



August 16, 2004

Alameda County

AUG 23 2004

Mr. Jeff Carson
 Oro Loma Sanitary District
 2600 Grant Avenue
 San Lorenzo, CA 94580

Environmental Health

Re: Monthly Discharge Report – July 2004
Discharge Permit #SDP-037
ARCO Service Station #0608
17601 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Carson:

On behalf of Atlantic Richfield Company, Remediation Management (RM), a BP affiliated company, URS Corporation (URS) is operating a groundwater extraction and treatment (GWET) system at the site referenced above. This letter transmits GWET system operational data for the period from June 16 through July 22, 2004 (Tables 1 and 2). Operational parameters are summarized below.

| | |
|--|--------------------------------------|
| <i>Treatment System Status:</i> | <i>Operational</i> |
| <i>Reporting Period:</i> | <i>06/16/2004 to 07/22/04</i> |
| <i>Period Volume Discharged:</i> | <i>71,651 gallons</i> |
| <i>Effluent pH Reading:</i> | <i>6.81</i> |
| <i>Average Period Flow Rate:</i> | <i>1.40 gpm</i> |
| <i>Analytical Report:</i> | <i>Attachment A</i> |
| <i>O & M Field Information:</i> | <i>Attachment B</i> |

DISCUSSION:

Monthly compliance samples were collected on July 22, 2004, and analyzed for gasoline range organics (GRO), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and fuel oxygenates by EPA Method 8260B. Methyl tert Butyl Ether (MTBE) was detected above the laboratory reporting limit in the influent sample (INF) and the sample collected between the primary and secondary carbon vessels (MID-1) at concentrations of 15 µg/L and 1.6 µg/L, respectively. No other constituents were detected above the laboratory reporting limits.

If you have any questions regarding this project or require further information, please do not hesitate to call me at 510-874-3088.

Sincerely,

URS CORPORATION



Michael Greenberg
Staff Engineer



Scott Robinson
Project Manager

Attachments: Table 1 - Treatment System Metered Volume
Table 2 - Treatment System Analytical Data
Attachment A - Certified Analytical Report and Chain-of-Custody
Documentation, July 22, 2004
Attachment B - Operation and Maintenance Field Logs

cc: Mr. Paul Supple, ARCO, (electronic copy submitted to ENFOS)
Mr. John Kaiser, Regional Water Quality Control Board - San Francisco Bay Region, 1515
Clay Street, Suite 1400, Oakland, CA 94612

~~Mr. Robert Stahler, Alameda County Environmental Health, 1221 H Street, Berkeley, CA 94702~~

Table 1
Treatment System Metered Volume
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Meter Reading Date | Hour Meter Reading (hours) | Total (hours) | System Downtime ^(*) (%) | Volume Reading (gallons) | Net Volume (gallons) | Cumulative Volume Removed (gallons) | Average Flow Rate (gpm) |
|--------------------|----------------------------|---------------|------------------------------------|--------------------------|----------------------|-------------------------------------|-------------------------|
| 06/05/00 | a 29,593 | | 97 | 979,800 | 3,200 | 3,200 | 2.1 |
| 06/19/00 | 29,896 | | 10 | 1,052,390 | 72,590 | 75,790 | 4.0 |
| 06/28/00 | 30,062 | | 23 | 1,082,340 | 29,950 | 105,740 | 3.0 |
| 07/08/00 | 30,352 | | 0 | 1,131,560 | 49,220 | 154,960 | 2.8 |
| 07/26/00 | 30,749 | | 8 | 1,196,420 | 64,860 | 219,820 | 2.7 |
| 08/07/00 | 30,955 | | 28 | 1,228,020 | 31,600 | 251,420 | 2.6 |
| 08/29/00 | 31,309 | | 33 | 1,276,650 | 48,630 | 300,050 | 2.3 |
| 09/08/00 | 31,528 | | 9 | 1,306,300 | 29,650 | 329,700 | 2.3 |
| 09/28/00 | 32,011 | | 0 | 1,368,410 | 62,110 | 391,810 | 2.1 |
| 10/28/00 | 32,638 | | 13 | 1,444,183 | 75,773 | 467,583 | 2.0 |
| 11/30/00 | 33,399 | | 4 | 1,534,960 | 90,777 | 558,360 | 2.0 |
| 12/28/00 | 33,761 | | 46 | 1,576,520 | 41,560 | 599,920 | 1.9 |
| 01/04/01 | 33,924 | | 3 | 1,595,340 | 18,820 | 618,740 | 1.9 |
| 02/06/01 | 34,556 | | 20 | 1,672,330 | 76,990 | 695,730 | 2.0 |
| 03/08/01 | 34,776 | | 70 | 1,698,860 | 26,530 | 722,260 | 2.0 |
| 03/24/01 | 35,088 | | 19 | 1,741,170 | 42,310 | 764,570 | 2.3 |
| 04/05/01 | 35,310 | | 23 | 1,767,530 | 26,360 | 790,930 | 2.0 |
| 04/18/01 | 35,335 | | 92 | 1,770,860 | 3,330 | 794,260 | 2.3 |
| 05/04/01 | 35,716 | | 1 | 1,812,690 | 41,830 | 836,090 | 1.8 |
| 06/09/01 | 36,345 | | 27 | 1,879,710 | 67,020 | 903,110 | 1.8 |
| 07/05/01 | b 36,469 | | 80 | 1,897,180 | 17,470 | 920,580 | 2.3 |
| 07/28/01 | 36,821 | | 36 | 1,928,250 | 31,070 | 951,650 | 1.5 |
| 08/14/01 | c 36,822 | | 100 | 1,928,510 | 260 | 951,910 | 5.4 |
| 09/05/01 | 37,219 | | 25 | 1,977,050 | 48,540 | 1,000,450 | 2.0 |
| 10/05/01 | 37,932 | | 1 | 2,040,950 | 63,900 | 1,064,350 | 1.5 |
| 11/13/01 | 38,820 | | 5 | 2,119,670 | 78,720 | 1,143,070 | 1.5 |
| 12/11/01 | 39,496 | | 0 | 2,186,530 | 66,860 | 1,209,930 | 1.6 |
| 01/04/02 | 40,063 | | 2 | 2,248,700 | 62,170 | 1,272,100 | 1.8 |
| 01/31/02 | 40,716 | | 0 | 2,321,310 | 72,610 | 1,344,710 | 1.9 |
| 02/05/02 | 40,830 | | 5 | 2,333,090 | 11,780 | 1,356,490 | 1.7 |
| 02/25/02 | 40,831 | | 100 | 2,333,270 | 180 | 1,356,670 | 1.7 |
| 03/05/02 | 40,968 | | 29 | 2,353,460 | 20,190 | 1,376,860 | 2.5 |
| 04/08/02 | 41,735 | | 6 | 2,448,360 | 94,900 | 1,471,760 | 2.1 |
| 05/04/02 | 42,362 | | 0 | 2,487,090 | 38,730 | 1,510,490 | 1.0 |
| 05/31/02 | d 42,832 | | 27 | 2,503,380 | 16,290 | 1,526,780 | 0.6 |
| 08/19/02 | 44,925 | | 0 | 2,520,289 | 16,909 | 1,543,689 | 0.1 |
| 10/03/02 | e 44,956 | | 97 | 2,520,582 | 293 | 1,543,982 | N/A |
| 10/07/02 | e 44,956 | | 100 | 2,522,394 | 1,812 | 1,545,794 | N/A |
| 10/24/02 | e 44,956 | | 100 | 2,527,898 | 5,504 | 1,551,298 | N/A |
| 11/07/02 | f 0 | 44,956 | - | 2,527,925 | 27 | 1,551,325 | N/A |
| 11/21/02 | 336 | 45,292 | 0 | 2,527,945 | 20 | 1,551,345 | 0.00 |
| 12/05/02 | g 479 | 45,435 | 58 | 2,528,113 | 168 | 1,551,513 | 0.02 |
| 12/18/02 | g 788 | 45,744 | 1 | 2,555,895 | 27,782 | 1,579,295 | 1.50 |
| 01/03/02 | g 1,174 | 46,130 | 100 | 2,591,359 | 35,464 | 1,614,759 | 1.53 |

