

DATE: July 8, 1999

**TOSCO MARKETING COMPANY
GROUNDWATER MONITORING REPORT**

RECEIVED

Site No.: 5353 Address: 600 Westlake Avenue North, Seattle, WA JUL 14 1999
Tosco Project Manager: Timothy D. Johnson
Consultant /Contact Person: Environmental Resolutions, Inc./John Meyer ENVIRONMENTAL DEPARTMENT
Primary Agency/Regulatory ID No.: Washington State Department of Ecology NORTHWEST REGION

WORK PERFORMED THIS QUARTER(S) [First - 1999]:

- Monitored 11 groundwater monitoring wells and sampled 5 wells without purging

WORK PROPOSED FOR NEXT QUARTER [Second - 1999]:

- Monitor 11 wells and sample 6 wells without purging

SUMMARY:

| | | |
|--|-------------------------------|------------------------|
| Frequency of Sampling Events: | <u>Quarterly</u> | (Quarterly, etc.) |
| Approximate Depth to Groundwater: | <u>8 to 11 ft</u> | (Measured Feet) |
| Groundwater Gradient: | <u>Northerly and Easterly</u> | (Direction) |
| | <u>0.004 ft/ft</u> | (Magnitude) |
| Maximum TPH-G/Benzene Concentrations: | <u>33,400/5,970</u> | (ppb) |
| Measurable Free Product Detected: | <u>Yes - SMW-4 and MW-37</u> | (Yes - ID wells(s)/No) |
| Free Product Recovered This Quarter: | <u>None</u> | (gallons) |
| Cumulative Free Product Recovered to Date: | <u>46,632</u> | (gallons) |
| Bulk Soil Removed This Quarter: | <u>None</u> | (cubic yards) |
| Water Wells or Surface Waters w/in a 2000' | <u>Lake Union</u> | (Distance & |
| Radius and Respective Direction: | <u>400 feet north</u> | Direction) |
| Current Remedial Action: | <u>VES</u> | (SVE/AS/P&T etc.) |
| Permits for Discharge: | <u>PSAPCA No. 4397</u> | (NPDES, POTW, etc.) |

DISCUSSION:

- 2 of 5 wells sampled contained analyte concentrations exceeding MTCA Method A Cleanup Levels
- Trace amounts of LPH were observed in SMW-4 and MW-37; an absorbent sock was placed in MW-37.

ATTACHMENTS:

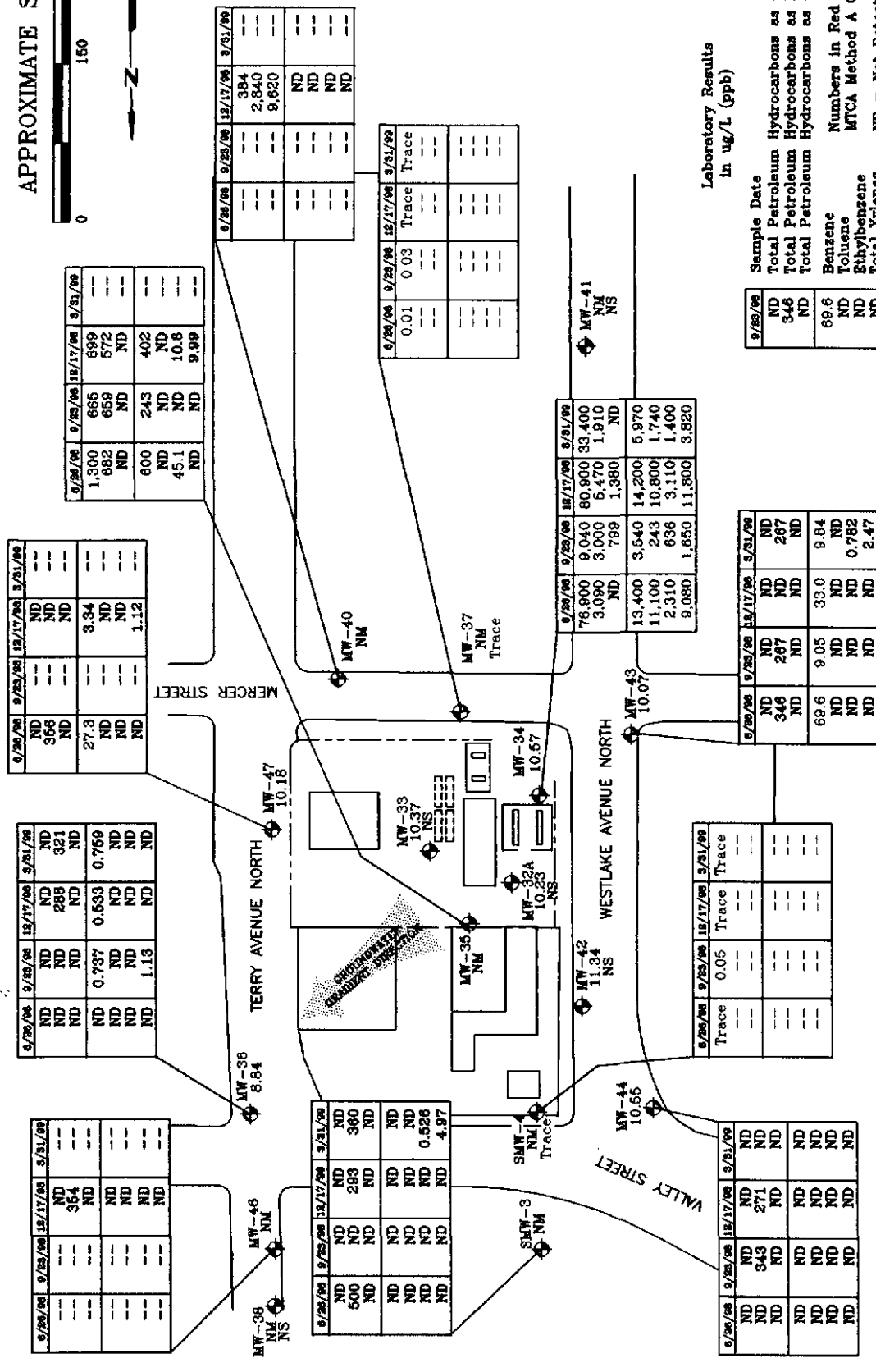
Plate P-1 - Groundwater Sample Analyses Map, 3/31/99
Table 1 - Groundwater Analytical Results
Laboratory Reports and Chain of Custody Records
Field Data Records

Prepared By:


John K. Meyer, R.G.
Environmental Resolutions, Inc.

