | 55-142 | | | |
| LCS (2J18001-BS1) Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Benzene | 10.3 | 0.50 | ug/l | 10.0 | | 103 | 68-140 | | | |
| Toluene | 10.3 | 0.50 | " | 10.0 | | 103 | 76-127 | | | |
| Ethylbenzene | 9.94 | 0.50 | " | 10.0 | | 99.4 | 77-130 | | | |
| Xylenes (total) | 31.9 | 0.50 | " | 30.0 | | 106 | 78-128 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 10.4 | | " | 10.0 | | 104 | 55-142 | | | |
| LCS (2J18001-BS2) Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 188 | 50 | ug/l | 250 | | 75.2 | 62-134 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 8.84 | | " | 10.0 | | 88.4 | 55-142 | | | |
| Matrix Spike (2J18001-MS1) Source: MLJ0382-01 Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 491 | 50 | ug/l | 550 | ND | 89.3 | 62-134 | | | |
| Benzene | 6.09 | 0.50 | " | 6.60 | ND | 92.3 | 68-140 | | | |
| Toluene | 42.5 | 0.50 | " | 39.7 | ND | 107 | 76-127 | | | |
| Ethylbenzene | 9.43 | 0.50 | " | 9.20 | ND | 101 | 77-130 | | | |
| Xylenes (total) | 48.6 | 0.50 | " | 46.1 | ND | 105 | 78-128 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 11.8 | | " | 10.0 | | 118 | 55-142 | | | |
| Matrix Spike Dup (2J18001-MSD1) Source: MLJ0382-01 Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 463 | 50 | ug/l | 550 | ND | 84.2 | 62-134 | 5.87 | 41 | |
| Benzene | 8.27 | 0.50 | " | 6.60 | ND | 125 | 68-140 | 30.4 | 30 | QM-07 |
| Toluene | 38.8 | 0.50 | " | 39.7 | ND | 97.7 | 76-127 | 9.10 | 30 | |
| Ethylbenzene | 8.79 | 0.50 | " | 9.20 | ND | 94.0 | 77-130 | 7.03 | 21 | |
| Xylenes (total) | 47.6 | 0.50 | " | 46.1 | ND | 103 | 78-128 | 2.08 | 21 | |
| Surrogate: a,a,a-Trifluorotoluene | 9.82 | | " | 10.0 | | 98.2 | 55-142 | | | |



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #6113, Livermore, CA
Project Number: ARCO #6113, Livermore, CA
Project Manager: Scott Robinson

Reported:
10/31/02 07:23

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|-------------|---------------|-----------|--------|------|-----------|-------|
| Batch 2J18002 - EPA 5030B [P/T] | | | | | | | | | | |
| Blank (2J18002-BLK1) Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | 10.2 | | " | 10.0 | | 102 | 55-142 | | | |
| LCS (2J18002-BS1) Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Benzene | 10.5 | 0.50 | ug/l | 10.0 | | 105 | 68-140 | | | |
| Toluene | 10.5 | 0.50 | " | 10.0 | | 105 | 76-127 | | | |
| Ethylbenzene | 10.9 | 0.50 | " | 10.0 | | 109 | 77-130 | | | |
| Xylenes (total) | 31.7 | 0.50 | " | 30.0 | | 106 | 78-128 | | | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | 11.1 | | " | 10.0 | | 111 | 55-142 | | | |
| LCS (2J18002-BS2) Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 207 | 50 | ug/l | 250 | | 82.8 | 62-134 | | | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | 10.3 | | " | 10.0 | | 103 | 55-142 | | | |
| Matrix Spike (2J18002-MS1) Source: MLJ0306-04 Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 397 | 50 | ug/l | 550 | ND | 72.2 | 62-134 | | | |
| Benzene | 9.59 | 0.50 | " | 6.60 | ND | 145 | 68-140 | | | QM-07 |
| Toluene | 34.9 | 0.50 | " | 39.7 | ND | 87.9 | 76-127 | | | |
| Ethylbenzene | 8.40 | 0.50 | " | 9.20 | ND | 91.3 | 77-130 | | | |
| Xylenes (total) | 40.5 | 0.50 | " | 46.1 | ND | 87.9 | 78-128 | | | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | 11.2 | | " | 10.0 | | 112 | 55-142 | | | |
| Matrix Spike Dup (2J18002-MSD1) Source: MLJ0306-04 Prepared & Analyzed: 10/18/02 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 431 | 50 | ug/l | 550 | ND | 78.4 | 62-134 | 8.21 | 41 | |
| Benzene | 9.92 | 0.50 | " | 6.60 | ND | 150 | 68-140 | 3.38 | 30 | QM-07 |
| Toluene | 36.3 | 0.50 | " | 39.7 | ND | 91.4 | 76-127 | 3.93 | 30 | |
| Ethylbenzene | 8.65 | 0.50 | " | 9.20 | ND | 94.0 | 77-130 | 2.93 | 21 | |
| Xylenes (total) | 41.8 | 0.50 | " | 46.1 | ND | 90.7 | 78-128 | 3.16 | 21 | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | 9.70 | | " | 10.0 | | 97.0 | 55-142 | | | |

Sequoia Analytical - Morgan Hill

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URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #6113, Livermore, CA
Project Number: ARCO #6113, Livermore, CA
Project Manager: Scott Robinson

Reported:
10/31/02 07:23

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|---|-------------|--------------------|----------|----------------|-------------------------------|----------------|---------------|--------------|-------|
| Batch 2J20009 - EPA 5035 | | | | | | | | | |
| Blank (2J20009-BLK1) | | | | | Prepared & Analyzed: 10/20/02 | | | | |
| Ethanol | ND | 40 | ug/l | | | | | | O-09 |
| tert-Butyl alcohol | ND | 20 | " | | | | | | O-10 |
| Methyl tert-butyl ether | ND | 0.50 | " | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | " | | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | " | | | | | | O-09 |
| 1,2-Dichloroethane | ND | 0.50 | " | | | | | | |
| Ethylene dibromide | ND | 0.50 | " | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>5.17</i> | | <i>"</i> | <i>5.00</i> | | <i>103</i> | <i>78-129</i> | | |
| LCS (2J20009-BS1) | | | | | Prepared & Analyzed: 10/20/02 | | | | |
| Methyl tert-butyl ether | 11.2 | 0.50 | ug/l | 10.0 | | 112 | 63-137 | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>4.86</i> | | <i>"</i> | <i>5.00</i> | | <i>97.2</i> | <i>78-129</i> | | |
| LCS Dup (2J20009-BSD1) | | | | | Prepared & Analyzed: 10/20/02 | | | | |
| Methyl tert-butyl ether | 10.2 | 0.50 | ug/l | 10.0 | | 102 | 63-137 | 9.35 | 13 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>5.09</i> | | <i>"</i> | <i>5.00</i> | | <i>102</i> | <i>78-129</i> | | |
| Batch 2J21018 - EPA 5030B P/T | | | | | | | | | |
| Blank (2J21018-BLK1) | | | | | Prepared & Analyzed: 10/21/02 | | | | |
| Ethanol | ND | 40 | ug/l | | | | | | |
| tert-Butyl alcohol | ND | 20 | " | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | " | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | " | | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | " | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | " | | | | | | |
| Ethylene dibromide | ND | 0.50 | " | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>5.22</i> | | <i>"</i> | <i>5.00</i> | | <i>104</i> | <i>78-129</i> | | |



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #6113, Livermore, CA
Project Number: ARCO #6113, Livermore, CA
Project Manager: Scott Robinson

