RO-434

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September 30, 2004

Mr. Bob Schultz
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Subject: Quarterly Groundwater Monitoring Report – Third Quarter 2004
Tesoro No. 67076 (Former Beacon Station No. 3604)
1619 First Street, Livermore, California
Delta Project No. D004-076

Dear Mr. Schultz:

Delta Environmental Consultants, Inc. (Delta) has been authorized by Tesoro Environmental Resources Company (Tesoro) to perform quarterly groundwater monitoring at the site (Former Beacon Station No. 3604) located at 1619 First Street, Livermore, California (Figure 1).

Quarterly Groundwater Monitoring

Delta measured depth to groundwater and collected samples in monitoring wells MW-1 through MW-10 on August 4, 2004. Field data forms are presented in Enclosure A. Depth measurements were obtained using an electronic water-level indicator and recorded to the nearest 0.01-foot. The water-level indicator was cleaned with a solution of non-phosphate detergent and de-ionized water, and rinsed before each use. Groundwater elevation data are presented in Table 1 and inferred groundwater elevation contours are presented on Figure 2. Depth to groundwater ranged from 37.47 feet (MW-9) to 34.06 feet (MW-7) below the top of well casing. Based on ground water elevation data computed from depth to water measurements in wells, the groundwater flow direction across the site was inferred to be west-northwest with an approximate gradient of 0.015.

Groundwater monitoring wells MW-2 and MW-5 through MW-10 and vapor extraction wells VW-2 and VW-3 were sampled on August 4, 2004. Samples from these wells were analyzed for total petroleum hydrocarbons (TPH) in the gasoline range, benzene, toluene, ethylbenzene, xylenes (BTEX), and oxygenates including methyl tertiary butyl ether (MTBE) and tertiary butyl alcohol (TBA), using EPA Test Method 8260B. Kiff Analytical Labs, Inc. (Kiff Analytical) of Davis, California, a California state-certified laboratory, performed the chemical analyses. The Kiff Analytical laboratory report, including chain-of-custody documentation, is included as Enclosure B.

Mr. Bob Schultz
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
September 30, 2004

Laboratory analyses results for the third quarter 2004 sampling event are presented in Table 1, and TPH in the gasoline range, benzene, MTBE, and TBA concentrations are shown on Figure 3.

Remarks

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

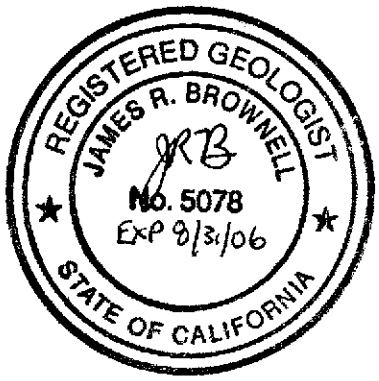
Please contact Jim Brownell at (916) 638-2765 if you have any questions.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Jason M. Mata
Staff Technician

James R. Brownell, R.G.
California Registered Geologist No. 5078




JMM
Enclosures
cc: Mr. Jeff Baker, Tesoro Petroleum Company
Mr. Chuck Miller, Green Valley Gasoline, LLC
Mr. Brian Kelleher, Kelleher and Associates
Ms. Bettie Graham, Regional Water Quality Control Board, San Francisco Bay Region

Table 1
Groundwater Analytical Data
Tesoro Site No. 67076
Delta Project No. D004-076

| Well | Sample Collection Date | Casing Elevation (msl) | Depth to Water (feet) | Water Table Elevation (msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Methanol (µg/L) | Ethanol (µg/L) | 1,2 DCA (µg/L) | 1,2 DBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 6/1/1993 | 100.00 | 37.50 | 62.50 | 27000 | 2200 | 400 | <0.50 | 4900 | - | - | - | - | - | - | - | - | - |
| MW-1 | 6/22/1993 | 100.00 | 38.46 | 61.54 | 87000 | 8000 | 10000 | 260 | 10000 | - | - | - | - | - | - | - | - | - |
| MW-1 | 10/6/1993 | 100.00 | 42.22 | 57.78 | 40000 | 4700 | 6500 | 740 | 5300 | - | - | - | - | - | - | - | - | - |
| MW-1 | 1/13/1994 | 100.00 | 34.52 | 65.48 | 9400 | 1300 | 9500 | 110 | 850 | - | - | - | - | - | - | - | - | - |
| MW-1 | 3/30/1994 | 100.00 | 31.93 | 68.07 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 4/25/1994 | 100.00 | 33.49 | 66.51 | 11000 | 1500 | 1800 | 290 | 1700 | - | - | - | - | - | - | - | - | - |
| MW-1 | 8/12/1994 | 100.00 | 41.03 | 58.97 | 11000 | 550 | 330 | 260 | 1400 | - | - | - | - | - | - | - | - | - |
| MW-1 | 12/14/1994 | 100.00 | 38.63 | 61.37 | 11000 | 1000 | 1200 | 320 | 1500 | - | - | - | - | - | - | - | - | - |
| MW-1 | 2/10/1995 | 100.00 | 30.80 | 69.20 | 9300 | 1200 | 1500 | 280 | 1500 | - | - | - | - | - | - | - | - | - |
| MW-1 | 6/15/1995 | 100.00 | 25.46 | 74.54 | 140 | 5.6 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-1 | 9/26/1995 | 100.00 | 31.05 | 68.95 | 410 | 140 | <0.50 | <0.50 | 43 | - | - | - | - | - | - | - | - | - |
| MW-1 | 12/15/1995 | 100.00 | 28.11 | 71.89 | 740 | 250 | <1.3 | <1.3 | 87 | - | - | - | - | - | - | - | - | - |
| MW-1 | 3/21/1996 | 100.00 | 17.67 | 82.33 | <50 | 0.52 | <0.50 | <0.50 | 0.51 | - | - | - | - | - | - | - | - | - |
| MW-1 | 6/13/1996 | 100.00 | 22.86 | 77.14 | 240 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-1 | 9/16/1996 | 100.00 | 30.04 | 69.96 | 720 | 70 | <0.50 | 1.0 | 5.1 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 12/2/1996 | 100.00 | 26.74 | 73.26 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 3/7/1997 | 100.00 | 20.84 | 79.16 | 600 | 6.7 | <0.50 | 1.2 | 1.8 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 6/12/1997 | 100.00 | 28.71 | 71.29 | 18000 | 180 | 800 | 410 | 1800 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 9/29/1997 | 100.00 | 33.91 | 66.09 | 350 | 120 | 1.5 | <0.50 | 12 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 12/1/1997 | 100.00 | 34.88 | 65.12 | <50 | 7.0 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 3/19/1998 | 100.00 | 19.83 | 80.17 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 5/29/1998 | 100.00 | 21.57 | 78.43 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 9/15/1998 | 100.00 | 31.68 | 68.32 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 11/30/1998 | 100.00 | 36.80 | 63.20 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 1/17/1999 | 100.00 | 30.02 | 69.98 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 6/10/1999 | 100.00 | 29.30 | 70.70 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 9/7/1999 | 100.00 | 31.41 | 68.59 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 12/13/1999 | 100.00 | 32.95 | 67.05 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 3/13/2000 | 100.00 | 25.74 | 74.26 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 6/12/2000 | 100.00 | 28.24 | 71.76 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-1 | 11/10/2000 | 100.00 | 30.56 | 69.44 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - |
| MW-1 | 12/31/2000 | 100.00 | 31.71 | 68.29 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - |
| MW-1 | 3/27/2001 | 100.00 | 30.43 | 69.57 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - |
| MW-1 | 6/30/2001 | 100.00 | 36.61 | 63.39 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - |
| MW-1 | 9/26/2001 | 100.00 | 45.10 | 54.90 | 90 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - |
| MW-1 | 12/18/2001 | 100.00 | 39.39 | 60.61 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - |
| MW-1 | 1/22/2002 | 483.58 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 3/18/2002 | 483.58 | 38.24 | 445.34 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 6/5/2002 | 483.58 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 8/21/2002 | 483.58 | 36.71 | 446.87 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 12/3/2002 | 483.58 | 36.85 | 446.73 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 3/4/2003 | 483.58 | 33.72 | 449.86 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 6/10/2003 | 483.58 | 31.31 | 452.27 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 9/9/2003 | 483.58 | 35.05 | 448.53 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 12/23/2003 | 483.58 | 30.15 | 453.43 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 1
Groundwater Analytical Data
Tesoro Site No. 67076
Delta Project No. D004-076