cc: Ecology NW Region
GeoEngineers

APPROXIMATE SCALE



| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| 1,300 | 665 | 699 | --- |
| ND | 682 | 572 | --- |
| ND | ND | ND | --- |
| 600 | 243 | 402 | --- |
| ND | ND | ND | --- |
| 45.1 | ND | 10.8 | --- |
| ND | ND | 9.99 | --- |

| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| ND | --- | ND | --- |
| 366 | --- | ND | --- |
| ND | --- | ND | --- |
| 27.3 | --- | 3.34 | --- |
| ND | --- | ND | --- |
| ND | --- | ND | --- |
| ND | --- | 1.12 | --- |

| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| ND | ND | ND | ND |
| ND | 298 | 321 | ND |
| ND | ND | ND | ND |
| ND | 0.737 | 0.533 | 0.769 |
| ND | ND | ND | ND |
| ND | ND | ND | ND |
| ND | 1.13 | ND | ND |

| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| --- | --- | 364 | --- |
| --- | --- | ND | --- |
| --- | --- | ND | --- |
| --- | --- | ND | --- |
| --- | --- | ND | --- |
| --- | --- | ND | --- |
| --- | --- | ND | --- |

| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |

| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| 0.01 | 0.03 | Trace | Trace |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |

| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| 76,900 | 9,040 | 80,900 | 33,400 |
| 3,090 | 3,000 | 5,470 | 1,910 |
| ND | 789 | 1,380 | ND |
| 13,400 | 3,540 | 14,200 | 5,970 |
| 11,100 | 243 | 10,800 | 1,740 |
| 2,310 | 636 | 3,110 | 1,400 |
| 9,080 | 1,650 | 11,800 | 3,820 |

| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| ND | ND | ND | ND |
| 346 | 267 | ND | 267 |
| ND | ND | ND | ND |
| 69.6 | 9.05 | 33.0 | 9.84 |
| ND | ND | ND | ND |
| ND | ND | ND | 0.782 |
| ND | ND | ND | 2.47 |

| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| Trace | 0.05 | Trace | Trace |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |

| 9/26/98 | 9/29/98 | 10/17/98 | 3/31/99 |
|---------|---------|----------|---------|
| ND | ND | ND | ND |
| 343 | 271 | ND | ND |
| ND | ND | ND | ND |
| ND | ND | ND | ND |
| ND | ND | ND | ND |
| ND | ND | ND | ND |

Laboratory Results
in ug/L (ppb)

Sample Date
Total Petroleum Hydrocarbons as Gasoline
Total Petroleum Hydrocarbons as Diesel
Total Petroleum Hydrocarbons as Oil
Benzene
Toluene
Ethylbenzene
Total Xylenes
ND = Not Detected

SOURCE: Modified by
from maps provided by
Tosco Marketing Company

FN 6563

GROUNDWATER SAMPLE ANALYSES MAP - 3/31/99

TOSCO FACILITY 5353
600 Westlake Avenue North
Seattle, Washington

PROJECT NO.
31020

PLATE
P-1

DATE: 7/8/99

EXPLANATION

- ◆ Groundwater Monitoring Well
- 9.70 Groundwater Elevation
- 0.01 Free Product Thickness in Feet
- NM Not Measured
- NS Not Sampled

ERI ENVIRONMENTAL RESOLUTIONS, INC.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 1 of 5

| Well Name | Sample Date | DTW | LPH | GW Elev. | TPH-G | TPH-D | TPH-O | B | T | E | X |
|-----------------------------|------------------------|-------|-------|----------|--------------------|-------|--------|--------|--------|--------|-------|
| SMW-3 | 03/08/95 | 10.25 | 0.00 | -- | <50 | 400 | 2,500 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 06/06/95 | 10.23 | 0.00 | -- | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 09/07/95 | 10.89 | 0.00 | -- | <50 | 300 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 12/08/95 | 10.36 | 0.00 | -- | <50 | 300 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 04/01/96 | 10.07 | 0.00 | -- | 34,000 | 4,000 | 2,300 | 6,400 | 42 | 2,100 | 3,000 |
| | 08/25/96 | 10.19 | 0.00 | -- | <50.0 | 320 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 09/27/96 | 11.12 | 0.00 | -- | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 03/28/97 | 10.19 | 0.00 | -- | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 06/30/97 ^{NP} | 10.14 | 0.00 | -- | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 09/08/97 ^{NP} | 10.85 | 0.00 | -- | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 12/19/97 ^{NP} | 9.67 | 0.00 | -- | <50.0 | 521 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 3/18/98 ^{NP} | 9.28 | 0.00 | -- | 50.1 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 6/26/98 ^{NP} | 8.87 | 0.00 | -- | <50.0 | 500 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 9/23/98 ^{NP} | 9.88 | 0.00 | -- | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 12/17/98 ^{NP} | 9.22 | 0.00 | -- | <50.0 | 293 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| 3/31/99 ^{NP} | 9.01 | 0.00 | -- | <50.0 | 360 | <750 | <0.500 | <0.500 | 0.526 | 4.97 | |
| SMW-4 | 03/08/95 | 8.14 | 0.00 | -- | 39,000 | 4,100 | 5,100 | 13,000 | <250 | 2,400 | 8,200 |
| | 06/06/95 | 8.90 | 0.00 | -- | 41,000 | 5,500 | <750 | 9,400 | 44 | 2,700 | 4,900 |
| | 09/07/95 | 8.99 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/08/95 | 7.56 | 0.00 | -- | 40,000 | 1,500 | 920 | 8,100 | 57 | 2,600 | 3,500 |
| | 04/01/96 | 8.13 | 0.00 | -- | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 08/25/96 | 8.20 | 0.00 | -- | 28,100 | 2,680 | 630 | 3,900 | 81.4 | 1,710 | 1,710 |
| | 09/27/96 | 8.62 | 0.00 | -- | 28,600 | 2,460 | <750 | 6,080 | <0.500 | 2,060 | 1,730 |
| | 03/28/97 | 8.20 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/30/97 | 8.06 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | 9.00 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 | 9.41 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/18/98 | 9.09 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 | 8.76 | Trace | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/23/98 | 9.96 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/98 | 10.22 | Trace | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/31/99 | 8.70 | Trace | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-32A 20.70 | 03/08/95 | 11.29 | 0.00 | 9.69 | 21,000 | 2,300 | 2,300 | 5,800 | 1,700 | 990 | 2,900 |
| | 06/06/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/07/95 | 11.27 | -- | 9.43 | 20,000 | 2,500 | 1,600 | 4,200 | 470 | 730 | 2,000 |
| | 12/08/95 | 10.61 | -- | 10.06 | 11,000 | 1,200 | <750 | 1,600 | 86 | 420 | 910 |
| | 04/01/96 | 10.90 | -- | 9.80 | 7,900 | 1,400 | 1,000 | 2,200 | 58 | 300 | 490 |
| | 06/25/96 | 10.98 | -- | 9.72 | 7,500 | 1,250 | <750 | 1,200 | 60.4 | 217 | 435 |
| | 09/27/96 | 11.37 | -- | 9.61 | 7,050 | 1,040 | <750 | 1,570 | 37.4 | 264 | 416 |
| | 03/28/97 | 11.26 | -- | 9.72 | -- | -- | -- | -- | -- | -- | -- |
| | 06/30/97 | 10.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | 11.67 | 0.00 | 9.31 | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 | 11.42 | 0.00 | 9.28 | -- | -- | -- | -- | -- | -- | -- |
| | 3/18/98 | 11.30 | 0.00 | 9.40 | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 | 11.29 | 0.00 | 9.41 | -- | -- | -- | -- | -- | -- | -- |
| | 9/23/98 | 11.97 | 0.00 | 8.73 | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/98 | 11.09 | 0.00 | 9.61 | -- | -- | -- | -- | -- | -- | -- |
| 3/31/99 | 10.47 | 0.00 | 10.23 | -- | -- | -- | -- | -- | -- | -- | |
| MW-33 20.75 | 03/08/95 | 11.18 | 0.00 | 9.73 | 4,900 | 1,400 | 2,000 | 650 | <25 | 320 | 420 |
| | 06/06/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/07/95 | 11.20 | 0.00 | 9.55 | 9,700 | 1,400 | 820 | 550 | 140 | 230 | 620 |
| | 12/08/95 | -- | -- | -- | 13,000 | 1,900 | 1,800 | 800 | 240 | 280 | 760 |
| | 04/01/96 | 11.00 | 0.00 | 9.75 | 5,200 | 960 | <750 | 630 | 33 | 130 | 270 |
| | 06/25/96 | 11.05 | 0.00 | 9.70 | 2,700 | 1,030 | <750 | 230 | 24.6 | 46.5 | 61.1 |
| | 09/27/96 | 11.13 | 0.00 | 9.76 | 5,150 | 1,190 | <750 | 1,190 | 237 | 66.3 | 272 |
| | 03/28/97 | 11.19 | 0.00 | 9.70 | -- | -- | -- | -- | -- | -- | -- |
| | 06/30/97 | 10.66 | 0.00 | 10.23 | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | 10.48 | 0.00 | 10.41 | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/18/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 | 11.18 | 0.00 | 9.57 | -- | -- | -- | -- | -- | -- | -- |
| | 9/23/98 | 11.90 | 0.00 | 8.85 | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/98 | 11.03 | 0.00 | 9.72 | -- | -- | -- | -- | -- | -- | -- |
| 3/31/99 | 10.38 | 0.00 | 10.37 | -- | -- | -- | -- | -- | -- | -- | |
| MTCA Method A Cleanup Level | | | | | 1,000 ^a | | | 5 | 40 | 30 | 20 |

