# ANNUAL HYDROLOGIC REPORT

# 1990

# STAR POINT MINES
# ACT/007/006

# VOLUMES II, III, IV

# ANNUAL HYDROLOGIC REPORT

1990

STAR POINT MINES

Permit ACT/007/006

Volume II

# STAR POINT MINE

| STATION NUMBER | STATION NAME | ELEVATION FEET |
|---|---|---|
| | **WELLS** | |
| | BLACKHAWK FORMATION | |
| 85351 | 85-35-1 TIE FORK WELL | 8026.80 |
| 86352 | 86-35-2 LOWER CITY WELL | 8006.70 |
| 86353 | 86-35-3 UPPER CITY WELL | 8000.90 |
| 863523 | 86-35-2 & 86-35-3 COMBINED | - |
| | **SPRINGS** | |
| | BLACKHAWK FORMATION | |
| 530 | 530 | 9160.00 |
| | CASTLEGATE FORMATION | |
| 238 | 238 | 9200.00 |
| 492 | 492 | 9435.00 |
| 494 | 494 | 9380.00 |
| | PRICE RIVER | |
| S149 | S14-9 | 9340.00 |
| S182 | S18-2 | 9650.00 |
| 229 | 229 | 9650.00 |
| 500 | 500 | 9400.00 |
| | NORTH HORN | |
| S111 | S11-1 | 9680.00 |
| 232 | 232 | |
| 429 | 429 | 9875.00 |
| 444 | 444 | 9540.00 |
| 518 | 518 | 9685.00 |
| 748 | 748 GENTRY SPRING | 9780.00 |
| 749 | 749 WEST GENTRY SPRING | 9700.00 |
| 751 | 751 GENTRY PASTURE SPRING | 9870.00 |
| 753 | 753 | 10045.00 |
| 971 | 971 | 9855.00 |
| 978 | HUMBLE POND SPRING - 978 | 9945.00 |
| 85261 | 85-26-1 | 9450.00 |

# STAR POINT MINE

| STATION NUMBER | STATION NAME | ELEVATION FEET |
|---|---|---|
| | **STREAMS** | |
| | MUDWATER CREEK | |
| 51MW | 5-1 MUDWATER CREEK | 7210.00 |
| | CORNER CANYON CREEK | |
| 361 | 36-1 SOUTH FORK CORNER CANYON | 7835.00 |
| | SAGE BRUSH CANYON CREEK | |
| 101 | 10-1 SAGE BRUSH CANYON | 7280.00 |
| | TIE FORK CANYON TRIBUTARIES | |
| 341 | 34-1 WILD CATTLE HOLLOW CREEK | 7980.00 |
| 342 | 34-2 GENTRY HOLLOW CREEK | 7980.00 |
| | RIGHT FORK OF MILLER CREEK | |
| ST1 | ST-1 N FK OF RT FK MILLER CK | 7835.00 |
| M8 | M-8 N FK OF RT FK MILLER CK | 8270.00 |
| ST2 | ST-2 S FK OF RT FK MILLER CK | 7835.00 |
| | **MINE INFLOWS AND DISCHARGE** | |
| | COAL | |
| NSMUD | MUDWATER DISCHARGE (001) | 8588.00 |
| 1W4 | 1ST WEST NO 4 | 8595.00 |
| 1WN6 | 1ST WEST NORTH NO 6 | 8590.00 |
| 9L12 | 9TH LEFT NO 12 | 8475.00 |
| | **PONDS** | |
| NSP1 | SEDIMENT POND 1 (002) | 8315.00 |
| NSP4 | SEDIMENT POND 4 (004) | 7320.00 |
| NSP5 | SEDIMENT POND 5 (005) | 7400.00 |
| NSP6 | SEDIMENT POND 6 (006) | 7140.00 |
| NSP8 | SEDIMENT POND 8 (008) | 7050.00 |
| NSP9 | SEDIMENT POND 9 (010) | 7440.00 |

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: 85351 NAME: 85-35-1 TIE FORK WELL TYPE: WELL DATUM ELEV.: 8026.80 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 08/15/85 | 16:00 | | | | 0.0670 | CFS | |
| 09/27/85 | : | 13.0 | | | 0.0670 | CFS | |
| 04/28/86 | 14:15 | | | | 0.0370 | CFS | |
| 06/12/86 | : | | | | 0.0330 | CFS | |
| 10/03/86 | 9:15 | 1.0 | | | 0.0330 | CFS | |
| 06/25/87 | 13:00 | 26.0 | | | 0.0390 | CFS | |
| 07/16/87 | 14:30 | 15.6 | | | 0.0370 | CFS | |
| 08/12/87 | 14:55 | 2.6 | | | 0.0300 | CFS | |
| 09/23/87 | 10:20 | 14.0 | | | 0.0360 | CFS | |
| 06/13/88 | 13:30 | | | | 0.0220 | CFS | |
| 07/09/88 | 14:40 | | | | 0.0210 | CFS | |
| 08/20/88 | 15:00 | | | | 0.0180 | CFS | |
| 09/03/88 | 13:30 | | | | 0.0240 | CFS | |
| 06/07/89 | 12:15 | | | | 0.0020 | CFS | |
| 07/11/89 | 10:00 | | | | 0.0330 | CFS | |
| 08/23/89 | 8:05 | | | | 0.0230 | CFS | |
| 09/14/89 | 8:20 | | | | 0.0270 | CFS | |
| 06/02/90 | 12:30 | | | | 0.0450 | CFS | |
| 07/06/90 | 13:15 | | | | 0.0270 | CFS | |
| 08/22/90 | 9:10 | | | | 0.0270 | CFS | |
| 09/24/90 | 11:15 | | | | 0.0180 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

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WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 85351 STATION NAME: 85-35-1 TIE FORK WELL TYPE: WELL DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/15/85 | | | 600.0 | | 7.15 | | 354.0 | 3.5 | | | 288.0 | |
| 09/27/85 | 10.0 | | 618.0 | | 7.20 | | 289.0 | 3.0 | | | 294.0 | |
| 04/26/86 | | | 650.0 | | 6.80 | | 335.0 | 2.0 | | 350.0 | 288.0 | |
| 06/12/86 | | | 615.0 | | 7.40 | | 341.0 | | | | 286.0 | |
| 10/03/86 | 10.0 | 515.0 | 588.0 | | 7.80 | | 311.0 | | | | 255.0 | |
| 06/25/87 | 11.2 | 480.0 | 636.0 | 7.8 | 7.70 | -4.7 | 326.0 | | | 322.0 | 292.0 | |
| 07/16/87 | 11.3 | 485.0 | 618.0 | 8.1 | 8.00 | | 348.0 | | | 299.0 | 282.0 | |
| 08/12/87 | 12.0 | 255.0 | 679.0 | 7.5 | 7.40 | | 306.0 | | | 353.0 | 290.0 | |
| 09/23/87 | 11.1 | 695.0 | 555.0 | 7.0 | | | 346.0 | | | 379.0 | 284.0 | |
| 06/13/88 | 12.2 | 450.0 | | 7.0 | | | 368.0 | | | 314.0 | 257.0 | |
| 07/09/88 | 14.2 | 460.0 | | 7.0 | | | 346.0 | | | 294.0 | 294.0 | |
| 08/20/88 | 12.2 | 460.0 | | 7.4 | | | | | | | | |
| 09/03/88 | 13.2 | 470.0 | | 7.4 | | | 330.0 | | | 342.0 | 288.0 | |
| 06/07/89 | 11.0 | 710.0 | | 7.6 | | | 348.0 | | | 314.0 | 250.0 | |
| 07/11/89 | 11.0 | 610.0 | | 6.8 | | | 366.0 | | | 340.0 | 278.0 | |
| 08/23/89 | 10.0 | 650.0 | | 7.1 | | | | | | | | |
| 09/14/89 | 10.0 | 820.0 | | 7.0 | | | 322.0 | | | 347.0 | 296.0 | |
| 06/02/90 | 11.0 | 600.0 | | 7.0 | | | 368.0 | | | 334.0 | 300.0 | |
| 07/06/90 | 10.0 | 620.0 | | 7.3 | | | 354.0 | | | 379.0 | 312.0 | |
| 08/22/90 | 10.0 | 570.0 | | 7.5 | | | | | | | | |
| 09/24/90 | 7.0 | 510.0 | | 8.2 | | | 374.0 | | | 364.0 | 305.0 | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 85351 STATION NAME: 85-35-1 TIE FORK WELL TYPE: WELL DATE: 03/02/91

| DATE | CALCIUM | MAGNESM | SODIUM | POTASS | BICARB HCO3 | CARBONT CO3 | HYDROX OH | CHLORIDE | SULFATE | FLUOR | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | |
| 08/15/85 | 82.0 | 33.0 | 3.0 | 2.0 | 351.0 | -1.0 | | 4.0 | 51 | | 0.07 |
| 09/27/85 | 78.0 | 32.0 | 3.0 | 2.1 | 359.0 | -1.0 | | 4.0 | 35 | | 0.07 |
| 04/28/86 | 84.0 | 34.0 | 3.0 | 2.0 | 351.0 | | | 4.0 | 53 | 0.1 | |
| 06/12/86 | 82.0 | 33.0 | 3.3 | 2.5 | 348.0 | | | 3.9 | 45 | | 0.08 |
| 10/03/86 | 66.0 | 32.8 | 3.2 | 2.8 | 311.0 | -1.0 | | 4.2 | 50 | | 0.08 |
| 06/25/87 | 73.0 | 34.0 | 4.0 | 3.0 | 356.0 | | | 6.0 | 39 | 0.2 | 0.10 |
| 07/16/87 | 59.0 | 37.0 | 3.0 | 2.0 | 344.0 | | | 3.0 | 37 | 0.5 | 0.08 |
| 08/12/87 | 79.0 | 38.0 | 3.0 | 3.0 | 354.0 | | | 4.0 | 45 | 0.3 | 0.07 |
| 09/23/87 | 91.0 | 37.0 | 4.0 | 2.0 | 346.0 | | | 3.0 | 35 | | 0.09 |
| 06/13/88 | 68.0 | 35.0 | 3.0 | 2.0 | 314.0 | | | 3.0 | 51 | | 0.07 |
| 07/09/88 | 60.0 | 35.0 | 4.0 | 2.0 | 359.0 | | | 3.0 | 39 | | 0.10 |
| 09/03/88 | 81.0 | 34.0 | 3.0 | 3.0 | 351.0 | | | 5.0 | 45 | | 0.07 |
| 06/07/89 | 73.0 | 32.0 | 2.0 | 2.0 | 305.0 | | | 3.0 | 43 | | 0.05 |
| 07/11/89 | 77.0 | 36.0 | 4.0 | 2.0 | 339.0 | | | 2.0 | 43 | | 0.09 |
| 09/14/89 | 83.0 | 34.0 | 3.0 | 2.0 | 361.0 | | | 2.0 | 35 | | 0.07 |
| 06/02/90 | 81.0 | 32.0 | 3.0 | 2.0 | 366.0 | | | 3.0 | 45 | | 0.07 |
| 07/06/90 | 96.0 | 34.0 | 3.0 | 2.0 | 381.0 | | | 3.0 | 49 | | 0.07 |
| 09/24/90 | 93.0 | 32.0 | 3.0 | 2.0 | 372.0 | | | 5.0 | 27 | | 0.07 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 85351 STATION NAME: 85-35-1 TIE FORK WELL TYPE: WELL DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/25/87 | -1.0 | 50 | 7.0 | | | | | | |
| 07/16/87 | -1.0 | 40 | -5.0 | | | | | | |
| 08/12/87 | -1.0 | 50 | -5.0 | | | | | | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 85351 STATION NAME: 85-35-1 TIE FORK WELL TYPE: WELL DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 08/15/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/27/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/03/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 06/25/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 07/16/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 08/12/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 09/23/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 85351 STATION NAME: 85-35-1 TIE FORK WELL TYPE: WELL DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/15/85 | | 160 | -10 | | | | | | | |
| 09/27/85 | | 60 | -10 | | | | | | | |
| 04/28/86 | | 580 | 30 | | | | | | | |
| 06/12/86 | | 840 | 40 | | | | | | | |
| 10/03/86 | | 60 | -10 | | | | | | | |
| 06/25/87 | | 30 | 40 | | | -10 | | | | |
| 07/16/87 | | 190 | 40 | | | -20 | | | | |
| 08/12/87 | | 40 | 30 | | | -20 | | | | |
| 09/23/87 | | 60 | 30 | | -50 | | -50 | | | |
| 06/13/88 | | 360 | | | | | | | | |
| 07/09/88 | | 800 | | | | | | | | |
| 09/03/88 | | 40 | | | | | | | | |
| 06/07/89 | | -20 | 20 | | | | | | | |
| 07/11/89 | | -20 | 20 | | | | | | | |
| 09/14/89 | | 20 | 20 | | | | | | | |
| 06/02/90 | | -20 | 20 | | | | | | | |
| 07/06/90 | | 770 | 30 | | | | | | | |
| 09/24/90 | | 130 | 20 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 85351 STATION NAME: 85-35-1 TIE FORK WELL TYPE: WELL DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/15/85 | -20 | 3050 | -50 | -5 | | 180 | | -40 | | |
| 09/27/85 | -20 | 660 | 160 | -5 | | 180 | | -40 | | |
| 04/28/86 | | 810 | 40 | | | | | | | |
| 06/12/86 | | 1440 | 40 | | | | | | | |
| 10/03/86 | -20 | 340 | 40 | -5 | | 100 | | -40 | | |
| 06/25/87 | -10 | 2500 | 40 | -10 | -50 | | -50 | -20 | | |
| 07/16/87 | -10 | 2520 | 30 | 60 | -50 | | -50 | 70 | | |
| 08/12/87 | 10 | 1680 | 30 | 20 | -50 | | -50 | -20 | | |
| 09/23/87 | | 1930 | 30 | 20 | | | | | | |
| 06/13/88 | | 1500 | 30 | | | | | | | |
| 07/09/88 | | 1150 | 30 | | | | | | | |
| 09/03/88 | | 90 | 10 | | | | | | | |
| 06/07/89 | | 750 | 20 | | | | | | | |
| 07/11/89 | | 1050 | 30 | | | | | | | |
| 09/14/89 | | 1120 | 20 | | | | | | | |
| 06/02/90 | | 950 | 30 | | | | | | | |
| 07/06/90 | | 840 | 30 | | | | | | | |
| 09/24/90 | | 970 | 30 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 85351 STATION NAME: 85-35-1 TIE FORK WELL TYPE: WELL DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/15/85 | | | -0.010 | | | | | 0.050 | | -0.50 |
| 09/27/85 | | | 0.030 | | | | | 0.090 | | -0.50 |
| 04/28/86 | | | | | | | | | | -0.50 |
| 06/12/86 | | | | | | | | | | 2.10 |
| 10/03/86 | | | 0.020 | | | | | 0.110 | | -0.50 |
| 06/25/87 | 0.090 | | -0.020 | -0.010 | -0.020 | | -0.010 | | | |
| 07/16/87 | 0.050 | | -0.020 | | -0.020 | | -0.010 | | | |
| 08/12/87 | 0.060 | | 0.030 | | 0.030 | | -0.010 | | | |
| 09/23/87 | | | 0.020 | | 0.020 | | | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 85351 STATION NAME: 85-35-1 TIE FORK WELL TYPE: WELL DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 08/15/85 | | | | | | | 0.06 | | | | |
| 09/27/85 | | | | | | | 0.06 | | | | |
| 10/03/86 | | | | | | | 0.05 | | | | |
| 06/25/87 | | | | -0.20 | | | | | | | |
| 07/16/87 | | | | -0.20 | | | | | | | |
| 08/12/87 | | | | -0.20 | | | | | | | |
| 09/23/87 | | | | 0.30 | | | | | | | |

NO.: 86352 NAME: 86-35-2 LOWER CITY WELL TYPE: WELL DATUM ELEV.: 8006.70 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 04/28/86 | 15:00 | | | | 0.1750 | CFS | |
| 06/12/86 | : | | | | 0.0870 | CFS | |
| 10/03/86 | 11:30 | 5.0 | | | 0.0880 | CFS | |
| 06/25/87 | 13:15 | 26.0 | | | 0.0890 | CFS | |
| 07/16/87 | 14:45 | 15.7 | | | 0.0170 | CFS | |
| 08/12/87 | 15:15 | 26.0 | | | 0.0580 | CFS | |
| 09/23/87 | 10:40 | 20.0 | | | 0.0160 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 86352 STATION NAME: 86-35-2 LOWER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | | | 600.0 | | 7.15 | | 317.0 | -0.5 | | | 275.0 | |
| 06/12/86 | | | 600.0 | | 7.20 | | 319.0 | | | | 274.0 | |
| 10/03/86 | 8.0 | 485.0 | 546.0 | | 7.90 | | 289.0 | | | | 230.0 | |
| 06/25/87 | 10.4 | 485.0 | 315.0 | 7.9 | 7.80 | -12.4 | 306.0 | | | 322.0 | 280.0 | |
| 07/16/87 | 9.6 | 495.0 | 578.0 | 8.1 | 7.80 | | 326.0 | | | 279.0 | 262.0 | |
| 08/12/87 | 9.9 | 285.0 | 668.0 | 7.7 | 7.50 | | 288.0 | | | 334.0 | 282.0 | |
| 09/23/87 | 9.4 | 660.0 | 539.0 | 7.3 | | | 356.0 | | | 340.0 | 279.0 | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 86352 STATION NAME: 86-35-2 LOWER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | 82.0 | 29.0 | 4.0 | 1.0 | 336.0 | -1.0 | | 4.0 | 36 | | |
| 06/12/86 | 80.0 | 30.0 | 3.6 | 1.8 | 334.0 | | | 3.9 | 55 | | 0.09 |
| 10/03/86 | 62.0 | 30.4 | 3.4 | 2.0 | 281.0 | -1.0 | | 4.1 | 50 | | 0.09 |
| 06/25/87 | 73.0 | 34.0 | 4.0 | 2.0 | 342.0 | | | 6.0 | 43 | 0.2 | 0.10 |
| 07/16/87 | 54.0 | 35.0 | 3.0 | 2.0 | 320.0 | | | 3.0 | 35 | 0.5 | 0.08 |
| 08/12/87 | 73.0 | 37.0 | 4.0 | 2.0 | 344.0 | | | 4.0 | 41 | 0.2 | 0.10 |
| 09/23/87 | 85.0 | 31.0 | 5.0 | 1.0 | 340.0 | | | 4.0 | 37 | | 0.12 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 86352 STATION NAME: 86-35-2 LOWER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/25/87 | -1.0 | 60 | -5.0 | | | | | | |
| 07/16/87 | -1.0 | 60 | -5.0 | | | | | | |
| 08/12/87 | -1.0 | 60 | 5.0 | | | | | | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 86352 STATION NAME: 86-35-2 LOWER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/03/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 06/25/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 07/16/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 08/12/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 09/23/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 86352 STATION NAME: 86-35-2 LOWER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | | -50 | -10 | | | | | | | |
| 06/12/86 | | -50 | -10 | | | | | | | |
| 10/03/86 | | -50 | -10 | | | | | | | |
| 06/25/87 | | -20 | 10 | | | -10 | | | | |
| 07/16/87 | | -20 | 20 | | | -20 | | | | |
| 08/12/87 | | -20 | 10 | | | -20 | | | | |
| 09/23/87 | | -20 | 20 | | -50 | | -50 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 86352 STATION NAME: 86-35-2 LOWER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | -20 | -50 | -10 | -5 | | 190 | | -40 | | |
| 06/12/86 | | -50 | -10 | | | | | | | |
| 10/03/86 | -20 | 60 | -10 | -5 | | 90 | | -40 | | |
| 06/25/87 | -10 | 30 | 10 | -10 | -50 | | -50 | -20 | | |
| 07/16/87 | 30 | 40 | 10 | -10 | 150 | | -50 | 60 | | |
| 08/12/87 | -10 | 30 | 10 | -10 | 70 | | -50 | -20 | | |
| 09/23/87 | | 190 | 20 | 10 | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 86352 STATION NAME: 86-35-2 LOWER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | | | 0.110 | | | | | 0.080 | | |
| 06/12/86 | | | | | | | | | | 1.90 |
| 10/03/86 | | | 0.020 | | | | | 0.100 | | -0.50 |
| 06/25/87 | 0.040 | | -0.020 | -0.010 | -0.020 | | -0.010 | | | |
| 07/16/87 | 0.040 | | -0.020 | | -0.020 | | -0.010 | | | |
| 08/12/87 | 0.020 | | 0.030 | | 0.030 | | -0.010 | | | |
| 09/23/87 | | | 0.020 | | 0.020 | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 86352 STATION NAME: 86-35-2 LOWER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 04/28/86 | | | | | | | 0.13 | | | | |
| 10/03/86 | | | | | | | 0.05 | | | | |
| 06/25/87 | | | | -0.20 | | | | | | | |
| 07/16/87 | | | | -0.20 | | | | | | | |
| 08/12/87 | | | | -0.20 | | | | | | | |
| 09/23/87 | | | | -0.20 | | | | | | | |

NO.: 86353 NAME: 86-35-3 UPPER CITY WELL TYPE: WELL DATUM ELEV.: 8000.90 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 04/28/86 | 15:00 | | | | 0.0140 | CFS | |
| 06/12/86 | 11:35 | 5.0 | | | 0.1000 | CFS | |
| 10/03/86 | 11:35 | 5.0 | | | 0.1010 | CFS | |
| 06/25/87 | 13:30 | 26.0 | | | 0.1340 | CFS | |
| 07/16/87 | 14:55 | 15.7 | | | 0.1750 | CFS | |
| 08/12/87 | 15:10 | 26.0 | | | 0.1340 | CFS | |
| 09/23/87 | 10:35 | 21.0 | | | 0.1340 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 86353 STATION NAME: 86-35-3 UPPER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | | | 600.0 | | 7.50 | | 319.0 | -0.5 | | | 277.0 | |
| 06/12/86 | | | 610.0 | | 7.60 | | 305.0 | | | | 277.0 | |
| 10/03/86 | 8.0 | 500.0 | 600.0 | | 8.07 | | 324.0 | | | | 279.0 | |
| 06/25/87 | 9.4 | 480.0 | 608.0 | 7.8 | 7.70 | -6.3 | 302.0 | | | 315.0 | 276.0 | |
| 07/16/87 | 9.0 | 490.0 | 550.0 | 7.9 | 7.80 | | 314.0 | | | 254.0 | 250.0 | |
| 08/12/87 | 9.6 | 255.0 | 674.0 | 7.4 | 7.20 | | 302.0 | | | 341.0 | 276.0 | |
| 09/23/87 | 9.0 | 680.0 | 541.0 | 7.2 | | | 324.0 | | | 353.0 | 276.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 86353 STATION NAME: 86-35-3 UPPER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | 80.0 | 32.0 | 4.0 | 2.0 | 338.0 | -1.0 | | 4.0 | 40 | | |
| 06/12/86 | 80.0 | 31.0 | 3.6 | 1.9 | 337.0 | | | 4.0 | 41 | | 0.09 |
| 10/03/86 | 76.0 | 31.6 | 3.4 | 2.2 | 340.0 | -1.0 | | 4.2 | 40 | | 0.08 |
| 06/25/87 | 72.0 | 33.0 | 4.0 | 2.0 | 337.0 | | | 5.0 | 35 | 0.2 | 0.10 |
| 07/16/87 | 46.0 | 34.0 | 3.0 | 2.0 | 305.0 | | | 3.0 | 33 | 0.5 | 0.08 |
| 08/12/87 | 87.0 | 30.0 | 4.0 | 2.0 | 337.0 | | | 4.0 | 43 | 0.2 | 0.09 |
| 09/23/87 | 87.0 | 33.0 | 5.0 | 1.0 | 337.0 | | | 3.0 | 29 | | 0.11 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 86353 STATION NAME: 86-35-3 UPPER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/25/87 | -1.0 | 60 | -5.0 | | | | | | |
| 07/16/87 | -1.0 | 50 | -5.0 | | | | | | |
| 08/12/87 | -1.0 | 70 | -5.0 | | | | | | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 86353 STATION NAME: 86-35-3 UPPER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/03/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 06/25/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 07/16/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 08/12/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 09/23/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 86353 STATION NAME: 86-35-3 UPPER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | | -50 | -10 | | | | | | | |
| 06/12/86 | | -50 | 20 | | | | | | | |
| 10/03/86 | | -50 | -10 | | | | | | | |
| 06/25/87 | | -20 | -10 | | | -10 | | | | |
| 07/16/87 | | 20 | 10 | | | -20 | | | | |
| 08/12/87 | | -20 | -10 | | | -20 | | | | |
| 09/23/87 | | -20 | -10 | | -50 | | -50 | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 86353 STATION NAME: 86-35-3 UPPER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | -20 | -50 | -10 | -5 | | 100 | | -40 | | |
| 06/12/86 | | -50 | 30 | | | | | | | |
| 10/03/86 | -20 | -50 | 20 | 13 | | 110 | | -40 | | |
| 06/25/87 | -10 | 20 | 10 | -10 | -50 | | -50 | -20 | | |
| 07/16/87 | -10 | 630 | -10 | -10 | 160 | | -50 | 20 | | |
| 08/12/87 | 20 | -20 | -10 | 30 | -50 | | -50 | -20 | | |
| 09/23/87 | | 70 | 10 | 10 | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 86353 STATION NAME: 86-35-3 UPPER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/86 | | | 0.060 | | | | | 0.040 | | |
| 06/12/86 | | | | | | | | | | 1.90 |
| 10/03/86 | | | 0.080 | | | | | 0.110 | | 1.30 |
| 06/25/87 | -0.020 | | 0.090 | -0.010 | 0.080 | | -0.010 | | | |
| 07/16/87 | 0.020 | | 0.120 | | 0.110 | | -0.010 | | | |
| 08/12/87 | 0.030 | | 0.140 | | 0.140 | | -0.010 | | | |
| 09/23/87 | | | 0.100 | | 0.100 | | | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 86353 STATION NAME: 86-35-3 UPPER CITY WELL TYPE: WELL DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 04/28/86 | | | | | | | 0.07 | | | | |
| 10/03/86 | | | | | | | 0.10 | | | | |
| 06/25/87 | | | | -0.20 | | | | | | | |
| 07/16/87 | | | | -0.20 | | | | | | | |
| 08/12/87 | | | | -0.20 | | | | | | | |
| 09/23/87 | | | | -0.20 | | | | | | | |