Reported:
10/31/02 07:23

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|--------------------|-------|----------------|-------------------------------|----------------|--------|--------------|-------|
| Batch 2J21018 - EPA 5030B P/T | | | | | | | | | |
| LCS (2J21018-BS1) | | | | | Prepared & Analyzed: 10/21/02 | | | | |
| Methyl tert-butyl ether | 9.40 | 0.50 | ug/l | 10.0 | | 94.0 | 63-137 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 4.68 | | " | 5.00 | | 93.6 | 78-129 | | |
| LCS Dup (2J21018-BSD1) | | | | | Prepared & Analyzed: 10/21/02 | | | | |
| Methyl tert-butyl ether | 10.1 | 0.50 | ug/l | 10.0 | | 101 | 63-137 | 7.18 | 13 |
| Surrogate: 1,2-Dichloroethane-d4 | 4.80 | | " | 5.00 | | 96.0 | 78-129 | | |



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #6113, Livermore, CA
Project Number: ARCO #6113, Livermore, CA
Project Manager: Scott Robinson

Reported:
10/31/02 07:23

Notes and Definitions

- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- HC-21 Chromatogram Pattern: Gasoline C6-C10
- O-09 The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
- O-10 The result was reported with a possible low bias due to the continuing calibration verification falling outside the acceptance criteria.
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Chain of Custody Record

Project Name _____

BP BU/GEM CO Portfolio: _____

BP Laboratory Contract Number: _____

Date: 10/07/02

Requested Due Date (mm/dd/yy) Standard

MLJ0382

| | |
|------------------------|------------|
| On-site Time: | Temp: |
| Off-site Time: | Temp: |
| Sky Conditions: | |
| Metereological Events: | |
| Wind Speed: | Direction: |

| | | |
|--|---|--|
| Send To: | BP/GEM Facility No.: | Consultant/Contractor: URS |
| Lab Name: SEQUOIA | BP/GEM Facility Address: 785 E. Stanley Blvd. LIVERMORE, CA | Address: 500 12th St., Ste. 200 |
| Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037 | Site ID No. ARCO 8113 | Oakland, CA 94609-4014 |
| | Site Lat/Long: | e-mail EDD: syed_rehan@urscorp.com |
| | California Global ID #: T0600100111 | Consultant/Contractor Project No.: JS-00006113.01 00427 |
| Lab PM: Latorya Pelt | BP/GEM PM Contact: PAUL SUPPLE | Consultant Tele/Fax: 510-874-1735/510-874-3268 |
| Tele/Fax: 408-776-9603 / 408-782-6308 | Address: | Consultant/Contractor PM: Scott Robinson |
| Report Type & QC Level: Send EDF Reports | Tele/Fax: | Invoice to: Consultant/Contractor or (BP/GEM) (circle one) |
| BP/GEM Account No.: | | BP/GEM Work Release No: INTRIM -50739 |

| Item No. | Sample Description | Time | Matrix | | | | Laboratory No. | No. of containers | Preservatives | | | Requested Analysis | | | | | Sample Point Lat/Long and Comments |
|----------|--------------------|------|------------|--------------|-----------|-----|----------------|-------------------|---------------|--------------------------------|------------------|--------------------|------------------------|--------------|-------------|-----------------------------------|------------------------------------|
| | | | Soil/Solid | Water/Liquid | Sediments | Air | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | TPH-G/BTEX (8015/8021) | TPH-D (8015) | MTBE (8021) | MIBK, TAME, ETBE, DPE, TBA (8260) | |
| 1 X | MW-1 | 1235 | | X | | | 01 | 6 | | | | X | X | X | X | | |
| 2 V | MW-2 | 1525 | | X | | | 02 | 6 | | | | X | X | X | X | | |
| 3 X | MW-3 | 1310 | | X | | | 03 | 6 | | | | X | X | X | X | | |
| 4 X | MW-4 | 1410 | | X | | | 04 | 6 | | | | X | X | X | X | | |
| 5 V | MW-6 | 1740 | | X | | | 05 | 6 | | | | X | X | X | X | | |
| 6 V | MW-7 | 1810 | | X | | | 06 | 6 | | | | X | X | X | X | | |
| 7 X | MW-8 | 1350 | | X | | | 07 | 6 | | | | X | X | X | X | | |
| 8 V | MW-9 | 1705 | | X | | | 08 | 6 | | | | X | X | X | X | | |
| 9 X | MW-10 | 1150 | | X | | | 09 | 6 | | | | X | X | X | X | | |
| 10 X | MW-11 | 0935 | | X | | | 10 | 6 | | | | X | X | X | X | | |

| Sampler's Name: | Retinguished Ty / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|
| Brian Allen | | 10/7/02 | 1017 | | 10/7/02 | 1017 |
| Brian Tech Services | | 10/7/02 | 1708 | | 10/7/02 | 1708 |

Equipment Date: _____
 Equipment Method: _____
 Equipment Tracking No: _____
 Instructions: Address Invoice to BP/GEM but send to URS for approval. COMPOUNDS = MTBE, TBA, DPE, ETBE, TAME

Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 0 P/C Trip Blank Yes No

1001



Chain of Custody Record

Project Name _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____

Date: 10/07/02

Requested Due Date (mm/dd/yyyy) Standard MLJ0382

| | |
|--|------------|
| On-site Time: | Temp: |
| Off-site Time: | Temp: |
| Sky Conditions: | |
| Meteorological Events: | |
| Wind Speed: | Direction: |
| Consultant/Contractor: URS | |
| Address: 500 12th St., Ste. 200 Oakland, CA 94609-4014 | |
| e-mail EDD: syed_rehan@urscorp.com | |
| Consultant/Contractor Project No.: JS-00006113.01 00427 | |
| Consultant Tele/Fax: 510-874-1735/510-874-3268 | |
| Consultant/Contractor: PM: Scott Robinson | |
| Invoice to: Consultant/Contractor or (BP/GEM) (circle one) | |
| BP/GEM Work Release No: INTRIM -50739 | |

| | |
|--|---|
| Send To: | BP/GEM Facility No.: |
| Lab Name: SEQUOIA | BP/GEM Facility Address: 785 E. Stanley Blvd, LIVERMORE, CA |
| Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037 | Site ID No. ARCO 6113 |
| | Site Lat/Long: |
| | California Global ID #: T0600100111 |
| Lab PM: Latonya Pelt | BP/GEM PM Contact: PAUL SUPPLE |
| Tele/Fax: 408-778-9800 / 408-782-6308 | Address: |
| Report Type & QC Level: Send EDF Reports | Tele/Fax: |
| BP/GEM Account No.: | |

| Item No. | Sample Description | Time | Matrix | | | | Laboratory No. | No. of containers | Preservatives | | | | Requested Analysis | | | | | | Sample Point Lat/Long and Comments | |
|----------|--------------------|------|------------|--------------|-----------|-----|----------------|-------------------|---------------|--------------------------------|------------------|-----|------------------------|--------------|-------------|-------------------------|------------------|----------------------|------------------------------------|------------|
| | | | Soil/Solid | Water/Liquid | Sediments | Air | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | TPH-G/DTEX (8015/8021) | TPH-D (8015) | MTBE (8021) | MURE, TAMB, ETBE (8021) | DIPH, TBA (8269) | 1,2-DCA & EDR (8760) | | ETAMB, TBA |
| 1 | WAW-3 | 1835 | | X | | | 11 | 3 | | | | | X | | X | X | X | | | |
| 2 | WAW-6 | 1445 | | X | | | 12 | 6 | | | | | X | | X | X | X | | | |
| 3 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|--------------------------------------|-----------------------|--------------------|----------------------------------|----------------------|--------------------|
| Sampler's Name: <u>Brian Alford</u> | Relinquished By / Affiliation: _____ | Date: <u>10/07/02</u> | Time: <u>10:17</u> | Accepted By / Affiliation: _____ | Date: <u>10/8/02</u> | Time: <u>13:09</u> |
| Sampler's Company: <u>BNAWE TECH SERVICES</u> | Signature: _____ | | Signature: _____ | Signature: _____ | | |
| Comment Date: | Signature: _____ | | Signature: _____ | Signature: _____ | | |
| Comment Method: | Signature: _____ | | Signature: _____ | Signature: _____ | | |
| Comment Tracking No: | Signature: _____ | | Signature: _____ | Signature: _____ | | |