Continued on Page 2.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 2 of 5

| Well Name | Sample Date | DTW | LPH | GW Elev. | TPH-G | TPH-D | TPH-O | B | T | E | X |
|-----------------------------|------------------------|-----------------------|-------|----------|--------------------|--------|--------|--------|--------|--------|--------|
| MW-34 21.42 | 03/08/95 | 11.62 | 0.00 | 10.08 | 8,200 | 1,100 | 480 | 2,400 | 1,500 | 250 | 1,300 |
| | 06/06/95 | 11.73 | 0.00 | 9.97 | 9,100 | 2,300 | <750 | 4,200 | 1,000 | 330 | 1,200 |
| | 09/07/95 | 11.57 | 0.00 | 9.85 | 18,000 | 1,800 | 930 | 4,800 | 2,300 | 560 | 2,000 |
| | 12/08/95 | 10.92 | 0.00 | 10.50 | 68,000 | 2,900 | 1,600 | 12,000 | 9,200 | 1,200 | 5,500 |
| | 04/01/96 | 11.21 | 0.00 | 10.21 | 10,000 | 1,900 | <750 | 5,500 | 580 | 520 | 1,200 |
| | 06/25/96 | 11.19 | 0.00 | 10.23 | 13,700 | 1,180 | <750 | 4,190 | 1,110 | 393 | 1,740 |
| | 09/27/96 | 11.58 | 0.00 | 10.12 | 16,300 | 1,030 | <750 | 5,010 | 2,520 | 841 | 1,310 |
| | 03/28/97 | 11.47 | 0.00 | 10.23 | -- | -- | -- | -- | -- | -- | -- |
| | 06/30/97 ^{NP} | 11.19 | 0.00 | 10.51 | 2,970 | 311 | <750 | 1,930 | 15.7 | 271 | 531 |
| | 09/08/97 ^{NP} | 11.74 | 0.00 | 9.96 | 8,390 | 455 | <750 | 3,920 | 645 | 567 | 1,270 |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 ^{NP} | 11.42 | 0.00 | 10.00 | 76,900 | 3,090 | <750 | 13,400 | 11,100 | 2,310 | 9,080 |
| | 9/23/98 ^{NP} | 12.23 | 0.00 | 9.19 | 9,040 | 3,000 | 799 | 3,540 | 243 | 636 | 1,650 |
| | 12/17/98 ^{NP} | 11.35 | 0.00 | 10.07 | 80,900 | 5,470 | 1,380 | 14,200 | 10,800 | 3,110 | 11,800 |
| 3/31/99 ^{NP} | 10.85 | 0.00 | 10.57 | 33,400 | 1,910 | <750 | 5,970 | 1,740 | 1,400 | 3,820 | |
| MW-35 20.10 | 03/08/95 | 10.67 | 0.00 | 9.60 | 2,500 | 1,200 | 1,300 | 400 | <25 | 120 | 83 |
| | 06/06/95 | 10.67 | 0.00 | 9.60 | 810 | 1,000 | 930 | 82 | 1.4 | 27 | 36 |
| | 09/07/95 | 10.87 | 0.00 | 9.43 | -- | -- | -- | -- | -- | -- | -- |
| | 12/08/95 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/01/96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/25/96 | 11.11 | 0.00 | 8.99 | 1,820 | 850 | <750 | 68.2 | 1.11 | 26.7 | 17.6 |
| | 09/27/96 | 10.64 | 0.00 | 9.63 | 959 | 524 | <750 | 38.8 | 0.990 | 10.4 | 6.18 |
| | 03/28/97 ^{NP} | 11.28 | 0.00 | 8.99 | 1,370 | 333 | <750 | 181 | 2.36 | 31.9 | 10.7 |
| | 03/28/97 | 11.28 | 0.00 | 8.99 | 1,800 | <250 | <750 | 250 | 2.62 | 49.1 | 8.04 |
| | 06/30/97 ^{NP} | 10.19 | 0.00 | 10.08 | 1,500 | <250 | <750 | 348 | <2.50 | 65.0 | 7.31 |
| | 09/08/97 ^{NP} | 10.86 | 0.00 | 9.41 | 4,200 | <250 | <750 | 1,480 | 16.2 | 281 | 68.2 |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/16/98 ^{NP} | 10.64 | 0.00 | 9.46 | 905 | 361 | <750 | 410 | 4.24 | <2.50 | <5.00 |
| | 6/26/98 ^{NP} | 10.65 | 0.00 | 9.45 | 1,300 | 682 | <750 | 600 | <10.0 | 45.1 | <20.0 |
| | 9/23/98 ^{NP} | 11.38 | 0.00 | 8.72 | 665 | 659 | <750 | 243 | <2.50 | <2.50 | <5.00 |
| | 12/17/98 ^{NP} | 10.49 | 0.00 | 9.61 | 699 | 572 | <750 | 402 | <2.50 | 10.8 | 9.99 |
| | 3/31/99 | Obstructed by vehicle | | | | | | | | | |
| MW-36 17.80 | 03/08/95 | 9.07 | 0.00 | 8.97 | <50 | 560 | 1,200 | 2.6 | <0.5 | <0.5 | <1.0 |
| | 06/06/95 | 7.92 | 0.00 | 10.12 | <50 | <250 | <750 | 1.0 | <0.5 | <0.5 | <1.0 |
| | 09/07/95 | 8.11 | 0.00 | 9.69 | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 12/08/95 | 9.00 | 0.00 | 8.80 | <50 | 510 | 1,200 | 1.1 | <0.5 | <0.5 | <1.0 |
| | 04/01/96 | 9.00 | 0.00 | 8.80 | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 06/25/96 | 8.97 | 0.00 | -- | <50.0 | <250 | <750 | 0.580 | 0.500 | <0.500 | <1.00 |
| | 09/27/96 | 7.53 | 0.00 | 10.51 | <50.0 | <250 | <750 | 1.18 | <0.500 | <0.500 | <1.00 |
| | 03/28/97 | 9.21 | 0.00 | 8.83 | <50.0 | <250 | <750 | 0.810 | <0.500 | <0.500 | <1.00 |
| | 06/30/97 ^{NP} | 6.88 | 0.00 | 11.16 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 09/08/97 ^{NP} | 9.21 | 0.00 | 8.83 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 12/19/97 ^{NP} | 10.09 | 0.00 | 7.71 | <50.0 | <250 | <750 | 0.606 | <0.500 | <0.500 | <1.00 |
| | 3/16/98 ^{NP} | 9.29 | 0.00 | 8.51 | 56.6 | 267 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 6/26/98 ^{NP} | 8.47 | 0.00 | 9.33 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 9/23/98 ^{NP} | 9.89 | 0.00 | 7.91 | <50.0 | <250 | <750 | 0.737 | <0.500 | <0.500 | 1.13 |
| | 12/17/98 ^{NP} | 10.00 | 0.00 | 7.80 | <50.0 | 288 | <750 | 0.533 | <0.500 | <0.500 | <1.00 |
| 3/31/99 ^{NP} | 8.96 | 0.00 | 8.84 | <50.0 | 321 | <750 | 0.758 | <0.500 | <0.500 | <1.00 | |
| MW-37 21.01 | 03/08/95 | 11.94 | 0.00 | 9.24 | 34 | 3,200 | 1,400 | 3,100 | 2,400 | 1,200 | 6,700 |
| | 06/06/95 | 11.76 | 0.01 | 9.43 | 45 | 4,600 | 2,500 | 3,700 | 2,400 | 1,300 | 7,900 |
| | 06/06/95 | 11.76 | 0.01 | 9.43 | 90 | -- | -- | 5,190 | 6,000 | 2,400 | 14,000 |
| | 09/07/95 | 11.17 | 0.00 | 9.84 | -- | -- | -- | -- | -- | -- | -- |
| | 12/08/95 | 10.22 | 0.00 | 10.79 | -- | -- | -- | -- | -- | -- | -- |
| | 04/01/96 | 10.79 | 0.02 | 10.22 | -- | -- | -- | -- | -- | -- | -- |
| | 06/25/96 | 10.82 | 0.20 | 10.19 | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/96 | 11.47 | 0.05 | 9.75 | -- | -- | -- | -- | -- | -- | -- |
| | 03/28/97 ^{NP} | 11.14 | 0.25 | 10.40 | 60,100 | 7,570 | 789 | 1,530 | 2,180 | 1,650 | 7,440 |
| | 03/28/97 | 11.14 | 0.25 | 10.40 | 287,000 | 43,100 | <8,250 | 6,570 | 13,200 | 4,530 | 22,900 |
| | 06/30/97 | 10.80 | 0.02 | 10.23 | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | 11.41 | 0.23 | 9.77 | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 | 11.28 | 0.02 | 9.75 | -- | -- | -- | -- | -- | -- | -- |
| | 3/16/98 | 11.11 | 0.01 | 8.90 | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 | 11.32 | 0.01 | 9.70 | -- | -- | -- | -- | -- | -- | -- |
| | 9/23/98 | 12.01 | 0.03 | 9.03 | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/98 | 11.00 | Trace | 10.01 | -- | -- | -- | -- | -- | -- | -- |
| 3/31/99 | -- | Trace | -- | -- | -- | -- | -- | -- | -- | -- | |
| MTCA Method A Cleanup Level | | | | | 1,000 ^a | 5 | 40 | 30 | 20 | | |