| Well | Sample Collection Date | Casing Elevation (msl) | Depth to Water (feet) | Water Table Elevation (msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Methanol (µg/L) | Ethanol (µg/L) | 1,2 DCA (µg/L) | 1,2 DBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 3/23/2004 | 483.58 | 26.61 | 456.97 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 5/10/2004 | 483.58 | 30.31 | 453.27 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-1 | 8/4/2004 | 483.58 | 34.77 | 448.81 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 6/1/1993 | 98.68 | 38.02 | 60.66 | 170000 | 20000 | 21000 | 3300 | 18000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 6/22/1993 | 98.68 | 39.07 | 59.61 | 160000 | 19000 | 22000 | 3500 | 18000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 10/6/093 | 98.68 | 43.72 | 54.96 | 110000 | 17000 | 17000 | 3000 | 15000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 1/13/1994 | 98.68 | 35.85 | 62.83 | 93000 | 20000 | 19000 | 2300 | 14000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 3/30/1994 | 98.68 | 32.82 | 65.86 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 4/25/1994 | 98.68 | 34.76 | 63.92 | 41000 | 9600 | 7300 | 840 | 7800 | - | - | - | - | - | - | - | - | - |
| MW-2 | 8/12/1994 | 98.68 | 44.33 | 54.35 | 59000 | 11000 | 11000 | 2300 | 11000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 12/14/1994 | 98.68 | 40.00 | 58.68 | 63000 | 13000 | 13000 | 2200 | 12000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 2/10/1995 | 98.68 | 32.16 | 66.52 | 63000 | 12000 | 12000 | 2200 | 11000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 6/15/1995 | 98.68 | 25.93 | 72.75 | 61000 | 11000 | 12000 | 1900 | 11000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 9/26/1995 | 98.68 | 32.42 | 66.26 | 61000 | 9400 | 11000 | 2300 | 12000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 12/15/1995 | 98.68 | 29.41 | 69.27 | 48000 | 8000 | 8300 | 2200 | 12000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 3/21/1996 | 98.68 | 17.47 | 81.21 | 48000 | 8000 | 7700 | 2400 | 12000 | - | - | - | - | - | - | - | - | - |
| MW-2 | 6/13/1996 | 98.68 | 23.69 | 74.99 | 33000 | 7300 | 8800 | 1900 | 12000 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 9/16/1996 | 98.68 | 31.24 | 67.44 | 8600 | 510 | 640 | 180 | 1300 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 12/2/1996 | 98.68 | 26.90 | 71.78 | 29000 | 4400 | 4000 | 1300 | 6100 | <130 | - | - | - | - | - | - | - | - |
| MW-2 | 3/7/1997 | 98.68 | 21.33 | 77.35 | 13000 | 1800 | 1100 | 270 | 2000 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 6/12/1997 | 98.68 | 29.94 | 68.74 | 68000 | 7800 | 6600 | 2300 | 11000 | <500 | - | - | - | - | - | - | - | - |
| MW-2 | 9/29/1997 | 98.68 | 34.22 | 64.46 | 15000 | 1500 | 97 | 740 | 1800 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 12/1/1997 | 98.68 | 35.94 | 62.74 | 13000 | 900 | 37 | 860 | 2400 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 3/19/1998 | 98.68 | 20.34 | 78.34 | 42000 | 5000 | 3600 | 2000 | 8300 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 5/29/1998 | 98.68 | 22.63 | 76.05 | 68000 | 5600 | 4700 | 2400 | 11000 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 9/15/1998 | 98.68 | 32.30 | 66.38 | 36000 | 3900 | 1200 | 1400 | 7800 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 11/30/1998 | 98.68 | 36.90 | 61.78 | 16000 | 2200 | 59 | 1200 | 1500 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 1/17/1999 | 98.68 | 30.17 | 68.51 | 30000 | 4000 | 2200 | 2100 | 9500 | <250 | - | - | - | - | - | - | - | - |
| MW-2 | 6/10/1999 | 98.68 | 29.98 | 68.70 | 70000 | 6300 | 1800 | 3600 | 14000 | <500 | - | - | - | - | - | - | - | - |
| MW-2 | 9/7/1999 | 98.68 | 31.85 | 66.83 | 42000 | 3800 | 840 | 1900 | 8000 | 150 | - | - | - | - | - | - | - | - |
| MW-2 | 12/13/1999 | 98.68 | 33.72 | 64.96 | 14000 | 1400 | 87 | 690 | 110 | 34 | - | - | - | - | - | - | - | - |
| MW-2 | 3/13/2000 | 98.68 | 26.54 | 72.14 | 38000 | 2400 | 2300 | 1600 | 6400 | 2400 | - | - | - | - | - | - | - | - |
| MW-2 | 6/12/2000 | 98.68 | 28.44 | 70.24 | 56000 | 4000 | 950 | 2300 | 7200 | <50 | - | - | - | - | - | - | - | - |
| MW-2 | 11/10/2000 | 98.68 | 31.31 | 67.37 | 35000 | 5100 | 850 | 1500 | 3200 | 230 | - | - | - | - | - | - | - | - |
| MW-2 | 12/31/2000 | 98.68 | 32.68 | 66.00 | 21000 | 3200 | 420 | 1300 | 1200 | 440 | - | - | - | - | - | - | - | - |
| MW-2 | 3/27/2001 | 98.68 | 30.81 | 67.87 | 3500 | 420 | 64 | 16 | 280 | 120 | - | - | - | - | - | - | - | - |
| MW-2 | 6/30/2001 | 98.68 | 37.58 | 61.10 | 1200 | 88 | 4.5 | 65 | 37 | 29 | - | - | - | - | - | - | - | - |
| MW-2 | 9/26/2001 | 98.68 | 44.97 | 53.71 | 53000 | 8500 | 1500 | 2400 | 4600 | 270 | - | - | - | - | - | - | - | - |
| MW-2 | 12/18/2001 | 98.68 | 40.67 | 58.01 | 26000 | 5400 | 900 | 1500 | 2200 | 430 | - | - | - | - | - | - | - | - |
| MW-2 | 1/22/2002 | 482.77 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 | 3/18/2002 | 482.77 | 38.94 | 443.83 | 4200 | 240 | 7.3 | 200 | 53 | 89 | - | - | - | - | - | - | - | - |
| MW-2 | 6/5/2002 | 482.77 | 36.45 | 446.32 | 25000 | 3500 | 390 | 1400 | 2400 | 550 | - | - | - | - | - | - | - | - |
| MW-2 | 8/21/2002 | 482.77 | 37.15 | 445.62 | 10000 | 1200 | 32 | 620 | 300 | 160 | - | - | - | - | - | - | - | - |
| MW-2 | 12/3/2002 | 482.77 | 36.76 | 446.01 | 3700 | 110 | 2.5 | 130 | 11 | 29 | - | - | - | - | - | - | - | - |

Table 1
Groundwater Analytical Data
Tesoro Site No. 67076
Delta Project No. D004-076

| Well | Sample Collection Date | Casing Elevation (msl) | Depth to Water (feet) | Water Table Elevation (msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Methanol (µg/L) | Ethanol (µg/L) | 1,2 DCA (µg/L) | 1,2 DBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 3/4/2003 | 482.77 | 33.60 | 449.17 | 8700 | 1100 | 77.0 | 350 | 540 | 230 | <0.50 | <0.50 | <10 | 21 | <150 | <5.0 | <0.50 | <0.50 |
| MW-2 | 6/10/2003 | 482.77 | 32.89 | 449.88 | 6300 | 660 | 35.0 | 190 | 120 | 410 | <2.5 | <2.5 | <5.0 | <25 | <250 | <25 | <2.5 | <2.5 |
| MW-2 | 9/9/2003 | 482.77 | 35.45 | 447.32 | 6900 | 500 | <20 | 360 | 29 | 9500 | <20 | <20 | 60 | <200 | <2000 | <200 | <20 | <20 |
| MW-2 | 12/23/2003 | 482.77 | 31.79 | 450.98 | 22000 | 4900 | 1300 | 720 | 2300 | 1700 | <20 | <20 | 21 | <200 | <2000 | <200 | <20 | <20 |
| MW-2 | 3/23/2004 | 482.77 | 28.25 | 454.52 | 45000 | 5200 | 1500 | 1800 | 5000 | 750 | <20 | <20 | 34 | <200 | <2000 | <200 | <20 | <20 |
| MW-2 | 5/10/2004 | 482.77 | 30.91 | 451.86 | 7300 | 1000 | 51 | 240 | 290 | 1800 | <5.0 | <5.0 | 14 | <50 | <500 | <50 | <5.0 | <5.0 |
| MW-2 | 8/4/2004 | 482.77 | 35.36 | 447.41 | 45000 | 7200 | 1900 | 1800 | 5100 | 2500 | <25 | <25 | 31 | <250 | <2500 | <250 | <25 | <25 |
| MW-3 | 6/1/1993 | 97.08 | 36.18 | 60.90 | 270 | 4.6 | <0.50 | <0.50 | 1.9 | - | - | - | - | - | - | - | - | - |
| MW-3 | 6/22/1993 | 97.08 | 37.11 | 59.97 | 160 | 8.2 | <0.50 | <0.50 | 0.72 | - | - | - | - | - | - | - | - | - |
| MW-3 | 10/6/093 | 97.08 | 41.15 | 55.93 | 740 | 57 | 110 | 24 | 120 | - | - | - | - | - | - | - | - | - |
| MW-3 | 1/13/1994 | 97.08 | 33.95 | 63.13 | 83 | 2.6 | 0.67 | 0.78 | 4.2 | - | - | - | - | - | - | - | - | - |
| MW-3 | 3/30/1994 | 97.08 | 30.97 | 66.11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 4/25/1994 | 97.08 | 32.46 | 64.62 | 60 | 0.75 | 3.2 | 0.50 | 3.6 | - | - | - | - | - | - | - | - | - |
| MW-3 | 8/12/1994 | 97.08 | 41.72 | 55.36 | 310 | 7.3 | 14 | 2.6 | 13 | - | - | - | - | - | - | - | - | - |
| MW-3 | 12/14/1994 | 97.08 | 37.62 | 59.46 | 75 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-3 | 2/10/1995 | 97.08 | 29.96 | 67.12 | 96 | 1.4 | <0.50 | <0.50 | 1.8 | - | - | - | - | - | - | - | - | - |
| MW-3 | 6/15/1995 | 97.08 | 23.66 | 73.42 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-3 | 9/26/1995 | 97.08 | 29.62 | 67.46 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-3 | 12/15/1995 | 97.08 | 27.10 | 69.98 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-3 | 3/21/1996 | 97.08 | 15.85 | 81.23 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 6/13/1996 | 97.08 | 21.31 | 75.77 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 9/16/1996 | 97.08 | 28.62 | 68.46 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 12/2/1996 | 97.08 | 25.55 | 71.53 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 3/7/1997 | 97.08 | 19.77 | 77.31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 6/12/1997 | 97.08 | 27.67 | 69.41 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 9/29/1997 | 97.08 | 29.60 | 67.48 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 12/1/1997 | 97.08 | 33.37 | 63.71 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 3/19/1998 | 97.08 | 18.76 | 78.32 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 5/29/1998 | 97.08 | 20.64 | 76.44 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 9/15/1998 | 97.08 | 30.70 | 66.38 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 11/30/1998 | 97.08 | 34.96 | 62.12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 1/17/1999 | 97.08 | 28.81 | 68.27 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 6/10/1999 | 97.08 | 28.10 | 68.98 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 9/7/1999 | 97.08 | 30.38 | 66.70 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 12/13/1999 | 97.08 | 31.46 | 65.62 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 3/13/2000 | 97.08 | 24.28 | 72.80 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 6/12/2000 | 97.08 | 26.80 | 70.28 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 11/10/2000 | 97.08 | 29.47 | 67.61 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 12/31/2000 | 97.08 | 31.38 | 65.70 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 3/27/2001 | 97.08 | 29.94 | 67.14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 6/30/2001 | 97.08 | 37.54 | 59.54 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 9/26/2001 | 97.08 | 45.17 | 51.91 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 12/18/2001 | 97.08 | 39.41 | 57.67 | - | - | - | - | - | | - | - | - | - | - | - | - | - |
| MW-3 | 1/22/2002 | 482.66 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 1
Groundwater Analytical Data
Tesoro Site No. 67076
Delta Project No. D004-076