NO.: 863523 NAME: 86-35-2 & 86-35-3 COMBINED TYPE: WELL DATUM ELEV.: 8000.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/13/88 | 13:50 | | | | 0.1800 | CFS | |
| 07/09/88 | 14:40 | | | | 0.1790 | CFS | |
| 08/20/88 | 14:30 | | | | 0.1780 | CFS | |
| 09/03/88 | 13:30 | | | | 0.2970 | CFS | |
| 06/07/89 | 12:30 | | | | 0.2270 | CFS | |
| 07/11/89 | 10:10 | | | | 0.2280 | CFS | |
| 08/23/89 | 8:20 | | | | 0.2230 | CFS | |
| 09/14/89 | 8:40 | | | | 0.2230 | CFS | |
| 06/02/90 | 12:20 | | | | 0.2090 | CFS | |
| 07/06/90 | 13:15 | | | | 0.2040 | CFS | |
| 08/22/90 | 9:00 | | | | 0.2030 | CFS | |
| 09/24/90 | 11:00 | | | | 0.2000 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 863523 STATION NAME: 86-35-2 & 86-35-3 COMBINED TYPE: WELL DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/13/88 | 10.0 | 405.0 | | 7.2 | | | 340.0 | | | 335.0 | 286.0 | |
| 07/09/88 | 11.7 | 424.0 | | 7.3 | | | 318.0 | | | 250.0 | 182.0 | |
| 08/20/88 | 12.0 | 425.0 | | 7.6 | | | | | | | | |
| 09/03/88 | 12.0 | 420.0 | | 7.5 | | | 344.0 | | | 354.0 | 306.0 | |
| 06/07/89 | 9.0 | 610.0 | | 7.4 | | | 332.0 | | | 263.0 | 234.0 | |
| 07/11/89 | 9.0 | 560.0 | | 7.3 | | | 336.0 | | | 334.0 | 266.0 | |
| 08/23/89 | 9.0 | 600.0 | | 7.3 | | | | | | | | |
| 09/14/89 | 7.0 | 500.0 | | 7.2 | | | 300.0 | | | 328.0 | 282.0 | |
| 06/02/90 | 9.0 | 610.0 | | 7.4 | | | 348.0 | | | 316.0 | 287.0 | |
| 07/06/90 | 10.0 | 600.0 | | 7.4 | | | 342.0 | | | 356.0 | 293.0 | |
| 08/22/90 | 8.0 | 530.0 | | 8.5 | | | | | | | | |
| 09/24/90 | 6.0 | 520.0 | | 7.4 | | | 356.0 | | | 338.0 | 293.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 863523 STATION NAME: 86-35-2 & 86-35-3 COMBINED TYPE: WELL DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/13/88 | 83.0 | 31.0 | 3.0 | 2.0 | 349.0 | | | 5.0 | 35 | | 0.07 |
| 07/09/88 | 46.0 | 33.0 | 4.0 | 2.0 | 349.0 | | | 4.0 | 35 | | 0.11 |
| 09/03/88 | 84.0 | 35.0 | 3.0 | 3.0 | 373.0 | | | 4.0 | 43 | | 0.07 |
| 06/07/89 | 56.0 | 30.0 | 3.0 | 2.0 | 285.0 | | | 3.0 | 39 | | 0.08 |
| 07/11/89 | 78.0 | 34.0 | 3.0 | 2.0 | 325.0 | | | 3.0 | 39 | | 0.07 |
| 09/14/89 | 77.0 | 33.0 | 4.0 | 2.0 | 344.0 | | | 2.0 | 19 | | 0.10 |
| 06/02/90 | 77.0 | 30.0 | 4.0 | 1.0 | 350.0 | | | 5.0 | 39 | | 0.10 |
| 07/06/90 | 90.0 | 32.0 | 4.0 | 2.0 | 357.0 | | | 4.0 | 35 | | 0.09 |
| 09/24/90 | 86.0 | 30.0 | 3.0 | 2.0 | 357.0 | | | 4.0 | 23 | | 0.07 |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 863523 STATION NAME: 86-35-2 & 86-35-3 COMBINED TYPE: WELL DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/13/88 | | -20 | | | | | | | | |
| 07/09/88 | | 40 | | | | | | | | |
| 09/03/88 | | 330 | | | | | | | | |
| 06/07/89 | | -20 | -10 | | | | | | | |
| 07/11/89 | | -20 | -10 | | | | | | | |
| 09/14/89 | | -20 | -10 | | | | | | | |
| 06/02/90 | | -20 | -10 | | | | | | | |
| 07/06/90 | | 40 | -10 | | | | | | | |
| 09/24/90 | | -20 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 863523 STATION NAME: 86-35-2 & 86-35-3 COMBINED TYPE: WELL DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/13/88 | | 60 | 10 | | | | | | | |
| 07/09/88 | | 70 | 10 | | | | | | | |
| 09/03/88 | | 980 | 30 | | | | | | | |
| 06/07/89 | | 170 | -10 | | | | | | | |
| 07/11/89 | | 30 | 10 | | | | | | | |
| 09/14/89 | | 20 | -10 | | | | | | | |
| 06/02/90 | | 230 | -10 | | | | | | | |
| 07/06/90 | | 40 | -10 | | | | | | | |
| 09/24/90 | | 310 | -10 | | | | | | | |

NO.: 530 NAME: 530 TYPE: SPRING DATUM ELEV.: 9160.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 10/10/86 | 10:30 | 6.0 | | | 0.0160 | CFS | |
| 05/23/87 | 8:15 | 12.0 | | | 0.0090 | CFS | |
| 07/19/87 | 14:00 | 14.0 | | | 0.0180 | CFS | |
| 08/12/87 | 10:00 | 17.0 | | | 0.0170 | CFS | |
| 09/22/87 | 9:50 | 15.0 | | | 0.0170 | CFS | |
| 06/01/88 | 12:40 | | | | 0.0060 | CFS | |
| 07/09/88 | 12:30 | | | | 0.0070 | CFS | |
| 08/13/88 | 11:30 | | | | 0.0110 | CFS | |
| 09/03/88 | 12:00 | | | | 0.0130 | CFS | |
| 06/06/89 | 12:45 | | | | 0.0070 | CFS | |
| 07/11/89 | 13:05 | | | | 0.0070 | CFS | |
| 08/22/89 | 12:20 | | | | 0.0070 | CFS | |
| 09/14/89 | 14:30 | | | | 0.0070 | CFS | |
| 06/02/90 | 10:30 | | | | 0.0070 | CFS | |
| 08/22/90 | 15:15 | | | | 0.0020 | CFS | |
| 10/03/90 | 14:00 | | | | 0.0050 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 530 STATION NAME: 530 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | 6.0 | 920.0 | 564.0 | | 8.07 | | 300.0 | 1.0 | | | 249.0 | |
| 05/23/87 | 5.5 | 490.0 | | 8.1 | | -25.6 | | | | | | |
| 07/19/87 | 9.0 | 440.0 | | 8.3 | | | | | | | | |
| 08/12/87 | 7.0 | 440.0 | 627.0 | 8.3 | 7.50 | | 304.0 | | | 313.0 | 267.0 | |
| 09/22/87 | 6.2 | 650.0 | 491.0 | 7.8 | | | 294.0 | | | 337.0 | 245.0 | |
| 06/01/88 | 7.5 | 355.0 | | 7.3 | | | | | | | 263.0 | |
| 07/09/88 | 12.6 | 390.0 | | 8.2 | | | 276.0 | | | 238.0 | 239.0 | |
| 08/13/88 | 11.0 | 329.0 | | 8.3 | | | | | | | | |
| 09/03/88 | 13.0 | 230.0 | | 7.8 | | | 308.0 | | | 310.0 | 262.0 | |
| 06/06/89 | 8.5 | 540.0 | | 8.4 | | | 298.0 | | | 276.0 | 240.0 | |
| 07/11/89 | 12.0 | 580.0 | | 7.5 | | | 328.0 | | | 295.0 | 248.0 | |
| 08/22/89 | 9.0 | 590.0 | | 8.1 | | | | | | | | |
| 09/14/89 | 8.0 | 540.0 | | 8.0 | | | 294.0 | | | 302.0 | 262.0 | |
| 06/02/90 | 6.0 | 560.0 | | 7.5 | | | 344.0 | | | 298.0 | 270.0 | |
| 08/22/90 | 11.0 | 530.0 | | 8.4 | | | | | | | | |
| 10/03/90 | 6.0 | 470.0 | | 8.0 | | | 318.0 | | | 326.0 | 273.0 | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 530 STATION NAME: 530 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | 66.0 | 29.2 | 5.9 | 1.9 | 304.0 | -1.0 | | 7.4 | 40 | | 0.15 |
| 08/12/87 | 71.0 | 33.0 | 6.0 | 1.0 | 326.0 | | | 5.0 | 27 | 0.3 | 0.15 |
| 09/22/87 | 84.0 | 31.0 | 5.0 | 1.0 | 299.0 | | | 5.0 | 23 | | 0.12 |
| 06/01/88 | 85.0 | 33.0 | 5.0 | 1.0 | 321.0 | | | 5.0 | 25 | 0.2 | 0.12 |
| 07/09/88 | 41.0 | 33.0 | 5.0 | 1.0 | 292.0 | | | 5.0 | 27 | 0.1 | 0.14 |
| 09/03/88 | 70.0 | 33.0 | 5.0 | 1.0 | 320.0 | | | 6.0 | 21 | 0.1 | 0.12 |
| 06/06/89 | 61.0 | 30.0 | 4.0 | 1.0 | 293.0 | | | 5.0 | 27 | | 0.11 |
| 07/11/89 | 64.0 | 33.0 | 5.0 | 1.0 | 303.0 | | | 5.0 | 29 | | 0.13 |
| 09/14/89 | 70.0 | 31.0 | 5.0 | -1.0 | 320.0 | | | 3.0 | 25 | | 0.13 |
| 06/02/90 | 70.0 | 30.0 | 5.0 | -1.0 | 325.0 | 2.0 | | 4.0 | 39 | | 0.13 |
| 10/03/90 | 83.0 | 29.0 | 5.0 | -1.0 | 333.0 | | | 4.0 | 25 | | 0.12 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 530 STATION NAME: 530 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | | -50 | -10 | | | | | | | |
| 08/12/87 | | -20 | -10 | | | -20 | | | | |
| 09/22/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/01/88 | 10 | -20 | | | -50 | 120 | -50 | -20 | | |
| 07/09/88 | -10 | 20 | | | -50 | 20 | -50 | -20 | | |
| 09/03/88 | -10 | -20 | | | -50 | -20 | -50 | -20 | | |
| 06/06/89 | | -20 | -10 | | | | | | | |
| 07/11/89 | | -20 | -10 | | | | | | | |
| 09/14/89 | | -20 | -10 | | | | | | | |
| 06/02/90 | | -20 | -10 | | | | | | | |
| 10/03/90 | | -20 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 530 STATION NAME: 530 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | -20 | -50 | -10 | 29 | | 100 | | -40 | | |
| 08/12/87 | 20 | 30 | -10 | -10 | -50 | | -50 | -20 | | |
| 09/22/87 | | 50 | -10 | -10 | | | | | | |
| 06/01/88 | | 210 | -10 | -10 | | | | | | |
| 07/09/88 | | 130 | 10 | -10 | | | | | | |
| 09/03/88 | | -20 | -10 | -10 | | | | | | |
| 06/06/89 | | 50 | -10 | | | | | | | |
| 07/11/89 | | 70 | -10 | | | | | | | |
| 09/14/89 | | 80 | -10 | | | | | | | |
| 06/02/90 | | 70 | -10 | | | | | | | |
| 10/03/90 | | 660 | 30 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 530 STATION NAME: 530 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | | | 0.080 | | | | | 0.090 | | -0.50 |
| 08/12/87 | -0.020 | | 1.670 | | 1.670 | | -0.010 | | | |
| 09/22/87 | | | 1.630 | | 1.630 | | | | | |
| 06/01/88 | -0.020 | -0.001 | 1.120 | | 1.120 | | -0.010 | | | |
| 07/09/88 | -0.020 | -0.001 | 1.340 | | 1.330 | | | | -0.010 | |
| 09/03/88 | 0.030 | -0.001 | 1.440 | | 1.430 | | 0.020 | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 530 STATION NAME: 530 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 10/10/86 | | | | | | | 0.11 | | | | |
| 08/12/87 | | | | -0.20 | | | | | | | |
| 09/22/87 | | | | 0.30 | | | | | | | |
| 06/01/88 | | | | -0.20 | | | | | | | |
| 07/09/88 | | | | -0.20 | | | | | | | |
| 09/03/88 | | | | 0.02 | | | | | | | |

NO.: 238 NAME: 238 TYPE: SPRING DATUM ELEV.: 9200.00 FT

| DATE | TIME | AIR TEMP. | WATER DEPTH | WATER ELEVATION | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| | HH:MM | DEG. C | FEET | FEET | | | |
| 10/09/87 | 10:40 | 7.0 | | | 0.0080 | CFS | |
| 06/14/88 | 12:30 | | | | 0.0220 | CFS | |
| 07/16/88 | 12:30 | | | | 0.0070 | CFS | |
| 08/19/88 | 15:30 | | | | 0.0060 | CFS | |
| 09/05/88 | 11:00 | | | | 0.0130 | CFS | |
| 06/05/89 | 13:40 | | | | 0.0190 | CFS | |
| 07/11/89 | 11:45 | | | | 0.0080 | CFS | |
| 08/22/89 | 12:20 | | | | 0.0080 | CFS | |
| 09/15/89 | 10:00 | | | | 0.0080 | CFS | |
| 05/30/90 | 15:15 | | | | 0.0270 | CFS | |
| 07/06/90 | 14:30 | | | | 0.0080 | CFS | |
| 08/22/90 | 14:00 | | | | 0.0070 | CFS | |
| 09/24/90 | 9:30 | | | | 0.0110 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 238 STATION NAME: 238 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | 5.0 | 490.0 | | 8.5 | | | 246.0 | | | 245.0 | 227.0 | |
| 06/14/88 | 7.2 | 232.0 | | 8.5 | | | 220.0 | | | | 194.0 | |
| 07/16/88 | 10.2 | 242.0 | | 8.4 | | | 208.0 | | | 178.0 | 165.0 | |
| 08/19/88 | 10.0 | 235.0 | | 8.7 | | | | | | | | |
| 09/05/88 | 8.0 | 245.0 | | 8.3 | | | 200.0 | | | 211.0 | 188.0 | |
| 06/05/89 | 4.0 | 320.0 | | 8.5 | | | 202.0 | | | 142.0 | 124.0 | |
| 07/11/89 | 9.0 | 360.0 | | 8.5 | | | 202.0 | | | 206.0 | 160.0 | |
| 08/22/89 | 7.0 | 380.0 | | 8.3 | | | | | | | | |
| 09/15/89 | 8.0 | 400.0 | | 8.3 | | | 208.0 | | | 189.0 | 184.0 | |
| 05/30/90 | 6.0 | 400.0 | | 7.2 | | | 226.0 | | | 199.0 | 187.0 | |
| 07/06/90 | 7.0 | 420.0 | | 7.6 | | | 222.0 | | | 207.0 | 178.0 | |
| 08/22/90 | 7.0 | 370.0 | | 8.6 | | | | | | | | |
| 09/24/90 | 7.0 | 340.0 | | 7.6 | | | 236.0 | | | 226.0 | 188.0 | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 238 STATION NAME: 238 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | 62.0 | 22.0 | 3.0 | 1.0 | 277.0 | | | 3.0 | 12 | | 0.08 |
| 06/14/88 | 77.0 | 13.0 | 1.0 | 1.0 | 237.0 | | | -1.0 | 16 | 0.1 | 0.03 |
| 07/16/88 | 53.0 | 11.0 | 2.0 | 1.0 | 201.0 | | | 1.0 | 14 | 0.1 | 0.07 |
| 09/05/88 | 63.0 | 13.0 | 1.0 | 2.0 | 229.0 | | | 2.0 | 4 | -0.1 | 0.03 |
| 06/05/89 | 42.0 | 9.0 | 1.0 | 1.0 | 151.0 | | | 1.0 | 12 | 0.1 | 0.04 |
| 07/11/89 | 61.0 | 13.0 | 2.0 | 1.0 | 195.0 | | | 1.0 | 16 | -0.1 | 0.06 |
| 09/15/89 | 56.0 | 12.0 | 2.0 | 1.0 | 220.0 | 2.0 | | -1.0 | 8 | 0.1 | 0.06 |
| 05/30/90 | 63.0 | 10.0 | 2.0 | 1.0 | 221.0 | 4.0 | | 2.0 | 2 | | 0.06 |
| 07/06/90 | 63.0 | 12.0 | 2.0 | -1.0 | 205.0 | 6.0 | | 1.0 | 35 | | 0.06 |
| 09/24/90 | 69.0 | 13.0 | 1.0 | 1.0 | 229.0 | | | 2.0 | 35 | | 0.03 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 238 STATION NAME: 238 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/14/88 | -1.0 | 90 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 07/16/88 | -1.0 | 80 | 5.0 | -10.0 | | | -0.10 | -1.0 | |
| 09/05/88 | -1.0 | 70 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 06/05/89 | -1.0 | 90 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 07/11/89 | -1.0 | 40 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 09/15/89 | -1.0 | 260 | 8.0 | -10.0 | | | -0.10 | -1.0 | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 238 STATION NAME: 238 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | | | | | | 20.0 | | | |
| 06/14/88 | | | | | | 20.0 | | | |
| 07/16/88 | | | | | | -20.0 | | | |
| 09/05/88 | | | | | | -20.0 | | | |
| 06/05/89 | | | | | | -20.0 | | | |
| 07/11/89 | | | | | | -20.0 | | | |
| 09/15/89 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 238 STATION NAME: 238 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/14/88 | 10 | -20 | | | -50 | -20 | -50 | -20 | | |
| 07/16/88 | -10 | -20 | | | -50 | -20 | -50 | -20 | | |
| 09/05/88 | -10 | 40 | | | -50 | -20 | -50 | -20 | | |
| 06/05/89 | -10 | 30 | -10 | | 50 | -20 | -50 | -20 | | |
| 07/11/89 | -10 | -20 | -10 | | 60 | -20 | -50 | -20 | | |
| 09/15/89 | -10 | -20 | -10 | | -50 | -20 | -50 | -20 | | |
| 05/30/90 | | 30 | -10 | | | | | | | |
| 07/06/90 | | 70 | 10 | | | | | | | |
| 09/24/90 | | -20 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 238 STATION NAME: 238 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | | 30 | -10 | -10 | | | | | | |
| 06/14/88 | | 40 | -10 | 40 | | | | | | |
| 07/16/88 | | 30 | -10 | 10 | | | | | | |
| 09/05/88 | | 1360 | 30 | 10 | | | | | | |
| 06/05/89 | | 960 | 20 | -10 | | | | | | |
| 07/11/89 | | 270 | -10 | -10 | | | | | | |
| 09/15/89 | | 1020 | 20 | 30 | | | | | | |
| 05/30/90 | | 580 | 20 | | | | | | | |
| 07/06/90 | | 110 | 10 | | | | | | | |
| 09/24/90 | | 220 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 238 STATION NAME: 238 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | | | 0.470 | | 0.480 | | | | | |
| 06/14/88 | -0.020 | -0.001 | 0.610 | | 0.600 | | | | -0.010 | |
| 07/16/88 | -0.020 | -0.001 | 0.850 | | 0.840 | | -0.010 | | | |
| 09/05/88 | 0.030 | -0.001 | 1.170 | | 1.160 | | -0.010 | | | |
| 06/05/89 | 0.080 | 0.003 | 0.840 | | 0.830 | | 0.008 | | | |
| 07/11/89 | 0.030 | 0.001 | 0.810 | | 0.800 | | 0.006 | | | |
| 09/15/89 | -0.010 | -0.001 | 1.060 | | 1.050 | | 0.005 | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 238 STATION NAME: 238 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 10/09/87 | | | | -0.10 | | | | | | | |
| 06/14/88 | | | | 0.30 | | | | | | | |
| 07/16/88 | | | | 0.20 | | | | | | | |
| 09/05/88 | | | | 0.04 | | | | | | | |
| 06/05/89 | | | | -0.01 | | | | | | | |
| 07/11/89 | | | | -0.01 | | | | | | | |
| 09/15/89 | | | | -0.01 | | | | | | | |

NO.: 492 NAME: 492 TYPE: SPRING DATUM ELEV.: 9435.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/05/89 | 13:54 | | | | 0.0050 | CFS | |
| 07/11/89 | 8:55 | | | | 0.0040 | CFS | |
| 08/22/89 | 8:30 | | | | 0.0030 | CFS | |
| 09/15/89 | 10:45 | | | | 0.0050 | CFS | |
| 06/04/90 | 10:10 | | | | 0.0030 | CFS | |
| 07/07/90 | 7:55 | | | | 0.0040 | CFS | |
| 08/30/90 | 11:00 | | | | 0.0030 | CFS | |
| 09/18/90 | 9:15 | | | | 0.0020 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 492 STATION NAME: 492 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/89 | 5.0 | 350.0 | | 7.7 | | | 220.0 | | | 177.0 | 148.0 | |
| 07/11/89 | 6.0 | 380.0 | | 8.2 | | | 232.0 | | | 214.0 | 176.0 | |
| 08/22/89 | 5.0 | 350.0 | | 7.5 | | | | | | | | |
| 09/15/89 | 5.0 | 390.0 | | 7.7 | | | 204.0 | | | 186.0 | 186.0 | |
| 06/04/90 | 4.0 | 390.0 | | 7.5 | | | 200.0 | | | 210.0 | 190.0 | |
| 07/07/90 | 5.0 | 440.0 | | 8.0 | | | 226.0 | | | 183.0 | 161.0 | |
| 08/30/90 | 5.0 | 450.0 | | 8.0 | | | | | | | | |
| 09/18/90 | 5.0 | 370.0 | | 8.3 | | | 208.0 | | | 193.0 | 187.0 | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 492 STATION NAME: 492 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/89 | 43.0 | 17.0 | 2.0 | -1.0 | 181.0 | | | 3.0 | 10 | 0.2 | 0.07 |
| 07/11/89 | 56.0 | 18.0 | 3.0 | 1.0 | 215.0 | | | 2.0 | 16 | -0.1 | 0.09 |
| 09/15/89 | 45.0 | 18.0 | 3.0 | -1.0 | 227.0 | | | 1.0 | 6 | 0.1 | 0.10 |
| 06/04/90 | 53.0 | 19.0 | 3.0 | -1.0 | 232.0 | | | 2.0 | 6 | 0.2 | 0.09 |
| 07/07/90 | 47.0 | 16.0 | 2.0 | -1.0 | 240.0 | | | 3.0 | 31 | | 0.06 |
| 09/18/90 | 51.0 | 16.0 | 4.0 | 1.0 | 228.0 | | | 3.0 | 8 | -0.1 | 0.12 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 492 STATION NAME: 492 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/89 | -1.0 | 20 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 07/11/89 | -1.0 | 10 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 09/15/89 | -1.0 | 190 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 06/04/90 | -1.0 | 20 | -10.0 | -10.0 | | | -0.10 | -1.0 | |
| 09/18/90 | -1.0 | 20 | -10.0 | -10.0 | | | -0.10 | -1.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 492 STATION NAME: 492 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/05/89 | | | | | | -20.0 | | | |
| 07/11/89 | | | | | | -20.0 | | | |
| 09/15/89 | | | | | | -20.0 | | | |
| 06/04/90 | | | | | | -20.0 | | | |
| 09/18/90 | | | | | | -50.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 492 STATION NAME: 492 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/89 | -10 | -20 | -10 | | -50 | 20 | -50 | -20 | | |
| 07/11/89 | -10 | -20 | -10 | | -50 | -20 | -50 | -20 | | |
| 09/15/89 | 10 | -20 | -10 | | -50 | -20 | -50 | -20 | | |
| 06/04/90 | -10 | -20 | -10 | | -50 | -20 | -50 | -20 | | |
| 07/07/90 | | -20 | -10 | | | | | | | |
| 09/18/90 | -10 | -20 | -10 | | -50 | 30 | -50 | -20 | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 492 STATION NAME: 492 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/89 | | 200 | -10 | 20 | | | | | | |
| 07/11/89 | | 240 | -10 | 30 | | | | | | |
| 09/15/89 | | 320 | -10 | 10 | | | | | | |
| 06/04/90 | | 130 | -10 | 10 | | | | | | |
| 07/07/90 | | 70 | -10 | | | | | | | |
| 09/18/90 | | 120 | -10 | 20 | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 492 STATION NAME: 492 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/05/89 | 0.080 | -0.001 | 2.410 | | 2.400 | | 0.028 | | | |
| 07/11/89 | 0.020 | -0.001 | 2.390 | | 2.380 | | 0.032 | | | |
| 09/15/89 | -0.010 | -0.001 | 2.380 | | 2.370 | | 0.034 | | | |
| 06/04/90 | 0.060 | -0.001 | 2.450 | | 2.440 | | 0.023 | | | |
| 09/18/90 | 0.060 | 0.001 | 2.610 | | 2.800 | | 0.008 | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 492 STATION NAME: 492 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 06/05/89 | | | | -0.01 | | | | | | | |
| 07/11/89 | | | | -0.01 | | | | | | | |
| 09/15/89 | | | | -0.01 | | | | | | | |
| 06/04/90 | | | | -0.01 | | | | | | | |
| 09/18/90 | | | | -0.01 | | | | | | | |

NO.: 494 NAME: 494 TYPE: SPRING DATUM ELEV.: 9380.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 10/09/87 | 9:30 | 7.0 | | | 0.0050 | CFS | |
| 06/14/88 | 14:00 | | | | 0.0190 | CFS | |
| 07/16/88 | 10:30 | | | | 0.0030 | CFS | |
| 08/19/88 | 9:30 | | | | 0.0040 | CFS | |
| 09/05/88 | 10:00 | | | | 0.0040 | CFS | |
| 06/05/89 | 13:17 | | | | 0.0010 | CFS | |
| 09/15/89 | 11:00 | | | | 0.0020 | CFS | |
| 06/04/90 | 10:30 | | | | 0.0030 | CFS | |
| 09/18/90 | 10:00 | | | | 0.0020 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES



NO.: 494 STATION NAME: 494 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | 5.9 | 525.0 | | 8.4 | | | 262.0 | | | 247.0 | 196.0 | |
| 06/14/88 | 5.5 | 180.0 | | 7.7 | | | 190.0 | | | | 159.0 | |
| 07/16/88 | 13.0 | 262.0 | | 8.3 | | | 270.0 | | | 233.0 | 194.0 | |
| 08/19/88 | 9.0 | 290.0 | | 8.3 | | | | | | | | |
| 09/05/88 | 6.4 | 280.0 | | 7.7 | | | 264.0 | | | 270.0 | 200.0 | |
| 06/05/89 | 16.0 | 380.0 | | 8.4 | | | | | | | | |
| 09/15/89 | 8.0 | 460.0 | | 8.1 | | | | | | | | |
| 06/04/90 | 11.0 | 450.0 | | 7.7 | | | | | | | | |
| 09/18/90 | 6.0 | 450.0 | | 8.3 | | | | | | | | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 494 STATION NAME: 494 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | 61.0 | 23.0 | 4.0 | 1.0 | 239.0 | | | 4.0 | 39 | | 0.11 |
| 06/14/88 | 55.0 | 14.0 | 2.0 | 1.0 | 194.0 | | | 1.0 | 10 | 0.1 | 0.06 |
| 07/16/88 | 57.0 | 22.0 | 4.0 | -1.0 | 237.0 | | | 3.0 | 41 | 0.2 | 0.11 |
| 09/05/88 | 67.0 | 25.0 | 3.0 | -1.0 | 244.0 | | | 4.0 | 41 | 0.1 | 0.08 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 494 STATION NAME: 494 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | | | | | | 20.0 | | | |
| 06/14/88 | | | | | | 20.0 | | | |
| 07/16/88 | | | | | | -20.0 | | | |
| 09/05/88 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 494 STATION NAME: 494 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/14/88 | -10 | 40 | | | -50 | -20 | -50 | -20 | | |
| 07/16/88 | -10 | 220 | | | -50 | -20 | -50 | -20 | | |
| 09/05/88 | -10 | -20 | | | -50 | -20 | -50 | 20 | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 494 STATION NAME: 494 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | | 480 | -10 | -10 | | | | | | |
| 06/14/88 | | 190 | -10 | 10 | | | | | | |
| 07/16/88 | | -20 | -10 | 10 | | | | | | |
| 09/05/88 | | 470 | 10 | 20 | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 494 STATION NAME: 494 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/09/87 | | | 2.010 | | 2.020 | | | | | |
| 06/14/88 | -0.020 | -0.001 | 0.660 | | 0.650 | | | | 0.050 | |
| 07/16/88 | -0.020 | -0.001 | 0.880 | | 0.870 | | 0.010 | | | |
| 09/05/88 | 0.040 | -0.001 | 1.530 | | 1.520 | | 0.010 | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: S149 STATION NAME: S14-9 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 05/22/87 | -1.0 | 60 | -5.0 | | | | | | |
| 07/16/87 | -1.0 | 80 | -5.0 | | | | | | |
| 08/14/87 | -1.0 | 70 | -5.0 | | | | | | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: S149 STATION NAME: S14-9 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 09/30/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 05/22/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 07/16/87 | | | | -10.0 | | -20.0 | -0.20 | 2.0 | |
| 08/14/87 | | | | -10.0 | | -20.0 | -0.20 | 1.0 | |
| 09/23/87 | | | | | | -20.0 | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: S149 STATION NAME: S14-9 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | | -50 | -10 | | | | | | | |
| 06/12/86 | | -50 | -10 | | | | | | | |
| 09/30/86 | | -50 | -10 | | | | | | | |
| 05/22/87 | | -20 | -10 | | | 30 | | | | |
| 07/16/87 | | 40 | -10 | | | -20 | | | | |
| 08/14/87 | | -20 | -10 | | | -20 | | | | |
| 09/23/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/03/88 | | -20 | | | | | | | | |
| 07/16/88 | | 40 | | | | | | | | |
| 09/10/88 | | -20 | | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: S149 STATION NAME: S14-9 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | | 80 | -10 | | | | | | | |
| 06/12/86 | | -50 | -10 | | | | | | | |
| 09/30/86 | -20 | -50 | -10 | -5 | | 100 | | -40 | | |
| 05/22/87 | -10 | 170 | -10 | -10 | -50 | | -50 | -20 | | |
| 07/16/87 | -10 | 1490 | 30 | 10 | 1150 | | -50 | 40 | | |
| 08/14/87 | -10 | 500 | -10 | -10 | 540 | | -50 | -20 | | |
| 09/23/87 | | 200 | -10 | 10 | | | | | | |
| 06/03/88 | | -20 | -10 | | | | | | | |
| 07/16/88 | | 20 | -10 | | | | | | | |
| 09/10/88 | | 20 | 10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: S149 STATION NAME: S14-9 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/86 | | | | | | | | | | -0.50 |
| 09/30/86 | | | 0.030 | | | | | 0.090 | | -0.50 |
| 05/22/87 | -0.020 | | 0.790 | | 0.780 | | -0.010 | | | |
| 07/16/87 | -0.020 | | 1.160 | | 1.160 | | -0.010 | | | |
| 08/14/87 | -0.020 | | 1.050 | | 1.050 | | -0.010 | | | |
| 09/23/87 | | | 1.040 | | 1.040 | | | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: S149 STATION NAME: S14-9 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 09/30/86 | | | | | | | 0.05 | | | | | |
| 07/16/87 | | | | -0.20 | | | | | | | | |
| 08/14/87 | | | | -0.20 | | | | | | | | |
| 09/23/87 | | | | -0.20 | | | | | | | | |

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: S182 NAME: S18-2 TYPE: SPRING DATUM ELEV.: 9650.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 09/12/79 | 10:30 | 19.0 | | | 0.0020 | CFS | |
| 09/11/80 | : | | | | | | |
| 09/30/80 | 12:05 | 19.0 | | | 0.0040 | CFS | |
| 10/22/80 | 11:40 | 8.0 | | | 0.0020 | CFS | |
| 11/10/80 | 15:05 | | | | 0.0030 | CFS | |
| 12/30/80 | 10:10 | 11.0 | | | 0.0020 | CFS | |
| 01/06/81 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 02/04/81 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 03/25/81 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 04/28/81 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 05/28/81 | : | | | | | | IN-ACCESSIBLE - RAIN & MUD |
| 06/16/81 | 17:34 | 15.0 | | | 0.0020 | CFS | |
| 07/31/81 | 12:40 | | | | | | |
| 08/29/81 | 10:45 | 22.0 | | | 0.0010 | CFS | |
| 09/24/81 | 10:59 | | | | | | |
| 10/07/81 | 14:31 | 19.0 | | | 0.0060 | CFS | |
| 11/24/81 | : | | | | | | IN-ACCESSIBLE |
| 12/29/81 | : | | | | | | IN-ACCESSIBLE |
| 03/24/83 | : | | | | | | IN-ACCESSIBLE |
| 05/12/83 | : | | | | | | IN-ACCESSIBLE |
| 06/29/83 | 10:15 | 17.0 | | | 0.0070 | CFS | |
| 10/05/83 | 14:50 | 22.0 | | | 0.0040 | CFS | |
| 01/06/84 | 13:30 | | | | | | COVERED W/SNOW, NOT POSS TO SAMPLE |
| 03/30/84 | : | | | | | | COVERED W/SNOW, NOT POSS TO SAMPLE |
| 06/21/84 | 14:40 | 22.0 | | | 0.0070 | CFS | |
| 10/25/84 | 14:40 | | | | | | |
| 12/11/84 | 14:40 | | | | | | IN-ACCESSIBLE - SNOW |
| 02/21/85 | 14:40 | | | | | | IN-ACCESSIBLE - SNOW |
| 06/13/85 | : | 28.0 | | | 0.0030 | CFS | |
| 09/24/85 | : | | | | 0.0001 | CFS | |
| 06/11/86 | 14:30 | 22.2 | | | 0.0330 | CFS | |
| 10/10/86 | 12:35 | 8.0 | | | 0.0006 | CFS | |
| 05/22/87 | 15:00 | 4.0 | | | 0.0560 | CFS | |
| 07/19/87 | 15:40 | 19.0 | | | 0.0100 | CFS | |
| 08/12/87 | 13:55 | 19.0 | | | 0.0050 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

NO.: S182 NAME: S18-2 TYPE: SPRING DATUM ELEV.: 9650.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 09/22/87 | 10:55 | 17.0 | | | 0.0030 | CFS | |
| 06/14/88 | 10:00 | | | | 0.0140 | CFS | |
| 07/15/88 | 16:30 | | | | 0.0060 | CFS | |
| 08/19/88 | 9:00 | | | | 0.0040 | CFS | |
| 09/05/88 | 9:30 | | | | 0.0030 | CFS | |
| 06/05/89 | 12:19 | | | | 0.0040 | CFS | |
| 07/11/89 | 8:25 | | | | 0.0020 | CFS | |
| 08/22/89 | 8:10 | | | | 0.0010 | CFS | |
| 09/15/89 | 10:15 | | | | 0.0010 | CFS | |
| 06/04/90 | 9:45 | | | | 0.0050 | CFS | |
| 07/02/90 | 8:05 | | | | 0.0030 | CFS | |
| 08/30/90 | 9:30 | | | | 0.0010 | CFS | |
| 10/03/90 | 11:10 | | | | 0.0010 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: S182 STATION NAME: S18-2 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/12/79 | 8.0 | | 365.0 | | 6.90 | | | | | | | |
| 09/11/80 | | | | | | | 205.0 | 3.0 | | | 158.0 | |
| 09/30/80 | 9.0 | | 300.0 | | 7.10 | | 195.0 | 2.0 | | | | |
| 10/22/80 | 7.0 | | 380.0 | | 7.00 | | 248.0 | 15.0 | | | | |
| 11/10/80 | | | 340.0 | | 7.20 | | 220.0 | | | | | |
| 12/30/80 | 4.0 | | 198.0 | | 7.00 | | 260.0 | | | | 178.0 | |
| 06/16/81 | | | 195.0 | | 7.60 | | 150.0 | | | | 126.0 | |
| 07/31/81 | | | 360.0 | | | | 185.0 | -0.1 | | | 158.0 | |
| 08/29/81 | 17.0 | | | | | | 210.0 | | | | 158.0 | |
| 09/24/81 | | | 350.0 | | 7.30 | | 228.0 | 9.0 | | | 186.0 | |
| 10/07/81 | 7.0 | | 360.0 | | 7.20 | | 233.0 | 10.0 | | | 186.3 | |
| 06/29/83 | 8.0 | | 285.0 | | 6.80 | | 147.0 | -0.1 | | | 114.0 | |
| 10/05/83 | 9.0 | | 360.0 | | 7.85 | | 183.0 | -0.5 | | | 148.0 | |
| 06/21/84 | 7.0 | | 315.0 | | 7.00 | | 166.0 | -0.5 | | | 145.0 | |
| 10/25/84 | | | 435.0 | | 7.00 | | 255.0 | 7.0 | | | 220.0 | |
| 06/13/85 | 9.0 | | 270.0 | | 7.05 | | 163.0 | | | | 120.0 | |
| 09/24/85 | 6.0 | | 376.0 | | 6.65 | | 235.0 | 5.0 | | | 173.0 | |
| 06/11/86 | 7.0 | | 263.0 | 6.9 | 6.50 | | 170.0 | | | | 130.0 | |
| 10/10/86 | 16.0 | 585.0 | 372.0 | | 7.95 | | 204.0 | -0.5 | | | 155.0 | |
| 05/22/87 | 6.5 | 220.0 | | 8.3 | | | | | | | | |
| 07/19/87 | 8.0 | 290.0 | | 7.7 | | | | | | | | |
| 08/12/87 | 10.0 | 310.0 | | 7.7 | | | | | | | | |
| 09/22/87 | 9.6 | 335.0 | 367.0 | 7.0 | | | 206.0 | | | 213.0 | 169.0 | |
| 06/14/88 | 9.6 | 195.0 | | 8.2 | | | 184.0 | | -0.2 | 154.0 | 137.0 | |
| 07/15/88 | 12.0 | 257.0 | | 6.4 | | | 206.0 | | | 178.0 | 160.0 | |
| 08/19/88 | 11.5 | 260.0 | | 7.3 | | | | | | | | |
| 09/05/88 | 11.5 | 270.0 | | 7.6 | | | 208.0 | | | 196.0 | 169.0 | |
| 06/05/89 | 9.0 | 230.0 | | 7.1 | | | 202.0 | | | 132.0 | 118.0 | |
| 07/11/89 | 11.0 | 360.0 | | 7.5 | | | 222.0 | | | 192.0 | 156.0 | |
| 08/22/89 | 6.0 | 350.0 | | 7.5 | | | | | | | | |
| 09/15/89 | 7.0 | 400.0 | | 7.9 | | | 206.0 | | | 193.0 | 164.0 | |
| 06/04/90 | 6.0 | 340.0 | | 7.4 | | | 226.0 | | | 166.0 | 145.0 | |
| 07/02/90 | 10.0 | 400.0 | | 7.6 | | | 192.0 | | | 187.0 | 165.0 | |
| 08/30/90 | 12.0 | 370.0 | | 7.4 | | | | | | | | |
| 10/03/90 | 9.0 | 310.0 | | 7.1 | | | 214.0 | | | 202.0 | 158.0 | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: S182 STATION NAME: S18-2 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/11/80 | 58.4 | 5.8 | 6.6 | 9.6 | 192.8 | | | 2.0 | 12 | 0.1 | 0.22 |
| 09/30/80 | 60.0 | 5.3 | 4.0 | 0.6 | 151.3 | | | 3.4 | 46 | | 0.13 |
| 10/22/80 | 59.2 | 11.5 | 10.8 | 8.5 | 219.6 | | | 3.5 | 40 | | 0.34 |
| 11/10/80 | 60.0 | 14.4 | 4.0 | 0.6 | 222.1 | | | 1.9 | 30 | | 0.12 |
| 12/30/80 | 56.0 | 26.4 | 1.5 | 8.2 | 217.2 | | | 0.7 | 76 | | 0.04 |
| 06/16/81 | 40.0 | 10.6 | 4.0 | 0.5 | 153.7 | | | 4.7 | 16 | | 0.15 |
| 07/31/81 | 53.6 | 12.0 | 4.9 | 0.4 | 192.8 | | | 4.8 | 26 | | 0.16 |
| 08/29/81 | 56.0 | 13.4 | 3.8 | 1.3 | 192.8 | | | 8.0 | 30 | | 0.12 |
| 09/24/81 | 63.5 | 13.0 | 3.6 | 0.3 | 226.9 | | | 3.1 | 27 | | 0.11 |
| 10/07/81 | 60.5 | 13.5 | 5.5 | 0.4 | 227.2 | | | 3.4 | 25 | | 0.17 |
| 06/29/83 | 40.0 | 9.0 | 4.0 | 1.0 | 139.0 | | | 4.0 | 12 | | 0.15 |
| 10/05/83 | 54.0 | 12.0 | 4.0 | 1.0 | 181.0 | -1.0 | | 4.0 | 37 | | 0.13 |
| 06/21/84 | 51.0 | 9.0 | 4.0 | 1.0 | 177.0 | | | 4.0 | 10 | | 0.14 |
| 10/25/84 | 71.0 | 11.0 | 3.0 | 1.0 | 268.0 | -1.0 | | 8.0 | 10 | | 0.09 |
| 06/13/85 | 52.0 | 8.0 | 4.0 | 0.8 | 146.0 | | | 4.0 | 11 | | 0.14 |
| 09/24/85 | 60.0 | 14.0 | 4.0 | 1.0 | 211.0 | -1.0 | | 5.0 | 38 | | 0.12 |
| 06/11/86 | 49.0 | 7.0 | 3.6 | 0.7 | 159.0 | | | 3.3 | 25 | | 0.13 |
| 10/10/86 | 56.0 | 10.9 | 4.6 | 2.2 | 189.0 | -1.0 | | 6.8 | 30 | | 0.15 |
| 09/22/87 | 64.0 | 13.0 | 5.0 | 1.0 | 206.0 | | | 3.0 | 16 | | 0.15 |
| 06/14/88 | 47.0 | 9.0 | 2.0 | 1.0 | 167.0 | | | 2.0 | 12 | | 0.07 |
| 07/15/88 | 53.0 | 11.0 | 6.0 | -1.0 | 195.0 | | | 4.0 | 19 | | 0.20 |
| 09/05/88 | 57.0 | 13.0 | 3.0 | 1.0 | 206.0 | | | 4.0 | 23 | | 0.09 |
| 06/05/89 | 38.0 | 9.0 | 3.0 | -1.0 | 144.0 | | | 4.0 | 10 | | 0.11 |
| 07/11/89 | 57.0 | 12.0 | 4.0 | 2.0 | 190.0 | | | 3.0 | 21 | | 0.13 |
| 09/15/89 | 56.0 | 13.0 | 4.0 | -1.0 | 200.0 | | | 2.0 | 21 | | 0.13 |
| 06/04/90 | 50.0 | 10.0 | 4.0 | -1.0 | 177.0 | | | 3.0 | 14 | | 0.14 |
| 07/02/90 | 55.0 | 12.0 | 4.0 | 1.0 | 201.0 | | | 4.0 | 25 | | 0.13 |
| 10/03/90 | 61.0 | 12.0 | 4.0 | -1.0 | 193.0 | | | 3.0 | 39 | | 0.12 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: S182 STATION NAME: S18-2 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/14/88 | -1.0 | | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: S182 STATION NAME: S18-2 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 09/11/80 | -1.0 | 50 | -1.0 | -1.0 | | 12.0 | -0.20 | -1.0 | -1.00 |
| 10/05/83 | -1.0 | -100 | 44.0 | -50.0 | | -50.0 | -0.20 | -0.3 | |
| 10/25/84 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/24/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/10/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/22/87 | | | | | | -20.0 | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: S182 STATION NAME: S18-2 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/11/80 | | 10 | | | | | | | | |
| 09/30/80 | | 55 | | | | | | | | |
| 10/22/80 | | 55 | | | | | | | | |
| 11/10/80 | | 20 | | | | | | | | |
| 12/30/80 | | 75 | -1 | | | | | | | |
| 06/16/81 | | 10 | -1 | | | | | | | |
| 07/31/81 | | 20 | | | | | | | | |
| 08/29/81 | | 40 | | | | | | | | |
| 09/24/81 | | 16 | | | | | | | | |
| 10/07/81 | | 28 | | | | | | | | |
| 06/29/83 | | -50 | -10 | | | | | | | |
| 10/05/83 | | -50 | | | | | | | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 10/25/84 | | -50 | -10 | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/24/85 | | 90 | -10 | | | | | | | |
| 06/11/86 | | 140 | -10 | | | | | | | |
| 10/10/86 | | 130 | -10 | | | | | | | |
| 09/22/87 | | 80 | -10 | | -50 | | -50 | | | |
| 06/14/88 | | -20 | | | | | | | | |
| 07/15/88 | | 20 | | | | | | | | |
| 09/05/88 | | 30 | | | | | | | | |
| 06/05/89 | | 30 | -10 | | | | | | | |
| 07/11/89 | | -20 | -10 | | | | | | | |
| 09/15/89 | | -20 | -10 | | | | | | | |
| 06/04/90 | | 30 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 10/03/90 | | -20 | -10 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: S182 STATION NAME: S18-2 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/11/80 | 10 | 65 | 11 | 10 | | 12 | | | | |
| 09/30/80 | | 230 | 17 | | | | | | | |
| 10/22/80 | | 110 | 18 | | | | | | | |
| 11/10/80 | | 70 | 14 | | | | | | | |
| 12/30/80 | | 136 | 5 | | | | | | | |
| 06/16/81 | | 50 | -1 | | | | | | | |
| 07/31/81 | | 51 | -1 | | | | | | | |
| 08/29/81 | | 69 | 10 | | | | | | | |
| 09/24/81 | | 188 | 2 | | | | | | | |
| 10/07/81 | | 87 | 2 | | | | | | | |
| 06/29/83 | | 60 | 10 | | | | | | | |
| 10/05/83 | -20 | -50 | -10 | 7 | | 130 | | -40 | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 10/25/84 | -20 | 410 | 18 | 11 | | 230 | | -40 | | |
| 06/13/85 | | 120 | -10 | | | | | | | |
| 09/24/85 | -20 | 530 | 80 | -5 | | 150 | | -40 | | |
| 06/11/86 | | 140 | -10 | | | | | | | |
| 10/10/86 | 30 | 700 | 20 | -5 | | 100 | | -40 | | |
| 09/22/87 | | -20 | -10 | -10 | | | | | | |
| 06/14/88 | | 60 | -10 | | | | | | | |
| 07/15/88 | | -20 | -10 | | | | | | | |
| 09/05/88 | | 30 | -10 | | | | | | | |
| 06/05/89 | | 50 | -10 | | | | | | | |
| 07/11/89 | | 30 | -10 | | | | | | | |
| 09/15/89 | | 40 | -10 | | | | | | | |
| 06/04/90 | | 130 | -10 | | | | | | | |
| 07/02/90 | | 50 | -10 | | | | | | | |
| 10/03/90 | | 50 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: S182 STATION NAME: S18-2 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/11/80 | | | 1.310 | | | 0.060 | | | | 0.40 |
| 09/30/80 | | | | | | | | 0.110 | | |
| 10/22/80 | | | | | | | | 0.040 | | |
| 11/10/80 | | | | | | | | 0.150 | | |
| 10/05/83 | | | 1.310 | | | | | 0.060 | | 1.20 |
| 10/25/84 | | | 0.010 | | | | | 0.090 | | -0.50 |
| 09/24/85 | | | 0.420 | | | | | 0.020 | | -0.50 |
| 06/11/86 | | | | | | | | | | -0.50 |
| 10/10/86 | | | 0.020 | | | | | 0.090 | | -0.50 |
| 09/22/87 | | | 1.220 | | 1.220 | | | | | |
| 06/14/88 | | | 1.270 | | 1.260 | | | | -0.010 | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: S182 STATION NAME: S18-2 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 09/24/85 | | | | | | | 0.50 | | | | | |
| 10/10/86 | | | | | | | 0.05 | | | | | |
| 09/22/87 | | | | -0.20 | | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: 229 NAME: 229 TYPE: SPRING DATUM ELEV.: 9650.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 10/10/86 | 8:45 | 6.0 | | | 0.0020 | CFS | |
| 05/19/87 | 13:36 | 10.0 | | | 0.0450 | CFS | |
| 07/20/87 | 9:00 | 12.0 | | | 0.0180 | CFS | |
| 08/12/87 | 13:00 | 17.0 | | | 0.0120 | CFS | |
| 06/01/88 | 12:30 | | | | 0.0820 | CFS | |
| 07/16/88 | : | | | | 0.0001 | CFS | NO FLOW |
| 08/20/88 | : | | | | 0.0001 | CFS | NO FLOW |
| 09/05/88 | 12:00 | | | | 0.0001 | CFS | NO FLOW |
| 06/05/89 | 13:20 | | | | 0.0050 | CFS | |
| 07/11/89 | 11:30 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/89 | 12:55 | | | | 0.0001 | CFS | NO FLOW |
| 09/15/89 | 7:20 | | | | 0.0001 | CFS | NO FLOW |
| 05/30/90 | 15:10 | | | | 0.0001 | CFS | NO FLOW |
| 07/06/90 | 14:40 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/90 | 10:55 | | | | 0.0001 | CFS | NO FLOW |
| 09/24/90 | 9:20 | | | | 0.0001 | CFS | NO FLOW |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 229 STATION NAME: 229 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | 3.5 | 580.0 | 384.0 | | 8.18 | | 204.0 | -0.5 | | | 171.0 | |
| 05/19/87 | 3.6 | 320.0 | 381.0 | 7.8 | 7.80 | -3.0 | 192.0 | | | | 176.0 | |
| 07/20/87 | 4.2 | 280.0 | 398.0 | 8.0 | 7.70 | | 176.0 | | | 168.0 | 172.0 | |
| 08/12/87 | 5.0 | 300.0 | 458.0 | 8.0 | 7.40 | | 182.0 | | | 214.0 | 173.0 | |
| 06/01/88 | 3.5 | 208.0 | | 7.6 | | | | | | | 176.0 | |
| 06/05/89 | 4.0 | 340.0 | | 7.0 | | | 214.0 | | | 140.0 | 130.0 | |

PLATEAU MINING COMPANY



WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 229 STATION NAME: 229 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM | MAGNESM | SODIUM | POTASS | BICARB HCO3 | CARBONT CO3 | HYDROX OH | CHLORIDE | SULFATE | FLUOR | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | |
| 10/10/86 | 58.0 | 12.2 | 1.5 | 1.2 | 209.0 | -1.0 | | 2.4 | 25 | | 0.05 |
| 05/19/87 | 56.0 | 10.0 | 1.0 | 1.0 | 215.0 | | | -1.0 | -2 | 0.5 | 0.03 |
| 07/20/87 | 46.0 | 13.0 | 1.0 | 1.0 | 210.0 | | | 1.0 | 6 | 0.3 | 0.03 |
| 08/12/87 | 66.0 | 12.0 | 1.0 | 1.0 | 211.0 | | | 2.0 | 10 | 0.2 | 0.03 |
| 06/01/88 | 73.0 | 10.0 | 2.0 | 1.0 | 215.0 | | | 1.0 | 8 | -0.1 | 0.06 |
| 06/05/89 | 46.0 | 6.0 | 1.0 | -1.0 | 159.0 | | | 1.0 | 6 | | 0.04 |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PRIMARY METALS



NO.: 229 STATION NAME: 229 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | -1.0 | 80 | 6.0 | | | | | | |
| 07/20/87 | -1.0 | 70 | -5.0 | | | | | | |
| 08/12/87 | -1.0 | 80 | -5.0 | | | | | | |
| 06/01/88 | -1.0 | 110 | -5.0 | -10.0 | | | -0.20 | -1.0 | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PRIMARY METALS



NO.: 229 STATION NAME: 229 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 05/19/87 | | | | -10.0 | | 40.0 | -0.20 | -1.0 | |
| 07/20/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 08/12/87 | | | | -10.0 | | -20.0 | -0.20 | 1.0 | |
| 06/01/88 | | | | | | -20.0 | | | |

PLATEAU MINING COMPANY

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS



NO.: 229 STATION NAME: 229 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | | -50 | -10 | | | | | | | |
| 05/19/87 | | -20 | -10 | | | 30 | | | | |
| 07/20/87 | | -20 | -10 | | | 20 | | | | |
| 08/12/87 | | -20 | -10 | | | -20 | | | | |
| 06/01/88 | -10 | -20 | | | -50 | 70 | -50 | -20 | | |
| 06/05/89 | | -20 | -10 | | | | | | | |

PLATEAU MINING COMPANY 
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 229 STATION NAME: 229 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | 30 | 130 | 20 | 16 | | 90 | | -40 | | |
| 05/19/87 | -10 | -20 | -10 | -10 | -50 | | -50 | -20 | | |
| 07/20/87 | -10 | 40 | -10 | -10 | 100 | | -50 | 30 | | |
| 08/12/87 | -10 | 50 | -10 | -10 | 100 | | -50 | -20 | | |
| 06/01/88 | | -20 | -10 | 60 | | | | | | |
| 06/05/89 | | 30 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 229 STATION NAME: 229 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | | | -0.010 | | | | | 0.080 | | -0.50 |
| 05/19/87 | -0.020 | | 1.500 | | 1.490 | | -0.010 | | | |
| 07/20/87 | -0.020 | | 1.080 | | 1.080 | | -0.010 | | | |
| 08/12/87 | 0.030 | | 1.220 | | 1.220 | | -0.010 | | | |
| 06/01/88 | -0.020 | -0.001 | 1.290 | | 1.290 | | -0.010 | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 229 STATION NAME: 229 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 10/10/86 | | | | | | | -0.05 | | | | | |
| 07/20/87 | | | | -0.20 | | | | | | | | |
| 08/12/87 | | | | -0.20 | | | | | | | | |
| 06/01/88 | | | | 0.30 | | | | | | | | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 500 STATION NAME: 500 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 05/23/87 | -1.0 | 20 | 7.0 | | | | | | |
| 07/20/87 | -1.0 | 30 | -5.0 | | | | | | |
| 08/12/87 | -1.0 | 40 | -5.0 | | | | | | |
| 06/14/88 | -1.0 | 50 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 07/15/88 | -1.0 | 40 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 09/05/88 | -1.0 | 30 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 06/06/89 | -1.0 | 30 | -5.0 | -10.0 | | | -0.10 | -1.0 | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 500 STATION NAME: 500 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 05/23/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 07/20/87 | | | | -10.0 | | -20.0 | -0.20 | 1.0 | |
| 08/12/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 09/22/87 | | | | | | -20.0 | | | |
| 06/14/88 | | | | | | -20.0 | | | |
| 07/15/88 | | | | | | -20.0 | | | |
| 09/05/88 | | | | | | -20.0 | | | |
| 06/06/89 | | | | | | -20.0 | | | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 500 STATION NAME: 500 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 05/23/87 | | -20 | -10 | | | 40 | | | | |
| 07/20/87 | | -20 | -10 | | | 20 | | | | |
| 08/12/87 | | -20 | -10 | | | -20 | | | | |
| 09/22/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/14/88 | 10 | -20 | | | -50 | -20 | -50 | -20 | | |
| 07/15/88 | -10 | -20 | | | -50 | -20 | -50 | -20 | | |
| 09/05/88 | -10 | -20 | | | -50 | -20 | -50 | 20 | | |
| 06/06/89 | -10 | -20 | | | -50 | -20 | -50 | -20 | | |
| 07/11/89 | | -20 | -10 | | | | | | | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 500 STATION NAME: 500 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 07/20/87 | | | | -0.20 | | | | | | | | |
| 08/12/87 | | | | -0.20 | | | | | | | | |
| 09/22/87 | | | | 0.30 | | | | | | | | |
| 06/14/88 | | | | 0.30 | | | | | | | | |
| 07/15/88 | | | | 0.30 | | | | | | | | |
| 09/05/88 | | | | 0.02 | | | | | | | | |