Continued on Page 3.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 3 of 5

| Well Name | Sample Date | DTW | LPH | GW Elev. | TPH-G | TPH-D | TPH-O | B | T | E | X |
|-----------------------------|------------------------|-------|------|----------|--------------------|--------|--------|--------|--------|--------|-------|
| MW-38 | 03/08/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16.52 | 06/06/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/07/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/08/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/01/96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/25/96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/28/97 | 9.23 | 0.00 | 7.60 | <50 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-40 | 03/08/95 | 10.98 | 0.00 | 10.14 | 960 | 2,600 | 2,600 | 11 | <0.5 | 11 | <1.0 |
| 20.89 | 06/06/95 | 11.18 | 0.00 | 9.94 | 1,500 | 2,300 | 1,600 | 6.8 | 4.3 | 4.1 | 21 |
| | 09/07/95 | 11.08 | 0.00 | 9.81 | 650 | 13,000 | 66,000 | 11 | 0.91 | 0.57 | <1.0 |
| | 12/08/95 | 10.30 | 0.00 | 10.59 | 500 | 1,400 | 4,800 | 2.7 | 3 | <0.5 | <1.0 |
| | 04/01/96 | 10.56 | 0.00 | 10.33 | 520 | 3,200 | 13,000 | 1.2 | <0.5 | 0.55 | <1.0 |
| | 06/25/96 | 10.69 | 0.00 | 10.20 | 500 | 2,700 | 3,460 | <0.500 | 9.82 | <0.500 | <1.00 |
| | 09/27/96 | 10.95 | 0.00 | 10.17 | 602 | 3,550 | 3,860 | 0.604 | 41.1 | 0.525 | <1.0 |
| | 03/28/97 | 10.92 | 0.00 | 10.20 | -- | -- | -- | -- | -- | -- | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 ^{RP} | 11.11 | 0.00 | 9.78 | 325 | 3,260 | 12,600 | <0.500 | 0.504 | 0.663 | 2.44 |
| | 3/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/98 ^{RP} | 10.86 | 0.00 | 10.03 | 384 | 2,840 | 9,620 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 3/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-41 | 03/08/95 | 14.72 | -- | 12.48 | <50 | <250 | <750 | 1.6 | <0.5 | <0.5 | <1.0 |
| 27.00 | 06/06/95 | 15.02 | -- | 12.18 | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 09/07/95 | 15.00 | -- | 12.00 | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 12/08/95 | 16.30 | -- | 10.70 | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 04/01/96 | 15.02 | -- | 11.98 | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 06/25/96 | 15.07 | -- | 11.93 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 09/27/96 | 15.42 | 0.00 | 11.78 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 03/28/97 | 15.27 | 0.00 | 11.93 | -- | -- | -- | -- | -- | -- | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-42 | 03/08/95 | 9.45 | 0.00 | 10.91 | 130 | 870 | 1,200 | 790 | <25 | <25 | <50 |
| 20.34 | 06/06/95 | 9.37 | 0.00 | 10.89 | 120 | 920 | 1,500 | 500 | <0.56 | <0.5 | <1.0 |
| | 09/07/95 | 9.50 | 0.00 | 10.84 | 3,000 | 780 | 1,200 | 210 | 4.1 | 42 | 230 |
| | 12/08/95 | 8.95 | 0.00 | 11.39 | 200 | 1,300 | 1,900 | 380 | <2.0 | <2.0 | <4.0 |
| | 04/01/96 | 9.03 | 0.00 | 11.31 | 180 | 650 | <750 | 280 | 0.52 | <0.5 | <1.0 |
| | 06/25/96 | 9.07 | 0.00 | 11.27 | 150 | 720 | <750 | 150 | <0.500 | <0.500 | <1.00 |
| | 09/27/96 | 9.12 | 0.00 | 11.24 | <250 | 534 | <750 | 228 | <2.50 | <2.50 | <5.00 |
| | 03/28/97 | 9.09 | 0.00 | 11.27 | -- | -- | -- | -- | -- | -- | -- |
| | 06/30/97 | 8.92 | 0.00 | 11.44 | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | 9.57 | 0.00 | 10.79 | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/16/98 | 9.53 | 0.00 | 10.81 | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 | 9.51 | 0.00 | 10.83 | -- | -- | -- | -- | -- | -- | -- |
| | 9/23/98 | 9.96 | 0.00 | 10.38 | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/98 | 9.10 | 0.00 | 11.24 | -- | -- | -- | -- | -- | -- | -- |
| | 3/31/99 | 9.00 | 0.00 | 11.34 | -- | -- | -- | -- | -- | -- | -- |
| MTCA Method A Cleanup Level | | | | | 1,000 ^a | 5 | 40 | 30 | 20 | | |