Instructions: Address Invoices to BP/GEM but send to URS for approval OXYGENATES = MTBE, TBA, DIPH, ETBE, TAME

Seals in Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt °F/C Trip Blank Yes No

ATTACHMENT C
HISTORIC GROUNDWATER DATA

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

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Well Number | Date Gauged | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater Elevation (ft-MSL) | Date Sampled | TPH | | | | | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|-------------|----------------------------------|-----------------------|--------------------------------|--------------|---|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | | | | |
| MW-1 | 03-23-95 | 457.04 | 14.12 | 442.92 | 03-23-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 05-31-95 | 457.04 | 14.45 | 442.59 | 05-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 08-31-95 | 457.04 | 17.12 | 439.92 | 08-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 11-28-95 | 457.04 | 16.34 | 440.70 | 11-28-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-1 | 02-22-96 | 457.04 | 13.23 | 443.81 | 02-22-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 05-23-96 | 457.04 | 14.02 | 443.02 | 05-23-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 08-08-96 | 457.04 | 16.13 | 440.91 | 08-08-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 11-07-96 | 457.04 | 17.28 | 439.76 | 11-08-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-1 | 03-27-97 | 457.04 | 14.91 | 442.13 | 03-28-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 05-19-97 | 457.04 | 16.47 | 440.57 | 05-19-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 05-18-98 | 457.04 | 14.69 | 442.35 | 05-18-98 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 11-02-98 | 457.04 | 25.94 | 431.10 | 11-02-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-1 | 06-04-99 | 457.04 | 17.38 | 439.66 | 06-04-99 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 11-11-99 | 457.04 | 18.63 | 438.41 | 11-11-99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 1.03 | | P |
| MW-1 | 06-20-00 | 457.04 | 17.09 | 439.95 | 06-20-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 3.1 | | |
| MW-1 | 08-29-00 | 457.04 | 18.20 | 438.84 | 08-29-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 2.66 | | |
| MW-1 | 11-29-00 | 457.04 | 20.30 | 436.74 | 11-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | 1.36 | <2.50 | 0.71 | | P |
| MW-1 | 05-02-01 | 457.04 | 22.39 | 434.65 | 05-02-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 08-15-01 | 457.04 | 24.97 | 432.07 | 08-15-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-1 | 10-05-01 | 457.04 | 25.09 | 431.95 | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 0.78 | | P |
| MW-1 | 01-21-02 | 457.04 | 24.58 | 432.46 | 01-21-02 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 03-23-95 | 457.74 | 14.15 | 443.59 | 03-23-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 05-31-95 | 457.74 | 14.67 | 443.07 | 05-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 08-31-95 | 457.74 | 17.24 | 440.50 | 08-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 11-28-95 | 457.74 | 16.40 | 441.34 | 11-29-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-2 | 02-22-96 | 457.74 | 13.55 | 444.19 | 02-22-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 05-23-96 | 457.74 | 14.29 | 443.45 | 05-23-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 08-08-96 | 457.74 | 16.19 | 441.55 | 08-08-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 11-07-96 | 457.74 | 17.50 | 440.24 | 11-07-96 | 65 | 0.6 | 7.4 | 2.1 | 12 | 5 | | | |
| MW-2 | 03-27-97 | 457.74 | 15.32 | 442.42 | 03-28-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 05-19-97 | 457.74 | 16.62 | 441.12 | 05-19-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 05-18-98 | 457.74 | 15.12 | 442.62 | 05-18-98 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 11-02-98 | 457.74 | 26.66 | 431.08 | 11-02-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-2 | 06-04-99 | 457.74 | 17.74 | 440.00 | 06-04-99 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 11-11-99 | 457.74 | 18.75 | 438.99 | 11-11-99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 0.82 | | P |
| MW-2 | 06-20-00 | 457.74 | 17.21 | 440.53 | 06-20-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 2.6 | | |

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

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Well Number | Date Gauged | Top of Casing | Depth to | Groundwater | | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/Not Purged (P/NP) |
|-------------|-------------|-----------------------|-----------------|-----------------------|-----------------|---|-------------------|-------------------|-------------------------|-------------------------|----------------------|---------------------|----------------------------|-----------------------------|
| | | Elevation (ft-MSL) | Water (feet) | Elevation (ft-MSL) | Date Sampled | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |
| MW-2 | 08-29-00 | 457.74 | 18.25 | 439.49 | 08-29-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 2.65 | | |
| MW-2 | 11-29-00 | 457.74 | 20.69 | 437.05 | 11-29-00 | <50.0 | <0.500 | 0.581 | 0.827 | 4.38 | <2.50 | | 0.88 | P |
| MW-2 | 05-02-01 | 457.74 | 22.69 | 435.05 | 05-02-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 08-15-01 | 457.74 | 25.15 | 432.59 | 08-15-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-2 | 10-05-01 | 457.74 | 25.22 | 432.52 | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | 0.80 | P |
| MW-2 | 01-21-02 | 457.74 | 24.70 | 433.04 | 01-21-02 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 03-23-95 | 456.97 | 14.13 | 442.84 | 03-23-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 05-31-95 | 456.97 | 14.46 | 442.51 | 05-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 08-31-95 | 456.97 | 17.06 | 439.91 | 08-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 11-28-95 | 456.97 | 16.27 | 440.70 | 11-28-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-3 | 02-22-96 | 456.97 | 13.14 | 443.83 | 02-22-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 05-23-96 | 456.97 | 13.95 | 443.02 | 05-23-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 08-08-96 | 456.97 | 16.03 | 440.94 | 08-08-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 11-07-96 | 456.97 | 17.26 | 439.71 | 11-07-96 | <50 | <0.5 | 0.9 | <0.5 | 1.5 | <3 | | | |
| MW-3 | 03-27-97 | 456.97 | 14.85 | 442.12 | 03-28-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 05-19-97 | 456.97 | 16.40 | 440.57 | 05-19-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 05-18-98 | 456.97 | 14.66 | 442.31 | 05-18-98 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 11-02-98 | 456.97 | 25.85 | 431.12 | 11-02-98 | <1,000 | <10 | <10 | <10 | <10 | 1,700 | | | |
| MW-3 | 06-04-99 | 456.97 | 17.35 | 439.62 | 06-04-99 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 11-11-99 | 456.97 | 18.58 | 438.39 | 11-11-99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | | 0.79 | P |
| MW-3 | 06-20-00 | 456.97 | 17.03 | 439.94 | 06-20-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | 2.8 | |
| MW-3 | 08-29-00 | 456.97 | 18.25 | 438.72 | 08-29-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | 3.39 | |
| MW-3 | 11-29-00 | 456.97 | 20.27 | 436.70 | 11-29-00 | <50.0 | <0.500 | <0.500 | 1.08 | 3.34 | <2.50 | | 0.67 | |
| MW-3 | 05-02-01 | 456.97 | 22.33 | 434.64 | 05-02-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 08-15-01 | 456.97 | 25.03 | 431.94 | 08-15-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-3 | 10-05-01 | 456.97 | 25.17 | 431.80 | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | 0.79 | P |
| MW-3 | 01-21-02 | 456.97 | 24.79 | 432.18 | 01-21-02 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |

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

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Well Number | Date Gauged | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater | | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/Not Purged (P/NP) |
|-------------|-------------|----------------------------------|-----------------------|--------------------|--------------|--|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|--------------------------|
| | | | | Elevation (ft-MSL) | Date Sampled | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |
| MW-4 | 03-23-95 | 456.55 | 15.39 | 441.16 | 03-23-95 | 210 | 2.1 | 0.6 | 0.8 | 2.1 | -- | | | |
| MW-4 | 05-31-95 | 456.55 | 15.32 | 441.23 | 05-31-95 | 190 | 1.6 | <0.5 | 0.7 | 0.9 | -- | | | |
| MW-4 | 08-31-95 | 456.55 | 17.86 | 438.69 | 08-31-95 | 160 | 1.2 | 0.7 | <0.5 | <2 | <3 | | | |
| MW-4 | 11-28-95 | 456.55 | 17.18 | 439.37 | 11-29-95 | 150 | 0.7 | <0.5 | 0.7 | 1.4 | <3 | | | |
| MW-4 | 02-22-96 | 456.55 | 14.80 | 441.75 | 02-22-96 | 100 | <0.5 | <0.5 | <0.6 | 0.8 | <3 | | | |
| MW-4 | 05-23-96 | 456.55 | 14.43 | 442.12 | 05-23-96 | 86 | <0.5 | <0.5 | <0.5 | <0.7 | <3 | | | |
| MW-4 | 08-08-96 | 456.55 | 16.80 | 439.75 | 08-08-96 | 98 | <0.5 | <0.5 | <0.5 | 1.3 | <3 | | | |
| MW-4 | 11-07-96 | 456.55 | 17.90 | 438.65 | 11-13-96 | 140 | <0.5 | <0.5 | <0.9 | 1.3 | <3 | | | |
| MW-4 | 03-27-97 | 456.55 | 15.22 | 441.33 | 03-28-97 | <50 | 1.1 | <0.5 | <0.5 | 1.6 | <3 | | | |
| MW-4 | 05-19-97 | 456.55 | 16.98 | 439.57 | 05-19-97 | 62 | <0.5 | <0.5 | <0.5 | 0.6 | <3 | | | |
| MW-4 | 05-18-98 | 456.55 | 14.99 | 441.56 | 05-18-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 64 | | | |
| MW-4 | 11-02-98 | 456.55 | 25.29 | 431.26 | 11-02-98 | 74 | <0.5 | <0.5 | <0.5 | <0.5 | 96 | | | |
| MW-4 | 06-04-99 | 456.55 | 17.95 | 438.60 | 06-04-99 | 100 | <0.5 | <0.5 | <0.5 | <0.5 | 38 | | | P |
| MW-4 | 11-11-99 | 456.55 | 19.25 | 437.30 | 11-11-99 | 88 | <0.5 | <0.5 | <0.5 | <1 | 10 | | 0.77 | P |
| DUP 1 | 06-20-00 | NR | NR | NR | 06-20-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 62.3 | | | |
| MW-4 | 06-20-00 | 456.55 | 17.79 | 438.76 | 06-20-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 82.4 | | 1.3 | P |
| MW-4 | 08-29-00 | 456.55 | 18.90 | 437.65 | 08-29-00 | 56.0 | <0.500 | <0.500 | <0.500 | <0.500 | 47.9 | | 0.97 | P |
| MW-4 | 11-29-00 | 456.55 | 20.50 | 436.05 | 11-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 9.88 | 10.4 | 0.59 | P |
| MW-4 | 05-02-01 | 456.55 | 22.65 | 433.90 | 05-02-01 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 61.1 | 70.9 | 0.74 | P |
| DUP 1 | 05-02-01 | NR | NR | NR | 05-02-01 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 59.4 | 68.4 | | |
| MW-4 | 08-15-01 | NR | NR | NR | 08-15-01 | Not sampled: well dry | | | | | | | | |
| MW-4 | 10-05-01 | NR | NR | NR | 10-05-01 | Not sampled: well dry | | | | | | | | |
| MW-4 | 01-21-02 | NR | NR | NR | 01-21-02 | Not sampled: well dry | | | | | | | | |
| MW-5 | 03-23-95 | 455.84 | 13.97 | 441.87 | 03-23-95 | 68 | 4.2 | 3.4 | 2.3 | 12 | -- | | | |
| MW-5 | 05-31-95 | 455.84 | NR | NR | 05-31-95 | Not sampled: well was inaccessible | | | | | | | | |
| MW-5 | 08-31-95 | 455.84 | NR | NR | 08-31-95 | Not sampled: well was inaccessible | | | | | | | | |
| MW-5 | 11-28-95 | 455.84 | 16.46 | 439.38 | 11-29-95 | 960 | 41 | 24 | 38 | 210 | <5 | | | |
| MW-5 | 02-22-96 | 455.84 | 13.34 | 442.50 | 02-22-96 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-5 | 05-23-96 | 455.84 | 14.36 | 441.48 | 05-23-96 | 7,100 | 440 | 180 | 270 | 1,700 | <50 | | | |
| MW-5 | 08-08-96 | 455.84 | 16.38 | 439.46 | 08-08-96 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-5 | 11-07-96 | 455.84 | 17.26 | 438.58 | 11-13-96 | 5,600 | 230 | 86 | 210 | 1,100 | <80 | | | |

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

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Well Number | Date Gauged | Top of Casing | Depth to | Groundwater | | TPH | | | | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) | |
|-------------|-------------|--------------------|--------------|--------------------|--------------|--|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|--|
| | | Elevation (ft-MSL) | Water (feet) | Elevation (ft-MSL) | Date Sampled | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | | | | | | |
| MW-5 | 03-27-97 | 455.84 | 15.95 | 439.89 | 03-28-97 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | | |
| MW-5 | 05-19-97 | 455.84 | 16.64 | 439.20 | 05-20-97 | 7,600 | 480 | 140 | 400 | 1,200 | <40 | | | | |
| MW-5 | 05-18-98 | 455.84 | 14.75 | 441.09 | 05-18-98 | 990 | 46 | 13 | 45 | 180 | 4 | | | | |
| MW-5 | 11-02-98 | 455.84 | 27.83 | 428.01 | 11-02-98 | 14,000 | 690 | 140 | 550 | 2,200 | 100 | | | | |
| MW-5 | 06-04-99 | 455.84 | 17.47 | 438.37 | 06-04-99 | 8,300 | 690 | 370 | 90 | 440 | 1,400 | | | P | |
| MW-5 | 11-11-99 | 455.84 | 18.80 | 437.04 | 11-11-99 | 18,000 | 900 | 190 | 1,100 | 3,200 | 72 | 0.86 | | P | |
| MW-5 | 06-20-00 | 455.84 | 17.14 | 438.70 | 06-20-00 | 10,200 | 618 | 122 | 832 | 2,020 | <50.0 | 1.6 | | P | |
| MW-5 | 08-29-00 | 455.84 | 18.60 | 437.24 | 08-29-00 | 12,300 | 436 | 166 | 711 | 2,120 | 517 | 0.79 | | P | |
| MW-5 | 11-29-00 | 455.84 | 20.57 | 435.27 | 11-29-00 | 26,000 | 491 | 149 | 1,090 | 3,810 | 671 | <20.0 | 0.51 | P | |
| MW-5 | 05-02-01 | NR | NR | NR | 05-02-01 | Well Abandoned | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| MW-6 | 03-23-95 | 454.93 | 13.38 | 441.55 | 03-23-95 | <50 | 1.5 | <0.5 | <0.5 | 0.9 | -- | | | | |
| MW-6 | 05-31-95 | 454.93 | 13.96 | 440.97 | 05-31-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | | |
| MW-6 | 08-31-95 | 454.93 | 16.71 | 438.22 | 08-31-95 | 150 | 9 | 1.8 | 4 | 12 | <3 | | | | |
| MW-6 | 11-28-95 | 454.93 | 15.65 | 439.28 | 11-29-95 | <50 | 0.6 | <0.5 | <0.5 | 0.8 | <3 | | | | |
| MW-6 | 02-22-96 | 454.93 | 12.53 | 442.40 | 02-22-96 | <50 | 1.9 | <0.5 | 0.8 | 2.1 | <3 | | | | |
| MW-6 | 05-23-96 | 454.93 | 13.24 | 441.69 | 05-23-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-6 | 08-08-96 | 454.93 | 16.65 | 438.28 | 08-08-96 | <50 | 0.5 | <0.5 | <0.5 | 0.5 | <3 | | | | |
| MW-6 | 11-07-96 | 454.93 | 16.65 | 438.28 | 11-08-96 | 110 | 5.3 | 1.3 | 3.1 | 6.6 | <3 | | | | |
| MW-6 | 03-27-97 | 454.93 | 14.25 | 440.68 | 03-28-97 | <50 | 2.3 | <0.5 | 0.9 | 3.5 | 4 | | | | |
| MW-6 | 05-19-97 | 454.93 | 15.87 | 439.06 | 05-20-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-6 | 05-18-98 | 454.93 | 14.00 | 440.93 | 05-18-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-6 | 11-02-98 | 454.93 | 24.95 | 429.98 | 11-02-98 | <50 | 1.2 | <0.5 | <0.5 | <0.5 | 3 | | | | |
| MW-6 | 06-04-99 | 454.93 | 16.68 | 438.25 | 06-04-99 | 310 | 41 | 3.8 | 11 | 19 | 33 | | | P | |
| MW-6 | 11-11-99 | 454.93 | 16.12 | 438.81 | 11-11-99 | <50 | 0.5 | <0.5 | <0.5 | <1 | <3 | 0.92 | | P | |
| MW-6 | 06-20-00 | 454.93 | 16.63 | 438.30 | 06-20-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 17.3 | 1.9 | | P | |
| DUP | 08-29-00 | NR | NR | NR | 08-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | | | |
| MW-6 | 08-29-00 | 454.93 | 17.91 | 437.02 | 08-29-00 | <50.0 | <0.500 | 0.551 | <0.500 | <0.500 | <2.50 | 1.67 | | P | |
| MW-6 | 11-29-00 | 454.93 | 20.30 | 434.63 | 11-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | 1.03 | <2.50 | 0.79 | | P | |
| MW-6 | 05-02-01 | 454.93 | 22.20 | 432.73 | 05-02-01 | 3,230 | 1,300 | 33.6 | 89.4 | 136 | 1,810 | 0.95 | | P | |
| MW-6 | 08-15-01 | 454.93 | 27.95 | 426.98 | 08-15-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 21 | 0.63 | | P | |
| MW-6 | 10-05-01 | 454.93 | 28.05 | 426.88 | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 25 | 0.85 | | P | |
| MW-6 | 01-21-02 | 454.93 | 26.81 | 428.12 | 01-21-02 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | 0.91 | | P | |