Table 1
Treatment System Metered Volume
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Meter Reading Date | Hour Meter Reading (hours) | Total (hours) | System Downtime ^(k) (%) | Volume Reading (gallons) | Net Volume (gallons) | Cumulative Volume Removed (gallons) | Average Flow Rate (gpm) |
|--------------------|----------------------------|---------------|------------------------------------|--------------------------|----------------------|-------------------------------------|-------------------------|
| 01/16/03 | 1,486 g | 46,442 | 97 | 2,625,812 | 34,453 | 1,649,212 | 1.84 |
| 02/13/03 | 2,156 g | 47,112 | 0 | 2,692,710 | 66,898 | 1,716,110 | 1.67 |
| 03/13/03 | 2,832 | 47,788 | 0 | 2,758,948 | 66,238 | 1,782,348 | 1.63 |
| 03/27/03 | 3,165 | 48,121 | 1 | 2,790,668 | 31,720 | 1,814,068 | 1.58 |
| 04/10/03 | 3,500 | 48,456 | 0 | 2,828,060 | 37,392 | 1,851,460 | 1.86 |
| 04/24/03 | 3,837 | 48,793 | 0 | 2,865,050 | 36,990 | 1,888,450 | 1.83 |
| 05/08/03 | 4,172 | 49,128 | 0 | 2,900,937 | 35,887 | 1,924,337 | 1.79 |
| 05/22/03 | 4,459 h | 49,415 | 14 | 2,931,190 | 30,253 | 1,954,590 | 1.75 |
| 05/30/03 | 4,459 i | 49,415 | 100 | 2,931,190 | 0 | 1,954,590 | 0.00 |
| 06/05/03 | 4,606 | 49,562 | 0 | 2,946,180 | 14,990 | 1,969,580 | 1.69 |
| 06/19/03 | 4,940 | 49,896 | 1 | 2,971,985 | 25,805 | 1,995,385 | 1.29 |
| 07/11/03 | 4,940 | 49,896 | 100 | 2,971,985 | 0 | 1,995,385 | 0.00 |
| 07/24/03 | 5,331 | 50,287 | 0 | 2,972,362 | 377 | 1,995,762 | 0.02 |
| 08/14/03 | 5,831 | 50,787 | 1 | 3,013,517 | 41,532 | 2,036,917 | 0.78 |
| 08/28/03 | 6,165 | 51,121 | 1 | 3,040,900 | 27,383 | 2,064,300 | 1.37 |
| 09/11/03 | 6,503 | 51,459 | 0 | 3,067,641 | 26,741 | 2,091,041 | 1.32 |
| 09/25/03 | 6,838 | 51,794 | 0 | 3,095,020 | 27,379 | 2,118,420 | 1.36 |
| 10/09/03 | 7,176 | 52,132 | 0 | 3,122,624 | 81,724 | 2,146,024 | 1.35 |
| 10/23/03 | 7,512 | 52,468 | 0 | 3,149,200 | 26,576 | 2,172,600 | 1.32 |
| 11/06/03 | NA l | NA | NA | NA | NA | NA | NA |
| 11/20/03 | 8,182 | 53,138 | 0 | 3,204,612 | 55,412 | 2,228,012 | 1.38 |
| 12/04/03 | 8,518 | 53,474 | 0 | 3,233,956 | 29,344 | 2,201,944 | 0.49 |
| 12/18/03 | 8,851 | 53,807 | 1 | 3,264,487 | 30,531 | 2,232,475 | 1.53 |
| 01/08/04 | 9,356 | 54,312 | 0 | 3,312,485 | 47,998 | 2,276,010 | 1.58 |
| 01/22/04 | 9,690 | 54,646 | 1 | 3,344,994 | 32,509 | 2,308,519 | 1.62 |
| 02/05/04 | 10,026 | 54,982 | 0 | 3,377,510 | 32,516 | 2,341,035 | 1.61 |
| 02/19/04 | 10,357 | 55,313 | 2 | 3,410,457 | 32,947 | 2,373,982 | 1.66 |
| 03/04/04 | 10,695 | 55,651 | 0 | 3,446,501 | 36,044 | 2,410,026 | 1.77 |
| 03/18/04 | 11,030 | 55,986 | 0 | 3,480,890 | 34,389 | 2,444,415 | 1.71 |
| 04/07/04 | 11,509 | 56,465 | 0 | 3,524,179 | 43,289 | 2,487,704 | 1.51 |
| 04/22/04 | 11,869 | 56,825 | 0 | 3,552,144 | 27,965 | 2,515,669 | 1.30 |
| 05/06/04 | 12,206 | 57,162 | 0 | 3,579,927 | 27,783 | 2,543,452 | 1.37 |
| 05/19/04 | 12,522 | 57,478 | 0 | 3,607,015 | 27,088 | 2,570,540 | 1.43 |
| 06/02/04 | 12,853 | 57,809 | 1 | 3,635,580 | 28,565 | 2,599,105 | 1.44 |
| 06/16/04 | 13,198 | 58,154 | 0 | 3,664,594 | 29,014 | 2,628,119 | 1.40 |
| 07/08/04 | 13,715 | 58,671 | 2 | 3,708,440 | 43,846 | 2,671,965 | 1.41 |
| 07/22/04 | 14,050 | 59,006 | 0 | 3,736,245 | 27,805 | 2,699,770 | 1.38 |

| | |
|--|----------------------|
| REPORTING PERIOD: | 06/16/04 to 07/22/04 |
| PERIOD AVERAGE FLOW RATE (gpm): | 1.40 |
| PERIOD VOLUME DISCHARGED (gallons): | 71,651 |

gpm = Gallons per minute

N/A = Not available or not applicable

Initial 3-hour startup pumping period May 31, 2000

- System restarted 6/5/00 (previously ran 9/25/91 - 8/21/95)
- System down during construction to main sewer line starting 6/25/01.
- System restarted 8/14/01 following completion of construction work.
- Hour meter reading not recorded. Estimated hours using last 3 months average.
- Hour meter reading not functioning.
- Hour meter replaced.
- An error in the table has been corrected to show correct flow rate values.
- System was down upon arrival due to utility power outage.
- System restarted 5/30/03 after power restored to system.
- System was down upon arrival due pump overload. Pump was pulled for cleaning and inspection
- Downtime calculated by the following: $100 - [(Hours\ Running\ in\ Period) / [(Days\ in\ Reporting\ Period) * (24\ hours/day)]]$
- Data from 11/6/03 site visit is unavailable.

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Date Sampled | TPH-g/GRO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | MtBE (µg/L) | COD (mg/L) | TSS (mg/L) | pH (units) | DO (mg/L) |
|--|------------------|----------------|----------------|----------------------|----------------|-------------|------------|------------|------------|-----------|
| INFL (influent to primary carbon) | | | | | | | | | | |
| 09/26/91 | 38 | 4.8 | 0.6 | 1.6 | 1.1 | NS | NS | NS | NA | NA |
| 10/22/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 11/22/91 | ND<30 | 0.52 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 12/19/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 01/16/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 02/19/92 | 370 | 14 | 0.34 | 14 | 2.4 | NS | NS | NS | NA | NA |
| 03/17/92 | 160 | 18 | 0.32 | 0.56 | 1.6 | NS | NS | NS | NA | NA |
| 04/15/92 | 200 | 11 | ND<0.3 | 7.3 | 0.77 | NS | NS | NS | NA | NA |
| 05/14/92 | 45 | 1.4 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 06/19/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 07/14/92 | 97 | 25 | ND<0.5 | 8.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 08/18/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 09/15/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 10/16/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 11/18/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 12/17/92 | 96 | 7.7 | 13 | 0.56 | 9.7 | NS | NS | NS | NA | NA |
| 01/18/93 | 100 | 13 | 6.6 | 1.1 | 11 | NS | NS | NS | NA | NA |
| 02/22/93 | 480 | 36 | 29 | 4.9 | 96 | NS | NS | NS | NA | NA |
| 03/15/93 | 310 | 29 | 14 | 4.9 | 55 | NS | NS | NS | NA | NA |
| 04/09/93 | 140 | 11 | 2.8 | 2.6 | 17 | NS | NS | NS | NA | NA |
| 05/13/93 | 530 | 27 | 12 | 18 | 96 | NS | NS | NS | NA | NA |
| 06/04/93 | 170 | 5.2 | 1.6 | 2.5 | 23 | NS | NS | NS | NA | NA |
| 07/20/93 | 200 | 12 | 0.91 | 8.2 | 29 | NS | NS | NS | NA | NA |
| 08/16/93 | 150 | 4.9 | 0.63 | 2.9 | 15 | NS | NS | NS | NA | NA |
| 09/13/93 | 80 | 2.2 | ND<0.5 | ND<0.5 | 4.8 | NS | NS | NS | NA | NA |
| 10/08/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 11/19/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 12/21/93 | 73 | 3.5 | ND<0.5 | 1.9 | 8.4 | NS | NS | NS | NA | NA |
| 01/18/94 | 60 | 3.1 | ND<0.5 | 3.2 | 4.3 | NS | NS | NS | NA | NA |
| 02/17/94 | ND<50 | 2.5 | ND<0.5 | 2.1 | 3.1 | NS | NS | NS | NA | NA |
| 03/15/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 04/21/94 | 110 | 7.8 | ND<1.0 | 9.6 | ND<1.0 | NS | NS | NS | NA | NA |
| 05/13/94 | 230 | 8.3 | ND<0.5 | 14 | 6 | NS | NS | NS | NA | NA |
| 06/14/94 | 230 | 12 | ND<0.5 | 16 | 1.5 | NS | NS | NS | NA | NA |
| 07/14/94 | 270 | 6.9 | ND<0.5 | 15 | 1.9 | NS | NS | NS | NA | NA |
| 08/18/94 | ND<50 | 1.8 | ND<0.5 | 1.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 09/12/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 10/18/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 11/05/94 | ND<50 | 0.66 | ND<0.5 | 2.6 | ND<0.5 | NS | NS | NS | NA | NA |
| 12/05/94 | 470 | 32 | 0.59 | 29 | 6.2 | NS | NS | NS | NA | NA |
| 01/04/95 | ND<50 | 1.1 | ND<0.50 | 1.4 | ND<0.50 | NS | NS | NS | NA | NA |
| 02/06/95 | 100 | 2.4 | 1.1 | 1.2 | 2.8 | NS | NS | NS | NA | NA |
| 03/02/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 04/04/95 | 290 | 6.6 | ND<0.50 | 10 | 1.7 | NS | NS | NS | NA | NA |
| 05/02/95 | 240 | 7.1 | ND<0.50 | 3.2 | 1.6 | NS | NS | NS | NA | NA |
| 06/05/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 07/06/95 | 270 | 2.4 | ND<0.50 | 7.6 | 1 | NS | NS | NS | NA | NA |
| 08/21/95 | 230 | 1.8 | ND<0.50 | 1.6 | 0.92 | NS | NS | NS | NA | NA |