| Well | Sample Collection Date | Casing Elevation (msl) | Depth to Water (feet) | Water Table Elevation (msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Methanol (µg/L) | Ethanol (µg/L) | 1,2 DCA (µg/L) | 1,2 DBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 3/18/2002 | 482.66 | 37.73 | 444.93 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 6/5/2002 | 482.66 | 35.35 | 447.31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 8/21/2002 | 482.66 | 36.21 | 446.45 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 12/3/2002 | 482.66 | 35.92 | 446.74 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 3/4/2003 | 482.66 | 32.75 | 449.91 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 6/10/2003 | 482.66 | 31.26 | 451.40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 9/9/2003 | 482.66 | 34.72 | 447.94 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 12/23/2003 | 482.66 | 30.47 | 452.19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 3/23/2004 | 482.66 | 26.67 | 455.99 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 5/10/2004 | 482.66 | 30.25 | 452.41 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 8/4/2004 | 482.66 | 34.70 | 447.96 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 3/30/1994 | 99.35 | 31.56 | 67.79 | 120 | 4.2 | 15 | 2.5 | 26 | - | - | - | - | - | - | - | - | - |
| MW-4 | 4/25/1994 | 99.35 | 32.73 | 66.62 | 65 | <0.50 | 1.8 | <0.50 | 2.1 | - | - | - | - | - | - | - | - | - |
| MW-4 | 8/12/1994 | 99.35 | 41.61 | 57.74 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-4 | 12/14/1994 | 99.35 | 38.11 | 61.24 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-4 | 2/10/1995 | 99.35 | 30.50 | 68.85 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-4 | 6/15/1995 | 99.35 | 23.63 | 75.72 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-4 | 9/26/1995 | 99.35 | 29.70 | 69.65 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-4 | 12/15/1995 | 99.35 | 27.56 | 71.79 | <51 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-4 | 3/21/1996 | 99.35 | 15.63 | 83.72 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 6/13/1996 | 99.35 | 21.07 | 78.28 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 9/16/1996 | 99.35 | 28.99 | 70.36 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 12/2/1996 | 99.35 | 26.04 | 73.31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 3/7/1997 | 99.35 | 19.69 | 79.66 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 6/12/1997 | 99.35 | 28.04 | 71.31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 9/29/1997 | 99.35 | 29.91 | 69.44 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 12/1/1997 | 99.35 | 33.88 | 65.47 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 3/19/1998 | 99.35 | 18.67 | 80.68 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 5/29/1998 | 99.35 | 20.16 | 79.19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 9/15/1998 | 99.35 | 30.46 | 68.89 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 11/30/1998 | 99.35 | 34.50 | 64.85 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 1/17/1999 | 99.35 | 28.30 | 71.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 6/10/1999 | 99.35 | 27.60 | 71.75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 9/7/1999 | 99.35 | 30.79 | 68.56 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 12/13/1999 | 99.35 | 31.60 | 67.75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 3/13/2000 | 99.35 | 24.35 | 75.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 6/12/2000 | 99.35 | 26.91 | 72.44 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 11/10/2000 | 99.35 | 29.71 | 69.64 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 12/31/2000 | 99.35 | 31.79 | 67.56 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 3/27/2001 | 99.35 | 29.98 | 69.37 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 6/30/2001 | 99.35 | 36.88 | 62.47 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 9/26/2001 | 99.35 | 43.87 | 55.48 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 12/18/2001 | 99.35 | 39.30 | 60.05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 1/22/2002 | 482.93 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 1
Groundwater Analytical Data
Tesoro Site No. 67076
Delta Project No. D004-076

| Well | Sample Collection Date | Casing Elevation (msl) | Depth to Water (feet) | Water Table Elevation (msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Methanol (µg/L) | Ethanol (µg/L) | 1,2 DCA (µg/L) | 1,2 DBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4 | 3/18/2002 | 482.93 | 37.75 | 445.18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 6/5/2002 | 482.93 | 35.68 | 447.25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 8/21/2002 | 482.93 | 36.58 | 446.35 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 12/3/2002 | 482.93 | 35.90 | 447.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 3/4/2003 | 482.93 | 32.73 | 450.20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 6/10/2003 | 482.93 | 31.20 | 451.73 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 9/9/2003 | 482.93 | 34.64 | 448.29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 12/23/2003 | 482.93 | 31.30 | 451.63 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 3/23/2004 | 482.93 | 26.71 | 456.22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 5/10/2004 | 482.93 | 30.33 | 452.60 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-4 | 8/4/2004 | 482.93 | 34.87 | 448.06 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 3/30/1994 | 98.37 | 32.07 | 66.30 | 7500 | 1300 | 20 | <13 | 160 | - | - | - | - | - | - | - | - | - |
| MW-5 | 4/25/1994 | 98.37 | 33.65 | 64.72 | 6500 | 1100 | 41 | 130 | 740 | - | - | - | - | - | - | - | - | - |
| MW-5 | 8/12/1994 | 98.37 | 42.73 | 55.64 | 4000 | 420 | 2.9 | 41 | 98 | - | - | - | - | - | - | - | - | - |
| MW-5 | 12/14/1994 | 98.37 | 38.89 | 59.48 | 4800 | 660 | <2.5 | 33 | 13 | - | - | - | - | - | - | - | - | - |
| MW-5 | 2/10/1995 | 98.37 | 31.44 | 66.93 | 5200 | 490 | <13 | 23 | 19 | - | - | - | - | - | - | - | - | - |
| MW-5 | 6/15/1995 | 98.37 | 24.99 | 73.38 | 460 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-5 | 9/26/1995 | 98.37 | 30.20 | 68.17 | 1400 | 61 | <0.50 | 3.1 | <0.50 | - | - | - | - | - | - | - | - | - |
| MW-5 | 12/15/1995 | 98.37 | 28.56 | 69.81 | 2100 | 77 | 1.5 | 10 | 1.5 | - | - | - | - | - | - | - | - | - |
| MW-5 | 3/21/1996 | 98.37 | 16.82 | 81.55 | 930 | 35 | 2.0 | 2.0 | 18 | - | - | - | - | - | - | - | - | - |
| MW-5 | 6/13/1996 | 98.37 | 22.61 | 75.76 | 610 | 38 | 0.72 | 1.9 | 2.0 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 9/16/1996 | 98.37 | 29.78 | 68.59 | 380 | 29 | <0.50 | 0.95 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 12/2/1996 | 98.37 | 26.51 | 71.86 | 200 | 1.1 | 0.64 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 3/7/1997 | 98.37 | 21.91 | 76.46 | 520 | 74 | <0.50 | 0.58 | 1.5 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 6/12/1997 | 98.37 | - | - | 140 | 5.3 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 9/29/1997 | 98.37 | 31.74 | 66.63 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 12/1/1997 | 98.37 | 34.05 | 64.32 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 3/19/1998 | 98.37 | 20.93 | 77.44 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 5/29/1998 | 98.37 | 21.30 | 77.07 | 540 | 4.1 | <0.50 | <0.50 | 0.52 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 9/15/1998 | 98.37 | 31.32 | 67.05 | 67 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 11/30/1998 | 98.37 | 35.44 | 62.93 | 430 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 1/17/1999 | 98.37 | 29.59 | 68.78 | 500 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 6/10/1999 | 98.37 | 28.05 | 70.32 | 66 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 9/7/1999 | 98.37 | 31.11 | 67.26 | 820 | 46 | 1.7 | 10 | 21 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 12/13/1999 | 98.37 | 32.66 | 65.71 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 3/13/2000 | 98.37 | 25.87 | 72.50 | 270 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 6/12/2000 | 98.37 | 28.15 | 70.22 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - | - | - | - | - |
| MW-5 | 11/10/2000 | 98.37 | 30.05 | 68.32 | 2200 | 42 | 1.1 | 25 | 30 | 8.6 | - | - | - | - | - | - | - | - |
| MW-5 | 12/31/2000 | 98.37 | 31.81 | 66.56 | 1300 | 21 | <0.50 | 4.3 | 2.6 | 10 | - | - | - | - | - | - | - | - |
| MW-5 | 3/27/2001 | 98.37 | 30.57 | 67.80 | 1200 | 11 | <0.50 | 2.6 | <0.50 | 21 | - | - | - | - | - | - | - | - |
| MW-5 | 6/30/2001 | 98.37 | 37.24 | 61.13 | 1400 | 4.8 | <0.50 | 1.5 | 0.56 | 14 | - | - | - | - | - | - | - | - |
| MW-5 | 9/26/2001 | 98.37 | 44.53 | 53.84 | 660 | <0.50 | <0.50 | <0.50 | <0.50 | 3.0 | - | - | - | - | - | - | - | - |
| MW-5 | 12/18/2001 | 98.37 | 40.65 | 57.72 | 240 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - |
| MW-5 | 1/22/2002 | 481.94 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 1
Groundwater Analytical Data
Tesoro Site No. 67076
Delta Project No. D004-076