Continued on Page 4.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 5353
600 Westlake Avenue North
Seattle, Washington
Page 4 of 5

| Well Name | Sample Date | DTW | LPH | GW Elev. | TPH-G | TPH-D | TPH-O | B | T | E | X |
|-----------------------------|------------------------|-------|-------|----------|-------|--------------------|--------|--------|--------|--------|-------|
| MW-43 21.04 | 03/08/95 | 11.35 | 0.00 | 9.94 | <50 | 650 | 2,400 | 25 | <0.5 | <0.5 | <1.0 |
| | 06/06/95 | 11.45 | 0.00 | 9.84 | <50 | 690 | 1,500 | 8.2 | <0.5 | <0.5 | <1.0 |
| | 09/07/95 | 11.14 | 0.00 | 9.90 | <50 | <250 | 850 | 10 | <0.5 | <0.5 | <1.0 |
| | 12/08/95 | 10.85 | 0.00 | 10.19 | <50 | 980 | 3,100 | 37 | <0.5 | <0.5 | <1.0 |
| | 04/01/96 | 10.98 | 0.00 | 10.06 | <50 | 300 | <750 | 4.5 | <0.5 | <0.5 | <1.0 |
| | 08/25/96 | 11.06 | 0.00 | 9.98 | <50.0 | 370 | <750 | 2.57 | <0.500 | <0.500 | <1.00 |
| | 09/27/96 | 11.33 | 0.00 | 9.96 | <50.0 | 339 | <750 | 4.40 | <0.5 | <0.500 | <1.00 |
| | 03/28/97 | 11.13 | 0.00 | 9.98 | <50.0 | <250 | <750 | 5.89 | 0.884 | <0.500 | 2.47 |
| | 06/30/97 ^{SP} | 7.08 | 0.00 | 14.21 | <50.0 | <250 | <750 | 59.2 | <0.500 | <0.500 | <1.00 |
| | 09/08/97 ^{SP} | 11.46 | 0.00 | 9.83 | 83 | <250 | <750 | 35.5 | <0.500 | 2.10 | 3.08 |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/16/98 ^{SP} | 11.09 | 0.00 | 9.95 | 76.3 | 408 | <750 | 26.5 | <0.500 | <0.500 | <1.00 |
| | 6/26/98 ^{NI} | 11.26 | 0.00 | 9.78 | <50.0 | 346 | <750 | 69.6 | <0.500 | <0.500 | <1.00 |
| | 9/23/98 ^{SP} | 11.75 | 0.00 | 9.29 | <50.0 | 267 | <750 | 9.05 | <0.500 | <0.500 | <1.00 |
| | 12/17/98 ^{SP} | 11.07 | 0.00 | 9.97 | <50.0 | <250 | <750 | 33.0 | <0.500 | <0.500 | <1.00 |
| 3/31/99 ^{SP} | 10.97 | 0.00 | 10.07 | <50.0 | 267 | <750 | 8.84 | <0.500 | 0.782 | 2.47 | |
| MW-44 18.73 | 03/08/95 | 9.44 | 0.00 | 10.46 | <50 | 290 | 940 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 06/06/95 | 8.28 | 0.00 | 10.62 | <50 | <250 | 820 | <0.5 | <0.5 | <0.5 | 1.6 |
| | 09/07/95 | 7.94 | 0.00 | 10.79 | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 12/08/95 | 8.09 | 0.00 | 10.64 | <50 | 520 | 2,500 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 04/01/96 | 7.98 | 0.00 | 10.75 | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 06/25/96 | 7.90 | 0.00 | 10.83 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 09/27/96 | 8.28 | 0.00 | 10.59 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 03/28/97 | 8.07 | 0.00 | 10.83 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 06/30/97 ^{SP} | 7.84 | 0.00 | 11.06 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 09/08/97 ^{SP} | 8.65 | 0.00 | 10.25 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 12/19/97 ^{SP} | 8.51 | 0.00 | 10.22 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 3/16/98 ^{SP} | 8.43 | 0.00 | 10.30 | 60.0 | 310 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 6/26/98 ^{SP} | 8.37 | 0.00 | 10.36 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 9/23/98 ^{SP} | 9.30 | 0.00 | 9.43 | <50.0 | 343 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 12/17/98 ^{SP} | 8.10 | 0.00 | 10.63 | <50.0 | 271 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| 3/31/99 ^{SP} | 8.18 | 0.00 | 10.55 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | |
| MW-46 16.91 | 03/08/95 | 8.00 | 0.00 | 8.91 | <50 | 720 | 3,600 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 06/06/95 | 7.30 | 0.00 | 10.01 | <50 | <250 | 1,400 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 09/07/95 | 7.80 | 0.00 | 8.93 | <50 | 710 | 5,600 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 12/08/95 | 8.32 | 0.00 | 8.59 | <50 | 1,400 | 14,000 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 04/01/96 | 7.04 | 0.00 | 9.87 | <50 | <400 | 2,800 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 06/25/96 | 7.85 | 0.00 | 9.06 | <50.0 | 440 | 2,090 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 09/27/96 | 7.57 | 0.00 | 9.74 | <50.0 | 267 | <750 | 0.518 | <0.500 | <0.500 | <1.00 |
| | 03/28/97 | 7.25 | 0.00 | 10.06 | <50.0 | <250 | <750 | <0.500 | 1.25 | <0.500 | 2.06 |
| | 06/30/97 | 7.12 | 0.00 | 10.19 | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | 8.82 | 0.00 | 8.49 | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 ^{SP} | 9.40 | 0.00 | 7.51 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| | 3/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/98 ^{SP} | 9.20 | 0.00 | 7.71 | <50.0 | 354 | <750 | <0.500 | <0.500 | <0.500 | <1.00 |
| 3/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| MW-47 19.83 | 03/08/95 | 10.88 | 0.00 | 9.16 | <50 | 330 | 1,600 | 5.3 | <0.5 | <0.5 | <1.0 |
| | 06/06/95 | 10.91 | 0.00 | 9.13 | 70 | 380 | 780 | 15 | 0.59 | <0.5 | 2.3 |
| | 09/07/95 | 10.76 | 0.00 | 9.07 | <50 | 260 | <750 | 1.7 | <0.5 | <0.5 | <1.0 |
| | 12/08/95 | 10.40 | 0.00 | 9.43 | 740 | 569 | 2,000 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 04/01/96 | 10.67 | 0.00 | 9.16 | <50 | <250 | <750 | 4.4 | <0.5 | <0.5 | <1.0 |
| | 08/25/96 | 10.71 | 0.00 | 9.12 | 110 | 400 | <750 | 14.4 | <0.500 | <0.500 | <1.00 |
| | 09/27/96 | 10.85 | 0.00 | 9.19 | <50.0 | <250 | <750 | 4.34 | <0.500 | <0.500 | <1.00 |
| | 03/28/97 ^{SP} | 10.92 | 0.00 | 9.12 | 64.5 | <250 | <750 | 7.81 | <0.500 | <0.500 | 1.57 |
| | 03/28/97 | 10.92 | 0.00 | 9.12 | 177 | <250 | <750 | 52.6 | <0.500 | <0.500 | <1.00 |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 6/26/98 ^{SP} | 10.78 | 0.00 | 9.05 | <50.0 | 356 | <750 | 27.3 | <0.500 | <0.500 | <1.00 |
| | 9/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/17/98 ^{SP} | 10.81 | 0.00 | 9.22 | <50.0 | <250 | <750 | 3.34 | <0.500 | <0.500 | 1.12 | |
| 3/31/99 | 9.65 | 0.00 | 10.18 | -- | -- | -- | -- | -- | -- | -- | |
| MTCA Method A Cleanup Level | | | | | | 1,000 ^a | 5 | 40 | 30 | 20 | |

Continued on Page 5.