NO.: S111 NAME: S11-1 TYPE: SPRING DATUM ELEV.: 9680.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 08/19/88 | 12:00 | | | | 0.0010 | CFS | |
| 09/05/88 | 14:00 | | | | 0.0010 | CFS | |
| 06/06/89 | 12:10 | | | | 0.0010 | CFS | |
| 07/11/89 | 12:30 | | | | 0.0030 | CFS | |
| 08/22/89 | 11:10 | | | | 0.0010 | CFS | |
| 09/14/89 | 14:10 | | | | 0.0010 | CFS | |
| 06/02/90 | 10:30 | | | | 0.0070 | CFS | |
| 07/02/90 | 12:00 | | | | 0.0010 | CFS | |
| 08/22/90 | 14:45 | | | | 0.0010 | CFS | |
| 09/24/90 | 14:45 | | | | 0.0010 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: S111 STATION NAME: S11-1 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | 60 | | | | | | | | |
| 10/22/80 | | 81 | | | | | | | | |
| 12/30/80 | | 58 | -1 | | | | | | | |
| 06/16/81 | | 40 | -1 | | | | | | | |
| 07/30/81 | | 50 | | | | | | | | |
| 08/29/81 | | 44 | | | | | | | | |
| 09/24/81 | | 40 | | | | | | | | |
| 10/07/81 | | 35 | | | | | | | | |
| 10/04/83 | | -50 | -10 | | | | | | | |
| 06/21/84 | | 100 | -10 | | | | | | | |
| 10/25/84 | | -50 | -10 | | | | | | | |
| 06/12/85 | | -50 | -10 | | | | | | | |
| 09/24/85 | | -50 | -10 | | | | | | | |
| 06/11/86 | | 120 | -10 | | | | | | | |
| 10/10/86 | | -50 | -10 | | | | | | | |
| 09/22/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/01/88 | | 330 | | | | | | | | |
| 07/15/88 | | -20 | | | | | | | | |
| 09/05/88 | | -20 | | | | | | | | |
| 06/06/89 | | 20 | -10 | | | | | | | |
| 07/11/89 | | -20 | -10 | | | | | | | |
| 09/14/89 | | 20 | -10 | | | | | | | |
| 06/02/90 | | 70 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 09/24/90 | | 20 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: S111 STATION NAME: S11-1 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | 112 | 10 | | | | | | | |
| 10/22/80 | | 110 | 20 | | | | | | | |
| 11/10/80 | | 100 | 20 | | | | | | | |
| 12/30/80 | | 120 | 5 | | | | | | | |
| 06/16/81 | | 260 | -1 | | | | | | | |
| 07/30/81 | | 238 | 2 | | | | | | | |
| 08/29/81 | | 250 | 2 | | | | | | | |
| 09/24/81 | | 250 | 3 | | | | | | | |
| 10/07/81 | | 260 | 10 | | | | | | | |
| 10/04/83 | -20 | -50 | -10 | -5 | | 100 | | -40 | | |
| 06/21/84 | | 200 | -10 | | | | | | | |
| 10/25/84 | -20 | 200 | -10 | -5 | | 330 | | -40 | | |
| 06/12/85 | | 60 | -10 | | | | | | | |
| 09/24/85 | -20 | -50 | -10 | -5 | | 120 | | -40 | | |
| 06/11/86 | | 140 | -10 | | | | | | | |
| 10/10/86 | 30 | -50 | -10 | 10 | | 100 | | -40 | | |
| 09/22/87 | | 20 | -10 | -10 | | | | | | |
| 06/01/88 | | 350 | -10 | | | | | | | |
| 07/15/88 | | -20 | -10 | | | | | | | |
| 09/05/88 | | 30 | -10 | | | | | | | |
| 06/06/89 | | 50 | -10 | | | | | | | |
| 07/11/89 | | 60 | -10 | | | | | | | |
| 09/14/89 | | 20 | -10 | | | | | | | |
| 06/02/90 | | 170 | -10 | | | | | | | |
| 07/02/90 | | 50 | -10 | | | | | | | |
| 09/24/90 | | 40 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: S111 STATION NAME: S11-1 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | | | | | | | 0.050 | | |
| 10/22/80 | | | | | | | | 0.100 | | |
| 11/10/80 | | | | | | | | 0.160 | | |
| 10/04/83 | | | 1.790 | | | | | 0.060 | | -0.50 |
| 10/25/84 | | | 0.040 | | | | | 0.100 | | -0.50 |
| 09/24/85 | | | 0.860 | | | | | 0.080 | | 1.70 |
| 06/11/86 | | | | | | | | | | -0.50 |
| 10/10/86 | | | -0.010 | | | | | 0.110 | | -0.50 |
| 09/22/87 | | | 2.800 | | 2.800 | | | | | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: S111 STATION NAME: S11-1 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 09/24/85 | | | | | | | 1.00 | | | | |
| 10/10/86 | | | | | | | -0.05 | | | | |
| 09/22/87 | | | | -0.20 | | | | | | | |

NO.: 232 NAME: 232 TYPE: SPRING DATUM ELEV.: 9765.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/01/88 | 10:00 | | | | 0.0130 | CFS | |
| 09/03/88 | 18:30 | | | | 0.0001 | CFS | NO FLOW |
| 06/05/89 | 12:45 | | | | 0.0070 | CFS | |
| 07/11/89 | 11:35 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/89 | 12:00 | | | | 0.0001 | CFS | NO FLOW |
| 09/15/89 | 7:15 | | | | 0.0001 | CFS | NO FLOW |
| 05/30/90 | 15:45 | | | | 0.0080 | CFS | |
| 07/06/90 | 15:00 | | | | 0.0010 | CFS | |
| 08/22/90 | 14:00 | | | | 0.0010 | CFS | |
| 09/24/90 | 9:40 | | | | 0.0001 | CFS | NO FLOW |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 232 STATION NAME: 232 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | 4.8 | 170.0 | | 7.4 | | | | | | | 133.0 | |
| 06/05/89 | 4.0 | 380.0 | | 7.2 | | | 168.0 | | | 168.0 | 150.0 | |
| 05/30/90 | 6.0 | 280.0 | | 7.6 | | | 208.0 | | | 178.0 | 192.0 | |
| 07/06/90 | 8.0 | 350.0 | | 7.9 | | | 188.0 | | | 199.0 | 168.0 | |
| 08/22/90 | 14.0 | 310.0 | | 7.8 | | | | | | | | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 232 STATION NAME: 232 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | 56.0 | 8.0 | 2.0 | 1.0 | 162.0 | | | 1.0 | 4 | -0.1 | 0.07 |
| 06/05/89 | 54.0 | 8.0 | 1.0 | 1.0 | 183.0 | | | 2.0 | 10 | 0.2 | 0.03 |
| 05/30/90 | 58.0 | 8.0 | 2.0 | 1.0 | 234.0 | | | 2.0 | 2 | 0.1 | 0.07 |
| 07/06/90 | 65.0 | 9.0 | 2.0 | 1.0 | 205.0 | | | 2.0 | 12 | 0.1 | 0.06 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 232 STATION NAME: 232 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | -1.0 | 60 | -5.0 | -10.0 | | | -0.20 | -1.0 | |
| 06/05/89 | -1.0 | 80 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 05/30/90 | -1.0 | 60 | -10.0 | -10.0 | | | -0.10 | 1.0 | |
| 07/06/90 | -1.0 | 60 | -10.0 | -10.0 | | | -0.10 | 1.0 | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 232 STATION NAME: 232 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | | | | | | 20.0 | | | |
| 06/05/89 | | | | | | -20.0 | | | |
| 05/30/90 | | | | | | -20.0 | | | |
| 07/06/90 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 232 STATION NAME: 232 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | -10 | 80 | | | -50 | 270 | -50 | -20 | | |
| 06/05/89 | -10 | 60 | -10 | | 170 | -20 | -50 | -20 | | |
| 05/30/90 | -10 | 130 | -10 | | 160 | 30 | -50 | -20 | | |
| 07/06/90 | -10 | 20 | -10 | | -50 | -20 | -50 | -20 | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 232 STATION NAME: 232 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | | 1040 | 30 | 10 | | | | | | |
| 06/05/89 | | 1920 | 40 | 10 | | | | | | |
| 05/30/90 | | 560 | 30 | 10 | | | | | | |
| 07/06/90 | | 1030 | 20 | 10 | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 232 STATION NAME: 232 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | 0.020 | -0.001 | 0.490 | | 0.490 | | 0.020 | | | |
| 06/05/89 | 0.100 | -0.001 | 0.480 | | 0.470 | | 0.019 | | | |
| 05/30/90 | 1.870 | 0.011 | 0.320 | | 0.310 | | 0.014 | | | |
| 07/06/90 | -0.050 | -0.001 | 0.620 | | 0.610 | | 0.015 | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 232 STATION NAME: 232 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 06/01/88 | | | | 0.30 | | | | | | | | |
| 06/05/89 | | | | 0.01 | | | | | | | | |
| 05/30/90 | | | | -0.01 | | | | | | | | |
| 07/06/90 | | | | -0.01 | | | | | | | | |

# ANNUAL HYDROLOGIC REPORT
# 1990

## STAR POINT MINES

Permit ACT/007/006
Volume III

NO.: 429 NAME: 429 TYPE: SPRING DATUM ELEV.: 9875.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 05/19/87 | 8:30 | 11.0 | | | 0.0070 | CFS | |
| 06/01/88 | 16:35 | | | | 0.0100 | CFS | |
| 07/16/88 | 17:00 | | | | 0.0030 | CFS | |
| 08/20/88 | 10:00 | | | | 0.0010 | CFS | |
| 09/03/88 | 19:15 | | | | 0.0001 | CFS | NO FLOW |
| 06/05/89 | 14:15 | | | | 0.0050 | CFS | |
| 07/11/89 | 13:40 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/89 | 12:50 | | | | 0.0001 | CFS | NO FLOW |
| 09/15/89 | 7:30 | | | | 0.0001 | CFS | NO FLOW |
| 05/30/90 | 14:15 | | | | 0.0050 | CFS | |
| 07/07/90 | 9:00 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/90 | 10:20 | | | | 0.0001 | CFS | NO FLOW |
| 09/24/90 | 9:45 | | | | 0.0001 | CFS | NO FLOW |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 429 STATION NAME: 429 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | 3.5 | | | 8.8 | | -16.3 | | | | | | - |
| 06/01/88 | 5.4 | 268.0 | | 7.8 | | | | | | | 229.0 | |
| 07/16/88 | 14.5 | 318.0 | | 7.5 | | | 252.0 | | | 226.0 | 219.0 | |
| 08/20/88 | 13.0 | 335.0 | | 8.6 | | | | | | | | |
| 06/05/89 | 5.0 | 420.0 | | 8.1 | | | 218.0 | | | 158.0 | 140.0 | |
| 05/30/90 | 5.0 | 350.0 | | 7.6 | | | | | | | | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 429 STATION NAME: 429 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM | MAGNESM | SODIUM | POTASS | BICARB HCO3 | CARBONT CO3 | HYDROX OH | CHLORIDE | SULFATE | FLUOR | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | |
| 06/01/88 | 84.0 | 17.0 | 3.0 | 1.0 | 279.0 | | | 1.0 | 4 | 0.2 | 0.08 |
| 07/16/88 | 64.0 | 16.0 | 4.0 | -1.0 | 267.0 | | | 2.0 | 14 | 0.1 | 0.12 |
| 06/05/89 | 45.0 | 11.0 | 2.0 | -1.0 | 171.0 | | | 2.0 | 4 | 0.2 | 0.07 |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 429 STATION NAME: 429 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | -1.0 | 40 | -5.0 | -10.0 | | | -0.20 | -1.0 | |
| 07/16/88 | -1.0 | 50 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 06/05/89 | -1.0 | 50 | 5.0 | -10.0 | | | -0.10 | -1.0 | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PRIMARY METALS



NO.: 429 STATION NAME: 429 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | | | | | | -20.0 | | | |
| 07/16/88 | | | | | | -20.0 | | | |
| 06/05/89 | | | | | | -20.0 | | | |

PLATEAU MINING COMPANY

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS



NO.: 444 STATION NAME: 444 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/14/87 | -10 | -20 | -10 | -10 | -50 | | -50 | -20 | | |
| 09/23/87 | | 50 | -10 | 10 | | | | | | |
| 06/03/88 | | 220 | -10 | -10 | | | | | | |
| 07/16/88 | | -20 | -10 | -10 | | | | | | |
| 09/10/88 | | 600 | 10 | 10 | | | | | | |
| 06/05/89 | | 40 | -10 | 10 | | | | | | |
| 07/11/89 | | 210 | -10 | 20 | | | | | | |
| 09/14/89 | | 60 | -10 | 30 | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 429 STATION NAME: 429 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | -10 | -20 | | | -50 | 160 | -50 | -20 | | |
| 07/16/88 | 20 | -20 | | | -50 | -20 | -50 | -20 | | |
| 06/05/89 | -10 | -20 | -10 | | -50 | 20 | -50 | -20 | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 429 STATION NAME: 429 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | | 80 | -10 | -10 | | | | | | |
| 07/16/88 | | 100 | 10 | -10 | | | | | | |
| 06/05/89 | | 170 | -10 | -10 | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 429 STATION NAME: 429 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | -0.020 | -0.001 | -0.020 | | -0.020 | | -0.010 | | | |
| 07/16/88 | -0.020 | -0.001 | -0.010 | | -0.020 | | 0.010 | | | |
| 06/05/89 | 0.100 | 0.001 | 0.120 | | 0.110 | | -0.005 | | | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 429 STATION NAME: 429 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 06/01/88 | | | | -0.20 | | | | | | | |
| 07/16/88 | | | | 0.30 | | | | | | | |
| 06/05/89 | | | | -0.01 | | | | | | | |

NO.: 444 NAME: 444 TYPE: SPRING DATUM ELEV.: 9540.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 05/19/87 | 8:40 | 11.0 | | | 0.0330 | CFS | |
| 08/14/87 | 11:00 | 20.0 | | | 0.0220 | CFS | |
| 09/23/87 | 8:50 | 6.0 | | | 0.0150 | CFS | |
| 06/03/88 | 13:30 | | | | 0.1670 | CFS | |
| 07/16/88 | 18:30 | | | | 0.0090 | CFS | |
| 08/20/88 | 11:00 | | | | 0.0220 | CFS | |
| 09/10/88 | 12:00 | | | | 0.0270 | CFS | |
| 06/05/89 | 15:10 | | | | 0.0130 | CFS | |
| 07/11/89 | 14:00 | | | | 0.0120 | CFS | |
| 08/22/89 | 14:20 | | | | 0.0110 | CFS | |
| 09/14/89 | 13:25 | | | | 0.0100 | CFS | |
| 05/30/90 | 14:35 | | | | 0.0170 | CFS | |
| 07/07/90 | 9:30 | | | | 0.0130 | CFS | |
| 08/22/90 | 10:30 | | | | 0.0100 | CFS | |
| 09/24/90 | 10:00 | | | | 0.0090 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 444 STATION NAME: 444 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | 3.8 | 420.0 | | 8.0 | | 17.5 | | | | | | |
| 08/14/87 | 7.2 | 395.0 | 418.0 | 8.4 | 8.10 | | 256.0 | | | 221.0 | 211.0 | |
| 09/23/87 | 5.7 | 480.0 | 436.0 | 7.4 | | | 260.0 | | | 276.0 | 237.0 | |
| 06/03/88 | 10.0 | 308.0 | | 8.2 | | | | | | | 229.0 | |
| 07/16/88 | 7.5 | 312.0 | | 8.0 | | | 272.0 | | | 236.0 | 229.0 | |
| 08/20/88 | 8.0 | 295.0 | | 8.6 | | | | | | | | |
| 09/10/88 | 8.5 | 304.0 | | 8.7 | | | 280.0 | | | 262.0 | 223.0 | |
| 06/05/89 | 5.0 | 530.0 | | 7.7 | | | 260.0 | | | 188.0 | 160.0 | |
| 07/11/89 | 13.0 | 450.0 | | 8.2 | | | 254.0 | | | 227.0 | 220.0 | |
| 08/22/89 | 6.0 | 520.0 | | 7.4 | | | | | | | | |
| 09/14/89 | 8.0 | 470.0 | | 7.5 | | | 240.0 | | | 270.0 | 242.0 | |
| 05/30/90 | 6.0 | 420.0 | | 8.2 | | | | | | | | |
| 07/07/90 | 7.0 | 490.0 | | 8.4 | | | | | | | | |
| 08/22/90 | 6.0 | 420.0 | | 8.4 | | | | | | | | |
| 09/24/90 | 5.0 | 420.0 | | 8.4 | | | | | | | | |

PLATEAU MINING COMPANY

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS



NO.: 444 STATION NAME: 444 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/14/87 | -10 | -20 | -10 | -10 | -50 | | -50 | -20 | | |
| 09/23/87 | | 50 | -10 | 10 | | | | | | |
| 06/03/88 | | 220 | -10 | -10 | | | | | | |
| 07/16/88 | | -20 | -10 | -10 | | | | | | |
| 09/10/88 | | 600 | 10 | 10 | | | | | | |
| 06/05/89 | | 40 | -10 | 10 | | | | | | |
| 07/11/89 | | 210 | -10 | 20 | | | | | | |
| 09/14/89 | | 60 | -10 | 30 | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 444 STATION NAME: 444 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/14/87 | -0.020 | | 1.710 | | 1.710 | | -0.010 | | | |
| 09/23/87 | | | 1.700 | | 1.700 | | | | | |
| 06/03/88 | 0.020 | -0.001 | 1.040 | | 1.040 | | -0.010 | | | |
| 07/16/88 | -0.020 | -0.001 | 1.500 | | 1.490 | | -0.010 | | | |
| 09/10/88 | 0.080 | 0.007 | 1.220 | | 1.230 | | -0.010 | | | |
| 06/05/89 | 0.060 | -0.001 | 1.730 | | 1.720 | | -0.005 | | | |
| 07/11/89 | 0.040 | 0.001 | 1.660 | | 1.650 | | -0.005 | | | |
| 09/14/89 | 0.010 | -0.001 | 1.570 | | 1.560 | | -0.005 | | | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 444 STATION NAME: 444 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 08/14/87 | | | | -0.20 | | | | | | | | |
| 09/23/87 | | | | -0.20 | | | | | | | | |
| 06/03/88 | | | | -0.20 | | | | | | | | |
| 07/16/88 | | | | -0.20 | | | | | | | | |
| 09/10/88 | | | | 0.05 | | | | | | | | |
| 06/05/89 | | | | -0.01 | | | | | | | | |
| 07/11/89 | | | | -0.01 | | | | | | | | |
| 09/14/89 | | | | -0.01 | | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 518 STATION NAME: 518 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | 5.1 | 440.0 | 531.0 | 8.4 | 8.00 | -36.0 | 280.0 | | | | 258.0 | |
| 08/12/87 | 7.0 | 330.0 | 608.0 | 8.0 | 7.50 | | 278.0 | | | 293.0 | 276.0 | |
| 09/22/87 | 7.3 | 515.0 | 397.0 | 7.0 | | | 238.0 | | | 268.0 | 228.0 | |
| 06/02/88 | 4.2 | 280.0 | | 8.2 | | | | | | | 241.0 | |
| 07/16/88 | 12.5 | 332.0 | | 8.0 | | | 270.0 | | | 247.0 | 233.0 | |
| 08/19/88 | 8.2 | 310.0 | | 7.5 | | | | | | | | |
| 09/05/88 | 9.5 | 340.0 | | 7.7 | | | 298.0 | | | 305.0 | 235.0 | |
| 06/06/89 | 6.0 | 460.0 | | 7.7 | | | 230.0 | | | 244.0 | 222.0 | |
| 07/11/89 | 9.0 | 480.0 | | 7.6 | | | 256.0 | | | 254.0 | 224.0 | |
| 08/22/89 | 5.0 | 550.0 | | 7.3 | | | | | | | | |
| 09/15/89 | 7.0 | 490.0 | | 7.3 | | | 250.0 | | | 242.0 | 232.0 | |
| 05/30/90 | 4.0 | 430.0 | | 7.0 | | | 272.0 | | | 257.0 | 237.0 | |
| 07/02/90 | 7.0 | 510.0 | | 7.9 | | | 246.0 | | | 259.0 | 248.0 | |
| 08/30/90 | 8.0 | 460.0 | | 7.7 | | | | | | | | |
| 10/03/90 | 5.0 | 450.0 | | 7.1 | | | 280.0 | | | 302.0 | 268.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 518 STATION NAME: 518 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | 64.0 | 20.0 | 2.0 | 1.0 | 315.0 | | | 1.0 | 2 | 0.6 | 0.06 |
| 08/12/87 | 86.0 | 19.0 | 2.0 | 1.0 | 337.0 | | | 1.0 | -2 | 0.2 | 0.05 |
| 09/22/87 | 81.0 | 16.0 | 2.0 | 1.0 | 278.0 | | | 1.0 | -2 | | 0.05 |
| 06/02/88 | 83.0 | 17.0 | 2.0 | 1.0 | 294.0 | | | 2.0 | 4 | 0.1 | 0.05 |
| 07/16/88 | 74.0 | 15.0 | 3.0 | -1.0 | 284.0 | | | 1.0 | 8 | -0.1 | 0.08 |
| 09/05/88 | 89.0 | 20.0 | 1.0 | 1.0 | 287.0 | | | 1.0 | 41 | -0.1 | 0.03 |
| 06/06/89 | 73.0 | 15.0 | 1.0 | 1.0 | 271.0 | | | 1.0 | 2 | 0.2 | 0.03 |
| 07/11/89 | 77.0 | 15.0 | 2.0 | 1.0 | 273.0 | | | 1.0 | 8 | | 0.06 |
| 09/15/89 | 69.0 | 17.0 | 2.0 | -1.0 | 283.0 | | | -1.0 | 6 | | 0.06 |
| 05/30/90 | 80.0 | 14.0 | 2.0 | -1.0 | 289.0 | | | 2.0 | -2 | | 0.05 |
| 07/02/90 | 79.0 | 15.0 | 2.0 | -1.0 | 303.0 | | | 1.0 | 25 | | 0.05 |
| 10/03/90 | 93.0 | 17.0 | 2.0 | -1.0 | 327.0 | | | 2.0 | 14 | | 0.05 |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 518 STATION NAME: 518 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | -1.0 | 80 | -5.0 | | | | | | |
| 08/12/87 | -1.0 | 80 | -5.0 | | | | | | |
| 06/02/88 | -1.0 | 80 | -5.0 | -10.0 | | | -0.20 | -1.0 | |
| 07/16/88 | -1.0 | 80 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 09/05/88 | -1.0 | 70 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 06/06/89 | -1.0 | 80 | -5.0 | -10.0 | | | -0.10 | -1.0 | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 518 STATION NAME: 518 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 08/12/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 09/22/87 | | | | | | -20.0 | | | |
| 06/02/88 | | | | | | -20.0 | | | |
| 07/16/88 | | | | | | -20.0 | | | |
| 09/05/88 | | | | | | -20.0 | | | |
| 06/06/89 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 518 STATION NAME: 518 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | | 20 | -10 | | | 40 | | | | |
| 08/12/87 | | -20 | -10 | | | -20 | | | | |
| 09/22/87 | | 190 | -10 | | -50 | | -50 | | | |
| 06/02/88 | -10 | -20 | | | 160 | -20 | -50 | -20 | | |
| 07/16/88 | -10 | 30 | | | -50 | -20 | -50 | -20 | | |
| 09/05/88 | -10 | 80 | | | 50 | -20 | -50 | -20 | | |
| 06/06/89 | -10 | 40 | -10 | | -50 | -20 | -50 | -20 | | |
| 07/11/89 | | 20 | -10 | | | | | | | |
| 09/15/89 | | -20 | -10 | | | | | | | |
| 05/30/90 | | -20 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 10/03/90 | | -20 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 518 STATION NAME: 518 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | -0.020 | | 1.500 | | 1.490 | | -0.010 | | | |
| 08/12/87 | 0.030 | | 0.900 | | 0.900 | | -0.010 | | | |
| 09/22/87 | | | 2.970 | | 3.000 | | | | | |
| 06/02/88 | -0.020 | -0.001 | 2.040 | | 2.040 | | -0.010 | | | |
| 07/16/88 | -0.020 | -0.001 | 2.110 | | 2.100 | | 0.010 | | | |
| 09/05/88 | 0.050 | -0.001 | 1.460 | | 1.450 | | -0.010 | | | |
| 06/06/89 | 0.070 | -0.001 | 2.240 | | 2.230 | | 0.009 | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 518 STATION NAME: 518 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 08/12/87 | | | | -0.20 | | | | | | | | |
| 09/22/87 | | | | -0.20 | | | | | | | | |
| 06/02/88 | | | | 0.30 | | | | | | | | |
| 07/16/88 | | | | -0.20 | | | | | | | | |
| 09/05/88 | | | | 0.38 | | | | | | | | |
| 06/06/89 | | | | 0.03 | | | | | | | | |

NO.: 748 NAME: 748 GENTRY SPRING TYPE: SPRING DATUM ELEV.: 9780.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 09/11/79 | 14:32 | 18.0 | | | 0.0010 | CFS | |
| 09/30/80 | 15:54 | 18.0 | | | 0.0010 | CFS | |
| 10/23/80 | 11:20 | 1.0 | | | 0.0005 | CFS | |
| 12/30/80 | 12:08 | | | | | | |
| 01/06/81 | : | | | | | | IN-ACCESSIBLE |
| 02/04/81 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 03/25/81 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 04/28/81 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 05/28/81 | : | | | | | | IN-ACCESSIBLE - RAIN AND MUD |
| 06/17/81 | 9:10 | 11.0 | | | 0.0100 | CFS | |
| 07/30/81 | 13:35 | | | | | | |
| 08/29/81 | 12:15 | 26.0 | | | 0.0010 | CFS | |
| 10/07/81 | 11:45 | 17.0 | | | 0.0003 | CFS | |
| 11/24/81 | : | | | | | | IN-ACCESSIBLE |
| 12/29/81 | : | | | | | | IN-ACCESSIBLE |
| 03/24/83 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 05/12/83 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 06/29/83 | : | | | | | | IN-ACCESSIBLE SNOW DRIFTS & MUD SLIDE |
| 10/04/83 | 14:00 | 18.0 | | | 0.0030 | CFS | |
| 01/06/84 | 14:30 | | | | | | COVERED W/SNOW - NOT POSSIBLE TO SAMPLE |
| 03/30/84 | : | | | | | | COVERED W/SNOW - NOT POSSIBLE TO SAMPLE |
| 06/21/84 | 13:40 | 21.0 | | | 0.0290 | CFS | |
| 10/25/84 | 16:45 | | | | | | |
| 02/21/85 | : | | | | | | INACCESSIBLE - DEEP SNOW |
| 03/31/85 | : | | | | | | INACCESSIBLE - DEEP SNOW |
| 06/13/85 | : | 27.0 | | | 0.0130 | CFS | |
| 09/24/85 | : | 6.0 | | | 0.0020 | CFS | |
| 06/11/86 | 12:39 | 21.1 | | | 0.0400 | CFS | |
| 10/10/86 | 10:00 | 7.0 | | | 0.0060 | CFS | |
| 05/19/87 | 9:45 | 12.0 | | | 0.0400 | CFS | |
| 07/19/87 | 12:20 | 18.0 | | | 0.0070 | CFS | |
| 08/12/87 | 11:05 | 15.0 | | | 0.0030 | CFS | |
| 09/22/87 | 10:00 | 16.0 | | | 0.0030 | CFS | |
| 06/02/88 | 15:50 | | | | 0.0390 | CFS | |
| 07/15/88 | 20:00 | | | | 0.0050 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