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Date Sampled | TPH-g/GRO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | MtBE (µg/L) | COD (mg/L) | TSS (mg/L) | pH (units) | DO (mg/L) |
|--|------------------|----------------|----------------|----------------------|----------------|-------------|------------|------------|------------|-----------|
| INFL (influent to primary carbon) (cont.) | | | | | | | | | | |
| 06/05/00 | 700 | 7.24 | ND<1.00 | 2.11 | ND<1.00 | 361 | NS | NS | NA | NA |
| 07/08/00 | 133 | 5.09 | 0.598 | ND<0.500 | ND<0.500 | 272 | NS | NS | NA | NA |
| 08/10/00 | 144 | 2.8 | ND<0.500 | 1.04 | ND<0.500 | 126 | NS | NS | NA | NA |
| 09/08/00 | 261 | 2.74 | 0.826 | 0.626 | ND<0.500 | 120 | NS | NS | NA | NA |
| 10/10/00 | 114 | ND<0.500 | 1.68 | 0.843 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 11/07/00 | 128 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | 98.6 | NS | NS | NA | NA |
| 12/05/00 | 167 | 0.775 | ND<0.500 | ND<0.500 | ND<0.500 | 104 | NS | NS | NA | NA |
| 01/04/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | 86.8 | NS | NS | NA | NA |
| 02/06/01 | 203 | 0.572 | ND<0.500 | 0.513 | ND<0.500 | 80.5 | NS | NS | NA | NA |
| 03/08/01 | 219 | ND<0.500 | 6.16 | 1.21 | 0.682 | 81 | NS | NS | NA | NA |
| 04/18/01 | 74.5 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | 97.5 | NS | NS | NA | NA |
| 05/04/01 | 63.3 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | 93.2 | NS | NS | NA | NA |
| 06/09/01 | 64 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 71 | NS | NS | NA | NA |
| 07/05/01 | 100 | ND<0.50 | 2.5 | ND<0.50 | ND<0.50 | 430 | NS | NS | NA | NA |
| 08/14/01 | 290 | 2.2 | 3.5 | ND<1.0 | ND<1.0 | 870 | NS | NS | NA | NA |
| 09/05/01 | ND<100 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | 340 | NS | NS | NA | NA |
| 10/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 150 | NS | NS | NA | NA |
| 11/13/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 92 | NS | NS | NA | NA |
| 12/11/01 | 65 | ND<0.50 | 0.58 | ND<0.50 | ND<0.50 | 83 | NS | NS | NA | NA |
| 01/04/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 140 | NS | NS | NA | NA |
| 02/05/02 | 100 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 190 | NS | NS | NA | NA |
| 03/05/02 | 150 | ND<1.2 | ND<1.2 | ND<1.2 | ND<1.2 | 350 | NS | NS | NA | NA |
| 04/08/02 | 400 | 9.6 | ND<1.0 | 1.4 | ND<1.0 | 260 | NS | NS | NA | NA |
| 05/16/02 | 310 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | 330 | NS | NS | NA | NA |
| 10/07/02 | 160 | 4.1 | ND<1.0 | ND<1.0 | ND<1.0 | 130 | NS | NS | NA | NA |
| 11/07/02 | 250 | ND<0.50 | 10 | 0.7 | 0.77 | 210 | NS | NS | NA | NA |
| 12/05/02 | 220 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | 110 | NS | NS | NA | NA |
| 01/03/03 | 170 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | 140 | NS | NS | NA | NA |
| 2/13/03* | ND<250 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | 66 | NS | NS | NA | NA |
| 3/27/03* | 110 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 71 | NS | NS | NA | NA |
| 4/24/03* | 120 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 56 | NS | NS | NA | NA |
| 5/30/03* | 20 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<50 | NS | NS | NA | NA |
| 06/19/03 | 160 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 46 | NS | NS | NA | NA |
| 07/24/03 | 51 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 41 (47)* | NS | NS | NA | NA |
| 08/28/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 30 (40)* | NS | NS | NA | NA |
| 09/25/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 28 | NS | NS | NA | NA |
| 10/23/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 28 (28)* | NS | NS | NA | NA |
| 11/20/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 22 | NS | NS | NA | NA |
| 12/18/03 | 52 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 27 | NS | NS | NA | NA |
| 01/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 27 | NS | NS | NA | NA |
| 02/19/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 25 | NS | NS | NA | NA |
| 03/18/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 27 | NS | NS | NA | NA |
| 04/07/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 25 | NS | NS | NA | NA |
| 04/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 19 | NS | NS | NA | NA |
| 05/19/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 19 | NS | NS | NA | NA |
| 06/16/04 | 63 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 20 | NS | NS | NA | NA |
| 07/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 15 | NS | NS | NA | NA |

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Date Sampled | TPH-g/GRO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | MtBE (µg/L) | COD (mg/L) | TSS (mg/L) | pH (units) | DO (mg/L) |
|--|------------------|----------------|----------------|----------------------|----------------|-------------|------------|------------|------------|-----------|
| MID-1 (between primary and secondary carbons) | | | | | | | | | | |
| 09/26/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 10/22/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 12/19/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 01/16/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 02/19/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 03/17/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 04/15/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 05/14/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 06/19/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 07/14/92 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 08/18/92 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 09/15/92 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 10/16/92 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 11/18/92 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 12/17/92 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 01/18/93 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 02/22/93 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 03/15/93 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 04/09/93 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 05/13/93 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 06/04/93 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 07/14/94 | ND | ND | ND | ND | ND | NS | NS | NS | NA | NA |
| 08/17/94 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 09/12/94 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 10/18/94 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 11/05/94 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 12/05/94 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 01/04/95 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 02/06/95 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 03/02/95 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 06/05/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 07/08/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 08/10/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<5.00 | NS | NS | NA | NA |
| 09/08/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Date Sampled | TPH-g/GRO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | MtBE (µg/L) | COD (mg/L) | TSS (mg/L) | pH (units) | DO (mg/L) |
|----------------------|------------------|----------------|----------------|----------------------|----------------|---------------|------------|------------|------------|-----------|
| MID-1 (cont.) | | | | | | | | | | |
| 10/10/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 11/07/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 12/05/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 01/04/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 02/06/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 03/08/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 04/18/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 05/04/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 06/09/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 07/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 08/14/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 09/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 10/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 11/13/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 3.3 | NS | NS | NA | NA |
| 12/11/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 5.7 | NS | NS | NA | NA |
| 01/04/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 9 | NS | NS | NA | NA |
| 02/05/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 26 | NS | NS | NA | NA |
| 03/05/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 17 | NS | NS | NA | NA |
| 04/08/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 39 | NS | NS | NA | NA |
| 05/16/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 58 | NS | NS | NA | NA |
| 10/07/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 55 | NS | NS | NA | NA |
| 11/07/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 100 | NS | NS | NA | NA |
| 12/05/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 51 | NS | NS | NA | NA |
| 01/03/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 66 | NS | NS | NA | NA |
| 2/13/03' | ND<250 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | 130 | NS | NS | NA | NA |
| 3/27/03' | ND<250 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | 120 | NS | NS | NA | NA |
| 4/24/03' | 280 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | 110 | NS | NS | NA | NA |
| 5/30/03' | ND<250 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | 140 | NS | NS | NA | NA |
| 06/19/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 110 | NS | NS | NA | NA |
| 07/24/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 08/28/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 09/25/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 10/23/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 (1.3)* | NS | NS | NA | NA |
| 11/20/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1.1 | NS | NS | NA | NA |
| 12/18/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1.2 | NS | NS | NA | NA |
| 01/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1.3 | NS | NS | NA | NA |
| 02/19/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1.2 | NS | NS | NA | NA |
| 03/18/04 | 67 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1.4 | NS | NS | NA | NA |
| 04/07/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1.5 | NS | NS | NA | NA |
| 04/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1.3 | NS | NS | NA | NA |
| 05/19/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 2.0 | NS | NS | NA | NA |
| 06/16/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1.8 | NS | NS | NA | NA |
| 07/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 1.6 | NS | NS | NA | NA |