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
 Tosco Facility 5353
 600 Westlake Avenue North
 Seattle, Washington
 Page 5 of 5

| Well Name | Sample Date | DTW | LPH | GW Elev. | TPH-G | TPH-D | TPH-O | B | T | E | X |
|-----------|-------------|-----|-----|----------|-------|-------|-------|---|---|---|---|
|-----------|-------------|-----|-----|----------|-------|-------|-------|---|---|---|---|

EXPLANATION:

Concentrations in ug/L (ppb).

Wellhead elevations taken from prior consultant's reports.

DTW = Depth to water in feet below top of casing except where noted in prior reports.

LPH = Liquid-phase petroleum hydrocarbon thickness in feet.

GW Elev. = Groundwater elevation relative to DTW data; corrected for LPH where applicable using a specific gravity of 0.85.

TPH-G = Total Petroleum Hydrocarbons as Gasoline by Ecology Method WTPH-G.

TPH-D and TPH-O = Total petroleum hydrocarbons as diesel and as oil (respectively) by Ecology Method WTPH-D (Extended).

B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes.

BTEX = Aromatic compounds by EPA Method 8020.

"N" = Well not purged prior to sampling.

< = Less than the stated laboratory reporting limit.

- = Not analyzed or no data.

Shaded values equal or exceed MTCA Method A Cleanup Levels.

* Total Petroleum Hydrocarbons

Data collected before 12/19/97 are taken from prior consultants.



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| | | |
|--|--|--|
| ERI 1921 Edmonds Drive SE Renton, WA 98055 | Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer | Sampled: 3/31/99 Received: 4/1/99 Reported: 7/8/99 08:32 |
|--|--|--|

ANALYTICAL REPORT FOR SAMPLES:

| Sample Description | Laboratory Sample Number | Sample Matrix | Date Sampled |
|--------------------|--------------------------|---------------|--------------|
| MW-3 | B904026-01 | Water | 3/31/99 |
| MW-34 | B904026-02 | Water | 3/31/99 |
| MW-36 | B904026-03 | Water | 3/31/99 |
| MW-43 | B904026-04 | Water | 3/31/99 |
| MW-44 | B904026-05 | Water | 3/31/99 |

North Creek Analytical - Bothell

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

Matthew Essig, Project Manager

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| | | |
|--|--|--|
| ERI 1921 Edmonds Drive SE Renton, WA 98055 | Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer | Sampled: 3/31/99 Received: 4/1/99 Reported: 7/8/99 08:32 |
|--|--|--|

**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended)
 North Creek Analytical - Bothell**

| Analyte | Batch Number | Date Prepared | Date Analyzed | Surrogate Limits | Reporting Limit | Result | Units | Notes* |
|------------------------------|--------------|---------------|---------------|-------------------|-----------------|--------|-------|--------------|
| MW-3 | | | | B904026-01 | | | | Water |
| Diesel Range Hydrocarbons | 0490131 | 4/6/99 | 4/7/99 | | 0.250 | 0.360 | mg/l | |
| Heavy Oil Range Hydrocarbons | " | " | " | | 0.750 | ND | " | |
| Surrogate: 2-FBP | " | " | " | 50.0-150 | | 94.5 | % | |
| MW-34 | | | | B904026-02 | | | | Water |
| Diesel Range Hydrocarbons | 0490131 | 4/6/99 | 4/7/99 | | 0.250 | 1.91 | mg/l | |
| Heavy Oil Range Hydrocarbons | " | " | " | | 0.750 | ND | " | |
| Surrogate: 2-FBP | " | " | " | 50.0-150 | | 71.1 | % | |
| MW-36 | | | | B904026-03 | | | | Water |
| Diesel Range Hydrocarbons | 0490131 | 4/6/99 | 4/7/99 | | 0.250 | 0.321 | mg/l | |
| Heavy Oil Range Hydrocarbons | " | " | " | | 0.750 | ND | " | |
| Surrogate: 2-FBP | " | " | " | 50.0-150 | | 87.1 | % | |
| MW-43 | | | | B904026-04 | | | | Water |
| Diesel Range Hydrocarbons | 0490131 | 4/6/99 | 4/7/99 | | 0.250 | 0.267 | mg/l | |
| Heavy Oil Range Hydrocarbons | " | " | " | | 0.750 | ND | " | |
| Surrogate: 2-FBP | " | " | " | 50.0-150 | | 72.3 | % | |
| MW-44 | | | | B904026-05 | | | | Water |
| Diesel Range Hydrocarbons | 0490131 | 4/6/99 | 4/7/99 | | 0.250 | ND | mg/l | |
| Heavy Oil Range Hydrocarbons | " | " | " | | 0.750 | ND | " | |
| Surrogate: 2-FBP | " | " | " | 50.0-150 | | 88.4 | % | |

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

Matthew Essig, Project Manager

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| | | |
|--|--|--|
| ERI 1921 Edmonds Drive SE Renton, WA 98055 | Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer | Sampled: 3/31/99 Received: 4/1/99 Reported: 7/8/99 08:32 |
|--|--|--|