NO.: 748 NAME: 748 GENTRY SPRING TYPE: SPRING DATUM ELEV.: 9780.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 08/19/88 | 13:00 | | | | 0.0050 | CFS | |
| 09/05/88 | 15:00 | | | | 0.0020 | CFS | |
| 06/06/89 | 10:10 | | | | 0.0110 | CFS | |
| 07/11/89 | 10:25 | | | | 0.0050 | CFS | |
| 08/22/89 | 9:50 | | | | 0.0030 | CFS | |
| 09/15/89 | 8:55 | | | | 0.0020 | CFS | |
| 05/30/90 | 10:10 | | | | 0.0130 | CFS | |
| 07/02/90 | 10:00 | | | | 0.0040 | CFS | |
| 08/30/90 | 10:15 | | | | 0.0030 | CFS | |
| 10/03/90 | 12:15 | | | | 0.0020 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 748 STATION NAME: 748 GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/11/79 | 7.0 | | 390.0 | | 7.60 | | 224.0 | | | | | |
| 09/30/80 | | | 330.0 | | | | 210.0 | 1.0 | | | | |
| 10/23/80 | 3.0 | | 390.0 | | 7.60 | | 255.0 | 4.0 | | | | |
| 06/17/81 | 5.0 | | 225.0 | | 7.80 | | 210.0 | | | | 194.0 | |
| 07/30/81 | | | 380.0 | | | | 200.0 | 1.0 | | | | |
| 08/29/81 | 6.0 | | | | | | 200.0 | | | | 188.0 | |
| 10/07/81 | 9.0 | | 340.0 | | 7.70 | | 226.0 | 48.0 | | | 215.5 | |
| 10/04/83 | 8.0 | | 390.0 | | 7.55 | | 199.0 | -0.5 | | | 203.0 | |
| 06/21/84 | 13.0 | | 405.0 | | 7.40 | | 202.0 | -0.5 | | | 205.0 | |
| 10/25/84 | | | 400.0 | | 7.10 | | 237.0 | -0.1 | | | 200.0 | |
| 06/13/85 | 9.0 | | 388.0 | | 7.35 | | 218.0 | | | | 202.0 | |
| 09/24/85 | 2.0 | | 381.0 | | 7.15 | | 236.0 | 6.0 | | | 204.0 | |
| 06/11/86 | 6.0 | | 373.0 | 7.9 | 7.40 | | 203.0 | | | | 204.0 | |
| 10/10/86 | 2.0 | 708.0 | 426.0 | | 8.17 | | 228.0 | 3.0 | | | 217.0 | |
| 05/19/87 | 6.0 | 370.0 | | 8.5 | | -45.3 | | | | | | |
| 07/19/87 | 7.0 | 360.0 | | 7.6 | | | | | | | | |
| 08/12/87 | 7.0 | 380.0 | | 7.6 | | | | | | | | |
| 09/22/87 | 4.4 | 460.0 | 383.0 | 7.6 | | | 204.0 | | | 232.0 | 208.0 | |
| 06/02/88 | 5.1 | 248.0 | | 7.9 | | | 222.0 | 2.0 | -0.2 | 242.0 | 212.0 | |
| 07/15/88 | 12.3 | 304.0 | | 7.6 | | | 228.0 | | | 209.0 | 210.0 | |
| 08/19/88 | 8.0 | 275.0 | | 7.8 | | | | | | | | |
| 09/05/88 | 10.5 | 285.0 | | 7.9 | | | 214.0 | | | 256.0 | 219.0 | |
| 06/06/89 | 5.0 | 420.0 | | 7.8 | | | 214.0 | | | 212.0 | 202.0 | |
| 07/11/89 | 9.0 | 410.0 | | 7.9 | | | 238.0 | | | 242.0 | 202.0 | |
| 08/22/89 | 7.0 | 440.0 | | 7.8 | | | | | | | | |
| 09/15/89 | 3.0 | 410.0 | | 7.9 | | | 204.0 | | | 228.0 | 210.0 | |
| 05/30/90 | 4.0 | 400.0 | | 7.8 | | | 238.0 | | | 232.0 | 218.0 | |
| 07/02/90 | 9.0 | 450.0 | | 7.8 | | | 206.0 | | | 227.0 | 220.0 | |
| 08/30/90 | 9.0 | 410.0 | | 8.4 | | | | | | | | |
| 10/03/90 | 6.0 | 380.0 | | 8.3 | | | 224.0 | | | 226.0 | 220.0 | |

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WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 748 STATION NAME: 748 GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM | MAGNESM | SODIUM | POTASS | BICARB HCO3 | CARBONT CO3 | HYDROX OH | CHLORIDE | SULFATE | FLUOR | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | |
| 09/11/79 | 74.4 | 7.7 | 1.3 | 4.3 | 248.9 | | | 2.0 | 12 | | 0.04 |
| 09/30/80 | 46.4 | 21.1 | 1.1 | 0.4 | 178.1 | | | 1.5 | 52 | | 0.03 |
| 10/23/80 | 52.0 | 21.6 | 12.4 | 4.6 | 270.8 | | | 1.4 | 24 | | 0.36 |
| 06/17/81 | 43.2 | 24.5 | 4.0 | 0.5 | 236.7 | | | 1.9 | 14 | | 0.12 |
| 07/30/81 | 48.8 | 21.1 | 4.2 | 0.4 | 236.7 | | | 1.5 | 20 | | 0.13 |
| 08/29/81 | 28.0 | 33.1 | 2.2 | 0.7 | 229.4 | | | 7.0 | 11 | | 0.07 |
| 10/07/81 | 50.0 | 23.0 | 4.9 | 0.5 | 267.7 | | | 1.6 | 10 | | 0.14 |
| 10/04/83 | 49.0 | 22.0 | 1.0 | 0.5 | 248.0 | -1.0 | | 2.0 | 1 | | 0.03 |
| 06/21/84 | 50.0 | 22.0 | 1.0 | 1.0 | 250.0 | | | 2.0 | 3 | | 0.03 |
| 10/25/84 | 49.0 | 22.0 | 1.0 | 0.5 | 244.0 | -1.0 | | 8.0 | 6 | | 0.03 |
| 06/13/85 | 60.0 | 23.0 | 1.0 | 0.8 | 246.0 | | | 2.0 | 3 | | 0.03 |
| 09/24/85 | 48.0 | 24.0 | 1.0 | 0.4 | 245.0 | -1.0 | | 2.0 | 10 | | |
| 06/11/86 | 51.0 | 23.0 | 1.3 | 0.6 | 249.0 | | | 1.6 | 16 | | 0.04 |
| 10/10/86 | 52.0 | 24.3 | 1.4 | 1.1 | 265.0 | -1.0 | | 2.5 | 15 | | 0.04 |
| 09/22/87 | 55.0 | 23.0 | 1.0 | 1.0 | 254.0 | | | 1.0 | -2 | | 0.03 |
| 06/02/88 | 54.0 | 26.0 | 1.0 | 1.0 | 259.0 | | | -1.0 | 4 | | 0.03 |
| 07/15/88 | 46.0 | 23.0 | 2.0 | -1.0 | 256.0 | | | 1.0 | 8 | | 0.06 |
| 09/05/88 | 58.0 | 27.0 | 1.0 | -1.0 | 267.0 | | | 1.0 | 27 | | 0.03 |
| 06/06/89 | 47.0 | 23.0 | 1.0 | 1.0 | 246.0 | | | 1.0 | -2 | | 0.03 |
| 07/11/89 | 54.0 | 26.0 | 1.0 | 1.0 | 246.0 | | | 1.0 | 2 | | 0.03 |
| 09/15/89 | 50.0 | 25.0 | 1.0 | -1.0 | 256.0 | | | -1.0 | 2 | | 0.03 |
| 05/30/90 | 55.0 | 23.0 | 1.0 | -1.0 | 266.0 | | | 1.0 | 2 | | 0.03 |
| 07/02/90 | 53.0 | 23.0 | 1.0 | -1.0 | 268.0 | | | 1.0 | 8 | | 0.03 |
| 10/03/90 | 56.0 | 21.0 | 2.0 | -1.0 | 268.0 | | | 1.0 | 6 | | 0.06 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 748 STATION NAME: 748 GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/04/83 | -1.0 | -100 | 2410.0 | -50.0 | | -50.0 | -0.20 | -0.3 | |
| 10/25/84 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/24/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/10/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/22/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 748 STATION NAME: 748 GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | 100 | | | | | | | | |
| 10/23/80 | | 40 | | | | | | | | |
| 06/17/81 | | -1 | -1 | | | | | | | |
| 07/30/81 | | 15 | | | | | | | | |
| 08/29/81 | | 26 | | | | | | | | |
| 10/07/81 | | 20 | | | | | | | | |
| 10/04/83 | | -50 | -10 | | | | | | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 10/25/84 | | -50 | -10 | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/24/85 | | -50 | -10 | | | | | | | |
| 06/11/86 | | -50 | -10 | | | | | | | |
| 10/10/86 | | -50 | 20 | | | | | | | |
| 09/22/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/02/88 | | -20 | | | | | | | | |
| 07/15/88 | | -20 | | | | | | | | |
| 09/05/88 | | -20 | | | | | | | | |
| 06/06/89 | | -20 | -10 | | | | | | | |
| 07/11/89 | | -20 | -10 | | | | | | | |
| 09/15/89 | | -20 | -10 | | | | | | | |
| 05/30/90 | | -20 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 10/03/90 | | -20 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 748 STATION NAME: 748 GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | 123 | 13 | | | | | | | |
| 10/23/80 | | 95 | 13 | | | | | | | |
| 06/17/81 | | 90 | -1 | | | | | | | |
| 07/30/81 | | 110 | 2 | | | | | | | |
| 08/29/81 | | 90 | 12 | | | | | | | |
| 10/07/81 | | 120 | 11 | | | | | | | |
| 10/04/83 | -20 | -50 | -10 | 22 | | 70 | | -40 | | |
| 06/21/84 | | 90 | -10 | | | | | | | |
| 10/25/84 | -20 | -50 | -10 | -5 | | 260 | | -40 | | |
| 06/13/85 | | 60 | -10 | | | | | | | |
| 09/24/85 | -20 | 80 | 50 | -5 | | 150 | | -40 | | |
| 06/11/86 | | -50 | 10 | | | | | | | |
| 10/10/86 | -20 | 250 | 130 | -5 | | 80 | | -40 | | |
| 09/22/87 | | -20 | -10 | -10 | | | | | | |
| 06/02/88 | | -20 | -10 | | | | | | | |
| 07/15/88 | | -20 | -10 | | | | | | | |
| 09/05/88 | | -20 | -10 | | | | | | | |
| 06/06/89 | | -20 | -10 | | | | | | | |
| 07/11/89 | | 90 | 10 | | | | | | | |
| 09/15/89 | | 20 | -10 | | | | | | | |
| 05/30/90 | | 60 | -10 | | | | | | | |
| 07/02/90 | | 70 | -10 | | | | | | | |
| 10/03/90 | | 50 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 748 STATION NAME: 748 GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | | | | | | | 0.140 | | |
| 10/23/80 | | | | | | | | 0.150 | | |
| 10/04/83 | | | | | | | | 0.060 | | 0.90 |
| 10/25/84 | | | 0.600 | | | | | 0.110 | | -0.05 |
| 09/24/85 | | | 1.200 | | | | | 0.040 | | 3.30 |
| 06/11/86 | | | | | | | | | | -0.50 |
| 10/10/86 | | | 0.060 | | | | | 0.090 | | -0.50 |
| 09/22/87 | | | 1.970 | | 1.970 | | | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 748 STATION NAME: 748 GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 09/24/85 | | | | | | | 1.45 | | | | |
| 10/10/86 | | | | | | | 0.07 | | | | |
| 09/22/87 | | | | -0.20 | | | | | | | |

NO.: 749 NAME: 749 WEST GENTRY SPRING TYPE: SPRING DATUM ELEV.: 9700.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/12/85 | : | | | | 0.0110 | CFS | |
| 06/13/85 | : | 28.0 | | | 0.0080 | CFS | |
| 09/25/85 | : | | | | 0.0001 | CFS | |
| 06/12/86 | 13:00 | 22.2 | | | 0.0020 | CFS | |
| 05/19/87 | 9:10 | 12.0 | | | 0.0380 | CFS | |
| 08/14/87 | 10:15 | 17.0 | | | 0.0020 | CFS | |
| 09/23/87 | 9:30 | 8.0 | | | 0.0010 | CFS | |
| 06/01/88 | 16:50 | | | | 0.0110 | CFS | |
| 07/16/88 | 17:30 | | | | 0.0010 | CFS | |
| 08/20/88 | 10:30 | | | | 0.0020 | CFS | |
| 09/10/88 | 11:30 | | | | 0.0010 | CFS | |
| 06/05/89 | 14:35 | | | | 0.0060 | CFS | |
| 07/11/89 | 13:45 | | | | 0.0030 | CFS | |
| 08/22/89 | 13:05 | | | | 0.0010 | CFS | |
| 09/14/89 | 13:15 | | | | 0.0010 | CFS | |
| 05/30/90 | 14:30 | | | | 0.0130 | CFS | |
| 07/07/90 | 9:15 | | | | 0.0050 | CFS | |
| 08/22/90 | 10:15 | | | | 0.0010 | CFS | |
| 09/24/90 | 9:50 | | | | 0.0020 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 749 STATION NAME: 749 WEST GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | | | 460.0 | | 7.65 | | 236.0 | | | | 250.0 | |
| 06/13/85 | 9.0 | | 410.0 | | 7.25 | | 252.0 | | | | 198.0 | |
| 09/25/85 | | | 472.0 | | 7.20 | | 208.0 | 5.0 | | | 249.0 | |
| 06/12/86 | 4.0 | | 495.0 | 7.9 | 7.20 | | 258.0 | | | | 248.0 | |
| 05/19/87 | 3.6 | 470.0 | | 7.9 | | -9.9 | | | | | | |
| 08/14/87 | 8.2 | 400.0 | 468.0 | 7.5 | 8.10 | | 280.0 | | | 286.0 | 268.0 | |
| 09/23/87 | 5.5 | 420.0 | 435.0 | 7.5 | | | 248.0 | | | 288.0 | 251.0 | |
| 06/01/88 | 4.0 | 288.0 | | 7.7 | | | | | | | 237.0 | |
| 07/16/88 | 5.8 | 302.0 | | 7.0 | | | 280.0 | | | 259.0 | 254.0 | |
| 08/20/88 | 7.0 | 318.0 | | 7.6 | | | | | | | | |
| 09/10/88 | 10.5 | 345.0 | | 8.1 | | | 278.0 | | | 254.0 | 263.0 | |
| 06/05/89 | 4.0 | 450.0 | | 7.5 | | | | | | | | |
| 07/11/89 | 6.0 | 500.0 | | 7.5 | | | | | | | | |
| 08/22/89 | 9.0 | 500.0 | | 7.2 | | | | | | | | |
| 09/14/89 | 7.0 | 460.0 | | 7.8 | | | | | | | | |
| 05/30/90 | 4.0 | 440.0 | | 7.5 | | | | | | | | |
| 07/07/90 | 6.0 | 510.0 | | 7.5 | | | | | | | | |
| 08/22/90 | 5.0 | 450.0 | | 7.7 | | | | | | | | |
| 09/24/90 | 6.0 | 420.0 | | 8.3 | | | | | | | | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 749 STATION NAME: 749 WEST GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | 92.0 | 18.0 | 4.0 | 0.9 | 305.0 | | | 3.0 | 6 | | 0.10 |
| 06/13/85 | 68.0 | 10.0 | 2.0 | 0.4 | 242.0 | | | 3.0 | 4 | | 0.06 |
| 09/25/85 | 74.0 | 18.0 | 3.0 | 1.0 | 303.0 | -1.0 | | 3.0 | 10 | | |
| 06/12/86 | 78.0 | 18.0 | 3.9 | 1.1 | 302.0 | | | 2.1 | 23 | | 0.10 |
| 08/14/87 | 80.0 | 21.0 | 3.0 | 1.0 | 327.0 | | | 3.0 | -2 | 0.2 | 0.08 |
| 09/23/87 | 84.0 | 19.0 | 5.0 | 1.0 | 306.0 | | | 2.0 | -2 | | 0.13 |
| 06/01/88 | 91.0 | 19.0 | 3.0 | 1.0 | 289.0 | | | 2.0 | 4 | 0.1 | 0.08 |
| 07/16/88 | 74.0 | 18.0 | 4.0 | 1.0 | 310.0 | | | 1.0 | 6 | 0.1 | 0.11 |
| 09/10/88 | 67.0 | 21.0 | 4.0 | 1.0 | 321.0 | | | 1.0 | 8 | 0.1 | 0.11 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 749 STATION NAME: 749 WEST GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 08/14/87 | -1.0 | 50 | -5.0 | | | | | | |
| 06/01/88 | -1.0 | 80 | -5.0 | -10.0 | | | -0.20 | -1.0 | |
| 07/16/88 | -1.0 | 60 | -5.0 | -10.0 | | | -0.10 | 1.0 | |
| 09/10/88 | -1.0 | 70 | -5.0 | -10.0 | | | -0.10 | 1.0 | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 749 STATION NAME: 749 WEST GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 09/25/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 08/14/87 | | | | -10.0 | | -20.0 | -0.20 | 1.0 | |
| 09/23/87 | | | | | | -20.0 | | | |
| 06/01/88 | | | | | | -20.0 | | | |
| 07/16/88 | | | | | | -20.0 | | | |
| 09/10/88 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 749 STATION NAME: 749 WEST GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | | -50 | -10 | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/25/85 | | -50 | -10 | | | | | | | |
| 06/12/86 | | -50 | -10 | | | | | | | |
| 08/14/87 | | -20 | -10 | | | -20 | | | | |
| 09/23/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/01/88 | 10 | -20 | | | 90 | 50 | -50 | -20 | | |
| 07/16/88 | -10 | 30 | | | -50 | -20 | -50 | -20 | | |
| 09/10/88 | -10 | -20 | | | -50 | -20 | -50 | -20 | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 749 STATION NAME: 749 WEST GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L . | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | | -50 | -10 | | | | | | | |
| 06/13/85 | | 130 | -10 | | | | | | | |
| 09/25/85 | -20 | -50 | -10 | -5 | | 60 | | -40 | | |
| 06/12/86 | | -50 | -10 | | | | | | | |
| 08/14/87 | -10 | -20 | -10 | 10 | -50 | | -50 | -20 | | |
| 09/23/87 | | -20 | -10 | -10 | | | | | | |
| 06/01/88 | | 200 | -10 | -10 | | | | | | |
| 07/16/88 | | 60 | -10 | -10 | | | | | | |
| 09/10/88 | | -20 | -10 | -10 | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 749 STATION NAME: 749 WEST GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/25/85 | | | 0.280 | | | | | 0.040 | | 0.80 |
| 06/12/86 | | | | | | | | | | -0.50 |
| 08/14/87 | -0.020 | | 0.650 | | 0.650 | | -0.010 | | | |
| 09/23/87 | | | 0.630 | | 0.630 | | | | | |
| 06/01/88 | -0.020 | -0.001 | 0.560 | | 0.560 | | 0.010 | | | |
| 07/16/88 | -0.020 | -0.001 | 0.600 | | 0.590 | | -0.010 | | | |
| 09/10/88 | -0.020 | -0.001 | 0.630 | | 0.640 | | -0.010 | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 749 STATION NAME: 749 WEST GENTRY SPRING TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 09/25/85 | | | | | | | 0.33 | | | | | |
| 08/14/87 | | | | -0.20 | | | | | | | | |
| 09/23/87 | | | | -0.20 | | | | | | | | |
| 06/01/88 | | | | 0.30 | | | | | | | | |
| 09/10/88 | | | | -0.01 | | | | | | | | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 751 STATION NAME: 751 GENTRY PASTURE SPRING TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | 52.0 | 13.4 | 1.6 | 0.5 | 217.2 | | | 2.0 | 6 | | 0.05 |
| 10/23/80 | 64.0 | 13.0 | 9.5 | 6.8 | 256.2 | | | 2.0 | 26 | | 0.28 |
| 11/10/80 | 59.2 | 15.8 | 1.3 | 0.4 | 253.8 | | | 0.1 | 6 | | 0.04 |
| 12/30/80 | 52.0 | 16.8 | 14.0 | 0.8 | 285.5 | | | 0.2 | 3 | | 0.43 |
| 06/17/81 | 56.8 | 14.4 | 2.5 | 0.5 | 231.8 | | | 2.2 | 11 | | 0.08 |
| 07/30/81 | 56.0 | 14.9 | 2.1 | 0.5 | 226.9 | | | 2.2 | 14 | | 0.06 |
| 08/29/81 | 56.8 | 15.5 | 2.1 | 1.0 | 222.0 | | | 6.0 | 20 | | 0.06 |
| 09/28/81 | 58.0 | 15.0 | 2.5 | 1.2 | 247.7 | | | 1.5 | 6 | | 0.08 |
| 10/07/81 | 59.0 | 15.0 | 6.2 | 0.8 | 254.7 | | | 2.0 | 15 | | 0.19 |
| 10/04/83 | 62.0 | 15.0 | 2.0 | 0.5 | 239.0 | -1.0 | | 2.0 | 1 | | 0.06 |
| 06/21/84 | 58.0 | 14.0 | 2.0 | 2.0 | 222.0 | | | 2.0 | 4 | | 0.06 |
| 10/25/84 | 64.0 | 14.0 | 2.0 | 0.5 | 249.0 | -1.0 | | 7.0 | 6 | | 0.06 |
| 06/13/85 | 54.0 | 14.0 | 2.0 | 0.5 | 239.0 | | | 2.0 | 3 | | 0.06 |
| 09/24/85 | 68.0 | 16.0 | 2.0 | 0.5 | 257.0 | -1.0 | | 2.0 | 25 | | 0.06 |
| 06/11/86 | 59.0 | 12.0 | 1.8 | 0.6 | 222.0 | | | 1.6 | 14 | | 0.06 |
| 10/10/86 | 64.0 | 14.6 | 2.5 | 2.0 | 255.0 | -1.0 | | 3.1 | 15 | | 0.07 |
| 09/22/87 | 66.0 | 15.0 | 2.0 | 1.0 | 254.0 | | | 1.0 | -2 | | 0.06 |
| 06/02/88 | 66.0 | 14.0 | 2.0 | 1.0 | 244.0 | | | -1.0 | -2 | | 0.06 |
| 07/15/88 | 59.0 | 14.0 | 3.0 | -1.0 | 254.0 | | | 1.0 | 8 | | 0.09 |
| 09/05/88 | 66.0 | 16.0 | 1.0 | 1.0 | 265.0 | | | 1.0 | 8 | | 0.03 |
| 06/06/89 | 58.0 | 14.0 | 1.0 | 1.0 | 251.0 | | | 2.0 | 6 | | 0.03 |
| 07/11/89 | 71.0 | 18.0 | 2.0 | 1.0 | 244.0 | | | 1.0 | 2 | | 0.06 |
| 09/15/89 | 62.0 | 15.0 | 2.0 | -1.0 | 257.0 | | | -1.0 | -2 | | 0.06 |
| 05/30/90 | 69.0 | 14.0 | 2.0 | -1.0 | 262.0 | | | 1.0 | -2 | | 0.06 |
| 07/02/90 | 67.0 | 15.0 | 2.0 | -1.0 | 265.0 | | | 2.0 | 21 | | 0.06 |
| 10/03/90 | 74.0 | 13.0 | -1.0 | -1.0 | 268.0 | | | 2.0 | 7 | | -0.03 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 751 STATION NAME: 751 GENTRY PASTURE SPRING TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/04/83 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -0.3 | |
| 10/25/84 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/24/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/10/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/22/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 751 STATION NAME: 751 GENTRY PASTURE SPRING TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | 44 | | | | | | | | |
| 10/23/80 | | 85 | | | | | | | | |
| 11/10/80 | | 10 | | | | | | | | |
| 12/30/80 | | 48 | -1 | | | | | | | |
| 06/17/81 | | 10 | -1 | | | | | | | |
| 07/30/81 | | 30 | | | | | | | | |
| 08/29/81 | | 38 | | | | | | | | |
| 09/28/81 | | 27 | | | | | | | | |
| 10/07/81 | | 29 | | | | | | | | |
| 10/04/83 | | -50 | -10 | | | | | | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 10/25/84 | | -50 | -10 | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/24/85 | | -50 | -10 | | | | | | | |
| 06/11/86 | | -50 | -10 | | | | | | | |
| 10/10/86 | | -50 | 10 | | | | | | | |
| 09/22/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/02/88 | | -20 | | | | | | | | |
| 07/15/88 | | 20 | | | | | | | | |
| 09/05/88 | | -20 | | | | | | | | |
| 06/06/89 | | -20 | -10 | | | | | | | |
| 07/11/89 | | -20 | -10 | | | | | | | |
| 09/15/89 | | -20 | -10 | | | | | | | |
| 05/30/90 | | -20 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 10/03/90 | | 30 | 80 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 751 STATION NAME: 751 GENTRY PASTURE SPRING TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | 130 | 14 | | | | | | | |
| 10/23/80 | | 165 | 14 | | | | | | | |
| 11/10/80 | | 60 | 10 | | | | | | | |
| 12/30/80 | | 125 | 10 | | | | | | | |
| 06/17/81 | | 90 | 10 | | | | | | | |
| 07/30/81 | | 95 | 11 | | | | | | | |
| 08/29/81 | | 110 | 15 | | | | | | | |
| 09/28/81 | | 120 | 14 | | | | | | | |
| 10/07/81 | | 135 | 10 | | | | | | | |
| 10/04/83 | -20 | -50 | 20 | -5 | | 100 | | -40 | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 10/25/84 | -20 | -50 | -10 | -5 | | 480 | | -40 | | |
| 06/13/85 | | 50 | -10 | | | | | | | |
| 09/24/85 | -20 | -50 | -10 | -5 | | 120 | | -40 | | |
| 06/11/86 | | -50 | -10 | | | | | | | |
| 10/10/86 | -20 | 200 | 80 | -5 | | 60 | | -40 | | |
| 09/22/87 | | -20 | -10 | -10 | | | | | | |
| 06/02/88 | | -20 | -10 | | | | | | | |
| 07/15/88 | | -20 | -10 | | | | | | | |
| 09/05/88 | | -20 | -10 | | | | | | | |
| 06/06/89 | | -20 | -10 | | | | | | | |
| 07/11/89 | | 20 | -10 | | | | | | | |
| 09/15/89 | | 170 | 10 | | | | | | | |
| 05/30/90 | | 70 | 20 | | | | | | | |
| 07/02/90 | | 30 | -10 | | | | | | | |
| 10/03/90 | | 170 | 90 | | | | | | | |