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

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Well Number | Date Gauged | Top of Casing | Depth to | Groundwater | | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/Not Purged (P/NP) | |
|-------------|-------------|--------------------|--------------|--------------------|--------------|---|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|--------------------------|--|
| | | Elevation (ft-MSL) | Water (feet) | Elevation (ft-MSL) | Date Sampled | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | | |
| MW-7 | 03-23-95 | 454.92 | 13.29 | 441.63 | 03-23-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | | |
| MW-7 | 05-31-95 | 454.92 | 13.72 | 441.20 | 05-31-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | | |
| MW-7 | 08-31-95 | 454.92 | 16.53 | 438.39 | 08-31-95 | <50 | <0.5 | <0.5 | <0.5 | 1.2 | <3 | | | | |
| MW-7 | 11-28-95 | 454.92 | 15.50 | 439.42 | 11-29-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-7 | 02-22-96 | 454.92 | 12.30 | 442.62 | 02-22-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-7 | 05-23-96 | 454.92 | 13.02 | 441.90 | 05-23-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-7 | 08-08-96 | 454.92 | NR | NR | 08-08-96 | Not sampled: unable to locate well | | | | | | | | | |
| MW-7 | 11-07-96 | 454.92 | 16.50 | 438.42 | 11-08-96 | <50 | <0.5 | <0.5 | <0.5 | 0.8 | <3 | | | | |
| MW-7 | 03-27-97 | 454.92 | 14.22 | 440.70 | 03-28-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-7 | 05-19-97 | 454.92 | 15.74 | 439.18 | 05-20-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-7 | 05-18-98 | 454.92 | 13.82 | 441.10 | 05-18-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-7 | 11-02-98 | 454.92 | 24.80 | 430.12 | 11-02-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | | | | |
| MW-7 | 06-04-99 | 454.92 | 16.55 | 438.37 | 06-04-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | P | |
| MW-7 | 11-11-99 | 454.92 | 18.02 | 436.90 | 11-11-99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | | 1.03 | P | |
| MW-7 | 06-20-00 | 454.92 | 16.50 | 438.42 | 06-20-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | 1.3 | P | |
| MW-7 | 08-29-00 | 454.92 | 17.80 | 437.12 | 08-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | 1.67 | P | |
| MW-7 | 11-29-00 | 454.92 | 19.61 | 435.31 | 11-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | 0.51 | P | |
| MW-7 | 05-02-01 | 454.92 | 22.05 | 432.87 | 05-02-01 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | 2.66 | 0.9 | P | |
| MW-7 | 08-15-01 | 454.92 | 27.55 | 427.37 | 08-15-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | 0.84 | P | |
| MW-7 | 10-05-01 | 454.92 | 27.59 | 427.33 | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | 0.62 | P | |
| MW-7 | 01-21-02 | 454.92 | 26.50 | 428.42 | 01-21-02 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 15 | 21 | 0.65 | P | |
| MW-8 | 03-23-95 | 456.97 | 11.55 | 445.42 | 03-23-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 05-31-95 | 456.97 | 12.37 | 444.60 | 05-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 08-31-95 | 456.97 | 15.68 | 441.29 | 08-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 11-28-95 | 456.97 | 14.15 | 442.82 | 11-28-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-8 | 02-22-96 | 456.97 | 10.97 | 446.00 | 02-22-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 05-23-96 | 456.97 | 11.90 | 445.07 | 05-23-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 08-08-96 | 456.97 | 13.85 | 443.12 | 08-08-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 11-07-96 | 456.97 | 15.08 | 441.89 | 11-08-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-8 | 03-27-97 | 456.97 | 12.96 | 444.01 | 03-28-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 05-19-97 | 456.97 | 14.35 | 442.62 | 05-19-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 05-18-98 | 456.97 | 12.97 | 444.00 | 05-18-98 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 11-02-98 | 456.97 | 26.01 | 430.96 | 11-02-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | | |
| MW-8 | 06-04-99 | 456.97 | 15.53 | 441.44 | 06-04-99 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | | |
| MW-8 | 11-11-99 | 456.97 | 16.67 | 440.30 | 11-11-99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | | 1.01 | P | |
| MW-8 | 06-20-00 | 456.97 | 15.29 | 441.68 | 06-20-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | 2.4 | | |