| Well | Sample Collection Date | Casing Elevation (msl) | Depth to Water (feet) | Water Table Elevation (msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Methanol (µg/L) | Ethanol (µg/L) | 1,2 DCA (µg/L) | 1,2 DBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5 | 3/18/2002 | 481.94 | 38.75 | 443.19 | 890 | 0.65 | <0.50 | <0.50 | <0.50 | 3.1 | - | - | - | - | - | - | - | - |
| MW-5 | 6/5/2002 | 481.94 | 36.21 | 445.73 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 8/21/2002 | 481.94 | 36.76 | 445.18 | 2100 | 20 | <0.50 | 63 | 4 | 7 | - | - | - | - | - | - | - | - |
| MW-5 | 12/3/2002 | 481.94 | 36.12 | 445.82 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 3/4/2003 | 481.94 | 32.90 | 449.04 | 490 | 10 | <0.50 | 2.2 | <0.50 | 1.0 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-5 | 6/10/2003 | 481.94 | 33.04 | 448.90 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 9/9/2003 | 481.94 | 34.20 | 447.74 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-5 | 12/23/2003 | 481.94 | 31.38 | 450.56 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 3/23/2004 | 481.94 | 27.51 | 454.43 | 440 | 2.3 | <0.50 | 1.0 | 5.9 | 2.4 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-5 | 5/10/2004 | 481.94 | 31.12 | 450.82 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-5 | 8/4/2004 | 481.94 | 35.09 | 446.85 | 160.0 | <0.05 | <0.05 | <0.05 | 0.71 | 0.94 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-6 | 3/30/1994 | 97.62 | 33.38 | 64.24 | 63000 | 21000 | 8600 | 1700 | 12000.0 | - | - | - | - | - | - | - | - | - |
| MW-6 | 4/25/1994 | 97.62 | 35.49 | 62.13 | 77000 | 22000 | 12000 | 2300 | 16000 | - | - | - | - | - | - | - | - | - |
| MW-6 | 8/12/1994 | 97.62 | 45.14 | 52.48 | 65000 | 12000 | 8100 | 2200 | 16000 | - | - | - | - | - | - | - | - | - |
| MW-6 | 12/14/1994 | 97.62 | 40.99 | 56.63 | 65000 | 18000 | 9500 | 2200 | 14000 | - | - | - | - | - | - | - | - | - |
| MW-6 | 2/10/1995 | 97.62 | 33.34 | 64.28 | 63000 | 21000 | 8400 | 2000 | 14000 | - | - | - | - | - | - | - | - | - |
| MW-6 | 6/15/1995 | 97.62 | 26.88 | 70.74 | 75000 | 20000 | 11000 | 2100 | 15000 | - | - | - | - | - | - | - | - | - |
| MW-6 | 9/26/1995 | 97.62 | 33.55 | 64.07 | 62000 | 15000 | 9600 | 1700 | 12000 | - | - | - | - | - | - | - | - | - |
| MW-6 | 12/15/1995 | 97.62 | 30.32 | 67.30 | 61000 | 15000 | 9000 | 2300 | 15000 | - | - | - | - | - | - | - | - | - |
| MW-6 | 3/21/1996 | 97.62 | 18.89 | 78.73 | 65000 | 18000 | 9800 | 2400 | 16000 | - | - | - | - | - | - | - | - | - |
| MW-6 | 6/13/1996 | 97.62 | 24.62 | 73.00 | 29000 | 8600 | 3300 | 2200 | 12000 | <250 | - | - | - | - | - | - | - | - |
| MW-6 | 9/16/1996 | 97.62 | 32.64 | 64.98 | 42000 | 6400 | 1800 | 2100 | 11000 | <250 | - | - | - | - | - | - | - | - |
| MW-6 | 12/2/1996 | 97.62 | 27.42 | 70.20 | 28000 | 3000 | 1100 | 970 | 8300 | <500 | - | - | - | - | - | - | - | - |
| MW-6 | 3/7/1997 | 97.62 | 22.13 | 75.49 | 12000 | 2000 | 190 | 520 | 2300 | <250 | - | - | - | - | - | - | - | - |
| MW-6 | 6/12/1997 | 97.62 | 31.02 | 66.60 | 37000 | 3900 | 470 | 1600 | 6200 | <100 | - | - | - | - | - | - | - | - |
| MW-6 | 9/29/1997 | 97.62 | 35.77 | 61.85 | 34000 | 3500 | 370 | 1600 | 5200 | <100 | - | - | - | - | - | - | - | - |
| MW-6 | 12/1/1997 | 97.62 | 37.14 | 60.48 | 20000 | 2100 | <10 | 1200 | 2200 | <100 | - | - | - | - | - | - | - | - |
| MW-6 | 3/19/1998 | 97.62 | 21.10 | 76.52 | 24000 | 2900 | 460 | 1100 | 3400 | <100 | - | - | - | - | - | - | - | - |
| MW-6 | 5/29/1998 | 97.62 | 23.26 | 74.36 | 38000 | 3500 | 700 | 1800 | 5200 | <100 | - | - | - | - | - | - | - | - |
| MW-6 | 9/15/1998 | 97.62 | 33.50 | 64.12 | 22000 | 1900 | 110 | 1400 | 3000 | <100 | - | - | - | - | - | - | - | - |
| MW-6 | 11/30/1998 | 97.62 | 38.73 | 58.89 | 9900 | 770 | 16 | 820 | 710 | <100 | - | - | - | - | - | - | - | - |
| MW-6 | 1/17/1999 | 97.62 | 32.05 | 65.57 | 14000 | 2200 | 160 | 1700 | 3600 | <100 | - | - | - | - | - | - | - | - |
| MW-6 | 6/10/1999 | 97.62 | 31.44 | 66.18 | 22000 | 1600 | 160 | 1400 | 2900 | 5.5 | - | - | - | - | - | - | - | - |
| MW-6 | 9/7/1999 | 97.62 | 33.94 | 63.68 | 17000 | 1400 | 33 | 1300 | 1800 | <50 | - | - | - | - | - | - | - | - |
| MW-6 | 12/13/1999 | 97.62 | 35.84 | 61.78 | 16000 | 790 | 9.2 | 840 | 780 | <25 | - | - | - | - | - | - | - | - |
| MW-6 | 3/13/2000 | 97.62 | 28.45 | 69.17 | 16000 | 790 | 85 | 780 | 1600 | <25 | - | - | - | - | - | - | - | - |
| MW-6 | 6/12/2000 | 97.62 | 30.52 | 67.10 | 24000 | 1100 | 150 | 1300 | 2300 | 5600 | - | - | - | - | - | - | - | - |
| MW-6 | 11/10/2000 | 97.62 | 32.99 | 64.63 | 13000 | 440 | 6.6 | 760 | 350 | 1000 | - | - | - | - | - | - | - | - |
| MW-6 | 12/31/2000 | 97.62 | 34.95 | 62.67 | 12000 | 680 | 7.6 | 820 | 190 | 1400 | - | - | - | - | - | - | - | - |
| MW-6 | 3/27/2001 | 97.62 | 32.72 | 64.90 | 14000 | 330 | 17 | 940 | 670 | 380 | - | - | - | - | - | - | - | - |
| MW-6 | 6/30/2001 | 97.62 | 39.86 | 57.76 | 750 | 45 | 0.93 | 47 | 14 | 54 | - | - | - | - | - | - | - | - |
| MW-6 | 9/26/2001 | 97.62 | Dry | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-6 | 12/18/2001 | 97.62 | 43.36 | 54.26 | 43000 | 3800 | 350 | 1900 | 3000 | 900 | - | - | - | - | - | - | - | - |
| MW-6 | 1/22/2002 | 481.20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 1
Groundwater Analytical Data
Tesoro Site No. 67076
Delta Project No. D004-076

| Well | Sample Collection Date | Casing Elevation (msl) | Depth to Water (feet) | Water Table Elevation (msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Methanol (µg/L) | Ethanol (µg/L) | 1,2 DCA (µg/L) | 1,2 DBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-6 | 3/18/2002 | 481.20 | 41.29 | 439.91 | 33000 | 2600 | 120 | 1800 | 2800 | 740 | - | - | - | - | - | - | - | - |
| MW-6 | 6/5/2002 | 481.20 | 38.35 | 442.85 | 10000 | 1100 | 16 | 700 | 180 | 600 | - | - | - | - | - | - | - | - |
| MW-6 | 8/21/2002 | 481.20 | 39.02 | 442.18 | 10000 | 1200 | 23 | 710 | 290 | 370 | - | - | - | - | - | - | - | - |
| MW-6 | 12/3/2002 | 481.20 | 38.76 | 442.44 | 16000 | 1700 | 63 | 970 | 630 | 1500 | - | - | - | - | - | - | - | - |
| MW-6 | 3/4/2003 | 481.20 | 35.13 | 446.07 | 16000 | 1700 | 25 | 1200 | 40 | 7700 | <20 | <20 | <70 | <200 | <2000 | <200 | <20 | <20 |
| MW-6 | 6/10/2003 | 481.20 | 34.15 | 447.05 | 9500 | 860 | 15 | 380 | 47 | 2600 | <5.0 | <5.0 | 18 | <50 | <500 | <50 | <5.0 | <5.0 |
| MW-6 | 9/9/2003 | 481.20 | 37.66 | 443.54 | 11000 | 1000 | 16 | 630 | 120 | 2500 | <5.0 | <5.0 | 20 | 52 | <500 | <50 | <5.0 | <5.0 |
| MW-6 | 12/23/2003 | 481.20 | 33.43 | 447.77 | 18000 | 2100 | 41 | 1100 | 390 | 4900 | <10 | <10 | 42 | <100 | <1000 | <100 | <10 | <10 |
| MW-6 | 3/23/2004 | 481.20 | 29.96 | 451.24 | 24000 | 1400 | 71 | 1500 | 2000 | 7500 | <20 | <20 | 66 | <200 | <2000 | <200 | <20 | <20 |
| MW-6 | 5/10/2004 | 481.20 | 32.98 | 448.22 | 6500 | 550 | <10 | 71 | 43 | 3700 | <10 | <10 | 31 | <100 | <1000 | <100 | <10 | <10 |
| MW-6 | 8/4/2004 | 481.20 | 37.02 | 444.18 | 8200 | 990 | 19 | 300 | 120 | 3300 | <5.0 | <5.0 | 23 | <50 | <500 | <50 | <5.0 | <5.0 |
| MW-7 | 3/30/1994 | 98.03 | 31.98 | 66.05 | 43000 | 7200 | 2400 | 1600 | 11000 | - | - | - | - | - | - | - | - | - |
| MW-7 | 4/25/1994 | 98.03 | 33.56 | 64.47 | 30000 | 3900 | 1000 | 940 | 6900 | - | - | - | - | - | - | - | - | - |
| MW-7 | 8/12/1994 | 98.03 | 43.35 | 54.68 | 30000 | 3800 | 1400 | 1300 | 7500 | - | - | - | - | - | - | - | - | - |
| MW-7 | 12/14/1994 | 98.03 | 39.34 | 58.69 | 31000 | 3600 | 1200 | 900 | 6400 | - | - | - | - | - | - | - | - | - |
| MW-7 | 2/10/1995 | 98.03 | 32.11 | 65.92 | 27000 | 4000 | 900 | 890 | 5100 | - | - | - | - | - | - | - | - | - |
| MW-7 | 6/15/1995 | 98.03 | 25.51 | 72.52 | 17000 | 920 | 680 | 740 | 4100 | - | - | - | - | - | - | - | - | - |
| MW-7 | 9/26/1995 | 98.03 | 31.43 | 66.60 | 7000 | 200 | 150 | 170 | 810 | - | - | - | - | - | - | - | - | - |
| MW-7 | 12/15/1995 | 98.03 | 28.97 | 69.06 | 11000 | 350 | 170 | 540 | 1900 | - | - | - | - | - | - | - | - | - |
| MW-7 | 3/21/1996 | 98.03 | 17.36 | 80.67 | 12000 | 320 | 100 | 730 | 2500 | - | - | - | - | - | - | - | - | - |
| MW-7 | 6/13/1996 | 98.03 | 23.47 | 74.56 | 5900 | 98 | 19 | 370 | 620 | <50 | - | - | - | - | - | - | - | - |
| MW-7 | 9/16/1996 | 98.03 | 31.35 | 66.68 | 7800 | 140 | 43 | 440 | 590 | <25 | - | - | - | - | - | - | - | - |
| MW-7 | 12/2/1996 | 98.03 | 27.11 | 70.92 | 6300 | 87 | 29 | 290 | 430 | <50 | - | - | - | - | - | - | - | - |
| MW-7 | 3/7/1997 | 98.03 | 21.33 | 76.70 | 4500 | 35 | 19 | 360 | 470 | <25 | - | - | - | - | - | - | - | - |
| MW-7 | 6/12/1997 | 98.03 | 29.90 | 68.13 | 3900 | 29 | 5.2 | 170 | 48 | <5.0 | - | - | - | - | - | - | - | - |
| MW-7 | 9/29/1997 | 98.03 | 34.37 | 63.66 | 6100 | 56 | 9 | 340 | 190 | <25 | - | - | - | - | - | - | - | - |
| MW-7 | 12/1/1997 | 98.03 | 36.46 | 61.57 | 6500 | 24 | <2.5 | 400 | 250 | <25 | - | - | - | - | - | - | - | - |
| MW-7 | 3/19/1998 | 98.03 | 20.33 | 77.70 | 2000 | 20 | <2.5 | 73 | 79 | <25 | - | - | - | - | - | - | - | - |
| MW-7 | 5/29/1998 | 98.03 | 22.30 | 75.73 | 5700 | 22 | 7.3 | 290 | 350 | <25 | - | - | - | - | - | - | - | - |
| MW-7 | 9/15/1998 | 98.03 | 32.54 | 65.49 | 1700 | 15 | <2.5 | 44 | 5.1 | <25 | - | - | - | - | - | - | - | - |
| MW-7 | 11/30/1998 | 98.03 | 37.96 | 60.07 | 4800 | 42 | 12 | 270 | 640 | <25 | - | - | - | - | - | - | - | - |
| MW-7 | 1/17/1999 | 98.03 | 31.04 | 66.99 | 3400 | 33 | <5.0 | 200 | 190 | <50 | - | - | - | - | - | - | - | - |
| MW-7 | 6/10/1999 | 98.03 | 29.89 | 68.14 | 1700 | 7.8 | 1.5 | 23 | 4.1 | <5.0 | - | - | - | - | - | - | - | - |
| MW-7 | 9/7/1999 | 98.03 | 32.38 | 65.65 | 1900 | 9.7 | 2.1 | 70 | 2.9 | <5.0 | - | - | - | - | - | - | - | - |
| MW-7 | 12/13/1999 | 98.03 | 33.98 | 64.05 | 1900 | 8.0 | 1.1 | 10 | 1.1 | <5.0 | - | - | - | - | - | - | - | - |
| MW-7 | 3/13/2000 | 98.03 | 27.09 | 70.94 | 1500 | 7.5 | <0.50 | 6.7 | 2.9 | <5.0 | - | - | - | - | - | - | - | - |
| MW-7 | 6/12/2000 | 98.03 | 28.76 | 69.27 | 1200 | 5.4 | <0.50 | 5.2 | 1.0 | <5.0 | - | - | - | - | - | - | - | - |
| MW-7 | 11/10/2000 | 98.03 | 31.54 | 66.49 | 1000 | 3.9 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 12/31/2000 | 98.03 | 32.76 | 65.27 | 620 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 3/27/2001 | 98.03 | 30.97 | 67.06 | 1200 | 4.8 | <0.50 | 6.7 | 0.94 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 6/30/2001 | 98.03 | 37.50 | 60.53 | 2800 | 10 | 1.7 | 75 | 170 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 9/26/2001 | 98.03 | 45.11 | 52.92 | 1900 | 16 | 0.89 | 2.3 | 25 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 12/18/2001 | 98.03 | 41.13 | 56.90 | 3000 | 13 | 0.88 | 3.4 | 3.4 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 1/22/2002 | 481.61 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Table 1
Groundwater Analytical Data
Tesoro Site No. 67076
Delta Project No. D004-076