PLATEAU MINING COMPANY

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS



NO.: 751 STATION NAME: 751 GENTRY PASTURE SPRING TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | | | | | | | 0.030 | | |
| 10/23/80 | | | | | | | | 0.080 | | |
| 11/10/80 | | | | | | | | 0.140 | | |
| 10/04/83 | | | 1.340 | | | | | 0.140 | | -0.05 |
| 10/25/84 | | | 0.350 | | | | | 0.110 | | -0.50 |
| 09/24/85 | | | 1.200 | | | | | 0.040 | | -0.50 |
| 06/11/86 | | | | | | | | | | -0.50 |
| 10/10/86 | | | -0.010 | | | | | 0.090 | | -0.50 |
| 09/22/87 | | | 1.850 | | 1.850 | | | | | |

NO.: 753 NAME: 753 TYPE: SPRING DATUM ELEV.: 10045.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 09/05/88 | 12:30 | | | | 0.0001 | CFS | NO FLOW |
| 06/05/89 | 15:07 | | | | 0.0010 | CFS | |
| 07/11/89 | 9:25 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/89 | 9:00 | | | | | | SEEP, WET AREA |
| 09/15/89 | 9:45 | | | | 0.0001 | CFS | NO FLOW |
| 05/30/90 | 8:55 | | | | 0.0010 | CFS | |
| 07/02/90 | 8:40 | | | | 0.0010 | CFS | |
| 08/30/90 | 10:00 | | | | 0.0001 | CFS | NO FLOW |
| 09/24/90 | 8:30 | | | | 0.0001 | CFS | NO FLOW |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 753 STATION NAME: 753 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 09/11/79 | 84.0 | 9.1 | 6.5 | 1.0 | 302.6 | | | 4.0 | 10 | | 0.18 |
| 09/30/80 | 67.2 | 18.7 | 1.9 | 0.9 | 236.9 | | | 2.3 | 46 | | 0.05 |
| 10/22/80 | 85.6 | 12.0 | 8.9 | 4.1 | 314.8 | | | 5.0 | 18 | | 0.24 |
| 11/10/80 | 85.6 | 5.3 | 11.5 | 1.5 | 327.0 | | | -0.1 | -3 | | 0.33 |
| 06/16/81 | 72.0 | 8.6 | 5.0 | 1.2 | 261.1 | | | 2.6 | 11 | | 0.15 |
| 08/29/81 | 76.0 | 10.1 | 12.0 | 1.5 | 273.3 | | | 6.0 | 25 | | 0.34 |
| 10/05/83 | 83.0 | 12.0 | 2.0 | 2.0 | 292.0 | -1.0 | | 3.0 | 4 | | 0.05 |
| 06/21/84 | 66.0 | 11.0 | 2.0 | 1.0 | 238.0 | | | 2.0 | 4 | | 0.06 |
| 09/21/84 | 76.0 | 11.0 | 2.0 | 1.7 | 302.0 | -1.0 | | 4.0 | 4 | | 0.06 |
| 06/13/85 | 70.0 | 9.0 | 2.0 | 0.6 | 233.0 | | | 2.0 | 9 | | 0.06 |
| 09/24/85 | 80.0 | 13.0 | 2.0 | 2.0 | 304.0 | -1.0 | | 3.0 | 5 | | |
| 06/11/86 | 67.0 | 9.0 | 2.0 | 1.3 | 234.0 | | | 1.6 | 15 | | 0.06 |
| 10/10/86 | 68.0 | 8.5 | 2.4 | 7.9 | 251.0 | -1.0 | | 8.4 | 10 | | 0.07 |
| 06/01/88 | 74.0 | 10.0 | 2.0 | 2.0 | 222.0 | | | 1.0 | -2 | | 0.06 |
| 07/15/88 | 85.0 | 12.0 | 3.0 | 1.0 | 312.0 | | | 1.0 | 12 | | 0.08 |
| 06/05/89 | 62.0 | 9.0 | 1.0 | 1.0 | 203.0 | | | 1.0 | -2 | | 0.03 |
| 05/30/90 | 71.0 | 9.0 | 2.0 | 2.0 | 246.0 | | | 2.0 | 2 | | 0.06 |
| 07/02/90 | 81.0 | 11.0 | 1.0 | 1.0 | 290.0 | | | 1.0 | 33 | | 0.03 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 753 STATION NAME: 753 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/05/83 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -0.3 | |
| 09/21/84 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -0.3 | |
| 09/24/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/10/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 753 STATION NAME: 753 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | 33 | | | | | | | | |
| 10/22/80 | | 88 | | | | | | | | |
| 11/10/80 | | 840 | | | | | | | | |
| 06/16/81 | | 10 | -1 | | | | | | | |
| 08/29/81 | | 50 | | | | | | | | |
| 10/05/83 | | 70 | -10 | | | | | | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 09/21/84 | | 50 | -10 | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/24/85 | | 170 | 100 | | | | | | | |
| 06/11/86 | | -50 | -10 | | | | | | | |
| 10/10/86 | | -50 | -10 | | | | | | | |
| 06/01/88 | | -20 | | | | | | | | |
| 07/15/88 | | 50 | | | | | | | | |
| 06/05/89 | | -20 | -10 | | | | | | | |
| 05/30/90 | | -20 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 753 STATION NAME: 753 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | 145 | 21 | | | | | | | |
| 10/22/80 | | 168 | 14 | | | | | | | |
| 11/10/80 | | 2300 | 13 | | | | | | | |
| 06/16/81 | | 90 | -1 | | | | | | | |
| 08/29/81 | | 185 | 20 | | | | | | | |
| 10/05/83 | -20 | 170 | 70 | 21 | | 130 | | -40 | | |
| 06/21/84 | | 100 | 10 | | | | | | | |
| 09/21/84 | -20 | 120 | -10 | 20 | | 100 | | -40 | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/24/85 | -20 | 1400 | 560 | -5 | | 120 | | -40 | | |
| 06/11/86 | | -50 | -10 | | | | | | | |
| 10/10/86 | -20 | 250 | 30 | -5 | | 70 | | -40 | | |
| 06/01/88 | | 190 | 20 | | | | | | | |
| 07/15/88 | | 90 | 200 | | | | | | | |
| 06/05/89 | | 160 | 20 | | | | | | | |
| 05/30/90 | | 90 | 10 | | | | | | | |
| 07/02/90 | | 50 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 753 STATION NAME: 753 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/30/80 | | | | | | | | 0.140 | | |
| 10/22/80 | | | | | | | | 0.210 | | |
| 11/10/80 | | | | | | | | 0.310 | | |
| 10/05/83 | | | 0.260 | | | | | 0.060 | | -0.50 |
| 09/21/84 | | | 0.270 | | | | | 0.050 | | -0.50 |
| 09/24/85 | | | 0.060 | | | | | 0.170 | | -0.50 |
| 06/11/86 | | | | | | | | | | -0.50 |
| 10/10/86 | | | 0.020 | | | | | 0.090 | | -0.50 |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 753 STATION NAME: 753 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 09/24/85 | | | | | | | 0.10 | | | | |
| 10/10/86 | | | | | | | -0.05 | | | | |

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: 971 NAME: 971 TYPE: SPRING DATUM ELEV.: 9855.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/05/89 | 12:25 | | | | 0.0001 | CFS | NO FLOW |
| 07/11/89 | 11:00 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/89 | 12:05 | | | | 0.0001 | CFS | NO FLOW |
| 09/15/89 | 7:10 | | | | 0.0001 | CFS | NO FLOW |
| 05/30/90 | 16:15 | | | | 0.0010 | CFS | |
| 07/07/90 | 8:00 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/90 | 10:50 | | | | 0.0001 | CFS | NO FLOW |
| 09/24/90 | 9:00 | | | | 0.0001 | CFS | NO FLOW |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 971 STATION NAME: 971 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05/30/90 | 4.0 | 170.0 | | 7.2 | | | 124.0 | | | 102.0 | 110.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 971 STATION NAME: 971 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM | MAGNESM | SODIUM | POTASS | BICARB HCO3 | CARBONT CO3 | HYDROX OH | CHLORIDE | SULFATE | FLUOR | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | |
| 05/30/90 | 36.0 | 3.0 | 2.0 | 1.0 | 134.0 | | | 1.0 | -2 | 0.1 | 0.09 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 971 STATION NAME: 971 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 05/30/90 | -1.0 | 90 | -10.0 | -10.0 | | | -0.10 | -1.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 971 STATION NAME: 971 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 05/30/90 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 971 STATION NAME: 971 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 05/30/90 | -10 | 60 | -10 | | 90 | 20 | -50 | -20 | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 971 STATION NAME: 971 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 05/30/90 | | 110 | -10 | 30 | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 971 STATION NAME: 971 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 05/30/90 | 0.200 | -0.001 | 1.170 | | 1.160 | | 0.017 | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 971 STATION NAME: 971 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 05/30/90 | | | | -0.01 | | | | | | | |

NO.: 978 NAME: HUMBLE POND SPRING - 978 TYPE: SPRING DATUM ELEV.: 9945.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/22/84 | 9:50 | | | | 0.0220 | CFS | |
| 10/10/86 | 11:45 | 9.0 | | | 0.0110 | CFS | |
| 05/19/87 | 14:10 | 9.0 | | | 0.1490 | CFS | |
| 07/20/87 | 8:30 | 9.0 | | | 0.3300 | CFS | |
| 08/12/87 | 12:30 | 20.0 | | | 0.0170 | CFS | |
| 09/22/87 | 10:35 | 17.0 | | | 0.0030 | CFS | |
| 06/01/88 | 13:00 | | | | 0.1340 | CFS | |
| 08/19/88 | 10:00 | | | | 0.0130 | CFS | |
| 09/05/88 | 11:30 | | | | 0.0080 | CFS | |
| 06/06/89 | 9:20 | | | | 0.0270 | CFS | |
| 07/11/89 | 9:34 | | | | 0.0130 | CFS | |
| 08/22/89 | 9:15 | | | | 0.0030 | CFS | |
| 09/15/89 | 9:30 | | | | 0.0020 | CFS | |
| 05/30/90 | 9:20 | | | | 0.0450 | CFS | |
| 07/02/90 | 9:00 | | | | 0.0200 | CFS | |
| 08/30/90 | 13:00 | | | | 0.0060 | CFS | |
| 10/03/90 | 11:35 | | | | 0.0030 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 978 STATION NAME: HUMBLE POND SPRING - 978 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/22/84 | | | 410.0 | | 7.00 | | 216.0 | -0.5 | | | 206.0 | |
| 10/10/86 | 5.0 | 670.0 | 438.0 | | 8.09 | | 236.0 | -0.5 | | | 218.0 | |
| 05/19/87 | 3.7 | 360.0 | 433.0 | 5.4 | 7.90 | 127.6 | 226.0 | | | | 206.0 | |
| 07/20/87 | 8.4 | 260.0 | 342.0 | 8.6 | 7.80 | | 182.0 | | | 160.0 | 164.0 | |
| 08/12/87 | 18.0 | 320.0 | 433.0 | 8.6 | 8.10 | | 242.0 | | | 206.0 | 205.0 | |
| 09/22/87 | 5.9 | 490.0 | 397.0 | 7.1 | | | 230.0 | | | 261.0 | 220.0 | |
| 06/01/88 | 4.0 | 248.0 | | 7.7 | | | | | | | 194.0 | |
| 08/19/88 | 7.0 | 260.0 | | 7.2 | | | | | | | | |
| 09/05/88 | 7.0 | 215.0 | | 7.6 | | | 244.0 | | | 259.0 | 240.0 | |
| 06/06/89 | 5.0 | 430.0 | | 7.4 | | | 228.0 | | | 222.0 | 216.0 | |
| 07/11/89 | 7.0 | 450.0 | | 7.4 | | | 262.0 | | | 259.0 | 216.0 | |
| 08/22/89 | 7.0 | 430.0 | | 7.2 | | | | | | | | |
| 09/15/89 | 7.0 | 480.0 | | 7.3 | | | 248.0 | | | 247.0 | 230.0 | |
| 05/30/90 | 5.0 | 430.0 | | 7.9 | | | 258.0 | | | 248.0 | 224.0 | |
| 07/02/90 | 6.0 | 460.0 | | 7.8 | | | 232.0 | | | 238.0 | 225.0 | |
| 08/30/90 | 6.0 | 480.0 | | 7.5 | | | | | | | | |
| 10/03/90 | 4.0 | 380.0 | | 7.1 | | | 250.0 | | | 268.0 | 233.0 | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 978 STATION NAME: HUMBLE POND SPRING - 978 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/22/84 | 67.0 | 12.0 | 3.0 | 1.0 | 251.0 | | | 2.0 | 7 | | 0.09 |
| 10/10/86 | 72.0 | 12.2 | 2.5 | 1.1 | 266.0 | -1.0 | | 2.5 | 15 | | 0.07 |
| 05/19/87 | 56.0 | 13.0 | 3.0 | -1.0 | 251.0 | | | -1.0 | 6 | 0.5 | 0.10 |
| 07/20/87 | 46.0 | 11.0 | 2.0 | -1.0 | 200.0 | | | -1.0 | 2 | 0.3 | 0.07 |
| 08/12/87 | 56.0 | 16.0 | 9.0 | 6.0 | 250.0 | | | 4.0 | 12 | 0.1 | 0.28 |
| 09/22/87 | 83.0 | 13.0 | 2.0 | 1.0 | 268.0 | | | 2.0 | 12 | | 0.05 |
| 06/01/88 | 84.0 | 12.0 | 2.0 | 1.0 | 237.0 | | | 1.0 | 6 | -0.1 | 0.05 |
| 09/05/88 | 79.0 | 15.0 | 2.0 | 1.0 | 293.0 | | | 2.0 | 12 | | 0.05 |
| 06/06/89 | 69.0 | 12.0 | 2.0 | 1.0 | 264.0 | | | 2.0 | 6 | | 0.06 |
| 07/11/89 | 79.0 | 15.0 | 3.0 | 1.0 | 261.0 | | | 1.0 | 8 | | 0.08 |
| 09/15/89 | 74.0 | 15.0 | 2.0 | -1.0 | 281.0 | | | 1.0 | 10 | | 0.06 |
| 05/30/90 | 78.0 | 13.0 | 2.0 | -1.0 | 273.0 | | | 2.0 | 6 | | 0.06 |
| 07/02/90 | 74.0 | 13.0 | 2.0 | 1.0 | 275.0 | | | 2.0 | 25 | | 0.06 |
| 10/03/90 | 86.0 | 13.0 | 3.0 | -1.0 | 284.0 | | | 1.0 | 16 | | 0.08 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 978 STATION NAME: HUMBLE POND SPRING - 978 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 05/19/87 | -1.0 | 50 | 7.0 | | | | | | |
| 07/20/87 | -1.0 | 30 | 6.0 | | | | | | |
| 08/12/87 | 1.0 | 70 | -5.0 | | | | | | |
| 06/01/88 | -1.0 | 70 | -5.0 | -10.0 | | | -0.20 | -1.0 | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 978 STATION NAME: HUMBLE POND SPRING - 978 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 05/19/87 | | | | -10.0 | | 40.0 | -0.20 | -1.0 | |
| 07/20/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 08/12/87 | | | | -10.0 | | -20.0 | -0.20 | -1.0 | |
| 09/22/87 | | | | | | -20.0 | | | |
| 06/01/88 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 978 STATION NAME: HUMBLE POND SPRING - 978 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/22/84 | | -50 | -10 | | | | | | | |
| 10/10/86 | | -50 | -10 | | | | | | | |
| 05/19/87 | | -20 | -10 | | | 30 | | | | |
| 07/20/87 | | 130 | 10 | | | 20 | | | | |
| 08/12/87 | | 460 | -10 | | | -20 | | | | |
| 09/22/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/01/88 | -10 | -20 | | | -50 | 50 | -50 | -20 | | |
| 09/05/88 | | 30 | | | | | | | | |
| 06/06/89 | | -20 | -10 | | | | | | | |
| 07/11/89 | | -20 | -10 | | | | | | | |
| 09/15/89 | | 50 | -10 | | | | | | | |
| 05/30/90 | | -20 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 10/03/90 | | -20 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 978 STATION NAME: HUMBLE POND SPRING - 978 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/22/84 | | -50 | -10 | | | | | | | |
| 10/10/86 | -20 | 110 | 30 | 15 | | 100 | | -40 | | |
| 05/19/87 | -10 | 50 | -10 | -10 | 70 | | -50 | -20 | | |
| 07/20/87 | 10 | 570 | 30 | -10 | 400 | | -50 | 20 | | |
| 08/12/87 | 10 | 6200 | 240 | 30 | 4310 | | -50 | -20 | | |
| 09/22/87 | | 80 | -10 | -10 | | | | | | |
| 06/01/88 | | -20 | -10 | -10 | | | | | | |
| 09/05/88 | | 730 | 20 | | | | | | | |
| 06/06/89 | | -20 | -10 | | | | | | | |
| 07/11/89 | | -20 | -10 | | | | | | | |
| 09/15/89 | | 840 | 20 | | | | | | | |
| 05/30/90 | | 70 | -10 | | | | | | | |
| 07/02/90 | | 60 | -10 | | | | | | | |
| 10/03/90 | | -20 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 978 STATION NAME: HUMBLE POND SPRING - 978 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/10/86 | | | -0.010 | | | | | 0.070 | | -0.50 |
| 05/19/87 | -0.020 | | 0.340 | | 0.330 | | -0.010 | | | |
| 07/20/87 | -0.020 | | 0.020 | | 0.020 | | -0.010 | | | |
| 08/12/87 | 0.940 | | 2.110 | | 2.120 | | 0.060 | | | |
| 09/22/87 | | | 0.520 | | 0.520 | | | | | |
| 06/01/88 | -0.020 | -0.001 | 0.490 | | 0.490 | | -0.010 | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 978 STATION NAME: HUMBLE POND SPRING - 978 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 10/10/86 | | | | | | | -0.05 | | | | |
| 07/20/87 | | | | -0.20 | | | | | | | |
| 08/12/87 | | | | 0.30 | | | | | | | |
| 09/22/87 | | | | -0.20 | | | | | | | |
| 06/01/88 | | | | -0.20 | | | | | | | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 85261 STATION NAME: 85-26-1 TYPE: SPRING DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | | | 463.0 | | 7.80 | | 263.0 | | | | 277.0 | |
| 09/24/85 | 6.0 | | 464.0 | | 7.45 | | 244.0 | 5.0 | | | 243.0 | |
| 09/30/86 | 6.0 | 425.0 | 472.0 | | 8.07 | | 235.0 | | | | 223.0 | |
| 05/22/87 | 4.8 | 420.0 | | 8.0 | | -15.5 | | | | | | |
| 07/16/87 | 5.0 | 400.0 | | 8.3 | | | | | | | | |
| 09/22/87 | 5.3 | | 407.0 | 7.2 | | | 232.0 | | | 286.0 | 222.0 | |
| 06/02/88 | 6.0 | 292.0 | | 7.3 | | | | | | | 255.0 | |
| 07/16/88 | 5.3 | 290.0 | | 7.1 | | | 272.0 | | | 261.0 | 248.0 | |
| 08/19/88 | 5.0 | 302.0 | | 7.5 | | | | | | | | |
| 09/10/88 | 6.5 | 300.0 | | 7.9 | | | 280.0 | | | 251.0 | 250.0 | |
| 06/05/89 | 5.0 | 330.0 | | 7.4 | | | | | | | | |
| 07/11/89 | 5.0 | 490.0 | | 7.4 | | | | | | | | |
| 08/22/89 | 6.0 | 510.0 | | 7.4 | | | | | | | | |
| 09/14/89 | 5.0 | 580.0 | | 7.5 | | | | | | | | |
| 05/30/90 | 7.0 | 430.0 | | 7.5 | | | | | | | | |
| 07/06/90 | 7.0 | 440.0 | | 7.5 | | | | | | | | |
| 08/22/90 | 5.0 | 430.0 | | 8.3 | | | | | | | | |
| 09/24/90 | 5.0 | 420.0 | | 8.3 | | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 85261 STATION NAME: 85-26-1 TYPE: SPRING DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | 70.0 | 26.0 | 3.0 | 0.6 | 338.0 | | | 4.0 | 7 | | 0.08 |
| 09/24/85 | 60.0 | 29.0 | 3.0 | 0.6 | 296.0 | -1.0 | | 3.0 | 27 | | |
| 09/30/86 | 52.0 | 25.5 | 2.6 | 1.2 | 272.0 | -1.0 | | 3.7 | 15 | | 0.07 |
| 09/22/87 | 70.0 | 27.0 | 3.0 | 1.0 | 271.0 | | | 4.0 | 4 | | 0.08 |
| 06/02/88 | 65.0 | 29.0 | 3.0 | 1.0 | 311.0 | | | 2.0 | 8 | 0.2 | 0.08 |
| 07/16/88 | 60.0 | 27.0 | 3.0 | -1.0 | 303.0 | | | 3.0 | 10 | 0.1 | 0.08 |
| 09/10/88 | 53.0 | 29.0 | 3.0 | 1.0 | 305.0 | | | 2.0 | 19 | 0.1 | 0.08 |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PRIMARY METALS



NO.: 85261 STATION NAME: 85-26-1 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/02/88 | -1.0 | 150 | -5.0 | -10.0 | | | -0.20 | -1.0 | |
| 07/16/88 | -1.0 | 130 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 09/10/88 | -1.0 | 140 | -5.0 | -10.0 | | | -0.10 | -1.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 85261 STATION NAME: 85-26-1 TYPE: SPRING DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 09/24/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/30/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/22/87 | | | | | | -20.0 | | | |
| 06/02/88 | | | | | | -20.0 | | | |
| 07/16/88 | | | | | | -20.0 | | | |
| 09/10/88 | | | | | | -20.0 | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 85261 STATION NAME: 85-26-1 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | | -50 | -10 | | | | | | | |
| 09/24/85 | | -50 | -10 | | | | | | | |
| 09/30/86 | | -50 | -10 | | | | | | | |
| 09/22/87 | | 40 | -10 | | -50 | | -50 | | | |
| 06/02/88 | -10 | -20 | | | -50 | -20 | -50 | -20 | | |
| 07/16/88 | -10 | -20 | | | -50 | -20 | -50 | -20 | | |
| 09/10/88 | -10 | -20 | | | -50 | -20 | -50 | -20 | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 85261 STATION NAME: 85-26-1 TYPE: SPRING DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/12/85 | | -50 | -10 | | | | | | | |
| 09/24/85 | -20 | -50 | 10 | -5 | | 180 | | -40 | | |
| 09/30/86 | -20 | 60 | -10 | -5 | | 60 | | -40 | | |
| 09/22/87 | | 870 | 20 | -10 | | | | | | |
| 06/02/88 | | -20 | -10 | 20 | | | | | | |
| 07/16/88 | | 20 | -10 | -10 | | | | | | |
| 09/10/88 | | 230 | 10 | -10 | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 85261 STATION NAME: 85-26-1 TYPE: SPRING DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/24/85 | | | 0.760 | | | | | 0.020 | | 1.20 |
| 09/30/86 | | | 0.020 | | | | | 0.110 | | -0.50 |
| 09/22/87 | | | 1.280 | | 1.280 | | | | | |
| 06/02/88 | -0.020 | -0.001 | 1.250 | | 1.250 | | 0.030 | | | |
| 07/16/88 | -0.020 | -0.001 | 1.300 | | 1.290 | | -0.010 | | | |
| 09/10/88 | 0.030 | -0.001 | 1.310 | | 1.320 | | -0.010 | | | |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 85261 STATION NAME: 85-26-1 TYPE: SPRING DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 09/24/85 | | | | | | | 1.08 | | | | | |
| 09/30/86 | | | | | | | -0.05 | | | | | |
| 09/22/87 | | | | -0.20 | | | | | | | | |
| 06/02/88 | | | | -0.20 | | | | | | | | |
| 07/16/88 | | | | 0.30 | | | | | | | | |
| 09/10/88 | | | | 0.04 | | | | | | | | |

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: 51MW NAME: 5-1 MUD WATER CREEK TYPE: STREAM DATUM ELEV.: 7210.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 12/29/80 | 17:04 | | | | | | |
| 01/06/81 | : | | | | | | |
| 02/04/81 | : | | | | | | |
| 03/25/81 | : | | | | | | |
| 04/28/81 | 9:15 | 12.0 | | | 0.2000 | CFS | |
| 05/27/81 | 15:20 | | | | | | IN-ACCESSIBLE |
| 06/16/81 | 13:10 | 19.0 | | | 0.0500 | CFS | |
| 07/17/81 | 11:15 | | | | | | |
| 08/22/81 | 13:00 | 26.0 | | | 0.0200 | CFS | |
| 10/08/81 | 9:20 | | | | | | IN-ACCESSIBLE |
| 11/24/81 | : | | | | | | IN-ACCESSIBLE RAIN ROAD WASHED OUT |
| 12/29/81 | : | | | | | | IN-ACCESSIBLE |
| 03/24/83 | : | | | | | | IN-ACCESSIBLE |
| 04/21/83 | 10:45 | 7.0 | | | 0.1100 | CFS | |
| 05/12/83 | : | | | | | | IN-ACCESSIBLE |
| 06/28/83 | 14:45 | 24.0 | | | 0.5900 | CFS | |
| 10/06/83 | 12:50 | 23.0 | | | 0.1160 | CFS | |
| 01/06/84 | 11:00 | | | | | | FROZEN - NO FLOW |
| 03/30/84 | 15:00 | | | | | | IN-ACCESSIBLE |
| 06/21/84 | 15:00 | 23.0 | | | 0.0130 | CFS | |
| 10/25/84 | 10:00 | 24.0 | | | 0.1200 | CFS | |
| 12/11/84 | : | | | | | | IN-ACCESSIBLE - SNOWED IN |
| 02/21/85 | 10:00 | | | | | | IN-ACCESSIBLE - SNOWED IN |
| 06/13/85 | : | 28.0 | | | 0.0890 | CFS | |
| 09/05/85 | 12:20 | 20.0 | | | 0.1560 | CFS | |
| 06/12/86 | 12:30 | 23.3 | | | 0.1890 | CFS | |
| 10/06/86 | 9:45 | 13.0 | | | 0.7930 | CFS | |
| 05/19/87 | 15:08 | 10.0 | | | 0.8910 | CFS | AFTER RAIN AND SNOW STORM |
| 07/16/87 | 9:22 | 24.0 | | | 0.0840 | CFS | |
| 08/12/87 | 10:35 | 26.0 | | | 0.0740 | CFS | |
| 09/22/87 | 13:00 | 21.0 | | | 0.0670 | CFS | |
| 06/03/88 | 14:30 | | | | 0.1380 | CFS | |
| 07/15/88 | 7:50 | | | | 0.0670 | CFS | |
| 08/13/88 | 17:30 | | | | 0.0090 | CFS | |
| 09/03/88 | 16:30 | | | | 0.0190 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