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

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Well Number | Date Gauged | Top of Casing | Depth to | Groundwater | Date Sampled | TPH | | | | | | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|-------------|--------------------|--------------|--------------------|--------------|---|----------------|----------------|----------------------|----------------------|-------------------|-------------------------|---------------------------|
| | | Elevation (ft-MSL) | Water (feet) | Elevation (ft-MSL) | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | | |
| MW-8 | 08-29-00 | 456.97 | 16.59 | 440.38 | 08-29-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 3.37 | |
| MW-8 | 11-29-00 | 456.97 | 19.80 | 437.17 | 11-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | 0.772 | <2.50 | 1.35 | P |
| MW-8 | 05-02-01 | 456.97 | 22.12 | 434.85 | 05-02-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-8 | 08-15-01 | 456.97 | 27.63 | 429.34 | 08-15-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-8 | 10-05-01 | 456.97 | 27.65 | 429.32 | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 1.07 | P |
| MW-8 | 01-21-02 | 456.97 | 26.73 | 430.24 | 01-21-02 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 03-23-95 | 456.18 | 13.18 | 443.00 | 03-23-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 05-31-95 | 456.18 | 12.66 | 443.52 | 05-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 08-31-95 | 456.18 | 14.40 | 441.78 | 08-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 11-28-95 | 456.18 | 14.26 | 441.92 | 11-29-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | |
| MW-9 | 02-22-96 | 456.18 | 12.05 | 444.13 | 02-22-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 05-23-96 | 456.18 | 12.07 | 444.11 | 05-23-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 08-08-96 | 456.18 | 14.12 | 442.06 | 08-08-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 11-07-96 | 456.18 | 15.42 | 440.76 | 11-08-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | |
| MW-9 | 03-27-97 | 456.18 | 13.01 | 443.17 | 03-28-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 05-19-97 | 456.18 | 14.60 | 441.58 | 05-19-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 05-18-98 | 456.18 | 12.60 | 443.58 | 05-18-98 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 11-02-98 | 456.18 | 25.08 | 431.10 | 11-02-98 | Not sampled | | | | | | | |
| MW-9 | 06-04-99 | 456.18 | 15.87 | 440.31 | 06-04-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | P |
| MW-9 | 11-11-99 | 456.18 | 17.02 | 439.16 | 11-11-99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 0.96 | P |
| MW-9 | 06-20-00 | 456.18 | 15.54 | 440.64 | 06-20-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 2.1 | |
| MW-9 | 08-29-00 | 456.18 | 16.81 | 439.37 | 08-29-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 2.59 | |
| MW-9 | 11-29-00 | 456.18 | 18.81 | 437.37 | 11-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | 0.81 | P |
| MW-9 | 05-02-01 | 456.18 | 22.09 | 434.09 | 05-02-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 08-15-01 | 456.18 | 27.59 | 428.59 | 08-15-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |
| MW-9 | 10-05-01 | 456.18 | 27.63 | 428.55 | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 0.93 | P |
| DUP | 10-05-01 | NR | NR | NR | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | | |
| MW-9 | 01-21-02 | 456.18 | 26.77 | 429.41 | 01-21-02 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | |

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

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Well Number | Date Gauged | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater | | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/Not Purged (P/NP) |
|-------------|-------------|----------------------------------|-----------------------|--------------------|--------------|--|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|--------------------------|
| | | | | Elevation (ft-MSL) | Date Sampled | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |
| MW-10 | 03-23-95 | 456.85 | 14.86 | 441.99 | 03-23-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 05-31-95 | 456.85 | 15.63 | 441.22 | 05-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 08-31-95 | 456.85 | 14.40 | 442.45 | 08-31-95 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 11-28-95 | 456.85 | 17.24 | 439.61 | 11-29-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-10 | 02-22-96 | 456.85 | 14.30 | 442.55 | 02-22-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 05-23-96 | 456.85 | 14.93 | 441.92 | 05-23-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 08-08-96 | 456.85 | 17.20 | 439.65 | 08-08-96 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 11-07-96 | 456.85 | 18.25 | 438.60 | 11-08-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-10 | 03-27-97 | 456.85 | 15.77 | 441.08 | 03-28-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 05-19-97 | 456.85 | 17.38 | 439.47 | 05-19-97 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 05-18-98 | 456.85 | 15.47 | 441.38 | 05-18-98 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 11-02-98 | 456.85 | 26.94 | 429.91 | 11-02-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-10 | 06-04-99 | 456.85 | 17.19 | 439.66 | 06-04-99 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 11-11-99 | 456.85 | 19.35 | 437.50 | 11-11-99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 0.68 | P | |
| MW-10 | 06-20-00 | 456.85 | 17.92 | 438.93 | 06-20-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 2.9 | | |
| MW-10 | 08-29-00 | 456.85 | 19.15 | 437.70 | 08-29-00 | Not sampled: well sampled annually, during the fourth quarter | | | | | | 1.54 | | |
| MW-10 | 11-29-00 | 456.85 | 21.30 | 435.55 | 11-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | 0.95 | P | |
| MW-10 | 05-02-01 | 456.85 | 29.95 | 426.90 | 05-02-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 08-15-01 | 456.85 | 30.74 | 426.11 | 08-15-01 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-10 | 10-05-01 | 456.85 | 30.95 | 425.90 | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 0.89 | P | |
| MW-10 | 01-21-02 | 456.85 | 28.97 | 427.88 | 01-21-02 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-11 | 03-23-95 | 455.07 | 17.34 | 437.73 | 03-23-95 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-11 | 05-31-95 | 455.07 | 16.68 | 438.39 | 05-31-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | |
| MW-11 | 08-31-95 | 455.07 | 20.20 | 434.87 | 08-31-95 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-11 | 11-28-95 | 455.07 | 17.80 | 437.27 | 11-28-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-11 | 02-22-96 | 455.07 | 15.97 | 439.10 | 02-22-96 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-11 | 05-23-96 | 455.07 | 15.50 | 439.57 | 05-23-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-11 | 08-08-96 | 455.07 | 17.77 | 437.30 | 08-08-96 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-11 | 11-07-96 | 455.07 | 17.45 | 437.62 | 11-13-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-11 | 03-27-97 | 455.07 | 15.77 | 439.30 | 03-28-97 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |

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

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Well Number | Date Gauged | Top of Casing | Depth to | Groundwater | Date Sampled | TPH | | | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/Not Purged (P/NP) |
|-------------|-------------|--------------------|--------------|--------------------|--------------|--|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|--------------------------|
| | | Elevation (ft-MSL) | Water (feet) | Elevation (ft-MSL) | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |
| MW-11 | 05-19-97 | 455.07 | 16.80 | 438.27 | 05-19-97 | <50 | 1.1 | 4.5 | <0.5 | 2.2 | <3 | | | |
| MW-11 | 05-18-98 | 455.07 | 15.38 | 439.69 | 05-18-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-11 | 11-02-98 | 455.07 | 24.15 | 430.92 | 11-02-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-11 | 06-04-99 | 455.07 | 18.39 | 436.68 | 06-04-99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | P | |
| MW-11 | 11-11-99 | 455.07 | 18.62 | 436.45 | 11-11-99 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | 1.01 | P | |
| MW-11 | 06-20-00 | 455.07 | 17.82 | 437.25 | 06-20-00 | <50.0 | 0.631 | <0.500 | <0.500 | <0.500 | <2.50 | 4.1 | P | |
| MW-11 | 08-29-00 | 455.07 | 19.50 | 435.57 | 08-29-00 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-11 | 11-29-00 | 455.07 | 20.60 | 434.47 | 11-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | 1.63 | <2.50 | 0.97 | P | |
| MW-11 | 05-02-01 | 455.07 | 22.42 | 432.65 | 05-02-01 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | 1.04 | P | |
| MW-11 | 08-15-01 | 455.07 | 27.41 | 427.66 | 08-15-01 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-11 | 10-05-01 | 455.07 | 27.59 | 427.48 | 10-05-01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | 1.05 | P | |
| MW-11 | 01-21-02 | 455.07 | 26.75 | 428.32 | 01-21-02 | Not sampled: well sampled annually, during the fourth quarter | | | | | | | | |
| MW-12 | 03-23-95 | 455.04 | 15.54 | 439.50 | 03-23-95 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 05-31-95 | 455.04 | 15.66 | 439.38 | 05-31-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | | | |
| MW-12 | 08-31-95 | 455.04 | 18.23 | 436.81 | 08-31-95 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 11-28-95 | 455.04 | 17.53 | 437.51 | 11-28-95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 02-22-96 | 455.04 | 14.45 | 440.59 | 02-22-96 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 05-23-96 | 455.04 | 14.88 | 440.16 | 05-23-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 08-08-96 | 455.04 | 17.30 | 437.74 | 08-08-96 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 11-07-96 | 455.04 | 18.30 | 436.74 | 11-13-96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 03-27-97 | 455.04 | 15.69 | 439.35 | 03-28-97 | Not sampled: well sampled semi-annually, during the second and fourth quarters | | | | | | | | |
| MW-12 | 05-19-97 | 455.04 | 17.41 | 437.63 | 05-19-97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 05-18-98 | 455.04 | 15.21 | 439.83 | 05-18-98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | | | |
| MW-12 | 11-02-98 | 455.04 | NR | NR | 11-02-98 | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 06-04-99 | 455.04 | NR | NR | 06-04-99 | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 11-11-99 | 455.04 | NR | NR | 11-11-99 | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 06-20-00 | 455.04 | NR | NR | 06-20-00 | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 08-29-00 | 455.04 | NR | NR | 08-29-00 | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 11-29-00 | 455.04 | NR | NR | 11-29-00 | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 05-02-01 | 455.04 | NR | NR | 05-02-01 | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 08-15-01 | 455.04 | NR | NR | 08-15-01 | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 10-05-01 | 455.04 | NR | NR | 10-05-01 | Not sampled: unable to locate well | | | | | | | | |
| MW-12 | 01-21-02 | 455.04 | NR | NR | 01-21-02 | Not sampled: unable to locate well | | | | | | | | |
| MW-13 | 01-21-02 | NR | 24.61 | NR | 01-21-02 | 15,000 | 160 | 68 | 1,700 | 3,200 | 4,900 | 5,200 | 0.71 | P |