**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A
 North Creek Analytical - Spokane**

| Analyte | Batch Number | Date Prepared | Date Analyzed | Surrogate Limits | Reporting Limit | Result | Units | Notes* |
|-----------------------------|--------------|---------------|---------------|-------------------|-----------------|--------------|--------------|--------|
| | | | | B904026-01 | | | | |
| MW-3 | | | | | | | Water | |
| Gasoline Range Hydrocarbons | 0490039 | 4/9/99 | 4/12/99 | | 50.0 | ND | ug/l | |
| Benzene | " | " | " | | 0.500 | ND | " | |
| Toluene | " | " | " | | 0.500 | ND | " | |
| Ethylbenzene | " | " | " | | 0.500 | 0.526 | " | |
| Xylenes (total) | " | " | " | | 1.00 | 4.97 | " | |
| Surrogate: 4-BFB (FID) | " | " | " | 50.0-150 | | 97.2 | % | |
| Surrogate: 4-BFB (PID) | " | " | " | 53.0-142 | | 76.4 | " | |
| | | | | B904026-02 | | | | |
| MW-34 | | | | | | | Water | |
| Gasoline Range Hydrocarbons | 0490039 | 4/9/99 | 4/12/99 | | 500 | 33400 | ug/l | |
| Benzene | " | " | " | | 5.00 | 5970 | " | |
| Toluene | " | " | " | | 5.00 | 1740 | " | |
| Ethylbenzene | " | " | " | | 5.00 | 1400 | " | |
| Xylenes (total) | " | " | " | | 10.0 | 3820 | " | |
| Surrogate: 4-BFB (FID) | " | " | " | 50.0-150 | | 166 | % | 1 |
| Surrogate: 4-BFB (PID) | " | " | " | 53.0-142 | | 126 | " | |
| | | | | B904026-03 | | | | |
| MW-36 | | | | | | | Water | |
| Gasoline Range Hydrocarbons | 0490039 | 4/9/99 | 4/12/99 | | 50.0 | ND | ug/l | |
| Benzene | " | " | " | | 0.500 | 0.759 | " | |
| Toluene | " | " | " | | 0.500 | ND | " | |
| Ethylbenzene | " | " | " | | 0.500 | ND | " | |
| Xylenes (total) | " | " | " | | 1.00 | ND | " | |
| Surrogate: 4-BFB (FID) | " | " | " | 50.0-150 | | 90.8 | % | |
| Surrogate: 4-BFB (PID) | " | " | " | 53.0-142 | | 68.4 | " | |
| | | | | B904026-04 | | | | |
| MW-43 | | | | | | | Water | |
| Gasoline Range Hydrocarbons | 0490039 | 4/9/99 | 4/12/99 | | 50.0 | ND | ug/l | |
| Benzene | " | " | " | | 0.500 | 9.84 | " | |
| Toluene | " | " | " | | 0.500 | ND | " | |
| Ethylbenzene | " | " | " | | 0.500 | 0.782 | " | |
| Xylenes (total) | " | " | " | | 1.00 | 2.47 | " | |
| Surrogate: 4-BFB (FID) | " | " | " | 50.0-150 | | 104 | % | |
| Surrogate: 4-BFB (PID) | " | " | " | 53.0-142 | | 78.4 | " | |
| | | | | B904026-05 | | | | |
| MW-44 | | | | | | | Water | |
| Gasoline Range Hydrocarbons | 0490039 | 4/9/99 | 4/12/99 | | 50.0 | ND | ug/l | |
| Benzene | " | " | " | | 0.500 | ND | " | |

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

Matthew Essig, Project Manager

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 541.383.9310 fax 541.382.7588

| | | |
|--|--|--|
| ERI 1921 Edmonds Drive SE Renton, WA 98055 | Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer | Sampled: 3/31/99 Received: 4/1/99 Reported: 7/8/99 08:32 |
|--|--|--|

**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A
 North Creek Analytical - Spokane**

| Analyte | Batch Number | Date Prepared | Date Analyzed | Surrogate Limits | Reporting Limit | Result | Units | Notes* |
|--------------------------|--------------|---------------|---------------|-------------------|-----------------|--------|--------------|--------|
| <u>MW-44 (continued)</u> | | | | <u>B904026-05</u> | | | <u>Water</u> | |
| Toluene | 0490039 | 4/9/99 | 4/12/99 | | 0.500 | ND | ug/l | |
| Ethylbenzene | " | " | " | | 0.500 | ND | " | |
| Xylenes (total) | " | " | " | | 1.00 | ND | " | |
| Surrogate: 4-BFB (FID) | " | " | " | 50.0-150 | | 83.2 | % | |
| Surrogate: 4-BFB (PID) | " | " | " | 53.0-142 | | 65.2 | " | |

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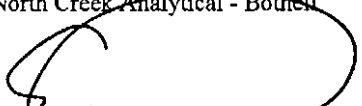
| | | |
|--|--|--|
| ERI 1921 Edmonds Drive SE Renton, WA 98055 | Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer | Sampled: 3/31/99 Received: 4/1/99 Reported: 7/8/99 08:32 |
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**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended)/Quality Control
 North Creek Analytical - Bothell**

| Analyte | Date Analyzed | Spike Level | Sample Result | QC Result | Units | Reporting Limit Recov. Limits | Recov. % | RPD Limit | RPD % | Notes* |
|------------------------------|---------------|-------------|--------------------------------|-----------|-------|--|----------|-----------|-------|--------|
| Batch: 0490131 | | | Date Prepared: 4/6/99 | | | Extraction Method: EPA 3520C/600 Series | | | | |
| Blank | | | 0490131-BLK1 | | | | | | | |
| Diesel Range Hydrocarbons | 4/7/99 | | | ND | mg/l | 0.250 | | | | |
| Heavy Oil Range Hydrocarbons | " | | | ND | " | 0.750 | | | | |
| Surrogate: 2-FBP | " | 0.326 | | 0.342 | " | 50.0-150 | 105 | | | |
| LCS | | | 0490131-BS1 | | | | | | | |
| Diesel Range Hydrocarbons | 4/7/99 | 2.00 | | 1.30 | mg/l | 60.0-140 | 65.0 | | | |
| Surrogate: 2-FBP | " | 0.326 | | 0.198 | " | 50.0-150 | 60.7 | | | |
| Duplicate | | | 0490131-DUP1 B903709-01 | | | | | | | |
| Diesel Range Hydrocarbons | 4/7/99 | | 0.308 | 0.370 | mg/l | | | 44.0 | 18.3 | |
| Heavy Oil Range Hydrocarbons | " | | ND | ND | " | | | 44.0 | | |
| Surrogate: 2-FBP | " | 0.616 | | 0.557 | " | 50.0-150 | 90.4 | | | |

North Creek Analytical - Bothell

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| | | |
|--|--|--|
| ERI 1921 Edmonds Drive SE Renton, WA 98055 | Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer | Sampled: 3/31/99 Received: 4/1/99 Reported: 7/8/99 08:32 |
|--|--|--|

**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A/Quality Control
 North Creek Analytical - Spokane**

| Analyte | Date Analyzed | Spike Level | Sample Result | QC Result | Units | Reporting Limit Recov. Limits | Recov. % | RPD Limit | RPD % | Notes* |
|-----------------------------|---------------|------------------------------|---------------|--|-------|-------------------------------|----------|-----------|-------|--------|
| Batch: 0490039 | | Date Prepared: 4/9/99 | | Extraction Method: GC Volatiles | | | | | | |
| Blank | | 0490039-BLK1 | | | | | | | | |
| Gasoline Range Hydrocarbons | 4/12/99 | | | ND | ug/l | 50.0 | | | | |
| Benzene | " | | | ND | " | 0.500 | | | | |
| Toluene | " | | | ND | " | 0.500 | | | | |
| Ethylbenzene | " | | | ND | " | 0.500 | | | | |
| Xylenes (total) | " | | | ND | " | 1.00 | | | | |
| Surrogate: 4-BFB (FID) | " | 25.0 | | 26.8 | " | 50.0-150 | 107 | | | |
| Surrogate: 4-BFB (PID) | " | 25.0 | | 19.4 | " | 53.0-142 | 77.6 | | | |
| Blank | | 0490039-BLK2 | | | | | | | | |
| Gasoline Range Hydrocarbons | 4/12/99 | | | ND | ug/l | 50.0 | | | | |
| Benzene | " | | | ND | " | 0.500 | | | | |
| Toluene | " | | | ND | " | 0.500 | | | | |
| Ethylbenzene | " | | | ND | " | 0.500 | | | | |
| Xylenes (total) | " | | | ND | " | 1.00 | | | | |
| Surrogate: 4-BFB (FID) | " | 25.0 | | 24.0 | " | 50.0-150 | 96.0 | | | |
| Surrogate: 4-BFB (PID) | " | 25.0 | | 21.5 | " | 53.0-142 | 86.0 | | | |
| LCS | | 0490039-BS1 | | | | | | | | |
| Gasoline Range Hydrocarbons | 4/12/99 | 1000 | | 1280 | ug/l | 70.0-150 | 128 | | | |
| Surrogate: 4-BFB (FID) | " | 25.0 | | 44.0 | " | 50.0-150 | 176 | | | 1 |
| LCS | | 0490039-BS2 | | | | | | | | |
| Gasoline Range Hydrocarbons | 4/12/99 | 1000 | | 1330 | ug/l | 70.0-150 | 133 | | | |
| Surrogate: 4-BFB (FID) | " | 25.0 | | 38.2 | " | 50.0-150 | 153 | | | 1 |
| LCS | | 0490039-BS3 | | | | | | | | |
| Benzene | 4/12/99 | 10.0 | | 9.47 | ug/l | 80.0-120 | 94.7 | | | |
| Toluene | " | 10.0 | | 10.5 | " | 80.0-120 | 105 | | | |
| Ethylbenzene | " | 10.0 | | 10.3 | " | 80.0-120 | 103 | | | |
| Xylenes (total) | " | 30.0 | | 32.0 | " | 80.0-120 | 107 | | | |
| Surrogate: 4-BFB (PID) | " | 25.0 | | 27.5 | " | 53.0-142 | 110 | | | |
| LCS | | 0490039-BS4 | | | | | | | | |
| Benzene | 4/12/99 | 10.0 | | 9.86 | ug/l | 80.0-120 | 98.6 | | | |
| Toluene | " | 10.0 | | 10.7 | " | 80.0-120 | 107 | | | |
| Ethylbenzene | " | 10.0 | | 10.5 | " | 80.0-120 | 105 | | | |
| Xylenes (total) | " | 30.0 | | 32.5 | " | 80.0-120 | 108 | | | |