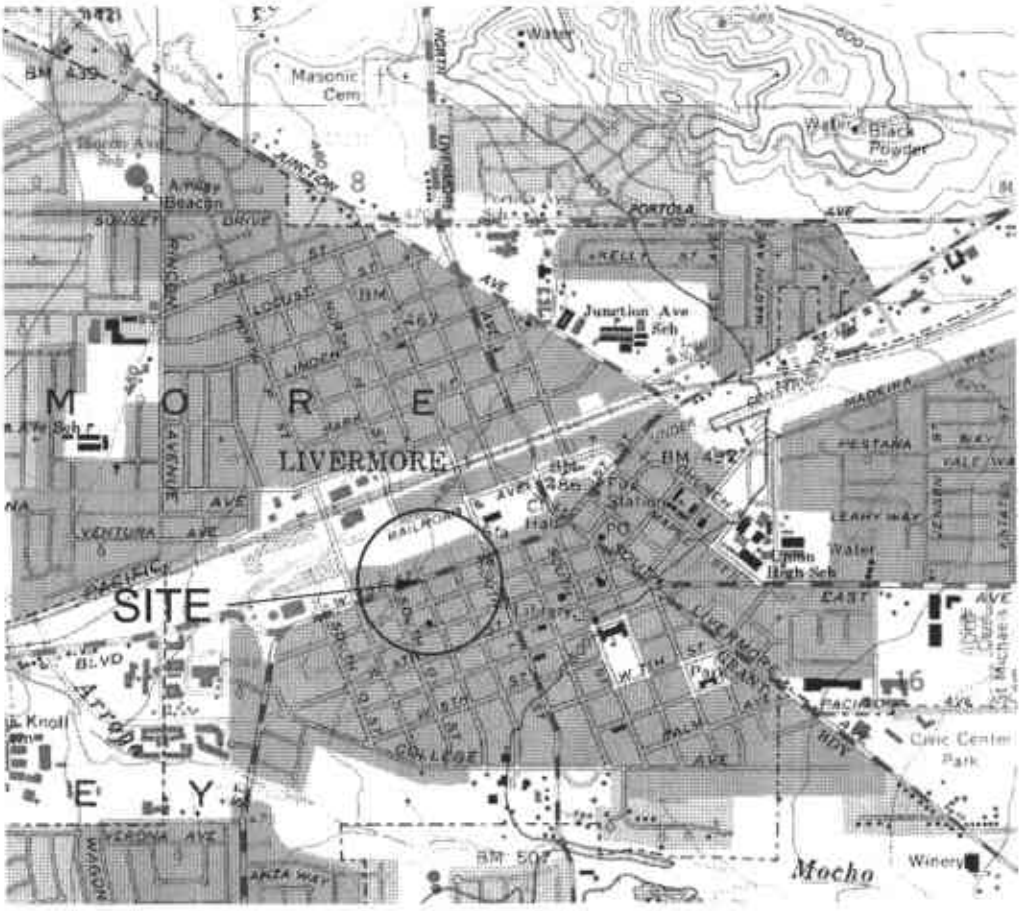
| Well | Sample Collection Date | Casing Elevation (msl) | Depth to Water (feet) | Water Table Elevation (msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Methanol (µg/L) | Ethanol (µg/L) | 1,2 DCA (µg/L) | 1,2 DBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7 | 3/18/2002 | 481.61 | 39.22 | 442.39 | 3100 | 7.3 | 1.5 | 38 | 110 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 6/5/2002 | 481.61 | 36.55 | 445.06 | 1800 | 7.6 | 1.0 | 39 | 20 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 8/21/2002 | 481.61 | 36.81 | 444.80 | 3300 | 7.6 | 0.7 | 85 | 36 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 12/3/2002 | 481.61 | 36.52 | 445.09 | 1700 | 5.4 | <0.50 | 15 | 5.5 | <0.50 | - | - | - | - | - | - | - | - |
| MW-7 | 3/4/2003 | 481.61 | 32.60 | 449.01 | 440 | 1.8 | <0.50 | 0.54 | 2.9 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-7 | 6/10/2003 | 481.61 | 31.33 | 450.28 | 550 | 0.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-7 | 9/9/2003 | 481.61 | 34.71 | 446.90 | 120 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-7 | 12/23/2003 | 481.61 | 30.80 | 450.81 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-7 | 3/23/2004 | 481.61 | 26.41 | 455.20 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-7 | 5/10/2004 | 481.61 | 29.86 | 451.75 | 67 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-7 | 8/4/2004 | 481.61 | 34.06 | 447.55 | 2600 | 2.5 | <0.50 | 36 | 31 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-8[1] | 9/5/2003 | - | - | - | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - |
| MW-8 | 12/23/2003 | 474.25 | 32.01 | 442.24 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | 7.3 | <0.50 | <0.50 |
| MW-8 | 3/23/2004 | | 28.50 | 445.75 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-8 | 5/10/2004 | | 31.44 | 442.81 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-8 | 8/4/2004 | | 35.11 | 439.14 | <50 | <0.50 | <0.50 | <0.50 | 0.86 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-9[1] | 9/5/2003 | - | - | - | 3400 | 23 | 1.5 | 110 | 10 | 10 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - |
| MW-9 | 12/23/2003 | 473.85 | 34.03 | 439.82 | 1100 | 2.4 | <0.50 | 0.8 | 0.8 | 2.1 | <0.50 | <0.50 | <0.50 | 5.9 | <50 | <5.0 | <0.50 | <0.50 |
| MW-9 | 3/23/2004 | | 30.01 | 443.84 | 760 | 8.5 | <0.50 | 4.9 | 0.95 | 18 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-9 | 5/10/2004 | | 33.61 | 440.24 | 1100 | 4.4 | <0.50 | 1.3 | 0.67 | 11 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-9 | 8/4/2004 | | 37.47 | 436.38 | 1200 | 3.4 | 0.59 | 16 | 7.6 | 6.1 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-10[1] | 9/5/2003 | | 33.80 | - | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | - | - | - | - |
| MW-10 | 12/23/2003 | 474.70 | 33.80 | 440.90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-10 | 3/23/2004 | | 28.68 | 446.02 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-10 | 5/10/2004 | | 32.15 | 442.55 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-10 | 8/4/2004 | | 36.40 | 438.30 | <50 | <0.50 | <0.50 | <0.50 | 0.61 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| VW-2 | 8/4/2004 | | 34.13 | | 5700 | 480 | <20 | 600 | <20 | 12000 | <20 | <20 | 110 | <90 | <2000 | <200 | <20 | <20 |
| VW-3 | 8/4/2004 | | 32.89 | | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <50 | <5.0 | <0.50 | <0.50 |
| MW-A | 1/17/1999 | - | 30.13 | - | 5800 | 1700 | 85 | 65 | 320 | <5.0 | - | - | - | - | - | - | - | - |
| MW-A | 6/10/1999 | Well abandoned | | | | | | | | | | | | | | | | |
| MW-B | 1/17/1999 | - | 30.29 | - | 4400 | 240 | 30 | 21 | 39 | <5.0 | - | - | - | - | - | - | - | - |
| MW-B | 6/10/1999 | Well abandoned | | | | | | | | | | | | | | | | |
| MW-C | 1/17/1999 | - | 30.60 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-C | 6/10/1999 | Well abandoned | | | | | | | | | | | | | | | | |

Table 1
Groundwater Analytical Data
Tesoro Site No. 67076
Delta Project No. D004-076

| Well | Sample Collection Date | Casing Elevation (msl) | Depth to Water (feet) | Water Table Elevation (msl) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | Methanol (µg/L) | Ethanol (µg/L) | 1,2 DCA (µg/L) | 1,2 DBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-D | 1/17/1999 | - | 31.32 | - | 5600 | 1600 | 130 | 66 | 220 | <5.0 | - | - | - | - | - | - | - | - |
| MW-D | 6/10/1999 | Well abandoned | | | | | | | | | | | | | | | | |
| MW-E | 1/17/1999 | - | 31.36 | - | 5700 | 1600 | 180 | 180 | 310 | <50 | - | - | - | - | - | - | - | - |
| MW-E | 6/10/1999 | - | - | - | 5000 | 1300 | 130 | 320 | 450 | <25 | - | - | - | - | - | - | - | - |
| MW-E | 9/7/1999 | Well abandoned | | | | | | | | | | | | | | | | |
| MW-W | 1/17/1999 | - | 30.91 | - | 23000 | 7600 | 760 | 1400 | 5000 | <50 | - | - | - | - | - | - | - | - |
| MW-W | 6/10/1999 | - | - | - | 16000 | 4100 | 420 | 1300 | 4000 | <50 | - | - | - | - | - | - | - | - |
| MW-W | 9/7/1999 | Well abandoned | | | | | | | | | | | | | | | | |

**Explanations:**

msl = mean seal level
(µg/L) = micrograms per liter
- = not measured / not analyzed
< = not detected at or above the stated laboratory reporting limit
TPHg = Total petroleum hydrocarbons in the gasoline rante
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
TBA = Tertiary butyl alcohol
1,2-DCA = Dichloroethane
1,2-DBE = 1,2-Dibromoethane
DRY = Insufficient water to sample
1 = Wells MW-8, 9, and 10 surveyed by Virgil Chavez Land Surveying October 3, 2003. Chavez converted vertical survey data from NGVD 29 to NAVD 88 August 18, 2004.