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Date Sampled | TPH-g/GRO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | MtBE (µg/L) | COD (mg/L) | TSS (mg/L) | pH (units) | DO (mg/L) |
|---|------------------|----------------|----------------|----------------------|----------------|----------------|------------|------------|------------|-----------|
| MID-2 (between secondary and tertiary carbons) | | | | | | | | | | |
| 06/05/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 07/08/00 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 09/08/00 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 10/10/00 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 11/07/00 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 12/05/00 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 01/04/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 02/06/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 03/08/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 04/18/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 05/04/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | NA | NA |
| 06/09/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 07/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 08/14/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 09/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 10/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 11/13/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 12/11/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 01/04/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 02/05/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 03/05/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 04/08/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 4.7 | NS | NS | NA | NA |
| 05/16/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 10/07/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 11/07/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 12/05/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 01/03/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 2/13/03* | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 1 | NS | NS | NA | NA |
| 3/27/03* | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 0.94 | NS | NS | NA | NA |
| 4/24/03* | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 0.95 | NS | NS | NA | NA |
| 5/30/03* | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 1.1 | NS | NS | NA | NA |
| 06/19/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 07/24/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 08/28/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 09/25/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 10/23/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 (<0.5)* | NS | NS | NA | NA |
| 11/20/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 12/18/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 01/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 02/19/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 03/18/04 | 86 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 04/07/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 04/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 05/19/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 06/16/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 07/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Date Sampled | TPH-g/GRO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | MtBE (µg/L) | COD (mg/L) | TSS (mg/L) | pH (units) | DO (mg/L) |
|---------------------------------|------------------|----------------|----------------|----------------------|----------------|-------------|------------|------------|------------|-----------|
| EFFL (effluent to sewer) | | | | | | | | | | |
| 09/26/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 10/22/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 11/22/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 12/19/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 01/16/91 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 02/19/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 03/17/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 04/15/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 05/14/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 06/19/92 | ND<30 | ND<0.3 | ND<0.3 | ND<0.3 | ND<0.3 | NS | NS | NS | NA | NA |
| 07/14/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 08/18/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 09/15/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 10/16/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 11/18/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 12/17/92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 01/18/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 02/22/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 03/15/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 04/09/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 05/13/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 06/04/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 07/20/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 08/16/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 09/13/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 10/08/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 11/19/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 12/21/93 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 01/18/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 02/17/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 03/15/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 04/21/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 05/13/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 06/14/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 07/14/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 08/17/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Date Sampled | TPH-g/GRO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | MtBE (µg/L) | COD (mg/L) | TSS (mg/L) | pH (units) | DO (mg/L) |
|---|------------------|----------------|----------------|----------------------|----------------|-------------|------------|------------|------------|-----------|
| EFFL (effluent to sewer) (cont.) | | | | | | | | | | |
| 09/12/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 10/18/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 11/05/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 12/05/94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | NS | NS | NS | NA | NA |
| 01/04/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 02/06/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 03/02/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 04/04/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 05/02/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 06/05/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 07/06/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 08/21/95 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | NS | NS | NS | NA | NA |
| 06/05/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | NS | NS | 7.19 | NA |
| 06/12/00 | ND<50.0 | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| 07/08/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | 32.1 | ND<10.0 | 7.08 | NA |
| 08/10/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<5.00 | 23.4 | ND<10.0 | 6.67 | NA |
| 09/08/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | 29.2 | ND<10.0 | 6.82 | NA |
| 10/10/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | ND<20.0 | ND<10.0 | 7.25 | NA |
| 11/07/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | ND<20.0 | ND<10.0 | 7.24 | NA |
| 12/05/00 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | 44 | ND<10.0 | 7.48 | NA |
| 01/04/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | ND<20.0 | ND<10.0 | 7.00 | NA |
| 02/06/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | ND<20.0 | 10.7 | 7.03 | NA |
| 03/08/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | ND<20.0 | ND<10.0 | 7.04 | NA |
| 04/18/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | 28.5 | ND<10.0 | 7.06 | NA |
| 05/04/01 | ND<50.0 | ND<0.500 | ND<0.500 | ND<0.500 | ND<0.500 | ND<2.50 | ND<20.0 | ND<10.0 | 7.31 | NA |
| 06/09/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | 34 | ND<10 | 7.05 | NA |
| 07/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | ND<10 | 7.10 | NA |
| 08/14/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | 14 | 7.09 | NA |
| 09/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | 70 | ND<10 | 7.07 | NA |
| 10/05/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | 55 | ND<10 | 6.89 | NA |
| 11/13/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | 150 | ND<10 | 6.98 | NA |
| 12/11/01 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | 34 | ND<10 | 7.01 | NA |
| 01/04/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | 52 | ND<10 | 7.22 | NA |
| 02/05/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | ND<10 | 6.91 | NA |
| 03/05/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | ND<10 | 6.77 | NA |
| 04/08/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | ND<10 | 6.52 | NA |
| 05/16/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | ND<10 | 6.60 | NA |
| 10/07/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | NS | NS | NA | NA |
| 11/07/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | 0.74 | ND<2.5 | ND<30 | ND<10 | 7.80 | NA |
| 12/05/02 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.0 | ND<30 | ND<10 | 7.40 | 0.27 |
| 01/03/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<30 | ND<10 | 7.50 | NA |
| 2/13/03' | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<30 | ND<10 | 7.15 | 0.12 |
| 3/27/03' | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 32 | ND<10 | 7.50 | 0.08 |
| 4/24/03' | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<30 | ND<10 | 6.95 | 10.23 |
| 5/30/03' | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<30 | ND<10 | 6.95 | NA |
| 06/19/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | ND<10 | 7.02 | 9.75 |
| 07/24/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | ND<10 | 7.07 | 3.00 |
| 08/28/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | ND<10 | 7.03 | 2.12 |

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

| Date Sampled | TPH-g/GRO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Xylenes (µg/L) | MtBE (µg/L) | COD (mg/L) | TSS (mg/L) | pH (units) | DO (mg/L) |
|---|------------------|----------------|----------------|----------------------|----------------|----------------|------------|------------|------------|-----------|
| EFFL (effluent to sewer) (cont.) | | | | | | | | | | |
| 09/25/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<20 | ND<10 | 6.79 | 2.70 |
| 10/23/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 (<0.5)* | ND<20 | ND<10 | 6.82 | 3.45 |
| 11/20/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<30 | ND<10 | 6.94 | 0.84 |
| 12/18/03 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<20 | ND<10 | 7.01 | 0.94 |
| 01/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<20 | ND<10 | 7.12 | 0.85 |
| 02/19/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<20 | 10 | 6.57 | 3.82 |
| 03/18/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<20 | ND<10 | 7.08 | 0.97 |
| 04/07/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | NS | NS | NA | NA |
| 04/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | 27 | ND<10 | 6.69 | 1.64 |
| 05/19/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | 20 | 13 | 6.50 | 1.40 |
| 06/16/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<20 | ND<10 | 6.79 | 0.75 |
| 07/22/04 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<20 | ND<10 | 6.81 | 1.09 |

COD =Chemical oxygen demand, analyzed using EPA Method 410.4
 DO =Dissolved Oxygen, field measurement
 µg/L =Micrograms per liter
 mg/L =Milligrams per liter
 MtBE =Methyl tert Butyl Ether, analyzed using EPA Method 8015B/8021B
 NA =Not applicable or not available
 ND< =Not detected above the laboratory reporting limit.
 NS =Not sampled
 TPH-g =Total purgeable petroleum hydrocarbons as gasoline, analyzed using EPA Method 8015B/8021B
 GRO =Gasoline Range Organics, analyzed using EPA Method 8260B
 TSS =Total suspended solids, analyzed using EPA Method 160.2

Notes:

1. Analyzed with EPA Method 8260
2. MTBE concentration analyzed by EPA methods 8021B and 8260B (Results of EPA Method 8260 shown in parenthesis).
3. GRO/BTEX/MtBE analyzed using EPA Method 8260B beginning February 19, 2004.
4. The data within this table collected prior to May 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.
5. Beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to GRO. The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in higher concentrations being reported.



Kate Wylie

08/16/2004 05:00 PM

To: John Skance/Oakland/URSCorp@URSCorp, Robert Horwath/Oakland/URSCorp@URSCorp, Syed Rehan/Oakland/URSCorp@URSCorp, Scott Dressler/Chico/URSCorp@URSCorp, Leonard Niles/Oakland/URSCorp@URSCorp, Michael Greenberg/Oakland/URSCorp@URSCorp, Donna Cosper/Oakland/URSCorp@URSCorp

cc:

Subject: Time Sheet Transfer Request

Folks:

Please move your time as indicated below for Bob's site "River Watch." When complete, please contact me via email and be sure to indicate site and/or job number you moved your time from.