North Creek Analytical - Bothell

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|--|--|--|
| ERI 1921 Edmonds Drive SE Renton, WA 98055 | Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer | Sampled: 3/31/99 Received: 4/1/99 Reported: 7/8/99 08:32 |
|--|--|--|

**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A/Quality Control
 North Creek Analytical - Spokane**

| Analyte | Date Analyzed | Spike Level | Sample Result | QC Result | Units | Reporting Limit Recov. Limits | Recov. % | RPD Limit | RPD % | Notes* |
|--------------------------------|---------------|-------------|---------------|-----------|-------|-------------------------------|----------|-----------|-------|--------|
| LCS (continued) | | | | | | | | | | |
| 0490039-BS4 | | | | | | | | | | |
| Surrogate: 4-BFB (PID) | 4/12/99 | 25.0 | | 28.2 | ug/l | 53.0-142 | 113 | | | |
| Duplicate | | | | | | | | | | |
| 0490039-DUP1 S904010-05 | | | | | | | | | | |
| Gasoline Range Hydrocarbons | 4/12/99 | | ND | ND | ug/l | | | | 60.0 | |
| Surrogate: 4-BFB (FID) | " | 25.0 | | 22.8 | " | 50.0-150 | 91.2 | | | |
| Surrogate: 4-BFB (PID) | " | 25.0 | | 18.7 | " | 53.0-142 | 74.8 | | | |
| Duplicate | | | | | | | | | | |
| 0490039-DUP2 S904022-03 | | | | | | | | | | |
| Gasoline Range Hydrocarbons | 4/12/99 | | ND | ND | ug/l | | | | 60.0 | |
| Surrogate: 4-BFB (FID) | " | 25.0 | | 26.5 | " | 50.0-150 | 106 | | | |
| Surrogate: 4-BFB (PID) | " | 25.0 | | 20.1 | " | 53.0-142 | 80.4 | | | |
| Duplicate | | | | | | | | | | |
| 0490039-DUP3 S904025-03 | | | | | | | | | | |
| Gasoline Range Hydrocarbons | 4/12/99 | | ND | ND | ug/l | | | | 60.0 | |
| Surrogate: 4-BFB (FID) | " | 25.0 | | 22.0 | " | 50.0-150 | 88.0 | | | |
| Surrogate: 4-BFB (PID) | " | 25.0 | | 17.0 | " | 53.0-142 | 68.0 | | | |
| Matrix Spike | | | | | | | | | | |
| 0490039-MS3 S904010-05 | | | | | | | | | | |
| Benzene | 4/12/99 | 10.0 | ND | 10.1 | ug/l | 54.0-143 | 101 | | | |
| Toluene | " | 10.0 | ND | 9.84 | " | 48.0-145 | 98.4 | | | |
| Ethylbenzene | " | 10.0 | ND | 9.18 | " | 49.0-142 | 91.8 | | | |
| Xylenes (total) | " | 30.0 | ND | 21.7 | " | 55.0-140 | 72.3 | | | |
| Surrogate: 4-BFB (PID) | " | 25.0 | | 28.6 | " | 53.0-142 | 114 | | | |
| Matrix Spike | | | | | | | | | | |
| 0490039-MS4 S904025-03 | | | | | | | | | | |
| Benzene | 4/12/99 | 10.0 | 1.25 | 10.1 | ug/l | 54.0-143 | 88.5 | | | |
| Toluene | " | 10.0 | ND | 9.76 | " | 48.0-145 | 97.6 | | | |
| Ethylbenzene | " | 10.0 | ND | 9.59 | " | 49.0-142 | 95.9 | | | |
| Xylenes (total) | " | 30.0 | 1.22 | 27.8 | " | 55.0-140 | 88.6 | | | |
| Surrogate: 4-BFB (PID) | " | 25.0 | | 27.8 | " | 53.0-142 | 111 | | | |

North Creek Analytical - Bothell

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|--|--|--|

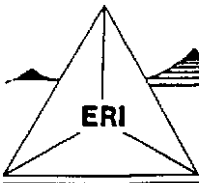
Notes and Definitions

| # | Note |
|---|------|
|---|------|

- 1 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference

North Creek Analytical - Bothell

Matthew Essig, Project Manager



GROUNDWATER SAMPLING - FIELD LOG

Client Name: Temo ERI Job No. 31020 Date: 3/19/97 Page 1 of 1
 Location: 5253 Hawthorne Field Cleaning Performed: _____
 Field Crew: CR Analysis: _____

* Case Volume = $(d_{well} - d_{casing})^2 \times h \times F$ where $F =$
 0.163 for a 2" inside diameter well casing
 0.652 for a 4" inside diameter well casing
 1.467 for a 6" inside diameter well casing

| Well No. | Time | Depth Water (ft.) | Depth Well (ft.) | Case Dia. (in) | Case Vol* gal | Purge Vol. (gal) | Conduct. μ S/CM (X1000) | Temp. Deg F | pH | TURB. NTU | PID PPH | Comments |
|----------|------|-------------------|------------------|----------------|---------------|------------------|-----------------------------|-------------|----|-----------|---------|----------------|
| 3 | | 9.01 | | | | | | | | | | NIP |
| 4 | | 8.70 | | THREE 4" DIA | | | | | | | | --- |
| 22A | | 10.47 | | | | | | | | | | --- |
| 23 | | 10.38 | | | | | | | | | | --- |
| 34 | | 10.85 | | | | | | | | | | NIP |
| 35 | | | | | | | | | | | | NIP |
| 36 | | 8.92 | | THREE 4" DIA | | | | | | | | NIP |
| 37 | | | | | | | | | | | | --- |
| 42 | | 9.00 | | THREE 4" DIA | | | | | | | | --- |
| 43 | | 10.97 | | | | | | | | | | NIP |
| 44 | | 8.18 | | | | | | | | | | NIP |
| 47 | | 9.65 | | | | | | | | | | --- |

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