NO.: 51MW NAME: 5-1 MUD WATER CREEK TYPE: STREAM DATUM ELEV.: 7210.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/07/89 | 15:30 | | | | 0.0280 | CFS | |
| 07/11/89 | 11:10 | | | | 0.0190 | CFS | |
| 08/22/89 | 17:40 | | | | 0.0130 | CFS | |
| 09/15/89 | 8:30 | | | | 0.0330 | CFS | |
| 05/30/90 | 13:45 | | | | 0.0930 | CFS | |
| 07/06/90 | 16:35 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/90 | 8:00 | | | | 0.0001 | CFS | NO FLOW |
| 09/24/90 | 14:30 | | | | 0.0001 | CFS | NO FLOW |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 51MW STATION NAME: 5-1 MUD WATER CREEK TYPE: STREAM DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/81 | 4.0 | | 800.0 | | 8.50 | | 1020.0 | 319.0 | | | 296.0 | |
| 06/16/81 | 23.0 | | 1700.0 | | 8.50 | | 1195.0 | 99.0 | | | 226.0 | |
| 07/17/81 | | | 840.0 | | | | 550.0 | | | | 270.0 | |
| 08/22/81 | 14.0 | | | | | | 1300.0 | | | | 238.0 | |
| 04/21/83 | 6.0 | | 5700.0 | | 8.10 | | 4531.0 | 178.0 | | | 316.0 | |
| 06/28/83 | 19.0 | | 2250.0 | | 7.20 | | 1551.0 | 610.0 | | | 243.0 | |
| 10/06/83 | 15.5 | | 2550.0 | | 8.05 | | 1992.0 | 50.0 | | | 242.0 | |
| 06/21/84 | 16.0 | | 1300.0 | | 8.00 | | 924.0 | 150.0 | | | 245.0 | |
| 10/25/84 | 16.0 | | 1300.0 | | 7.60 | | 924.0 | 3.0 | | | 292.0 | |
| 06/13/85 | | | 930.0 | | 8.10 | | 599.0 | 14.0 | | | 221.0 | |
| 09/05/85 | | | 1400.0 | | 7.80 | | 1009.0 | 1234.0 | | | 210.0 | |
| 06/12/86 | 20.0 | | 2250.0 | 8.4 | 7.70 | | 1724.0 | 308.0 | | | 261.0 | |
| 10/06/86 | | 2018.0 | 2340.0 | | 8.00 | | 1566.0 | -0.5 | | | 227.0 | |
| 05/19/87 | 8.0 | 1100.0 | | 8.6 | | -50.0 | 1000.0 | 57710.0 | | | 128.0 | |
| 07/16/87 | 13.1 | 385.0 | | 9.0 | | | | | | | | |
| 08/12/87 | 14.0 | 320.0 | | 8.6 | | | | | | | | |
| 09/22/87 | 16.2 | 1980.0 | 2130.0 | 8.5 | | | 1786.0 | -2.0 | -0.2 | 1173.0 | 209.0 | |
| 06/03/88 | 27.0 | 1197.0 | | 8.3 | | | 1538.0 | 32.0 | -0.2 | 1115.0 | 202.0 | |
| 07/15/88 | 11.2 | 1480.0 | | 8.5 | | | | | | | | |
| 08/13/88 | 22.0 | 2100.0 | | 8.7 | | | | | | | | |
| 09/03/88 | 22.0 | 1950.0 | | 8.5 | | | 1652.0 | 18.0 | -0.1 | 1101.0 | 192.0 | |
| 06/07/89 | 10.0 | 1700.0 | | 8.4 | | | 1514.0 | -2.0 | -0.1 | 1071.0 | 176.0 | |
| 07/11/89 | 10.0 | 1950.0 | | 8.4 | | | | | | | | |
| 08/22/89 | 10.0 | 1830.0 | | 8.4 | | | | | | | | |
| 09/15/89 | 4.0 | 1850.0 | | 8.7 | | | 1490.0 | -2.0 | -0.2 | 1011.0 | 246.0 | |
| 05/30/90 | 9.0 | 1740.0 | | 7.7 | | | 1406.0 | 1340.0 | 4.6 | 907.0 | 228.0 | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 51MW STATION NAME: 5-1 MUD WATER CREEK TYPE: STREAM DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/81 | 126.4 | 90.2 | 84.0 | 6.1 | 361.1 | | | 28.0 | 520 | | 1.40 |
| 06/16/81 | 40.0 | 170.4 | 100.0 | 2.6 | 275.7 | | | 60.3 | 690 | | 1.54 |
| 07/17/81 | 80.0 | 64.8 | 15.1 | 4.8 | 290.4 | | | 22.4 | 220 | | 0.30 |
| 08/22/81 | 70.4 | 55.7 | 165.3 | 15.8 | 275.7 | | | 18.0 | 530 | | 3.57 |
| 04/21/83 | 430.0 | 230.0 | 590.0 | 19.4 | 316.0 | | | 80.3 | 2790 | | 5.71 |
| 06/28/83 | 148.0 | 167.0 | 83.0 | 9.0 | 296.0 | | | 54.0 | 900 | | 1.11 |
| 10/06/83 | 210.0 | 186.0 | 116.0 | 11.0 | 295.0 | -1.0 | | 74.0 | 1020 | | 1.41 |
| 06/21/84 | 113.0 | 109.0 | 18.0 | 7.0 | 299.0 | | | 20.0 | 510 | | 0.29 |
| 10/25/84 | 116.0 | 103.0 | 13.0 | 5.0 | 356.0 | -1.0 | | 12.0 | 400 | | 0.21 |
| 06/13/85 | 115.0 | 64.0 | 8.0 | 7.7 | 270.0 | | | 8.0 | 310 | | 0.15 |
| 09/05/85 | 122.0 | 102.0 | 31.0 | 9.0 | 256.0 | -1.0 | | 25.0 | 520 | | 0.50 |
| 06/12/86 | 192.0 | 167.0 | 104.0 | 10.8 | 318.0 | | | 77.0 | 1000 | | 1.32 |
| 10/06/86 | 176.0 | 166.6 | 97.1 | 18.1 | 277.0 | -1.0 | | 72.0 | 1000 | | 1.26 |
| 05/19/87 | 150.0 | 74.0 | 43.0 | 10.0 | 156.0 | | | 26.0 | 564 | | 0.29 |
| 09/22/87 | 174.0 | 180.0 | 118.0 | 10.0 | 255.0 | | | 74.0 | 1111 | | 1.48 |
| 06/03/88 | 169.0 | 169.0 | 89.0 | 10.0 | 246.0 | | | 61.0 | 949 | | 1.16 |
| 09/03/88 | 150.0 | 177.0 | 112.0 | 10.0 | 234.0 | | | 68.0 | 1006 | | 1.47 |
| 06/07/89 | 161.0 | 163.0 | 83.0 | 11.0 | 215.0 | | | 55.0 | 908 | | 1.10 |
| 09/15/89 | 147.0 | 157.0 | 79.0 | 8.0 | 300.0 | | | 48.0 | 809 | | 1.08 |
| 05/30/90 | 148.0 | 131.0 | 70.0 | 8.0 | 278.0 | | | 52.0 | 778 | | 1.01 |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 51MW STATION NAME: 5-1 MUD WATER CREEK TYPE: STREAM DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/06/83 | -1.0 | -100 | 920.0 | -50.0 | | 130.0 | -0.20 | -0.3 | |
| 10/25/84 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/05/85 | 1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/06/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.02 | -5.0 | |
| 09/22/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 51MW STATION NAME: 5-1 MUD WATER CREEK TYPE: STREAM DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/81 | | 40 | 60 | | | | | | | |
| 06/16/81 | | 20 | 20 | | | | | | | |
| 07/17/81 | | 50 | | | | | | | | |
| 08/22/81 | | 15500 | | | | | | | | |
| 04/21/83 | | 90 | | | | | | | | |
| 06/28/83 | | -50 | 10 | | | | | | | |
| 10/06/83 | | -50 | -10 | | | | | | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 10/25/84 | | 240 | 20 | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/05/85 | | -50 | -10 | | | | | | | |
| 06/12/86 | | 110 | 20 | | | | | | | |
| 10/06/86 | | -50 | -10 | | | | | | | |
| 05/19/87 | | 980 | 50 | | | | | | | |
| 09/22/87 | | -20 | 10 | | -50 | | -50 | | | |
| 06/03/88 | | 20 | | | | | | | | |
| 09/03/88 | | 40 | | | | | | | | |
| 06/07/89 | | -20 | -10 | | | | | | | |
| 09/15/89 | | -20 | 10 | | | | | | | |
| 05/30/90 | | 40 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 51MW STATION NAME: 5-1 MUD WATER CREEK TYPE: STREAM DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/28/81 | | 4830 | 170 | | | | | | | |
| 06/16/81 | | 2050 | 70 | | | | | | | |
| 07/17/81 | | 110 | 10 | | | | | | | |
| 08/22/81 | | 146500 | 659 | | | | | | | |
| 04/21/83 | | 90 | 10 | | | | | | | |
| 06/28/83 | | 2700 | 120 | | | | | | | |
| 10/06/83 | -20 | 630 | 40 | 25 | | 200 | | -40 | | |
| 06/21/84 | | 790 | 60 | | | | | | | |
| 10/25/84 | | 240 | -10 | -5 | | 340 | | -40 | | |
| 06/13/85 | | 150 | 20 | | | | | | | |
| 09/05/85 | -20 | 8410 | 360 | -5 | | 180 | | -40 | | |
| 06/12/86 | | 320 | 60 | | | | | | | |
| 10/06/86 | 20 | 530 | 70 | 20 | | 80 | | -40 | | |
| 05/19/87 | | 912000 | 12100 | | | | | | | |
| 09/22/87 | | 30 | 10 | -10 | | | | | | |
| 06/03/88 | | 250 | 20 | | | | | | | |
| 09/03/88 | | 210 | 10 | | | | | | | |
| 06/07/89 | | 90 | 10 | | | | | | | |
| 09/15/89 | | 70 | 20 | | | | | | | |
| 05/30/90 | | 29000 | 590 | | | | | | | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 51MW STATION NAME: 5-1 MUD WATER CREEK TYPE: STREAM DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/06/83 | | | 0.260 | | | | | 0.140 | | -0.50 |
| 10/25/84 | | | 0.050 | | | | | 0.120 | | 1.30 |
| 09/05/85 | | | 0.520 | | | | | 0.090 | | -0.50 |
| 06/12/86 | | | | | | | | | | 3.10 |
| 10/06/86 | | | 0.040 | | | | | 0.070 | | 1.70 |
| 05/19/87 | | | | | | | | | | -1.00 |
| 09/22/87 | | | 0.020 | | 0.020 | | | | | -1.00 |
| 06/03/88 | | | | | | | | | | -1.00 |
| 09/03/88 | | | | | | | | | | 1.00 |
| 06/07/89 | | | | | | | | | | -1.00 |
| 09/15/89 | | | | | | | | | | -1.00 |
| 05/30/90 | | | | | | | | | | 2.00 |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 51MW STATION NAME: 5-1 MUD WATER CREEK TYPE: STREAM DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 09/05/85 | | | | | | | 0.96 | | | | |
| 10/06/86 | | | | | | | 0.07 | | | | |
| 09/22/87 | | | | 0.30 | | | | | | | |

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: 361 NAME: 36-1 SOUTH FORK CORNER CANYON TYPE: STREAM DATUM ELEV.: 7835.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 08/27/80 | : | | | | | | |
| 10/02/80 | 10:03 | 12.0 | | | 0.1400 | CFS | |
| 10/24/80 | 8:50 | -3.0 | | | 0.0500 | CFS | |
| 11/10/80 | 13:41 | | | | 0.3000 | CFS | |
| 12/29/80 | 16:24 | | | | | | |
| 01/06/81 | : | | | | | | FROZEN |
| 02/04/81 | : | | | | | | FROZEN |
| 03/25/81 | : | | | | | | FROZEN |
| 04/28/81 | 8:56 | | | | | | INACCESSIBLE |
| 05/27/81 | 11:52 | 13.0 | | | 0.2000 | CFS | |
| 06/16/81 | 10:05 | 16.0 | | | 0.1000 | CFS | |
| 07/17/81 | 8:45 | | | | | | |
| 08/29/81 | 9:40 | | | | | | INACCESSIBLE - RAIN - ROAD WASHED OUT |
| 10/08/81 | 11:40 | | | | | | INACCESSIBLE - RAIN - MUD |
| 11/24/81 | : | | | | | | INACCESSIBLE |
| 12/29/81 | : | | | | | | INACCESSIBLE |
| 03/24/83 | : | | | | | | INACCESSIBLE - MUD & SNOW DRIFTS ON RD |
| 04/21/83 | : | | | | | | INACCESSIBLE - MUD & SNOW DRIFTS ON RD |
| 05/12/83 | : | | | | | | INACCESSIBLE - MUD & SNOW DRIFTS ON RD |
| 06/28/83 | 13:30 | 24.0 | | | 0.5000 | CFS | |
| 10/06/83 | 14:00 | 23.0 | | | 0.2700 | CFS | |
| 01/05/84 | 11:00 | | | | | | |
| 03/30/84 | 15:00 | | | | | | INACCESSIBLE - HIT MUDDY ROADS AT TOP |
| 06/20/84 | 14:30 | 23.0 | | | 3.0000 | CFS | |
| 10/25/84 | : | | | | | | |
| 12/11/84 | : | | | | | | IN-ACCESSIBLE - GATES LOCKED AND |
| 02/21/85 | : | | | | | | IN-ACCESSIBLE - GATES LOCKED AND |
| 06/13/85 | : | 28.0 | | | 0.1780 | CFS | |
| 09/05/85 | 11:00 | 18.0 | | | 0.8900 | CFS | |
| 06/12/86 | 12:45 | 23.3 | | | 1.4610 | CFS | |
| 10/06/86 | 11:00 | 19.0 | | | 0.2330 | CFS | |
| 05/19/87 | 14:40 | 12.0 | | | 0.4460 | CFS | |
| 07/16/87 | 10:00 | 12.2 | | | 0.0780 | CFS | |
| 08/12/87 | 11:00 | 25.0 | | | 0.0560 | CFS | |
| 09/22/87 | 13:15 | 21.0 | | | 0.0560 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

NO.: 361 NAME: 36-1 SOUTH FORK CORNER CANYON TYPE: STREAM DATUM ELEV.: 7835.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/01/88 | 14:00 | | | | 0.1500 | CFS | |
| 07/15/88 | 9:00 | | | | 0.0420 | CFS | |
| 08/13/88 | 18:30 | | | | 0.0270 | CFS | |
| 09/03/88 | 18:00 | | | | 0.0130 | CFS | |
| 06/06/89 | 11:00 | | | | 0.0270 | CFS | |
| 07/11/89 | 10:50 | | | | 0.0220 | CFS | |
| 09/15/89 | 8:15 | | | | 0.0150 | CFS | |
| 05/30/90 | 13:30 | | | | 0.0670 | CFS | |
| 07/06/90 | 16:15 | | | | 0.0090 | CFS | |
| 08/22/90 | 8:10 | | | | 0.0110 | CFS | |
| 09/24/90 | 14:15 | | | | 0.0210 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 361 STATION NAME: 36-1 SOUTH FORK CORNER CANYON TYPE: STREAM DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/27/80 | | | | | | | 550.0 | 2.0 | | | 300.0 | |
| 10/02/80 | 5.0 | | 680.0 | | 7.20 | | 445.0 | 15.0 | | | | |
| 10/24/80 | 0.0 | | 1030.0 | | 7.60 | | 680.0 | 115.0 | | | | |
| 11/10/80 | | | 750.0 | | 7.60 | | 490.0 | 90.0 | | | | |
| 05/27/81 | 11.0 | | 490.0 | | 8.00 | | 515.0 | 15.0 | | | 264.0 | |
| 06/16/81 | 15.0 | | 690.0 | | 8.30 | | 559.0 | 93.0 | | | 286.0 | |
| 07/17/81 | | | 2150.0 | | | | 1400.0 | | | | 262.0 | |
| 06/28/83 | 15.0 | | 1500.0 | | 7.50 | | 913.0 | 130.0 | | | 288.0 | |
| 10/06/83 | 8.9 | | 950.0 | | 8.25 | | 505.0 | 16.0 | | | 285.0 | |
| 06/20/84 | 13.0 | | 1200.0 | | 7.80 | | 742.0 | 15.0 | | | 268.0 | |
| 10/25/84 | | | 1100.0 | | 7.40 | | 735.0 | 7.0 | | | 273.0 | |
| 06/13/85 | 13.0 | | 950.0 | | 7.80 | | 585.0 | 12.0 | | | 266.0 | |
| 09/05/85 | 6.0 | | 925.0 | | 7.90 | | 598.0 | 13.0 | | | 288.0 | |
| 06/12/86 | 8.0 | | 890.0 | 8.5 | 7.80 | | 520.0 | 29.0 | | | 267.0 | |
| 10/06/86 | 0.5 | 925.0 | 810.0 | | 8.08 | | 519.0 | 2.0 | | | 292.0 | |
| 05/19/87 | 6.1 | 560.0 | | 9.1 | | 129.2 | 446.0 | 154.0 | | | 224.0 | |
| 07/16/87 | 9.6 | 390.0 | | 9.0 | | | | | | | | |
| 08/12/87 | 10.9 | 300.0 | | 8.5 | | | | | | | | |
| 09/22/87 | 7.6 | 1300.0 | 856.0 | 8.7 | | | 564.0 | 62.0 | -0.2 | 488.0 | 265.0 | |
| 06/01/88 | 3.0 | 382.0 | | 8.9 | | | 502.0 | 12.0 | -0.2 | 451.0 | 259.0 | |
| 07/15/88 | 9.2 | 630.0 | | 8.6 | | | | | | | | |
| 08/13/88 | 14.0 | 610.0 | | 8.9 | | | | | | | | |
| 09/03/88 | 12.8 | 1600.0 | | 8.2 | | | 508.0 | 22.0 | -0.4 | 452.0 | 246.0 | |
| 06/06/89 | 7.5 | 780.0 | | 8.5 | | | 486.0 | 38.0 | 0.2 | 429.0 | 250.0 | |
| 07/11/89 | 11.0 | 780.0 | | 8.6 | | | | | | | | |
| 09/15/89 | 2.0 | 820.0 | | 8.8 | | | 510.0 | 24.0 | -0.2 | 452.0 | 276.0 | |
| 05/30/90 | 8.0 | 680.0 | | 7.1 | | | 440.0 | 28.0 | -0.2 | 363.0 | 247.0 | |
| 07/06/90 | 16.0 | 730.0 | | 8.6 | | | | | | | | |
| 08/22/90 | 7.0 | 730.0 | | 8.7 | | | | | | | | |
| 09/24/90 | 10.0 | 640.0 | | 8.5 | | | 504.0 | 20.0 | | 418.0 | 280.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 361 STATION NAME: 36-1 SOUTH FORK CORNER CANYON TYPE: STREAM DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/27/80 | 82.4 | 73.9 | 38.1 | 26.1 | 366.0 | | | 8.0 | 34 | 0.3 | 0.73 |
| 10/02/80 | 67.2 | 56.2 | 12.9 | 3.7 | 329.4 | | | 8.8 | 136 | | 0.28 |
| 10/24/80 | 96.0 | 70.6 | 34.0 | 12.2 | 449.0 | | | 14.7 | 229 | | 0.64 |
| 11/10/80 | 80.8 | 55.2 | 14.3 | 3.2 | 341.6 | | | 8.6 | 160 | | 0.30 |
| 05/27/81 | 36.0 | 72.5 | 39.5 | 4.1 | 322.1 | | | 24.0 | 183 | | 0.87 |
| 06/16/81 | 18.4 | 84.0 | 50.0 | 3.4 | 348.9 | | | 20.5 | 193 | | 1.10 |
| 07/17/81 | 160.0 | 141.6 | 82.8 | 9.3 | 295.2 | | | 58.9 | 810 | | 1.15 |
| 06/28/83 | 108.0 | 108.0 | 20.0 | 6.0 | 351.0 | | | 33.0 | 410 | | 0.33 |
| 10/06/83 | 78.0 | 65.0 | 20.0 | 3.0 | 348.0 | -1.0 | | 20.0 | 180 | | 0.41 |
| 06/20/84 | 101.0 | 90.0 | 30.0 | 5.0 | 327.0 | | | 30.0 | 325 | | 0.52 |
| 10/25/84 | 104.0 | 81.0 | 12.0 | 3.0 | 333.0 | -1.0 | | 12.0 | 290 | | 0.21 |
| 06/13/85 | 100.0 | 67.0 | 18.0 | 3.6 | 324.0 | | | 23.0 | 210 | | 0.34 |
| 09/05/85 | 82.0 | 69.0 | 15.0 | 3.0 | 351.0 | -1.0 | | 24.0 | 235 | | |
| 06/12/86 | 90.0 | 57.0 | 16.0 | 3.8 | 325.0 | | | 17.8 | 190 | | 0.32 |
| 10/06/86 | 80.0 | 63.2 | 15.0 | 4.9 | 356.0 | -1.0 | | 21.4 | 160 | | 0.30 |
| 05/19/87 | 71.0 | 47.0 | 10.0 | 3.0 | 273.0 | | | 12.0 | 113 | | 0.23 |
| 09/22/87 | 87.0 | 66.0 | 26.0 | 4.0 | 323.0 | | | 23.0 | 198 | | 0.51 |
| 06/01/88 | 82.0 | 60.0 | 15.0 | 3.0 | 316.0 | | | 15.0 | 156 | | 0.31 |
| 09/03/88 | 74.0 | 65.0 | 17.0 | 4.0 | 300.0 | | | 24.0 | 185 | | 0.35 |
| 06/06/89 | 73.0 | 60.0 | 13.0 | 3.0 | 305.0 | | | 19.0 | 158 | | 0.27 |
| 09/15/89 | 76.0 | 64.0 | 14.0 | 3.0 | 322.0 | 7.0 | | 16.0 | 154 | | 0.29 |
| 05/30/90 | 73.0 | 44.0 | 12.0 | 3.0 | 275.0 | 13.0 | | 14.0 | 113 | | 0.27 |
| 09/24/90 | 82.0 | 52.0 | 12.0 | 3.0 | 329.0 | 6.0 | | 18.0 | 132 | | 0.26 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 361 STATION NAME: 36-1 SOUTH FORK CORNER CANYON TYPE: STREAM DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 08/27/80 | -1.0 | 44 | -1.0 | -1.0 | | 8.0 | -0.20 | -1.0 | 3.00 |
| 10/06/83 | -1.0 | -100 | 77.0 | -50.0 | | -50.0 | -0.20 | -0.3 | |
| 10/25/84 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/05/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/06/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/22/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 361 STATION NAME: 36-1 SOUTH FORK CORNER CANYON TYPE: STREAM DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/27/80 | | 23 | | | | | | | | |
| 10/02/80 | | 59 | | | | | | | | |
| 10/24/80 | | 37 | | | | | | | | |
| 11/10/80 | | 20 | | | | | | | | |
| 05/27/81 | | -1 | -1 | | | | | | | |
| 06/16/81 | | 10 | 40 | | | | | | | |
| 07/17/81 | | 210 | | | | | | | | |
| 06/28/83 | | -50 | -10 | | | | | | | |
| 06/20/84 | | -50 | -10 | | | | | | | |
| 10/25/84 | | -50 | | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/05/85 | | -50 | -10 | | | | | | | |
| 06/12/86 | | -50 | -10 | | | | | | | |
| 10/06/86 | | -50 | -10 | | | | | | | |
| 05/19/87 | | 40 | -10 | | | | | | | |
| 09/22/87 | | 20 | -10 | | -50 | | -50 | | | |
| 06/01/88 | | 20 | | | | | | | | |
| 09/03/88 | | 110 | | | | | | | | |
| 06/06/89 | | -20 | -10 | | | | | | | |
| 09/15/89 | | -20 | -10 | | | | | | | |
| 05/30/90 | | 20 | -10 | | | | | | | |
| 09/24/90 | | 30 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 361 STATION NAME: 36-1 SOUTH FORK CORNER CANYON TYPE: STREAM DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/27/80 | 2 | 75 | 12 | 24 | | 2 | | | | |
| 10/02/80 | | 130 | 16 | | | | | | | |
| 10/24/80 | | 164 | 20 | | | | | | | |
| 11/10/80 | | 1030 | 25 | | | | | | | |
| 05/27/81 | | 170 | 20 | | | | | | | |
| 06/16/81 | | 280 | 60 | | | | | | | |
| 07/17/81 | | 300 | 90 | | | | | | | |
| 06/28/83 | | 420 | 30 | | | | | | | |
| 10/06/83 | -20 | 120 | -10 | 23 | | 130 | | -40 | | |
| 06/20/84 | | 200 | 20 | | | | | | | |
| 10/25/84 | -20 | 150 | -10 | -5 | | 310 | | 40 | | |
| 06/13/85 | | 150 | 20 | | | | | | | |
| 09/05/85 | -20 | 280 | 20 | -5 | | 120 | | -40 | | |
| 06/12/86 | | 70 | 10 | | | | | | | |
| 10/06/86 | -20 | -50 | -10 | -5 | | 80 | | -40 | | |
| 05/19/87 | | 2160 | 50 | | | | | | | |
| 09/22/87 | | 380 | 10 | -10 | | | | | | |
| 06/01/88 | | 1360 | 30 | | | | | | | |
| 09/03/88 | | 360 | 10 | | | | | | | |
| 06/06/89 | | 310 | 10 | | | | | | | |
| 09/15/89 | | 430 | 10 | | | | | | | |
| 05/30/90 | | 210 | -10 | | | | | | | |
| 09/24/90 | | 280 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 361 STATION NAME: 36-1 SOUTH FORK CORNER CANYON TYPE: STREAM DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/27/80 | | | 0.140 | | | -0.010 | | | | -0.01 |
| 10/02/80 | | | | | | | | 0.070 | | |
| 10/24/80 | | | | | | | | 0.200 | | |
| 11/10/80 | | | | | | | | 0.220 | | |
| 10/06/83 | | | 0.530 | | | | | 0.030 | | -0.50 |
| 10/25/84 | | | 1.010 | | | | | 0.100 | | -0.50 |
| 09/05/85 | | | 0.250 | | | | | 0.100 | | -0.05 |
| 06/12/86 | | | | | | | | | | 7.40 |
| 10/06/86 | | | 0.040 | | | | | 0.140 | | 0.80 |
| 05/19/87 | | | | | | | | | | -1.00 |
| 09/22/87 | | | 0.050 | | 0.050 | | | | | -1.00 |
| 06/01/88 | | | | | | | | | | -1.00 |
| 09/03/88 | | | | | | | | | | 1.00 |
| 06/06/89 | | | | | | | | | | -1.00 |
| 09/15/89 | | | | | | | | | | -1.00 |
| 05/30/90 | | | | | | | | | | 1.00 |
| 09/24/90 | | | | | | | | | | 1.00 |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 361 STATION NAME: 36-1 SOUTH FORK CORNER CANYON TYPE: STREAM DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 09/05/85 | | | | | | | 0.30 | | | | | |
| 10/06/86 | | | | | | | 0.06 | | | | | |
| 09/22/87 | | | | 0.50 | | | | | | | | |