Thanks,

Kate

| Site # | from job | to job | Employee or Vendor | Week Ending | Hrs | Reason | Ac |
|------------|----------------|----------------|--------------------|-------------|-----|---------------------------|----|
| RiverWatch | 38486899.00001 | 38486972.00001 | Skance, John | 8/6/2004 | 2.0 | Move hours to RiverWatch2 | 1 |
| | | | Horwath, Bob | 8/6/2004 | 6.0 | Move hours to RiverWatch2 | 1 |
| | | | Rehan, Syed | 8/6/2004 | 2.0 | Move hours to RiverWatch2 | 1 |
| | | | Dressler, Scott | 8/6/2004 | 3.0 | Move hours to RiverWatch2 | 1 |
| | | | Niles, Len | 8/6/2004 | 7.0 | Move hours to RiverWatch2 | 1 |
| | | | Greenberg, Mike | 8/6/2004 | 1.0 | Move hours to RiverWatch2 | 1 |
| | | | Cosper, Donna | 8/6/04OT | 6.0 | Move hours to RiverWatch2 | 1 |

ATTACHMENT A

**CERTIFIED ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION**

URS-Oakland, CA

August 05, 2004

1333 Broadway, Suite 800
Oakland, CA 94612

Attn.: Scott Robinson

Project#: 38486314.0L041

Project: Station 608

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Attached is our report for your samples received on 07/23/2004 16:45
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

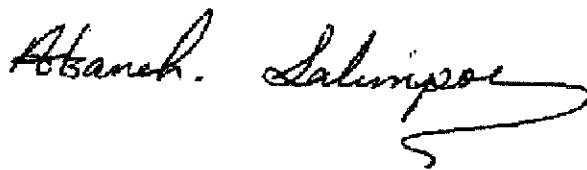
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after
09/06/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: asalimpour@stl-inc.com

Sincerely,



Afsaneh Salimpour
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

URS-Oakland, CA

August 05, 2004

1333 Broadway, Suite 800
Oakland, CA 94612

Attn.: Scott Robinson

Project#: 38486314.0L041

Project: Station 608

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Case Narrative

General and Sample Comments

We (STL San Francisco) received 4 Water samples , on Friday, July 23, 2004 4:45 PM.

Analysis Comments and Flags by QC Batch

| | |
|---|-------|
| Gas/BTEX Fuel Oxygenates by 8260B (for BP) | Water |
|---|-------|

EFFL

2004070744 004

Analysis Comment

gs-Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantified as gasoline, concentration would be 59 ug/L.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Total Suspended Solids (TSS)

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041

Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Samples Reported

| Sample Name | Date Sampled | Matrix | Lab # |
|-------------|------------------|--------|-------|
| EFFL | 07/22/2004 08:00 | Water | 4 |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/03/2004 08:34

Total Suspended Solids (TSS)

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268
Project: 38486314.0L041
Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

| | | | |
|------------|------------------|------------|------------------|
| Prep(s): | 160.2 | Test(s): | 160.2 |
| Sample ID: | EFFL | Lab ID: | 2004-07-0744 - 4 |
| Sampled: | 07/22/2004 08:00 | Extracted: | 7/27/2004 07:52 |
| Matrix: | Water | QC Batch#: | 2004/07/27-01.29 |

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|----------|-------|----|------|----------|------------------|------|
| TSS | ND | 10 | mg/L | 1.00 | 07/27/2004 12:46 | |

Total Suspended Solids (TSS)

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041
Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

| Batch QC Report | | | | | |
|--------------------------|-------|-------|------|----------------------------------|------|
| Prep(s): 160.2 | | Water | | Test(s): 160.2 | |
| Method Blank | | | | QC Batch # 2004/07/27-01.29 | |
| MB: 2004/07/27-01.29-001 | | | | Date Extracted: 07/27/2004 07:52 | |
| Compound | Conc. | RL | Unit | Analyzed | Flag |
| TSS | ND | 10 | mg/L | 07/27/2004 12:43 | |

Total Suspended Solids (TSS)

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041
Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Batch QC Report

Prep(s): 160.2

Test(s): 160.2

Laboratory Control Spike

Water

QC Batch # 2004/07/27-01.29

LCS 2004/07/27-01.29-002

Extracted: 07/27/2004

Analyzed: 07/27/2004 12:43

LCSD 2004/07/27-01.29-003

Extracted: 07/27/2004

Analyzed: 07/27/2004 12:43

| Compound | Conc. mg/L | | Exp.Conc. | Recovery % | | RPD | Ctrl.Limits % | | Flags | |
|----------|------------|------|-----------|------------|------|-----|---------------|------|-------|-----|
| | LCS | LCSD | | LCS | LCSD | | % | Rec. | RPD | LCS |
| TSS | 896 | 905 | 1000 | 89.6 | 90.5 | 1.0 | 80-120 | 20 | | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/03/2004 08:34

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041
Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Samples Reported

| Sample Name | Date Sampled | Matrix | Lab # |
|-------------|------------------|--------|-------|
| INFL | 07/22/2004 08:15 | Water | 1 |
| MID-1 | 07/22/2004 08:10 | Water | 2 |
| MID-2 | 07/22/2004 08:05 | Water | 3 |
| EFFL | 07/22/2004 08:00 | Water | 4 |

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041
Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

| | |
|---------------------------|-----------------------------|
| Prep(s): 5030B | Test(s): 8260B |
| Sample ID: INFL | Lab ID: 2004-07-0744 - 1 |
| Sampled: 07/22/2004 08:15 | Extracted: 8/3/2004 23:43 |
| Matrix: Water | QC Batch#: 2004/08/03-2B.66 |

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|-------|----------|------------------|------|
| Gasoline | ND | 50 | ug/l. | 1.00 | 08/03/2004 23:43 | |
| Benzene | ND | 0.50 | ug/L | 1.00 | 08/03/2004 23:43 | |
| Toluene | ND | 0.50 | ug/L | 1.00 | 08/03/2004 23:43 | |
| Ethylbenzene | ND | 0.50 | ug/L | 1.00 | 08/03/2004 23:43 | |
| Total xylenes | ND | 1.0 | ug/L | 1.00 | 08/03/2004 23:43 | |
| tert-Butyl alcohol (TBA) | ND | 5.0 | ug/L | 1.00 | 08/03/2004 23:43 | |
| Methyl tert-butyl ether (MTBE) | 15 | 0.50 | ug/L | 1.00 | 08/03/2004 23:43 | |
| Di-isopropyl Ether (DIPE) | ND | 1.0 | ug/L | 1.00 | 08/03/2004 23:43 | |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | ug/L | 1.00 | 08/03/2004 23:43 | |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | ug/L | 1.00 | 08/03/2004 23:43 | |
| Surrogate(s) | | | | | | |
| 1,2-Dichloroethane-d4 | 103.6 | 72-128 | % | 1.00 | 08/03/2004 23:43 | |
| Toluene-d8 | 97.7 | 80-113 | % | 1.00 | 08/03/2004 23:43 | |

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041

Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

| | | | |
|------------|------------------|------------|------------------|
| Prep(s): | 5030B | Test(s): | 8260B |
| Sample ID: | MID-1 | Lab ID: | 2004-07-0744 - 2 |
| Sampled: | 07/22/2004 08:10 | Extracted: | 8/4/2004 00:06 |
| Matrix: | Water | QC Batch#: | 2004/08/03-2B.66 |

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline | ND | 50 | ug/L | 1.00 | 08/04/2004 00:06 | |
| Benzene | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:06 | |
| Toluene | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:06 | |
| Ethylbenzene | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:06 | |
| Total xylenes | ND | 1.0 | ug/L | 1.00 | 08/04/2004 00:06 | |
| tert-Butyl alcohol (TBA) | ND | 5.0 | ug/L | 1.00 | 08/04/2004 00:06 | |
| Methyl tert-butyl ether (MTBE) | 1.6 | 0.50 | ug/L | 1.00 | 08/04/2004 00:06 | |
| Di-isopropyl Ether (DIPE) | ND | 1.0 | ug/L | 1.00 | 08/04/2004 00:06 | |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:06 | |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:06 | |
| Surrogate(s) | | | | | | |
| 1,2-Dichloroethane-d4 | 104.8 | 72-128 | % | 1.00 | 08/04/2004 00:06 | |
| Toluene-d8 | 98.6 | 80-113 | % | 1.00 | 08/04/2004 00:06 | |

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041

Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

| | | | |
|------------|------------------|------------|------------------|
| Prep(s): | 5030B | Test(s): | 8260B |
| Sample ID: | MID-2 | Lab ID: | 2004-07-0744 - 3 |
| Sampled: | 07/22/2004 08:05 | Extracted: | 8/4/2004 00:29 |
| Matrix: | Water | QC Batch#: | 2004/08/03-2B.66 |

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline | ND | 50 | ug/L | 1.00 | 08/04/2004 00:29 | |
| Benzene | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:29 | |
| Toluene | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:29 | |
| Ethylbenzene | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:29 | |
| Total xylenes | ND | 1.0 | ug/L | 1.00 | 08/04/2004 00:29 | |
| tert-Butyl alcohol (TBA) | ND | 5.0 | ug/L | 1.00 | 08/04/2004 00:29 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:29 | |
| Di-isopropyl Ether (DIPE) | ND | 1.0 | ug/L | 1.00 | 08/04/2004 00:29 | |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:29 | |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:29 | |
| Surrogate(s) | | | | | | |
| 1,2-Dichloroethane-d4 | 104.3 | 72-128 | % | 1.00 | 08/04/2004 00:29 | |
| Toluene-d8 | 98.6 | 80-113 | % | 1.00 | 08/04/2004 00:29 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/05/2004 16:12