GENERAL NOTES:
BASE MAP FROM U.S.G.S.
LIVERMORE
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

QUADRANGLE LOCATION


SCALE 1:24,000

FIGURE 1

SITE LOCATION MAP

TESORO SITE NO. 67076
FORMER BEACON STATION NO. 604
1619 WEST FIRST STREET
LIVERMORE, CA.

| | |
|---|---|
| PROJECT NO. D004-076 | DRAWN BY REG 6/18/04 |
| FILE NO. TS-67076-FIG1 | PREPARED BY BAB |
| REVISION NO. * | REVIEWED BY |

Delta Environmental Consultants, Inc.

LEGEND

PROPERTY LINE

GROUNDWATER MONITORING WELL

VAPOR EXTRACTION WELL

PROPOSED TEMPORARY GROUNDWATER MONITORING POINT

(436.38 GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL

439.0 INFERRED WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL

INFERRED GROUND WATER FLOW DIRECTION

SOURCE: Doulos Environmental, Inc. site plan. Wells resurveyed by Advanced Geomatic Engineering on 1/22/02. MW-8, MW-9, MW-10 installed on September 2, 2003.

MW-9
(436.38)

MW-8
(439.14)

450.0

452.0

SAFEWAY PARKING LOT

HOLLYWOOD VIDEO

MW-5
(446.85)

MW-4
(448.06)

MW-6
(444.18)

SOUTH P STREET

DRIVEWAY

MW-3
(447.96)

DRIVEWAY

MW-2
(447.41)

TP-1

VW-2

TP-2

CANOPY

DISPENSER ISLANDS

AIR / WATER

MW-10
(438.30)

FIRST STREET

FOSTERS FREEZE RESTAURANT

MW-7
(447.55)

FORMER USTs

DRIVEWAY

VW-3

STATION BUILDING

TRASH

VW-1

MW-1
(448.81)

ADOBE PET HOSPITAL

EXISTING USTs

FORMER WASTE OIL TANK

RESIDENCE

North

0 40 FT

SCALE

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP
8/04/04
TESORO SITE NO. 67076
FORMER BEACON STATION 604
1619 WEST FIRST STREET
LIVERMORE, CA

| | |
|---|---|
| PROJECT NO. D004-076 | DRAWN BY MC 9/7/04 |
| FILE NO. TS-67076 | PREPARED BY JB |
| REVISION NO. 1 | REVIEWED BY |

Delta Environmental Consultants, Inc.

LEGEND

PROPERTY LINE

GROUNDWATER MONITORING WELL

VAPOR EXTRACTION WELL

| | |
|---|---|
| TPH-G | 1,100 |
| Benzene | 4.4 |
| MTBE | 11 |

DISSOLVED PHASE HYDROCARBON CONCENTRATIONS (µg/L)

SOURCE: Douglas Environmental, Inc. site plan. Wells resurveyed by Advanced Geomatic Engineering on 1/22/02. MW-8, MW-9, MW-10 installed on September 2, 2003.

MW-9

| MW-9 | |
|---|---|
| TPH-G | 1,200 |
| Benzene | 3.4 |
| MTBE | 6.1 |

MW-8

| MW-8 | |
|---|---|
| TPH-G | <50 |
| Benzene | <0.5 |
| MTBE | <0.5 |

MW-5

| MW-5 | |
|---|---|
| TPH-G | 160 |
| Benzene | <0.50 |
| MTBE | <0.50 |

MW-6

| MW-6 | |
|---|---|
| TPH-G | 8,200 |
| Benzene | 990 |
| MTBE | 3,300 |

MW-10*

| MW-10 | |
|---|---|
| TPH-G | <50 |
| Benzene | <0.5 |
| MTBE | <0.5 |

MW-7

| MW-7 | |
|---|---|
| TPH-G | 2,600 |
| Benzene | 2.5 |
| MTBE | <0.50 |

MW-2

| MW-2 | |
|---|---|
| TPH-G | 45,000 |
| Benzene | 7,200 |
| MTBE | 2,500 |

VW-2

| VW-2 | |
|---|---|
| TPH-G | 5,700 |
| Benzene | 480 |
| MTBE | 12,000 |

MW-2

| MW-2 | |
|---|---|
| TPH-G | <50 |
| Benzene | <0.5 |
| MTBE | <0.5 |

SAFEWAY PARKING LOT

HOLLYWOOD VIDEO

SOUTH P STREET

FIRST STREET

FOSTERS FREEZE RESTAURANT

ADOBE PET HOSPITAL

DRIVEWAY

DRIVEWAY

CANOPY

AIR/WATER

DISPENSER ISLANDS

FORMER USTs

STATION BUILDING

TRASH

RESIDENCE

EXISTING USTs

FORMER WASTE OIL TANK

North

0 40 FT

SCALE

FIGURE 3
DISTRIBUTION OF TPH-G, BENZENE AND MTBE IN GROUNDWATER-8/4/04
TESORO SITE NO. 67076
FORMER BEACON STATION 604
1619 WEST FIRST STREET
LIVERMORE, CA

| | |
|---|---|
| PROJECT NO. D004-076 | DRAWN BY MC 8/12/04 |
| FILE NO. TS-67076-3Q04 | PREPARED BY JB |
| REVISION NO. 1 | REVIEWED BY |

Delta Environmental Consultants, Inc.

## FIELD METHODS AND PROCEDURES

The following section describes field procedures that are to be used by Delta personnel in the performance of the tasks involved with this project.

### 1.0 HEALTH AND SAFETY PLAN

Fieldwork performed by Delta and Delta's subcontractors at the site is conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document that describes the hazards that may be encountered in the field and specifies protective equipment, work procedures and emergency information. A copy of the SHSP will be at the site and available for reference by appropriate parties during work at the site.

### 2.0 GROUNDWATER DEPTH ASSESSMENT

A water/product interface probe is used to assess the liquid-phase hydrocarbons (LPH) thickness, if present, and a water level indicator is used to measure the groundwater depth in monitoring wells that do not contain LPH. Depth to groundwater or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for LPH sheen.

### 3.0 SUBJECTIVE ANALYSIS OF GROUNDWATER

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

### 4.0 MONITORING WELL SAMPLING

No purge groundwater sampling is conducted at this site. After measurement of depth to water, a groundwater sample is removed from each of the wells using a pump or disposable bailer. The water sample is collected, labeled and handled according to the Quality Assurance Plan. Decontamination water generated during the monitoring event is disposed of according to the accepted regulatory method pertaining to the site.

## 5.0 QUALITY ASSURANCE PLAN

This section describes the field and analytical procedures to be followed by Delta throughout the investigation.

### 5.1 General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample will be collected in the appropriate container, preserved correctly for the intended analysis and stored, prior to analysis, for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of soil samples from this project can be found in previous sections.

### 5.2 Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures ensure sample integrity and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis will have a label affixed to identify the job number, sampler, date and time of sample collection and a sample number unique to that sample. During soil sampling, this information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel and any other pertinent field observations will be recorded on the borehole log or in the field records.

**ENCLOSURE B**

Groundwater Sampling Information Sheets

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-1 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 W. 1st St. Livermore, CA

Date Sampled: ___ / ___ / ___ Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 69.56 ft below top of casing Casing diameter 4 inches

Depth to water (below top of casing) 34.77 ft. Date: 8 / 4 / 04 Time _____

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: _____ Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least N/A well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: _____ Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | D.O. Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| | | | | 2.15 (1 Ft) | |
| | | | | 3.10 (Top) | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-2 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 W 1st St. Livermore, CA

Date Sampled: 8 / 4 / 04 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 54.00 ft below top of casing Casing diameter 4 inches

Depth to water (below top of casing) ~~35.35~~ 35.36 ft. Date: 8 / 4 / 04 Time _____

Well Casing Volume Multiplier: 0.16 for 2" 0.65 for 4" 1.47 for 6" 36 Gal.

Purging method: X Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least * 3 well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | D.O. Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| 11:38 | 28.4 | 9.63 | 949 | 2.98 (1 Ft) | |
| 11:59 | 21.2 | 8.82 | 919 | 2.48 (18 Ft) | |
| 12:14 | 20.8 | 8.85 | 901 | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-3 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 W. 1st St. Livermore, CA

Date Sampled: ____ / ____ / ____ Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 67.15 ft below top of casing Casing diameter 4 inches

Depth to water (below top of casing) 34.70 ft. Date: 8 / 4 / 04 Time _____

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: _____ Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least N/A well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: _____ Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | DO, Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| | | | | 0.62 (1 FT) | |
| | | | | 1.80 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-4 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 North First St. Livermore, Ca

Date Sampled: 8 / 4 / 04 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 69.39 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 34.87 ft. Date: _____ / _____ / _____ Time _____

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: N/A Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least N/A well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | D.O. Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| | | | | 1.85 (Ft) | |
| | | | | 2.60 (32 Ft) | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-5 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 W. 1st St. Livermore, CA

Date Sampled: 8 / 4 / 04 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 46.15 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 35.09 ft. Date: _____ / _____ / _____ Time _____

Well Casing Volume Multiplier: (0.16 for 2") 0.65 for 4", 1.47 for 6" 5 Gal.