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

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Well Number | Date Gauged | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater | | Date Sampled | TPH | | | | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|-------------|-------------|----------------------------------|-----------------------|--------------------|----|--------------|-----------------------|----------------|----------------|----------------------|----------------------|-------------------|------------------|-------------------------|---------------------------|
| | | | | Elevation (ft-MSL) | | | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | | | | | |
| VW-1 | 08-29-00 | NR | 17.40 | NR | NR | 08-29-00 | 2,360 | 27.6 | 11.6 | 26.3 | 33.2 | 110 | | 4.47 | P |
| VW-1 | 11-29-00 | NR | 18.75 | NR | NR | 11-29-00 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | | 0.46 | P |
| VW-1 | 05-02-01 | NR | 21.59 | NR | NR | 05-02-01 | Well not sampled | | | | | | | | |
| VW-1 | 08-15-01 | NR | 24.62 | NR | NR | 08-15-01 | 1,200 | 6.3 | 4.3 | 1.7 | 1.3 | 20 | 17 | | P |
| DUP | 08-15-01 | NR | NR | NR | NR | 08-15-01 | 1,200 | 6.2 | 4.1 | 1.8 | 1.1 | 20 | 17 | | |
| VW-1 | 10-05-01 | NR | 24.75 | NR | NR | 10-05-01 | 1,500 | 140 | 55 | 28 | 82 | 610 | 660 | 0.71 | P |
| VW-1 | 01-21-02 | NR | 24.59 | NR | NR | 01-21-02 | 6,700 | 810 | 350 | 270 | 1,100 | 2,600 | 3,400 | 0.69 | P |
| DUP | 01-21-02 | NR | NR | NR | NR | 01-21-02 | 8,000 | 770 | 320 | 96 | 1,100 | 2,500 | 3,200 | | |
| VW-2 | 08-29-00 | NR | NR | NR | NR | 08-29-00 | Well inaccessible | | | | | | | | |
| VW-2 | 11-29-00 | NR | NR | NR | NR | 11-29-00 | Well inaccessible | | | | | | | | |
| VW-2 | 05-02-01 | NR | NR | NR | NR | 05-02-01 | Well not sampled | | | | | | | | |
| VW-2 | 05-02-01 | NR | NR | NR | NR | 08-15-01 | Well not sampled | | | | | | | | |
| VW-2 | 10-05-01 | NR | NR | NR | NR | 10-05-01 | Well inaccessible | | | | | | | | |
| VW-2 | 01-21-02 | NR | NR | NR | NR | 01-21-02 | Well inaccessible | | | | | | | | |
| VW-3 | 08-29-00 | NR | 17.93 | NR | NR | 08-29-00 | 25,400 | 3,540 | 10,600 | 1,280 | 43,000 | 44,700 | | | P |
| VW-3 | 11-29-00 | NR | 19.75 | NR | NR | 11-29-00 | 54,200 | 9,450 | 1,870 | 2,350 | 9,400 | 12,300 | 15,100 | 0.47 | P |
| VW-3 | 05-02-01 | NR | NR | NR | NR | 05-02-01 | Well abandoned | | | | | | | | |
| VW-4 | 08-29-00 | NR | NR | NR | NR | 08-29-00 | Well inaccessible | | | | | | | | |
| VW-4 | 11-29-00 | NR | 19.45 | NR | NR | 11-29-00 | 37,500 | 4,510 | 206 | 2,100 | 9,030 | 6,770 | 7,880 | 0.42 | P |
| DUP | 11-29-00 | NR | NR | NR | NR | 11-29-00 | 36,100 | 3,700 | 206 | 1,850 | 7,890 | 6,430 | 8,460 | | |
| VW-4 | 05-02-01 | NR | 21.66 | NR | NR | 05-02-01 | Well not sampled | | | | | | | | |
| VW-4 | 08-15-01 | NR | NR | NR | NR | 08-15-01 | Well not sampled | | | | | | | | |
| VW-4 | 10-05-01 | NR | NR | NR | NR | 10-05-01 | Not sampled: well dry | | | | | | | | |
| VW-4 | 01-21-02 | NR | NR | NR | NR | 01-21-02 | Not sampled: well dry | | | | | | | | |

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

**ARCO Service Station 6113
 785 East Stanley Boulevard, Livermore, California**

| Well Number | Date Gauged | Top of Casing Elevation (ft-MSL) | Depth to Water (feet) | Groundwater | | TPH | | | Ethyl- benzene (µg/L) | Total Xylenes (µg/L) | MTBE 8021B (µg/L) | MTBE 8260 (µg/L) | Dissolved Oxygen (mg/L) | Purged/ Not Purged (P/NP) |
|----------------|----------------|--|-----------------------------|-----------------------|-----------------|--------------------|-------------------|-------------------|-----------------------------|----------------------------|-------------------------|------------------------|-------------------------------|---------------------------------|
| | | | | Elevation (ft-MSL) | Date Sampled | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | | | | | | |

Notes:

--: Not analyzed, not applicable

NR: not reported; data not available or not measurable

TPH: Total petroleum hydrocarbons by modified EPA method 8015

BTEX: Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 11/11/99)

MTBE: Methyl tertiary butyl ether by EPA method 8021B. (EPA method 8020 prior to 11/11/99). Any MTBE Detection by 8021B was confirmed by EPA method 8260 beginning Third Quarter 2000 (08-29-00 Results)

ft-MSL: elevation in feet, relative to mean sea level

µg/L: micrograms per liter

mg/L: milligrams per liter

<: less than laboratory detection limit stated to the right

*: For previous historical groundwater elevation and analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 6113, Livermore, California*, (EMCON, February 26, 1996).