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041

Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

| | | | |
|--|------------------|------------|------------------|
| Prep(s): | 5030B | Test(s): | 8260B |
| Sample ID: | EFFL | Lab ID: | 2004-07-0744 - 4 |
| Sampled: | 07/22/2004 08:00 | Extracted: | 8/4/2004 00:52 |
| Matrix: | Water | QC Batch#: | 2004/08/03-2B.66 |
| Analysis Flag: .gs (See Legend and Note Section) | | | |

| Compound | Conc. | RL | Unit | Dilution | Analyzed | Flag |
|--------------------------------|-------|--------|------|----------|------------------|------|
| Gasoline | ND | 50 | ug/L | 1.00 | 08/04/2004 00:52 | |
| Benzene | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:52 | |
| Toluene | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:52 | |
| Ethylbenzene | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:52 | |
| Total xylenes | ND | 1.0 | ug/L | 1.00 | 08/04/2004 00:52 | |
| tert-Butyl alcohol (TBA) | ND | 5.0 | ug/L | 1.00 | 08/04/2004 00:52 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:52 | |
| Di-isopropyl Ether (DIPE) | ND | 1.0 | ug/L | 1.00 | 08/04/2004 00:52 | |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:52 | |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | ug/L | 1.00 | 08/04/2004 00:52 | |
| Surrogate(s) | | | | | | |
| 1,2-Dichloroethane-d4 | 109.7 | 72-128 | % | 1.00 | 08/04/2004 00:52 | |
| Toluene-d8 | 97.2 | 80-113 | % | 1.00 | 08/04/2004 00:52 | |

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041

Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/08/03-2B.66-042

Water

Test(s): 8260B

QC Batch # 2004/08/03-2B.66

Date Extracted: 08/03/2004 18:42

| Compound | Conc. | RL | Unit | Analyzed | Flag |
|--------------------------------|-------|--------|------|------------------|------|
| Gasoline | ND | 50 | ug/L | 08/03/2004 18:42 | |
| tert-Butyl alcohol (TBA) | ND | 5.0 | ug/L | 08/03/2004 18:42 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.5 | ug/L | 08/03/2004 18:42 | |
| Di-isopropyl Ether (DIPE) | ND | 1.0 | ug/L | 08/03/2004 18:42 | |
| Ethyl tert-butyl ether (ETBE) | ND | 0.5 | ug/L | 08/03/2004 18:42 | |
| tert-Amyl methyl ether (TAME) | ND | 0.5 | ug/L | 08/03/2004 18:42 | |
| Benzene | ND | 0.5 | ug/L | 08/03/2004 18:42 | |
| Toluene | ND | 0.5 | ug/L | 08/03/2004 18:42 | |
| Ethylbenzene | ND | 0.5 | ug/L | 08/03/2004 18:42 | |
| Total xylenes | ND | 1.0 | ug/L | 08/03/2004 18:42 | |
| Surrogates(s) | | | | | |
| 1,2-Dichloroethane-d4 | 100.6 | 72-128 | % | 08/03/2004 18:42 | |
| Toluene-d8 | 97.0 | 80-113 | % | 08/03/2004 18:42 | |

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/05/2004 16:12

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041

Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/08/03-2B.66

LCS 2004/08/03-2B.66-056

Extracted: 08/03/2004

Analyzed: 08/03/2004 17:56

LCSD 2004/08/03-2B.66-019

Extracted: 08/03/2004

Analyzed: 08/03/2004 18:19

| Compound | Conc. ug/L | | Exp.Conc. | Recovery % | | RPD | Ctrl.Limits % | | Flags | |
|--------------------------------|------------|------|-----------|------------|-------|-----|---------------|------|-------|-----|
| | LCS | LCSD | | LCS | LCSD | | % | Rec. | RPD | LCS |
| Methyl tert-butyl ether (MTBE) | 25.3 | 24.4 | 25 | 101.2 | 97.6 | 3.6 | 65-165 | 20 | | |
| Benzene | 25.9 | 25.7 | 25 | 103.6 | 102.8 | 0.8 | 69-129 | 20 | | |
| Toluene | 25.7 | 26.4 | 25 | 102.8 | 105.6 | 2.7 | 70-130 | 20 | | |
| Surrogates(s) | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 482 | 460 | 500 | 96.4 | 92.0 | | 72-128 | | | |
| Toluene-d8 | 488 | 498 | 500 | 97.6 | 99.6 | | 80-113 | | | |

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08/05/2004 16:12

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041
Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

| Batch QC Report | | | |
|----------------------------------|-----------------------|--|------------------------------------|
| Prep(s): 5030B | | | Test(s): 8260B |
| Matrix Spike (MS / MSD) | Water | | QC Batch # 2004/08/03-2B.66 |
| EFFL >> MS | | | Lab ID: 2004-07-0744 - 004 |
| MS: 2004/08/03-2B.66-015 | Extracted: 08/04/2004 | | Analyzed: 08/04/2004 01:15 |
| | | | Dilution: 1.00 |
| MSD: 2004/08/03-2B.66-038 | Extracted: 08/04/2004 | | Analyzed: 08/04/2004 01:38 |
| | | | Dilution: 1.00 |

| Compound | Conc. ug/L | | | Spk.Level ug/L | Recovery % | | | Limits % | | Flags | |
|-------------------------|------------|------|--------|-------------------|------------|-------|-----|----------|-----|-------|-----|
| | MS | MSD | Sample | | MS | MSD | RPD | Rec. | RPD | MS | MSD |
| Benzene | 31.1 | 32.4 | ND | 25 | 124.4 | 129.6 | 4.1 | 69-129 | 20 | | mso |
| Toluene | 27.2 | 30.0 | ND | 25 | 108.8 | 120.0 | 9.8 | 70-130 | 20 | | |
| Methyl tert-butyl ether | 32.2 | 34.0 | ND | 25 | 128.8 | 136.0 | 5.4 | 65-165 | 20 | | |
| Surrogate(s) | | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 499 | 547 | | 500 | 99.8 | 109.4 | | 72-128 | | | |
| Toluene-d8 | 487 | 480 | | 500 | 97.4 | 96.0 | | 80-113 | | | |

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38486314.0L041
Station 608

Received: 07/23/2004 16:45

Site: 18501 Hesperian Blvd., San Lorenzo, CA

Legend and Notes

Sample Comment

Lab ID: 2004-07-0744 -4

gs-Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantified as gasoline, concentration would be 59 ug/L.

Result Flag

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.
Precision and Accuracy were verified by LCS/LCSD.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/05/2004 16:12

STL San Francisco

Sample Receipt Checklist

Submission #: 2004-07-0744

Checklist completed by: (Initials) TB Date: 7/24/04

Courier name: [X] STL San Francisco [] Client

Custody seals intact on shipping container/samples

Chain of custody present?

Chain of custody signed when relinquished and received?

Chain of custody agrees with sample labels?

Samples in proper container/bottle?

Sample containers intact?

Sufficient sample volume for indicated test?

All samples received within holding time?

Container/Temp Blank temperature in compliance (4° C ± 2)?

Water - VOA vials have zero headspace?

No VOA vials submitted Yes [X] No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt? [X] Yes [] No

[] pH adjusted- Preservative used: [] HNO3 [] HCl [X] H2SO4 [] NaOH [] ZnOAc - Lot #(s) T1940

For any item checklisted "No", provided detail of discrepancy in comment section below:

Comments: SAMPLE CONTAINER SPLIT OFF AN ADDITIONAL 250ML FOR COD.

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/04

Client contacted: [] Yes [] No

Summary of discussion:

Corrective Action (per PM/Client):



Project Name **Station 608 - 18501 Hesperian Blvd, San Lorenzo, CA**
 Business Unit **Atlantic Richfield Company/Northern CA Portfolio**
 BP Laboratory Contract Number: **4 6 1 0 0 0**

Chain of Custody Record

Date: **7/22/04** Requested Due Date: **8/5/04**
 (mm/dd/yy - 2 weeks from sampling date)

| | | | |
|------------------------|--------|------------|-----|
| On-site Time: | 0730 | Temp: | 68 |
| Off-site Time: | 0900 | Temp: | 70 |
| Sky Conditions: | Cloudy | | |
| Meteorological Events: | None | | |
| Wind Speed: | n/a | Direction: | n/a |

| | | |
|---|--|--|
| Send To: | BP/GEM Facility No. Station 608 | Consultant: URS Oakland |
| Lab Name: STL - SF | BP/GEM Facility Address: 18501 Hesperian Blvd, San Lorenzo, CA | Address: 500 12th Street, #200 |
| Lab Address: 1220 Quarry Lane Pleasanton, CA 94566 | Site ID No. Station 608 | Oakland, CA 94607 |
| | California Global ID #: T0600101665 | e-mail BDD: Scott.Robinson@URSCorp.com |
| Lab PM: Afsaneh Salimpour | BP/GEM PM Contact: Paul Supple | Consultant Project No.: 38486314.0L041 |
| Tele/Fax: 925.484.1919/925.484.1096 | Address: P.O. Box 6549, Moraga, CA 94570 | Consultant Tele/Fax: 510-874-3280/510-874-3268 |
| Report Type & QC Level: Normal | Tele/Fax: 925-299-8891/925-299-8872 | Consultant PM: Scott Robinson |
| BP/GEM Account No.: | | Invoice to: Atlantic Richfield Company |
| Lab Bottle Order No.: | | BP/GEM Work Release No: |

| Item No. | Field Point ID | Sample ID | 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 | GRD (8260) | BTEX (8260) | MTBE (8260) | COD | TSS | Fuel Oxy. (8260) | |
| 1 | INFL | INFL | 0815 | X | | | | 3 | | | | X | X | X | | | X | | | |
| 2 | MID-1 | MID-1 | 0810 | X | | | | 3 | | | | X | X | X | | | X | | | |
| 3 | MID-2 | MID-2 | 0805 | X | | | | 3 | | | | X | X | X | | | X | | | |
| 4 | EPFL | EPFL | 0800 | X | | | | 7 | X | X | | X | X | X | X | X | X | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|--|-----------------------------|--------------|----------------------------|---------|------|
| Sampler's Name: George Kraoshan | Relinquished by / Signature | Date / Time | Accepted By / Affiliation | Date | Time |
| Sampler's Company: URS Oakland | <i>[Signature]</i> | 7/22/04 1510 | <i>[Signature]</i> STL-SAL | 7/22/04 | 1510 |
| Shipment Date: 7/22/04 | <i>[Signature]</i> | 7/23/04 1050 | <i>[Signature]</i> STL-SAL | 7/23/04 | 1050 |
| Shipment Method: Hand Deliver - SAL | <i>[Signature]</i> | 7/23/04 9:45 | <i>[Signature]</i> STL-SAL | 7/23/04 | 1645 |
| Shipment Tracking No: | | | | | |