Purging method: X Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least 3 well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | DO Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| 9:53 | 19.5 | 9.36 | 881 | 3:36 | 1 |
| 9:56 | 18.5 | 9.05 | 930 | 1:52 /ft | 3 |
| 9:58 | 19.1 | 8.82 | 909 | | 5 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-6 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 W. 1st St Livermore, CA

Date Sampled: 8 / 4 / 04 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 64.90 47.63 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 37.02 ft. Date: 8 / 4 / 04 Time _____

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6" 5

Purging method: X Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least 3 well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected 3 Sample appearance _____

Note any sampling problems Slight odor

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | D.O, Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| 11:02 | 24.0 | 8.75 | 1042 | 21.90 (1 Ft) | 1 |
| 11:05 | 21.1 | 8.72 | 1020 | 3.60 (9 Ft) | 3 |
| 11:07 | 20.4 | 8.76 | 1005 | | 5 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-7 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 W. 1st St. Livermore, CA

Date Sampled: 8 / 4 / 04 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 67.05 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 34.06 ft. Date: _____ / _____ / _____ Time _____

Well Casing Volume Multiplier: 0.16 for 2" 0.65 for 4", 1.47 for 6" ~~1.00~~ .5 Gal,

Purging method: x Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least 3 well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: x Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| 9:00 | 22.6C | 9:20 | 9:79 | 4.06 (1 FT) | 1 |
| 9:03 | 20.3 | 899 | 941 | 3.92 (32FT) | 3 |
| 9:05 | 19.9 | 9:07 | 9:09 | | 5 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: Slight odor

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-8 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 West 1st Street Livermore, CA

Date Sampled: 8 / 4 / 04 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 44.3 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 35.11 ft. Date: _____ / _____ / _____ Time _____

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6" 5 Gal

Purging method: X Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least 3 well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | D.O. Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| 8:32 | 18.7 | 9.30 | .0911 | 5.17 (1 Ft) | 1 |
| 8:34 | 18.2 | 9.10 | .0887 | 2.70 (8.19) | 3 |
| 8:36 | 18.9 | 9.08 | .0911 | | 5 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-9 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 W. 1st St. Livermore, CA

Date Sampled: 8 / 4 / 04 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 44.35 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 37.47 ft. Date: _____ / _____ / _____ Time _____

Well Casing Volume Multiplier 0.16 for 2", 0.65 for 4", 1.47 for 6" 3 Gal.

Purging method: X Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least 3 well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | D.O. Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| 10:29 | 22.2 | 9.52 | 956 | 3.89 (1 Ft) | 1 |
| 10:31 | 19.9 | 9.01 | 997 | 1.09 (5.88) | 2 |
| 10:33 | 19.9 | 9.12 | 962 | | 3 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-10 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 W. 1st Livermore, CA

Date Sampled: 8 / 4 / 0 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 44.90 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 36.40 ft. Date: 8 / 4 / 04 Time _____

Well Casing Volume Multiplier: 0.16 for 2" 0.65 for 4", 1.47 for 6" 4 Gall.

Purging method: X Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least 3 well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | D.O. Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| 8:07 | 17.6 | 9.45 | 1116 | 3.86 (7.5ft) | 1 |
| 8:09 | 18.2 | 9.44 | 1120 | 6.14 (1ft) | 3 |
| 8:10 | 18.5 | 9.34 | 1089 | | 4 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# VW-2 Project Name: Tesoro 67076 Project No. D004-076

Location (address) 1619 W. 1st St. Livermore, CA

Date Sampled: 8 / 4 / 04 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 36.10 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 34.13 ft. Date: _____ / _____ / _____ Time _____

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: N/A Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least 3-N/A well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | D.O. Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| | | | | 1.68 (1 Ft) | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

# SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# VW-3 Project Name: Tesoro 67076 Project No. 5004-076

Location (address) 1619 W 1st St. Livermore, CA

Date Sampled: 8 / 4 / 04 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth _____ ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 32.89 ft. Date: _____ / _____ / _____ Time _____

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: _____ Submersible pump _____ Bailer _____ Centrifugal pump _____ Other _____

At least N/A well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected _____ Sample appearance _____

Note any sampling problems _____

## GROUND WATER EVACUATION/STABILIZATION DATA

| Time | Temperature (°F) | pH Units | Conductance (umnos/cm) | DO. Water Level (Nearest 0.01 ft) | Cumulative Volume of Water Removed from Well (gallons) |
|---|---|---|---|---|---|
| | | | | 20.7 (1 Ft) | |
| | | | | 11.9 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Comments: _____

Transportation (thermal preservation) _____

Form completed by: _____ Sampled by: _____

**KIFF ANALYTICAL LLC**

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. _____ Page 1 of 1

# Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Jason Mata

California EDF Report? ☒ Yes ☐ No

Company/Address: Delta Environmental

Recommended but not mandatory to complete this section:
Sampling Company Log Code: . . .

Phone No.: 916 536-2616 FAX No.: 916 638-8385

Global ID: . . . . . .

Project Number: P.O. No:

EDF Deliverable To (Email Address):

Project Name: Tesoro 67076

Sampler Signature: Jason Mata

Project Address: 1619 N. 1st St. Livermore, CA

| Sample Designation | Sampling: Date | Sampling: Time | Container: 40 ml VOA | Container: SLEEVE | Preservative: HCl | Preservative: $HNO_3$ | Preservative: ICE | Preservative: NONE | Matrix: WATER | Matrix: SOIL | Analysis Request: BTEX (8021B) | BTEX/TPH Gas/MTBE (8021B/M8015) | TPH as Diesel (M8015) | TPH as Motor Oil (M8015) | TPH Gas/BTEX/MTBE (8260B) | 5 Oxygenates/TPH Gas/BTEX (8260B) | 7 Oxygenates/TPH Gas/BTEX (8260B) | 5 Oxygenates (8260B) | 7 Oxygenates (8260B) | Lead Scav. (1,2 DCA & 1,2 EDB - 8260B) | EPA 8260B (Full List) | Volatile Halocarbons (EPA 8260B) | Lead (7421/239.2) TOTAL (X) W.E.T. (X) | TAT: 12 hr/24 hr/48 hr/72 hr/(wk) | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 8/4/04 | | 3 | | X | | X | | X | | | | | | | | X | | | X | | | | X | |
| MW-5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VW-2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| VW-3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

| Relinquished by: | Date | Time | Received by: | Remarks: |
|---|---|---|---|---|
| Jason Mata | 8/4/04 | 3:35 pm | | |
| Relinquished by: | Date | Time | Received by: | |
| | | | | |
| Relinquished by: | Date | Time | Received by Laboratory: | Bill to: |
| | 080404 | 1535 | KIFF ANALYTICAL | |

*Distribution: White - Lab, Pink - Originator*

Forms/coc 121001.fh9

# ENCLOSURE C

Laboratory Analytical Results With
Chain-of-Custody Documentation

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Jason Mata
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, CA 95670

Subject : 9 Water Samples
Project Name : Tesoro 67076
Project Number :

Dear Mr. Mata,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Jeff Dahl

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Subject : 9 Water Samples
Project Name : Tesoro 67076
Project Number :

# Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-6, VW-2 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Jeff Dahl

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Project Name : **Tesoro 67076**
Project Number :

Sample : **MW-2** Matrix : Water Lab Number : 39472-01
Sample Date :8/4/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **7200** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **Toluene** | **1900** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **Ethylbenzene** | **1800** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **Total Xylenes** | **5100** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **Methyl-t-butyl ether (MTBE)** | **2500** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **Diisopropyl ether (DIPE)** | **< 25** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 25** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **Tert-amyl methyl ether (TAME)** | **31** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **Tert-Butanol** | **< 250** | 250 | ug/L | EPA 8260B | 8/11/2004 |
| **Methanol** | **< 2500** | 2500 | ug/L | EPA 8260B | 8/11/2004 |
| **Ethanol** | **< 250** | 250 | ug/L | EPA 8260B | 8/11/2004 |
| **1,2-Dichloroethane** | **< 25** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **1,2-Dibromoethane** | **< 25** | 25 | ug/L | EPA 8260B | 8/11/2004 |
| **TPH as Gasoline** | **45000** | 2500 | ug/L | EPA 8260B | 8/11/2004 |
| Toluene - d8 (Surr) | 102 | | % Recovery | EPA 8260B | 8/11/2004 |
| 4-Bromofluorobenzene (Surr) | 97.6 | | % Recovery | EPA 8260B | 8/11/2004 |

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Project Name : **Tesoro 67076**
Project Number :

Sample : **MW-5** Matrix : Water Lab Number : 39472-02
Sample Date :8/4/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **Total Xylenes** | **0.71** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **Methyl-t-butyl ether (MTBE)** | **0.94** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/6/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 8/6/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/6/2004 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| **TPH as Gasoline** | **160** | 50 | ug/L | EPA 8260B | 8/6/2004 |
| Toluene - d8 (Surr) | 99.4 | | % Recovery | EPA 8260B | 8/6/2004 |
| 4-Bromofluorobenzene (Surr) | 98.6 | | % Recovery | EPA 8260B | 8/6/2004 |

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Project Name : **Tesoro 67076**
Project Number :

Sample : **MW-6** Matrix : Water Lab Number : 39472-03
Sample Date :8/4/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **990** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **Toluene** | **19** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **Ethylbenzene** | **300** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **Total Xylenes** | **120** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **Methyl-t-butyl ether (MTBE)** | **3300** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **Diisopropyl ether (DIPE)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **Tert-amyl methyl ether (TAME)** | **23** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **Tert-Butanol** | **< 50** | 50 | ug/L | EPA 8260B | 8/9/2004 |
| **Methanol** | **< 500** | 500 | ug/L | EPA 8260B | 8/9/2004 |
| **Ethanol** | **< 50** | 50 | ug/L | EPA 8260B | 8/9/2004 |
| **1,2-Dichloroethane** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **1,2-Dibromoethane** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| **TPH as Gasoline** | **8200** | 500 | ug/L | EPA 8260B | 8/9/2004 |
| Toluene - d8 (Surr) | 94.5 | | % Recovery | EPA 8260B | 8/9/2004 |
| 4-Bromofluorobenzene (Surr) | 93.1 | | % Recovery | EPA 8260B | 8/9/2004 |

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Project Name : **Tesoro 67076**
Project Number :

Sample : **MW-7** Matrix : Water Lab Number : 39472-04
Sample Date :8/4/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **2.5** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethylbenzene** | **36** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Total Xylenes** | **31** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **TPH as Gasoline** | **2600** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| Toluene - d8 (Surr) | 99.7 | | % Recovery | EPA 8260B | 8/7/2004 |
| 4-Bromofluorobenzene (Surr) | 99.1 | | % Recovery | EPA 8260B | 8/7/2004 |

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Project Name : **Tesoro 67076**
Project Number :

Sample : **MW-8** Matrix : Water Lab Number : 39472-05
Sample Date :8/4/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Total Xylenes** | **0.86** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| Toluene - d8 (Surr) | 98.0 | | % Recovery | EPA 8260B | 8/7/2004 |
| 4-Bromofluorobenzene (Surr) | 97.3 | | % Recovery | EPA 8260B | 8/7/2004 |

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Project Name : **Tesoro 67076**
Project Number :