DUP: duplicate

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station 6113
785 East Stanley Boulevard, Livermore, California

| Date Measured | Average Flow Direction | Average Hydraulic Gradient |
|----------------------|-------------------------------|-----------------------------------|
| 03-23-95 | Northwest | 0.035 |
| 05-31-95 | North-Northwest | 0.028 |
| 08-31-95 | North-Northwest | 0.03 |
| 11-28-95 | North-Northwest | 0.025 |
| 02-22-96 | North-Northwest | 0.031 |
| 05-23-96 | North-Northwest | 0.025 |
| 08-08-96 | North | 0.019 |
| 11-07-96 | North-Northeast | 0.019 |
| 03-27-97 | North-Northwest | 0.021 |
| 05-19-97 | North | 0.019 |
| 05-18-98 | North | 0.02 |
| 11-02-98 | North | 0.02 |
| 06-04-99 | North | 0.02 |
| 11-11-99 | North | 0.03 |
| 06-20-00 | North-Northeast | 0.014 |
| 08-29-00 | North-Northeast | 0.013 |
| 11-29-00 | North-Northwest | 0.026 |
| 05-02-01 | Northeast | 0.026 |
| 08-15-01 | Northeast | 0.047 |
| 10-05-01 | Northeast | 0.031 |
| 01-21-02 | Northeast | 0.033 |

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

01/07/03

EDF 1.2i All files present in deliverable.

| | |
|--------------------|--|
| Laboratory: | Sequoia Analytical Laboratories, Inc., Morgan Hill, CA |
| Project Name: | ARCO #6113, Livermore, CA |
| Work Order Number: | MLJ0382 |
| Global ID: | T0600100111 |
| Lab Report Number: | MLJ0382103120020723 |

Report Summary

| Labreport | Sampid | Labsampid | Mtrx | QC | Anmcode | Exmcode | Logdate | Extdate | Anadate | Lablotcl | Run | Sub |
|-------------------------------|--------|-----------|------|----|---------|---------|----------|----------|----------|----------|-----|-----|
| MLJ038210312002 MW-1 0723 | | MLJ038201 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/20/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-1 0723 | | MLJ038201 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| MLJ038210312002 MW-10 0723 | | MLJ038209 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/21/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-10 0723 | | MLJ038209 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| MLJ038210312002 MW-11 0723 | | MLJ038210 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/21/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-11 0723 | | MLJ038210 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| MLJ038210312002 MW-13 0723 | | MLJ038211 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/21/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-13 0723 | | MLJ038211 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18002 | 1 | |
| MLJ038210312002 MW-2 0723 | | MLJ038202 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/20/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-2 0723 | | MLJ038202 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| MLJ038210312002 MW-3 0723 | | MLJ038203 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/20/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-3 0723 | | MLJ038203 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| MLJ038210312002 MW-4 0723 | | MLJ038204 | W | CS | 8260+OX | SW5030B | 10/07/02 | 10/21/02 | 10/21/02 | 2J21018 | 1 | |
| MLJ038210312002 MW-4 0723 | | MLJ038204 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| MLJ038210312002 MW-6 0723 | | MLJ038205 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/20/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-6 0723 | | MLJ038205 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| MLJ038210312002 MW-7 0723 | | MLJ038206 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/20/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-7 0723 | | MLJ038206 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| MLJ038210312002 MW-8 0723 | | MLJ038207 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/21/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-8 0723 | | MLJ038207 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |

Report Summary

| Labreport | Sampid | Labsampid | Mtrx | QC | Anmcode | Exmcode | Logdate | Extdate | Anadate | Lablotctl | Run | Sub |
|------------------------------|--------|-------------|------|-----|---------|---------|----------|----------|----------|-----------|-----|-----|
| MLJ038210312002 MW-9 0723 | | MLJ038208 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/21/02 | 2J20009 | 1 | |
| MLJ038210312002 MW-9 0723 | | MLJ038208 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| MLJ038210312002 VW-1 0723 | | MLJ038212 | W | CS | 8260+OX | SW5035 | 10/07/02 | 10/20/02 | 10/21/02 | 2J20009 | 1 | |
| MLJ038210312002 VW-1 0723 | | MLJ038212 | W | CS | SW8020F | SW5030B | 10/07/02 | 10/18/02 | 10/18/02 | 2J18002 | 1 | |
| | | MLJ030604 | W | NC | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18002 | 1 | |
| | | 2J18001BS1 | WQ | BS1 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| | | 2J18001BS2 | WQ | BS2 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| | | 2J18001BLK1 | WQ | LB1 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| | | 2J18001MS1 | W | MS1 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| | | 2J18001MSD1 | W | SD1 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18001 | 1 | |
| | | 2J18002BS1 | WQ | BS1 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18002 | 1 | |
| | | 2J18002BS2 | WQ | BS2 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18002 | 1 | |
| | | 2J18002BLK1 | WQ | LB1 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18002 | 1 | |
| | | 2J18002MS1 | W | MS1 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18002 | 1 | |
| | | 2J18002MSD1 | W | SD1 | SW8020F | SW5030B | // | 10/18/02 | 10/18/02 | 2J18002 | 1 | |
| | | 2J20009BSD1 | WQ | BD1 | 8260+OX | SW5035 | // | 10/20/02 | 10/20/02 | 2J20009 | 1 | |
| | | 2J20009BS1 | WQ | BS1 | 8260+OX | SW5035 | // | 10/20/02 | 10/20/02 | 2J20009 | 1 | |
| | | 2J20009BLK1 | WQ | LB1 | 8260+OX | SW5035 | // | 10/20/02 | 10/20/02 | 2J20009 | 1 | |
| | | 2J21018BSD1 | WQ | BD1 | 8260+OX | SW5030B | // | 10/21/02 | 10/21/02 | 2J21018 | 1 | |
| | | 2J21018BS1 | WQ | BS1 | 8260+OX | SW5030B | // | 10/21/02 | 10/21/02 | 2J21018 | 1 | |
| | | 2J21018BLK1 | WQ | LB1 | 8260+OX | SW5030B | // | 10/21/02 | 10/21/02 | 2J21018 | 1 | |

EDFSAMP: Error Summary Log

01/07/03

| Error type | Logcode | Projname | Npdlwo | Sampid | Matrix |
|---------------------------------------|---------|----------|--------|--------|--------|
| There are no errors in this data file | | | | | |

EDFTEST: Error Summary Log

01/07/03

| Error type | Labsampid | Qccode | Anmcode | Exmcode | Anadate | Run number |
|---------------------------------------|-----------|--------|---------|---------|---------|------------|
| There are no errors in this data file | | | | | // | 0 |

EDFRES: Error Summary Log

01/07/03

| Error type | Labsampid | Qccode | Matrix | Anmcode | Pvccode | Anadate | Run number | Parlabel |
|--------------------------|-------------|--------|--------|---------|---------|----------|------------|-----------|
| Warning: extra parameter | 2J18001MS1 | MS1 | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18001MS1 | MS1 | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J18001MSD1 | SD1 | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18001MSD1 | SD1 | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J18002MS1 | MS1 | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18002MS1 | MS1 | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J18002MSD1 | SD1 | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18002MSD1 | SD1 | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ030604 | NC | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ030604 | NC | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038201 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038201 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038202 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038202 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038203 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038203 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038204 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038204 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038205 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038205 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038206 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038206 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038207 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038207 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038208 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |

| Error type | Labsampid | Qccode | Matrix | Anmcode | Pvccode | Anadate | Run number | Parlabel |
|--------------------------|-------------|--------|--------|---------|---------|----------|------------|-----------|
| Warning: extra parameter | MLJ038208 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038209 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038209 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038210 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038210 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038211 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038211 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | MLJ038212 | CS | W | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | MLJ038212 | CS | W | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J18001BLK1 | LB1 | WQ | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18001BLK1 | LB1 | WQ | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J18001BS1 | BS1 | WQ | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18001BS2 | BS2 | WQ | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18001BS2 | BS2 | WQ | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J18002BLK1 | LB1 | WQ | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18002BLK1 | LB1 | WQ | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |
| Warning: extra parameter | 2J18002BS1 | BS1 | WQ | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18002BS2 | BS2 | WQ | SW8020F | PR | 10/18/02 | 1 | AAATFBZME |
| Warning: extra parameter | 2J18002BS2 | BS2 | WQ | SW8020F | PR | 10/18/02 | 1 | GROC6C10 |

EDFQC: Error Summary Log

01/07/03

| Error type | Lablotctl | Anmcode | Parlabel | Qccode | Labqid |
|--|-----------|---------|----------|--------|--------|
| There are no errors in this data files | | | | | |

EDFCL: Error Summary Log

01/07/03

| Error type | Clredate | Anmcode | Exmcode | Parlabel | Clcode |
|---------------------------------------|----------|---------|---------|----------|--------|
| There are no errors in this data file | / / | | | | |

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Submittal Type: GW Monitoring Report

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