Special Instructions: COD = Chemical Oxygen Demand (3 VOS's w/ H2SO4), TSS = Total Suspended Solids (1 Liter poly unpreserved)

Custody Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt **4 °C** Trip Blank Yes No



**Sequoia
Analytical**

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

2 August, 2004

Afsaneh Salimpour
Severn Trent Laboratories, San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

RE: BP
Work Order: P407433

Enclosed are the results of analyses for samples received by the laboratory on 07/26/04 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mark Shipman For Angelee Cari
Project Manager

CA ELAP Certificate #2374

| | | |
|--|--|--|
| Severn Trent Laboratories, San Francisco 1220 Quarry Lane Pleasanton CA, 94566 | Project:BP Project Number:2004-07-0744-1 Project Manager:Afsaneh Salimpour | P407433 Reported: 08/02/04 12:14 |
|--|--|--|

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| EFFL | P407433-01 | Water | 07/22/04 08:00 | 07/26/04 10:30 |



1455 McDowell Blvd, North Ste D
 Petaluma, CA 94954
 (707) 792-1865
 FAX (707) 792-0342
 www.sequoialabs.com

Severn Trent Laboratories, San Francisco
 1220 Quarry Lane
 Pleasanton CA, 94566

Project:BP
 Project Number:2004-07-0744-1
 Project Manager:Afsaneh Salimpour

P407433
 Reported:
 08/02/04 12:14

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Petaluma

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| EFFL (P407433-01) Water Sampled: 07/22/04 08:00 Received: 07/26/04 10:30 | | | | | | | | | |
| Chemical Oxygen Demand | ND | 20 | mg/l | 1 | 4070535 | 07/27/04 | 07/27/04 | EPA 410.4 | |

| | | |
|--|--|--|
| Severn Trent Laboratories, San Francisco 1220 Quarry Lane Pleasanton CA, 94566 | Project:BP Project Number:2004-07-0744-1 Project Manager:Afsaneh Salimpour | P407433 Reported: 08/02/04 12:14 |
|--|--|--|

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|--------------------|-------|-------------------------------|------------------|----------------|-----|--------------|-------|
| Batch 4070535 - General Preparation | | | | | | | | | |
| Blank (4070535-BLK1) | | | | Prepared & Analyzed: 07/27/04 | | | | | |
| Chemical Oxygen Demand | ND | 20 | mg/l | | | | | | |
| Laboratory Control Sample (4070535-BS1) | | | | Prepared & Analyzed: 07/27/04 | | | | | |
| Chemical Oxygen Demand | 238 | 20 | mg/l | 250 | | 95 80-120 | | | |
| Matrix Spike (4070535-MS1) | | | | Prepared & Analyzed: 07/27/04 | | | | | |
| Chemical Oxygen Demand | 254 | 20 | mg/l | 250 | 15 | 96 75-125 | | | |
| Matrix Spike Dup (4070535-MSD1) | | | | Prepared & Analyzed: 07/27/04 | | | | | |
| Chemical Oxygen Demand | 256 | 20 | mg/l | 250 | 15 | 96 75-125 | 0.8 | 20 | |

Severn Trent Laboratories, San Francisco
1220 Quarry Lane
Pleasanton CA, 94566

Project: BP
Project Number: 2004-07-0744-1
Project Manager: Afsaneh Salimpour

P407433
Reported:
08/02/04 12:14

Notes and Definitions

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



STL

Chain of Custody *P407433*

Date Shipped: 7/24/2004
2004-07-0744 - 1

From: STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To: Sequoia Analytical Petaluma
1455 N. McDowell Blvd., North Ste. D
Petaluma, CA 94954

Project Manager: Afsaneh Salimpour
Phone: (925) 484-1919 Ext: 107
Fax: (925) 484-1096
Email: asalimpour@stl-inc.com

Phone: (707) 792-1865 Ext:
Fax: (707) 792-0342
Contact: Sample Receiving
Phone: (707) 792-1865 Ext:

CL Submission #: 2004-07-0744
CL PO #:

Project #: 38486314.0L041
Project Name: Station 608

| Origin Sample ID | CL# | Sampled | Matrix | Method | Time |
|-------------------|-----|---------------------|--------|--------|-------|
| EFFL | 4 | 7/22/2004 8:00:00AM | Water | 410.4 | 5 Day |
| Subcontract - COD | | | | | |

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

COOLER CUSTODY SEALS INTACT
NOT INTACT
COOLER TEMPERATURE 4-8 °C

RELINQUISHED BY: 1.
Joan Mullen 0945
Signature Time
Joan Mullen 7-26-04
Printed Name Date
STL SF
Company

RELINQUISHED BY: 2.
MUSA 1030
Signature Time
MUSA 0945
Printed Name Date
MUSA 7/26/04
Company STL S.F.

RELINQUISHED BY: 3.
Signature Time
Printed Name Date
Company

RECEIVED BY: 1.
Joan Mullen
Signature Time
Joan Mullen 0945
Printed Name Date
Joan Mullen
Company STL S.F.

RECEIVED BY: 2.
MUSA 1030
Signature Time
MUSA 7/26/04
Printed Name Date
Company

RECEIVED BY: 3.
Signature Time
Printed Name Date
Company

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: STL
 REC. BY (PRINT): KC
 WORKORDER: P2107433

DATE Received at Lab: 7/26/04
 TIME Received at Lab: 1030
 LOG IN DATE: 7/27/04

(Drinking water) for
 regulatory purposes: YES/NO
 (Wastewater) for
 regulatory purposes: YES/NO

| CIRCLE THE APPROPRIATE RESPONSE | | LAB SAMPLE # | # | CLIENT ID | DESCRIPTION | SAMPLE MATRIX | DATE SAMPLED | CONDITION (ETC.) |
|--|---|--------------|---|-----------|------------------------|---------------|--------------|------------------|
| 1. Custody Seal(s) | Present / <u>Absent</u> Intact / Broken* | | | EFF | 3x2V H2O2 250p H2O2 | ✓ J | 7/22 ↓ | |
| 2. Chain-of-Custody | <u>Present</u> / Absent* | | | | | | | |
| 3. Traffic Reports or Packing List: | Present / <u>Absent</u> | | | | | | | |
| 4. Airbill: | Airbill / <u>Sticker</u> Present / Absent | | | | | | | |
| 5. Airbill #: | | | | | | | | |
| 6. Sample Labels: | <u>Present</u> / Absent | | | | | | | |
| 7. Sample IDs: | <u>Listed</u> / Not Listed on Chain-of-Custody | | | | | | | |
| 8. Sample Condition: | <u>Intact</u> / Broken* / Leaking* | | | | | | | |
| 9. Does information on custody reports, traffic reports and sample labels agree? | <u>Yes</u> / No* | | | | | | | |
| 10. Sample received within hold time: | <u>Yes</u> / No* | | | | | | | |
| 11. Proper Preservatives used: | <u>Yes</u> / No* | | | | | | | |
| 12. Temp Rec. at Lab: (Acceptance range for samples requiring thermal pres.: 1-2°C) | <u>48</u> <u>Yes</u> / No* | | | | | | | |

*If Circled, contact Project Manager and attach record of resolution.

ATTACHMENT B

OPERATION AND MAINTENANCE FIELD LOGS

Date: 7/8/04

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
38486314.01.041
August 14, 2003

System Description:

| Well | Type | Size | Control | Set Depth (TOB) |
|------|----------|------|---------|-----------------|
| E-1A | Electric | 3" | panel | 23.9' |

Carbon Vessels: Three ASC-2.400
 Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Operating (if no, specify reason in comments)

| | | | |
|----------------------------------|--------------------|----------------------------|----------------|
| ELECTRIC METER READING (kwh hrs) | <u>48710 kwhrs</u> | HOURLY METER READING (hrs) | <u>13714.7</u> |
| | | Time: | <u>0830</u> |

| MEASUREMENT | ON ARRIVAL | ON DEPARTURE |
|---------------------------------|------------------|-----------------------------|
| TOTALIZER (gallons) | <u>3,708,440</u> | <u>3708450</u> |
| FILTER INLET PRESSURE (psig) | <u>11</u> | (ideal range: 8 to 12 psig) |
| CARBON #1 INLET PRESSURE (psig) | <u>8.5 / 8.0</u> | (ideal range: 5 to 9 psig) |
| CARBON #2 INLET PRESSURE (psig) | <u>5</u> | (ideal range: 1 to 4 psig) |
| DISCHARGE PRESSURE (psig) | <u>1.0</u> | (ideal range: 0 to 2 psig) |

PART B: COMMENTS Arrived on-site 0830

Departed site 0900

Alarm Interlocks Total: Pad Flood o.k.