Sample : **MW-9** Matrix : Water Lab Number : 39472-06
Sample Date :8/4/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **3.4** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Toluene** | **0.59** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethylbenzene** | **16** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Total Xylenes** | **7.6** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Methyl-t-butyl ether (MTBE)** | **6.1** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **TPH as Gasoline** | **1200** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| Toluene - d8 (Surr) | 99.0 | | % Recovery | EPA 8260B | 8/7/2004 |
| 4-Bromofluorobenzene (Surr) | 102 | | % Recovery | EPA 8260B | 8/7/2004 |

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Project Name : **Tesoro 67076**
Project Number :

Sample : **MW-10** Matrix : Water Lab Number : 39472-07
Sample Date :8/4/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Total Xylenes** | **0.61** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| Toluene - d8 (Surr) | 98.1 | | % Recovery | EPA 8260B | 8/7/2004 |
| 4-Bromofluorobenzene (Surr) | 98.3 | | % Recovery | EPA 8260B | 8/7/2004 |

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Project Name : **Tesoro 67076**
Project Number :

Sample : **VW-2** Matrix : Water Lab Number : 39472-08
Sample Date :8/4/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **480** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **Toluene** | **< 20** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **Ethylbenzene** | **60** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **Total Xylenes** | **< 20** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **Methyl-t-butyl ether (MTBE)** | **12000** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **Diisopropyl ether (DIPE)** | **< 20** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 20** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **Tert-amyl methyl ether (TAME)** | **110** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **Tert-Butanol** | **< 90** | 90 | ug/L | EPA 8260B | 8/9/2004 |
| **Methanol** | **< 2000** | 2000 | ug/L | EPA 8260B | 8/9/2004 |
| **Ethanol** | **< 200** | 200 | ug/L | EPA 8260B | 8/9/2004 |
| **1,2-Dichloroethane** | **< 20** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **1,2-Dibromoethane** | **< 20** | 20 | ug/L | EPA 8260B | 8/9/2004 |
| **TPH as Gasoline** | **5700** | 2000 | ug/L | EPA 8260B | 8/9/2004 |
| Toluene - d8 (Surr) | 93.2 | | % Recovery | EPA 8260B | 8/9/2004 |
| 4-Bromofluorobenzene (Surr) | 93.0 | | % Recovery | EPA 8260B | 8/9/2004 |

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 39472
Date : 8/11/2004

Project Name : **Tesoro 67076**
Project Number :

Sample : **VW-3** Matrix : Water Lab Number : 39472-09
Sample Date :8/4/2004

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Diisopropyl ether (DIPE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethyl-t-butyl ether (ETBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-amyl methyl ether (TAME)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **Tert-Butanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **Methanol** | **< 50** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| **Ethanol** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dichloroethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **1,2-Dibromoethane** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 8/7/2004 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 8/7/2004 |
| Toluene - d8 (Surr) | 96.6 | | % Recovery | EPA 8260B | 8/7/2004 |
| 4-Bromofluorobenzene (Surr) | 95.8 | | % Recovery | EPA 8260B | 8/7/2004 |

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 39472

Date : 8/11/2004

**QC Report : Method Blank Data**

Project Name : **Tesoro 67076**

Project Number :

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 8/11/2004 |
| Methanol | < 50 | 50 | ug/L | EPA 8260B | 8/11/2004 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 8/11/2004 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/11/2004 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/11/2004 |
| Toluene - d8 (Surr) | 102 | | % | EPA 8260B | 8/11/2004 |
| 4-Bromofluorobenzene (Surr) | 97.7 | | % | EPA 8260B | 8/11/2004 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| Methanol | < 50 | 50 | ug/L | EPA 8260B | 8/9/2004 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 8/9/2004 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/9/2004 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/9/2004 |
| Toluene - d8 (Surr) | 93.3 | | % | EPA 8260B | 8/9/2004 |
| 4-Bromofluorobenzene (Surr) | 86.2 | | % | EPA 8260B | 8/9/2004 |

| | | | | | |
|---|---|---|---|---|---|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| Diisopropyl ether (DIPE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| Ethyl-t-butyl ether (ETBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| Tert-amyl methyl ether (TAME) | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 8/6/2004 |
| Methanol | < 50 | 50 | ug/L | EPA 8260B | 8/6/2004 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 8/6/2004 |
| 1,2-Dichloroethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| 1,2-Dibromoethane | < 0.50 | 0.50 | ug/L | EPA 8260B | 8/6/2004 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 8/6/2004 |
| Toluene - d8 (Surr) | 93.5 | | % | EPA 8260B | 8/6/2004 |
| 4-Bromofluorobenzene (Surr) | 82.0 | | % | EPA 8260B | 8/6/2004 |

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 39472

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Date : 8/11/2004

Project Name : **Tesoro 67076**

Project Number :

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 39554-01 | 0.69 | 39.6 | 39.1 | 39.7 | 36.2 | ug/L | EPA 8260B | 8/11/04 | 98.5 | 90.8 | 8.17 | 70-130 | 25 |
| Toluene | 39554-01 | <0.50 | 39.6 | 39.1 | 39.1 | 35.4 | ug/L | EPA 8260B | 8/11/04 | 98.8 | 90.5 | 8.78 | 70-130 | 25 |
| Tert-Butanol | 39554-01 | 5.6 | 198 | 196 | 201 | 190 | ug/L | EPA 8260B | 8/11/04 | 98.8 | 94.3 | 4.63 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 39554-01 | 100 | 39.6 | 39.1 | 135 | 130 | ug/L | EPA 8260B | 8/11/04 | 84.2 | 74.1 | 12.7 | 70-130 | 25 |
| Benzene | 39494-01 | <0.50 | 40.0 | 40.0 | 44.9 | 44.3 | ug/L | EPA 8260B | 8/6/04 | 112 | 111 | 1.28 | 70-130 | 25 |
| Toluene | 39494-01 | <0.50 | 40.0 | 40.0 | 41.3 | 41.2 | ug/L | EPA 8260B | 8/6/04 | 103 | 103 | 0.125 | 70-130 | 25 |
| Tert-Butanol | 39494-01 | <5.0 | 200 | 200 | 226 | 220 | ug/L | EPA 8260B | 8/6/04 | 113 | 110 | 2.32 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 39494-01 | <0.50 | 40.0 | 40.0 | 44.5 | 45.8 | ug/L | EPA 8260B | 8/6/04 | 111 | 114 | 3.03 | 70-130 | 25 |
| Benzene | 39535-10 | <0.50 | 40.0 | 40.0 | 45.7 | 42.7 | ug/L | EPA 8260B | 8/9/04 | 114 | 107 | 6.89 | 70-130 | 25 |
| Toluene | 39535-10 | <0.50 | 40.0 | 40.0 | 42.8 | 40.5 | ug/L | EPA 8260B | 8/9/04 | 107 | 101 | 5.58 | 70-130 | 25 |
| Tert-Butanol | 39535-10 | <5.0 | 200 | 200 | 221 | 223 | ug/L | EPA 8260B | 8/9/04 | 110 | 112 | 0.886 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 39535-10 | 30 | 40.0 | 40.0 | 84.0 | 86.0 | ug/L | EPA 8260B | 8/9/04 | 135 | 140 | 3.62 | 70-130 | 25 |

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 39472

**QC Report : Laboratory Control Sample (LCS)**

Date : 8/11/2004

Project Name : **Tesoro 67076**

Project Number :

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|---|---|---|---|---|---|---|
| Benzene | 40.0 | ug/L | EPA 8260B | 8/11/04 | 99.1 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 8/11/04 | 98.2 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 8/11/04 | 97.2 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 8/11/04 | 97.8 | 70-130 |
| | | | | | | |
| Benzene | 40.0 | ug/L | EPA 8260B | 8/6/04 | 113 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 8/6/04 | 105 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 8/6/04 | 112 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 8/6/04 | 109 | 70-130 |
| | | | | | | |
| Benzene | 40.0 | ug/L | EPA 8260B | 8/9/04 | 112 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 8/9/04 | 105 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 8/9/04 | 107 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 8/9/04 | 116 | 70-130 |

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

**KIFF ANALYTICAL LLC**

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 39472 Page 1 of 1

# Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Jason Mata
Company/Address: Delta Environmental
Phone No.: 916 536-2616 FAX No.: 916 638-8385
Project Number: P.O. No:
Project Name: Tesoro 67076
Project Address: 1619 N. 1st St. Livermore, CA

California EDF Report? ☒ Yes ☐ No
Recommended but not mandatory to complete this section:
Sampling Company Log Code: . . .
Global ID: . . . . . .
EDF Deliverable To (Email Address):
Sampler Signature: Jason Mata

| Sample Designation | Sampling: Date | Sampling: Time | Container: 40 ml VOA | Container: SLEEVE | Preservative: HCl | Preservative: $HNO_3$ | Preservative: ICE | Preservative: NONE | Matrix: WATER | Matrix: SOIL | Analysis Request: BTEX (8021B) | BTEX/TPH Gas/MTBE (8021B/M8015) | TPH as Diesel (M8015) | TPH as Motor Oil (M8015) | TPH Gas/BTEX/MTBE (8260B) | 5 Oxygenates/TPH Gas/BTEX (8260B) | 7 Oxygenates/TPH Gas/BTEX (8260B) | 5 Oxygenates (8260B) | 7 Oxygenates (8260B) | Lead Scav. (1,2 DCA & 1,2 EDB - 8260B) | EPA 8260B (Full List) | Volatile Halocarbons (EPA 8260B) | Lead (7421/239.2) TOTAL (X) W.E.T. (X) | TAT: 12 hr / 24 hr / 48 hr / 72 hr / wk | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 8/4/04 | | 3 | | X | | X | | X | | | | | | | | X | | | X | | | | X | 01 |
| MW-5 | | | | | | | | | | | | | | | | | | | | | | | | | 02 |
| MW-6 | | | | | | | | | | | | | | | | | | | | | | | | | 03 |
| MW-7 | | | | | | | | | | | | | | | | | | | | | | | | | 04 |
| MW-8 | | | | | | | | | | | | | | | | | | | | | | | | | 05 |
| MW-9 | | | | | | | | | | | | | | | | | | | | | | | | | 06 |
| MW-10 | | | | | | | | | | | | | | | | | | | | | | | | | 07 |
| VW-2 | | | | | | | | | | | | | | | | | | | | | | | | | 08 |
| VW-3 | | | | | | | | | | | | | | | | | | | | | | | | | 09 |

| | Date | Time | |
|---|---|---|---|
| Relinquished by: Jason Mata | 8/4/04 | 3:35 pm | Received by: |
| Relinquished by: | Date | Time | Received by: |
| Relinquished by: | Date 08/04/04 | Time 1535 | Received by Laboratory: Kiff Analytical |

Remarks:

Bill to:

*Distribution: White - Lab, Pink - Originator*

Forms/coc 121001.fh9