High Tank Pressure (Shut-off at 20 psi) o.k.

Emergency Stop Switch: o.k.

Replaced Bag Filter - 10 micron EX

System Averaging 2,039 gallons/day.

RECEIVED

N:\Projects\IT\ARCO\809628\O&M>DataSheet\GWS JUL 08 2004

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07/08/04

PART C: WELL DATA (Monthly)

* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

| WELL | DTW (TOB) | TOTALIZER (gallons) | FLOWRATE (gpm) | COMMENTS/ ADJUSTMENTS |
|--------|-----------|------------------------|-------------------|--------------------------|
| E-1A | | | | |
| UST-A | | N/A | N/A | |
| UST-B | | N/A | N/A | |
| SPI-V4 | | N/A | N/A | |

PART D: SAMPLING (Monthly)

To be completed 7/22/04

COMPLETED

| SAMPLE | ANALYSIS | COMPLETED |
|----------|--|-----------|
| INFLUENT | TPH-gasoline, BTEX compounds, MIBE | |
| EFFLUENT | TPH-gasoline, BTEX compounds, MIBE COD, TSS | |
| MID-1 | TPH-gasoline, BTEX compounds, MIBE | |
| MID-2 | TPH-gasoline, BTEX compounds, MIBE | |

PART E: READINGS (Monthly)

To be completed 7/22/04

| EFFLUENT | TEMP (°F) | CONDUCTIVITY (umhos) | pH (units) | DISSOLVED OXYGEN (ppm) |
|----------|-----------|----------------------|------------|---------------------------|
| | | | | |

PART F: SYSTEM MAINTENANCE I (Monthly)

| | | | |
|----------------------------------|-----|--|-----|
| NUMBER OF SPARE FILTERS ON SITE? | 0 | CHANGE FILTERS? (if necessary) | Yes |
| PUMP AMP DRAW | N/A | H2O2 injection well EA-1 (if necessary) | N/A |
| SWEEP ENCLOSURE | No | | |

PART G: SYSTEM MAINTENANCE II (Quarterly)

| | | | |
|---------------------|-----|-------------------|-----|
| TEST ALARM SWITCHES | Yes | BACKFLUSH CARBONS | N/A |
| CLEAN TOTALIZERS | Yes | | |

Date: 7/22/04

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
38486314.0L041
August 14, 2003

System Description:

| Groundwater Pumps | | | | |
|-------------------|----------|------|---------|-----------------|
| Well | Type | Size | Control | Set Depth (TOB) |
| E-1A | Electric | 3" | panel | 23.9' |

Carbon Vessels: Three ASC-2.400
 Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Operating (if no, specify reason in comments)

| | | | |
|------------------------------------|-------|-----------------------------|---------|
| ELECTRIC METER READING (kw hrs) | 38887 | HOUR METER READING (hrs) | 14050.1 |
| | | Time: | 0800 |

| MEASUREMENT | ON ARRIVAL | ON DEPARTURE |
|---------------------------------|--------------------------|-----------------------------|
| TOTALIZER (gallons) | 3736245 | 3,736,322 |
| FILTER INLET PRESSURE (psig) | 10 | (ideal range: 8 to 12 psig) |
| CARBON #1 INLET PRESSURE (psig) | 8.2 / 17.5 ^{#2} | (ideal range: 5 to 9 psig) |
| CARBON #2 INLET PRESSURE (psig) | 4.5 | (ideal range: 1 to 4 psig) |
| DISCHARGE PRESSURE (psig) | 0 | (ideal range: 0 to 2 psig) |

PART B: COMMENTS

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 07/23/04

PART C: WELL DATA (Monthly)

* ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS

| WELL | DTW (TOB) | TOTALIZER (gallons) | FLOWRATE (gpm) | COMMENTS/ ADJUSTMENTS |
|--------|-----------|------------------------|-------------------|--------------------------|
| E-1A | | | | |
| UST-A | | N/A | N/A | |
| UST-B | | N/A | N/A | |
| SP1-V4 | | N/A | N/A | |

PART D: SAMPLING (Monthly)

| SAMPLE | ANALYSIS | COMPLETED |
|----------|--|-----------|
| INFLUENT | TPH-gasoline, BTEX compounds, MtBE | 7/22 |
| EFFLUENT | TPH-gasoline, BTEX compounds, MtBE COD, TSS | 7/22 |
| MID-1 | TPH-gasoline, BTEX compounds, MtBE | 7/22 |
| MID-2 | TPH-gasoline, BTEX compounds, MtBE | 7/22 |

PART E: READINGS (Monthly)

| EFFLUENT | TEMP (°F) | CONDUCTIVITY (umhos) | pH (units) | DISSOLVED OXYGEN (ppm) |
|----------|-----------|----------------------|------------|---------------------------|
| | 19.4°C | 887µS | 6.81 | 1.09 |

PART F: SYSTEM MAINTENANCE I (Monthly)

| NUMBER OF SPARE FILTERS ON SITE? | CHANGE FILTERS? (if necessary) |
|-------------------------------------|--|
| 0 | N/A |
| N/A | H202 injection well EA-1 (if necessary) |
| N/A | |

PART G: SYSTEM MAINTENANCE II (Quarterly)

| TEST ALARM SWITCHES | BACKFLUSH CARBONS |
|------------------------|----------------------|
| Yes | N/A |
| Yes | |



Chain of Custody Record

Project Name Station 608 -18501 Hesperian Blvd, San Lorenzo, CA
 Business Unit Atlantic Richfield Company/Northern CA Portfolio
 BP Laboratory Contract Number: 4 6 1 0 0 0

Date: 7/22/04

Requested Due Date: 8/5/04
 (mm/dd/yy - 2 weeks from sampling date)

On-site Time: 0730 Temp: 68
 Off-site Time: 0910 Temp: 70
 Sky Conditions: *Clear*
 Meteorological Events: *None*
 Wind Speed: *N/A* Direction: *N/A*

| | | |
|-------------------------------------|--|--|
| Send To: | BP/GEM Facility No.: Station 608 | Consultant: URS Oakland |
| Lab Name: STL - SF | BP/GEM Facility Address: 18501 Hesperian Blvd, San Lorenzo, CA | Address: 500 12th Street, #200 |
| Lab Address: 1220 Quarry Lane | Site ID No. Station 608 | Oakland, CA 94607 |
| Pleasanton, CA 94566 | California Global ID #: T0600101665 | e-mail EDD: Scott.Robinson@URSCorp.com |
| | BP/GEM PM Contact: Paul Supple | Consultant Project No.: J8486314.0L041 |
| Lab PM: Afsaneh Salimpour | Address: P.O. Box 6549, Moraga, CA 94570 | Consultant Tele/Fax: 510-874-3280/510-874-3268 |
| Tele/Fax: 925.484.1919/925.484.1096 | Tele/Fax: 925-299-8891/925-299-8872 | Consultant PM: Scott Robinson |
| Report Type & QC Level: Normal | | Invoice to: Atlantic Richfield Company |
| BP/GEM Account No.: | | BP/GEM Work Release No: |

| Item No. | Field Point ID | Sample ID | 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 | ORO (8260) | BTEX (8260) | MTBE (8260) | COD | TSS | Fuel Oxy. (8260) | | | | |
| 1 | INFL | INFL | 0815 | X | | | | 3 | | | | | X | X | X | | | X | | | | | |
| 2 | MID-1 | MID-1 | 0810 | X | | | | 3 | | | | | X | X | X | | | X | | | | | |
| 3 | MID-2 | MID-2 | 0805 | X | | | | 3 | | | | | X | X | X | | | X | | | | | |
| 4 | BFPL | BFPL | 0800 | X | | | | 7 | X | X | | | X | X | X | X | X | X | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|--|---|----------------------------------|---|----------------------|-------------------|
| Sampler's Name: <i>George Bradshaw</i> | Relinquished By / Affiliation: <i>[Signature]</i> | Date / Time: <i>7/22/04 1510</i> | Accepted By / Affiliation: <i>[Signature] STL-SAC</i> | Date: <i>7/22/04</i> | Time: <i>1510</i> |
| Sampler's Company: URS Oakland | | | | | |
| Shipment Date: <i>7/22/04</i> | | | | | |
| Shipment Method: Hand Deliver - <i>SAC</i> | | | | | |
| Shipment Tracking No: | | | | | |

Special Instructions: COD = Chemical Oxygen Demand (3 VOS's w/ H₂SO₄), TSS = Total Suspended Solids (1 Liter poly unpreserved)

Custody Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt Trip Blank Yes No