# ANNUAL HYDROLOGIC REPORT
# 1990

## STAR POINT MINES

Permit ACT/007/006
Volume IV

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: 101 NAME: 10-1 SAGE BRUSH CANYON TYPE: STREAM DATUM ELEV.: 7280.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 10/01/80 | 15:50 | 20.0 | | | 0.0100 | CFS | |
| 10/24/80 | 14:30 | 4.0 | | | 0.0040 | CFS | |
| 11/10/80 | : | | | | | | |
| 12/30/80 | : | | | | | | |
| 01/06/81 | : | | | | | | |
| 02/04/81 | : | | | | | | |
| 03/25/81 | 12:40 | 10.0 | | | 0.3000 | CFS | |
| 04/28/81 | 10:20 | | | | | | |
| 05/21/81 | 7:35 | | | | | | |
| 06/17/81 | 16:16 | | | | | | |
| 07/31/81 | : | | | | | | |
| 10/07/81 | 16:30 | | | | | | |
| 11/24/81 | : | | | | | | IN-ACCESSIBLE |
| 12/29/81 | : | | | | | | IN-ACCESSIBLE |
| 01/14/82 | : | | | | | | FROZEN - NO FLOW |
| 06/22/82 | 11:32 | 25.0 | | | 0.0080 | CFS | |
| 03/24/83 | : | | | | | | FROZEN - NO FLOW |
| 03/30/83 | 11:35 | 11.0 | | | 0.0004 | CFS | |
| 05/12/83 | 15:50 | 18.0 | | | 0.0780 | CFS | |
| 10/07/83 | 11:50 | 23.0 | | | 0.0450 | CFS | |
| 01/06/84 | 16:30 | 3.0 | | | | | FROZEN - NO FLOW |
| 03/30/84 | 12:20 | | | | 0.0030 | CFS | |
| 06/29/84 | 12:45 | 30.0 | | | 0.1340 | CFS | |
| 09/21/84 | 9:15 | | | | 0.0450 | CFS | |
| 12/11/84 | 13:30 | | | | 0.0020 | CFS | |
| 01/11/85 | 13:16 | | | | 0.0020 | CFS | |
| 02/21/85 | 14:00 | | | | | | FROZEN - NO FLOW |
| 03/31/85 | 8:00 | | | | 0.0700 | CFS | |
| 06/27/85 | : | | | | 0.0070 | CFS | |
| 09/27/85 | : | 13.0 | | | 0.0170 | CFS | |
| 03/11/86 | 13:00 | 5.0 | | | 0.1110 | CFS | |
| 09/24/86 | : | 8.9 | | | 0.1440 | CFS | |
| 03/18/87 | : | 6.0 | | | 0.0330 | CFS | |
| 05/26/87 | 8:15 | 17.0 | | | 0.1100 | CFS | |
| 09/24/87 | 7:45 | 6.0 | | | 0.0100 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

NO.: 101 NAME: 10-1 SAGE BRUSH CANYON TYPE: STREAM DATUM ELEV.: 7280.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/15/88 | 7:30 | | | | 0.0090 | CFS | |
| 07/16/88 | 12:00 | | | | 0.0130 | CFS | |
| 08/20/88 | 8:30 | | | | 0.0450 | CFS | |
| 09/30/88 | 10:30 | | | | 0.0270 | CFS | |
| 06/05/89 | 7:00 | | | | 0.0001 | CFS | NO FLOW |
| 07/11/89 | 14:45 | | | | 0.0001 | CFS | NO FLOW |
| 08/22/89 | 18:30 | | | | 0.0001 | CFS | NO FLOW |
| 09/15/89 | 7:00 | | | | 0.0001 | CFS | NO FLOW |
| 05/30/90 | 14:00 | | | | 0.0001 | CFS | NO FLOW |
| 07/06/90 | 7:00 | | | | 0.0001 | CFS | NO FLOW |
| 08/30/90 | 7:00 | | | | 0.0001 | CFS | NO FLOW |
| 09/24/90 | 7:00 | | | | 0.0001 | CFS | NO FLOW |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 101 STATION NAME: 10-1 SAGE BRUSH CANYON TYPE: STREAM DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/01/80 | 18.0 | | 3900.0 | | 7.30 | | 2600.0 | 33.0 | | | | |
| 10/24/80 | 3.0 | | 1500.0 | | 7.80 | | 985.0 | 566.0 | | | | |
| 03/25/81 | 2.0 | | 970.0 | | 7.60 | | 689.0 | 404.0 | | | 124.0 | |
| 06/22/82 | 22.0 | | 5100.0 | | 7.90 | | 3340.0 | 354.0 | | | 295.3 | |
| 03/30/83 | 3.0 | | | | | | | | | | | |
| 05/12/83 | 3.0 | | 2700.0 | | 8.11 | | 2083.0 | 108.0 | | | 374.0 | |
| 10/07/83 | 13.0 | | 3000.0 | | 7.95 | | 2268.0 | 101.0 | | | 302.0 | |
| 03/30/84 | | | 3800.0 | | 8.00 | | 3152.0 | 37.0 | | | 370.0 | |
| 06/29/84 | | | 2100.0 | | 7.25 | | 1670.0 | 122.0 | | | 243.0 | |
| 09/21/84 | | | 2300.0 | | 7.10 | | 1783.0 | 342.0 | | | 238.0 | |
| 12/11/84 | | | 2770.0 | | 7.40 | | 2146.0 | 25.0 | | | 245.0 | |
| 01/11/85 | | | 3528.0 | | 7.75 | | 2560.0 | | | | | |
| 03/31/85 | | | 1660.0 | | 8.00 | | 1183.0 | 2682.0 | | | 193.0 | |
| 06/27/85 | | | 3750.0 | | 7.85 | | 3168.0 | 8.0 | | | 291.0 | |
| 09/27/85 | 8.0 | | 3481.0 | | 7.45 | | 2962.0 | 10.0 | | | 293.0 | |
| 03/11/86 | 3.0 | 900.0 | 1550.0 | 8.5 | 7.70 | | 1047.0 | 46.0 | | | 237.0 | |
| 09/24/86 | 10.0 | 910.0 | 1000.0 | | 7.30 | | 694.0 | 3318.0 | | | 99.0 | |
| 03/18/87 | | | 2600.0 | | 7.86 | | 1894.0 | 11.0 | | | 247.0 | |
| 05/26/87 | 6.6 | 1800.0 | | 9.0 | | -75.5 | 1554.0 | 50.0 | | | 230.0 | |
| 09/24/87 | 6.1 | 3180.0 | 3290.0 | 8.7 | | | 2844.0 | 6.0 | -0.2 | 1974.0 | 302.0 | |
| 06/15/88 | 10.2 | 2270.0 | | 8.7 | | | 3046.0 | -2.0 | -0.1 | 1982.0 | 290.0 | |
| 07/16/88 | 21.8 | 2950.0 | | 8.6 | | | | | | | | |
| 08/20/88 | 11.4 | 2150.0 | | 8.8 | | | | | | | | |
| 09/30/88 | 7.5 | 2115.0 | | 9.2 | | | 3006.0 | 4.0 | -0.2 | 2029.0 | 272.0 | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 101 STATION NAME: 10-1 SAGE BRUSH CANYON TYPE: STREAM DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/07/83 | -1.0 | -100 | 24.0 | -50.0 | | -50.0 | -0.20 | -0.3 | |
| 09/21/84 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/27/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/24/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/24/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 101 STATION NAME: 10-1 SAGE BRUSH CANYON TYPE: STREAM DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/01/80 | | 65 | | | | | | | | |
| 10/24/80 | | 45 | | | | | | | | |
| 03/25/81 | | 210 | | | | | | | | |
| 06/22/82 | | 2320 | | | | | | | | |
| 05/12/83 | | 60 | | | | | | | | |
| 10/07/83 | | 60 | -10 | | | | | | | |
| 03/30/84 | | -50 | 20 | | | | | | | |
| 06/29/84 | | -50 | -10 | | | | | | | |
| 09/21/84 | | -50 | -10 | | | | | | | |
| 12/11/84 | | -50 | | | | | | | | |
| 03/31/85 | | -50 | -10 | | | | | | | |
| 09/27/85 | | -50 | -10 | | | | | | | |
| 03/11/86 | | -50 | -10 | | | | | | | |
| 09/24/86 | | -50 | 10 | | | | | | | |
| 03/18/87 | | -50 | -10 | | | | | | | |
| 05/26/87 | | 20 | -10 | | | | | | | |
| 09/24/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/15/88 | | -20 | | | | | | | | |
| 09/30/88 | | -20 | | | | | | | | |

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: 341 NAME: 34-1 WILD CATTLE HOLLOW CREEK TYPE: STREAM DATUM ELEV.: 7980.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 10/03/80 | 11:41 | 11.0 | | | 0.3400 | CFS | |
| 10/24/80 | 15:50 | 4.0 | | | 0.2600 | CFS | |
| 11/10/80 | : | | | | 1.0000 | CFS | |
| 12/30/80 | 14:56 | 8.0 | | | 0.2600 | CFS | |
| 01/26/81 | 15:52 | 0.0 | | | 0.2600 | CFS | |
| 02/04/81 | : | | | | | | IN-ACCESSIBLE |
| 03/24/81 | : | | | | | | IN-ACCESSIBLE |
| 04/28/81 | 14:05 | 21.0 | | | 0.6000 | CFS | |
| 05/28/81 | 11:10 | 15.0 | | | 0.7000 | CFS | |
| 06/27/81 | 18:07 | | | | | | |
| 07/31/81 | 18:07 | | | | | | |
| 11/24/81 | : | | | | | | IN-ACCESSIBLE |
| 12/29/82 | : | | | | | | IN-ACCESSIBLE |
| 03/24/83 | : | | | | | | IN-ACCESSIBLE - SNOW DRIFTS |
| 04/21/83 | : | | | | | | IN-ACCESSIBLE - SNOW DRIFTS |
| 05/12/83 | : | | | | | | IN-ACCESSIBLE - SNOW DRIFTS |
| 06/29/83 | 14:30 | 24.0 | | | 2.8000 | CFS | |
| 09/07/83 | 10:15 | 17.8 | | | 0.3500 | CFS | |
| 01/05/84 | 13:10 | 4.0 | | | 0.3500 | CFS | |
| 03/30/84 | 8:00 | | | | | | IN-ACCESSIBLE |
| 06/21/84 | 13:15 | 21.0 | | | 0.2000 | CFS | |
| 09/21/84 | 10:35 | 18.2 | | | 0.5000 | CFS | |
| 12/31/84 | 9:30 | | | | | | SNOW - IN-ACCESSIBLE (FROZEN UP ROAD) |
| 02/21/85 | 10:00 | | | | | | IN-ACCESSIBLE |
| 03/31/85 | 11:30 | 21.0 | | | 1.8000 | CFS | |
| 06/13/85 | : | 25.0 | | | 5.4000 | CFS | |
| 08/15/85 | 16:30 | | | | 0.6600 | CFS | |
| 06/12/86 | 9:40 | 17.8 | | | 3.5000 | CFS | |
| 10/03/86 | 12:00 | 6.0 | | | 0.5200 | CFS | |
| 06/25/87 | 14:10 | 26.0 | | | 0.8600 | CFS | |
| 07/16/87 | 15:10 | 16.1 | | | 0.7800 | CFS | |
| 08/12/87 | 15:30 | 27.0 | | | 0.3500 | CFS | |
| 09/23/87 | 11:00 | 20.0 | | | 0.2400 | CFS | |
| 06/02/88 | 5:30 | | | | 1.3200 | CFS | |
| 07/09/88 | 15:15 | | | | 0.3800 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

NO.: 341 NAME: 34-1 WILD CATTLE HOLLOW CREEK TYPE: STREAM DATUM ELEV.: 7980.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 08/20/88 | 15:30 | | | | 0.3440 | CFS | |
| 09/03/88 | 14:30 | | | | 0.2000 | CFS | |
| 06/07/89 | 11:30 | | | | 0.2000 | CFS | |
| 07/11/89 | 10:15 | | | | 0.1760 | CFS | |
| 08/23/89 | 8:35 | | | | 0.0990 | CFS | |
| 09/14/89 | 8:50 | | | | 0.1440 | CFS | |
| 06/02/90 | 12:00 | | | | 0.4760 | CFS | |
| 07/06/90 | 13:00 | | | | 0.1540 | CFS | |
| 08/22/90 | 9:20 | | | | 0.1480 | CFS | |
| 09/24/90 | 11:30 | | | | 0.1520 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 341 STATION NAME: 34-1 WILD CATTLE HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/03/80 | 6.0 | | 400.0 | | 7.10 | | 259.0 | 7.0 | | | | |
| 10/24/80 | 4.0 | | 440.0 | | 7.60 | | 285.0 | 7.0 | | | | |
| 11/10/80 | | | 410.0 | | 7.40 | | 273.0 | 2.0 | | | | |
| 12/30/80 | 3.0 | | 280.0 | | 7.60 | | 290.0 | | | | 300.0 | |
| 01/26/81 | 1.0 | | 265.0 | | 7.80 | | 314.0 | 1.0 | | | 304.0 | |
| 04/28/81 | 11.0 | | 305.0 | | 8.50 | | 239.0 | 14.0 | | | 210.0 | |
| 05/28/81 | 7.0 | | 380.0 | | 8.10 | | 255.0 | 18.0 | | | 208.0 | |
| 06/27/81 | | | 980.0 | | 8.10 | | 540.0 | 1.5 | | | 152.3 | |
| 07/31/81 | | | 510.0 | | | | 269.0 | -0.1 | | | 238.0 | |
| 06/29/83 | 13.0 | | 500.0 | | 8.30 | | 229.0 | 15.0 | | | 212.0 | |
| 09/07/83 | 10.0 | | 500.0 | | 8.20 | | 216.0 | 8.0 | | | 248.0 | |
| 01/05/84 | 3.0 | | 500.0 | | 8.20 | | 301.0 | 3.0 | | | 260.0 | |
| 06/21/84 | 11.0 | 520.0 | 430.0 | 8.5 | 7.90 | | 219.0 | 22.0 | | | 206.0 | |
| 09/21/84 | 11.0 | | 500.0 | | 8.10 | | 220.0 | 9.0 | | | 250.0 | |
| 03/31/85 | 4.0 | | 422.0 | | 8.15 | | 252.0 | 88.0 | | | 218.0 | |
| 06/13/85 | 8.0 | | 390.0 | | 8.00 | | 229.0 | 8.0 | | | 195.0 | |
| 08/15/85 | 13.0 | | 393.0 | | 7.70 | | 255.0 | 2.0 | | | 214.0 | |
| 06/12/86 | 5.0 | | 440.0 | 8.4 | 7.80 | | 206.0 | 31.0 | | | 220.0 | |
| 10/03/86 | 3.0 | 390.0 | 480.0 | | 8.20 | | 251.0 | 1.0 | | | 222.0 | |
| 06/25/87 | 12.1 | 340.0 | | 8.9 | | -68.5 | 202.0 | 4.0 | | 243.0 | 192.0 | |
| 07/16/87 | 9.8 | 350.0 | | 8.0 | | | | | | | | |
| 08/12/87 | 11.1 | 360.0 | | 8.6 | | | | | | | | |
| 09/23/87 | 5.8 | 545.0 | 484.0 | 8.3 | | | 270.0 | -2.0 | -0.2 | 310.0 | 237.0 | |
| 06/02/88 | 9.7 | 263.0 | | 8.0 | | | 234.0 | 12.0 | -0.2 | 228.0 | 192.0 | |
| 07/09/88 | 12.8 | 322.0 | | 8.3 | | | | | | | | |
| 08/20/88 | 10.0 | 360.0 | | 8.6 | | | | | | | | |
| 09/03/88 | 10.7 | 360.0 | | 8.5 | | | 274.0 | 14.0 | 0.1 | 303.0 | 242.0 | |
| 06/07/89 | 6.6 | 500.0 | | 8.4 | | | 280.0 | -2.0 | -0.1 | 254.0 | 208.0 | |
| 07/11/89 | 8.0 | 520.0 | | 8.4 | | | | | | | | |
| 08/23/89 | 6.0 | 560.0 | | 8.3 | | | | | | | | |
| 09/14/89 | 4.0 | 390.0 | | 8.0 | | | 288.0 | -2.0 | -0.2 | 309.0 | 256.0 | |
| 06/02/90 | 5.0 | 490.0 | | 7.5 | | | 292.0 | -2.0 | | 278.0 | 252.0 | |
| 07/06/90 | 7.0 | 500.0 | | 7.8 | | | | | | | | |
| 08/22/90 | 7.0 | 500.0 | | 8.5 | | | | | | | | |
| 09/24/90 | 7.0 | 520.0 | | 7.9 | | | 324.0 | -2.0 | | 317.0 | 273.0 | |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 341 STATION NAME: 34-1 WILD CATTLE HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 09/07/83 | -1.0 | 130 | -5.0 | -50.0 | | -50.0 | -0.20 | 16.0 | |
| 08/15/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/03/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/23/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 341 STATION NAME: 34-1 WILD CATTLE HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/03/80 | | 200 | 22 | | | | | | | |
| 10/24/80 | | 39 | 12 | | | | | | | |
| 11/10/80 | | 80 | -1 | | | | | | | |
| 12/30/80 | | 235 | 25 | | | | | | | |
| 01/26/81 | | 95 | 16 | | | | | | | |
| 04/28/81 | | 400 | 20 | | | | | | | |
| 05/28/81 | | 100 | 10 | | | | | | | |
| 06/27/81 | | 430 | 70 | | | | | | | |
| 07/31/81 | | 60 | 15 | | | | | | | |
| 06/29/83 | | 120 | 10 | | | | | | | |
| 09/07/83 | -20 | -50 | -10 | 7 | | 230 | | -40 | | |
| 01/05/84 | | -50 | -10 | | | | | | | |
| 06/21/84 | | 50 | 10 | | | | | | | |
| 09/21/84 | | -50 | -10 | | | | | | | |
| 03/31/85 | | 450 | -10 | | | | | | | |
| 06/13/85 | | 60 | 10 | | | | | | | |
| 08/15/85 | -20 | -50 | -10 | -5 | | 110 | | -40 | | |
| 06/12/86 | | 60 | 10 | | | | | | | |
| 10/03/86 | -20 | 60 | -10 | -5 | | 80 | | -40 | | |
| 06/25/87 | | 120 | 10 | | | | | | | |
| 09/23/87 | | -20 | -10 | -10 | | | | | | |
| 06/02/88 | | 170 | 10 | | | | | | | |
| 09/03/88 | | 290 | 10 | | | | | | | |
| 06/07/89 | | 50 | -10 | | | | | | | |
| 09/14/89 | | 30 | -10 | | | | | | | |
| 06/02/90 | | 70 | -10 | | | | | | | |
| 09/24/90 | | 100 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: 342 NAME: 34-2 GENTRY HOLLOW CREEK TYPE: STREAM DATUM ELEV.: 7980.00 FT

| DATE | TIME | AIR TEMP. | WATER DEPTH | WATER ELEVATION | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| | HH:MM | DEG. C | FEET | FEET | | | |
| 10/03/80 | 11:56 | 13.0 | | | 0.5000 | CFS | |
| 10/24/80 | 15:45 | 4.0 | | | 0.9000 | CFS | |
| 11/10/80 | : | | | | 2.0000 | CFS | |
| 12/30/80 | 14:56 | 8.0 | | | 1.0000 | CFS | |
| 01/26/81 | 15:50 | 0.0 | | | 0.9000 | CFS | |
| 02/04/81 | : | | | | | | IN-ACCESSIBLE |
| 03/25/81 | : | | | | | | IN-ACCESSIBLE |
| 04/28/81 | 14:05 | 19.0 | | | 3.0000 | CFS | |
| 05/28/81 | 11:10 | 15.0 | | | 2.5000 | CFS | |
| 06/27/81 | 18:07 | | | | | | |
| 07/31/81 | 18:05 | | | | | | |
| 11/24/81 | : | | | | | | IN-ACCESSIBLE |
| 12/29/81 | : | | | | | | IN-ACCESSIBLE |
| 03/24/83 | : | | | | | | IN-ACCESSIBLE - SNOW DRIFTS |
| 04/21/83 | : | | | | | | IN-ACCESSIBLE - SNOW DRIFTS |
| 05/12/83 | : | | | | | | IN-ACCESSIBLE - SNOW DRIFTS |
| 06/29/83 | 14:10 | 24.0 | | | 4.1000 | CFS | IN-ACCESSIBLE - SNOW DRIFTS |
| 09/07/83 | 10:25 | 17.8 | | | 0.3500 | CFS | IN-ACCESSIBLE - SNOW DRIFTS |
| 01/05/84 | 13:10 | 4.0 | | | 0.3500 | CFS | |
| 03/30/84 | 8:00 | | | | | | IN-ACCESSIBLE |
| 06/21/84 | 13:15 | 21.0 | | | 0.2000 | CFS | |
| 09/21/84 | 10:50 | 18.2 | | | 0.4000 | CFS | |
| 12/31/84 | : | | | | | | ROAD SNOWED IN - ALTERNATE SITE AT |
| 03/31/85 | 11:45 | 21.0 | | | 2.7500 | CFS | |
| 06/13/85 | : | 25.0 | | | 5.4000 | CFS | |
| 08/15/85 | 16:35 | | | | 0.4400 | CFS | |
| 06/12/86 | 9:45 | 17.8 | | | 3.3000 | CFS | |
| 10/03/86 | 12:05 | 6.0 | | | 0.3400 | CFS | |
| 06/25/87 | 14:00 | 26.0 | | | 1.3000 | CFS | |
| 07/16/87 | 15:20 | 16.1 | | | 1.1700 | CFS | |
| 08/12/87 | 15:25 | 28.0 | | | 0.5100 | CFS | |
| 09/23/87 | 11:10 | 16.0 | | | 0.2900 | CFS | |
| 06/02/88 | 5:40 | | | | 1.9800 | CFS | |
| 07/09/88 | 15:20 | | | | 0.5700 | CFS | |
| 08/20/88 | 16:00 | | | | 0.5160 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

NO.: 342 NAME: 34-2 GENTRY HOLLOW CREEK TYPE: STREAM DATUM ELEV.: 7980.00 FT

| DATE | TIME | AIR TEMP. | WATER DEPTH | WATER ELEVATION | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| | HH:MM | DEG. C | FEET | FEET | | | |
| 09/03/88 | 15:00 | | | | 0.3000 | CFS | |
| 06/07/89 | 11:45 | | | | 0.3000 | CFS | |
| 07/11/89 | 10:20 | | | | 0.2640 | CFS | |
| 08/23/89 | 8:35 | | | | 0.2310 | CFS | |
| 09/14/89 | 8:50 | | | | 0.0760 | CFS | |
| 06/02/90 | 12:10 | | | | 0.7140 | CFS | |
| 07/06/90 | 13:15 | | | | 0.2860 | CFS | |
| 08/22/90 | 9:25 | | | | 0.1950 | CFS | |
| 09/24/90 | 11:30 | | | | 0.2280 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 342 STATION NAME: 34-2 GENTRY HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/03/80 | 6.0 | | 390.0 | | 7.20 | | 255.0 | 12.0 | | | | |
| 10/24/80 | 5.0 | | 450.0 | | 7.50 | | 308.0 | 12.0 | | | | |
| 11/10/80 | | | 430.0 | | 7.30 | | 282.0 | 9.0 | | | | |
| 12/30/80 | 4.0 | | 312.0 | | 7.60 | | 760.0 | | | | 302.0 | |
| 01/26/81 | 3.0 | | 283.0 | | 7.60 | | 315.0 | 3.0 | | | 308.0 | |
| 04/28/81 | 10.0 | | 275.0 | | 8.50 | | 212.0 | 28.0 | | | 204.0 | |
| 05/28/81 | 7.0 | | 295.0 | | 8.00 | | 251.0 | 11.0 | | | 216.0 | |
| 06/27/81 | | | 990.0 | | 8.00 | | 586.0 | 1.0 | | | 154.4 | |
| 07/31/81 | | | 520.0 | | | | 280.0 | 1.0 | | | 246.0 | |
| 06/29/83 | 13.0 | | 500.0 | | 8.00 | | 226.0 | 57.0 | | | 214.0 | |
| 09/07/83 | 11.0 | | 550.0 | | 8.05 | | 212.0 | 5.0 | | | 224.0 | |
| 01/05/84 | 3.0 | | 580.0 | | 8.20 | | 299.0 | 10.5 | | | 253.0 | |
| 06/21/84 | 11.0 | | 430.0 | | 7.60 | | 223.0 | 19.0 | | | 206.0 | |
| 09/21/84 | 11.0 | | 500.0 | | 8.00 | | 215.0 | 3.0 | | | 215.0 | |
| 03/31/85 | 4.0 | | 420.0 | | 8.05 | | 248.0 | 52.0 | | | 207.0 | |
| 06/13/85 | 9.0 | | 412.0 | | 7.85 | | 237.0 | 13.0 | | | 215.0 | |
| 08/15/85 | 7.0 | | 449.0 | | 7.50 | | 300.0 | 3.0 | | | 225.0 | |
| 06/12/86 | 5.0 | | 440.0 | 8.5 | 7.70 | | 228.0 | 48.0 | | | 218.0 | |
| 10/03/86 | 4.0 | 455.0 | 514.0 | | 8.20 | | 276.0 | 1.0 | | | 232.0 | |
| 06/25/87 | 13.2 | 415.0 | | 8.9 | | -69.6 | 222.0 | 16.0 | | 242.0 | 206.0 | |
| 07/16/87 | 12.0 | 375.0 | | 7.2 | | | | | | | | |
| 08/12/87 | 14.3 | 380.0 | | 8.6 | | | | | | | | |
| 09/23/87 | 7.0 | 590.0 | 553.0 | 8.4 | | | 322.0 | 4.0 | -0.2 | 338.0 | 255.0 | |
| 06/02/88 | 10.2 | 288.0 | | 8.1 | | | 242.0 | 2.0 | -0.2 | 236.0 | 194.0 | |
| 07/09/88 | 13.6 | 423.0 | | 8.3 | | | | | | | | |
| 08/20/88 | 12.0 | 425.0 | | 8.6 | | | | | | | | |
| 09/03/88 | 12.7 | 430.0 | | 8.2 | | | 316.0 | 20.0 | -0.1 | 323.0 | 260.0 | |
| 06/07/89 | 9.2 | 540.0 | | 8.5 | | | 308.0 | 8.0 | -0.1 | 283.0 | 220.0 | |
| 07/11/89 | 10.0 | 560.0 | | 8.4 | | | | | | | | |
| 08/23/89 | 8.0 | 590.0 | | 8.3 | | | | | | | | |
| 09/14/89 | 6.0 | 360.0 | | 8.0 | | | 312.0 | -2.0 | -0.2 | 351.0 | 284.0 | |
| 06/02/90 | 7.0 | 520.0 | | 7.7 | | | 312.0 | -2.0 | | 287.0 | 253.0 | |
| 07/06/90 | 8.0 | 540.0 | | 8.0 | | | | | | | | |
| 08/22/90 | 8.0 | 530.0 | | 8.5 | | | | | | | | |
| 09/24/90 | 7.0 | 510.0 | | 7.1 | | | 354.0 | 12.0 | | 338.0 | 283.0 | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 342 STATION NAME: 34-2 GENTRY HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/03/80 | 57.6 | 30.2 | 3.8 | 1.4 | 309.9 | | | 1.0 | 20 | | 0.10 |
| 10/24/80 | 65.6 | 27.8 | 7.2 | 8.6 | 309.9 | | | 3.0 | 40 | | 0.19 |
| 11/10/80 | 68.0 | 26.4 | 4.2 | 1.4 | 324.5 | | | -0.1 | 20 | | 0.11 |
| 12/30/80 | 76.0 | 36.0 | 4.3 | 1.2 | 363.6 | | | 0.6 | 44 | | 0.10 |
| 01/26/81 | 72.0 | 29.3 | 12.0 | 1.3 | 375.8 | | | 5.0 | 15 | | 0.30 |
| 04/28/81 | 55.6 | 18.5 | 3.3 | 1.4 | 248.9 | | | 2.0 | 13 | | 0.10 |
| 05/28/81 | 21.6 | 34.1 | 25.0 | 1.3 | 263.5 | | | 10.0 | 24 | | 0.78 |
| 06/27/81 | 143.0 | 27.0 | 15.0 | 8.0 | 183.4 | | | 4.7 | 314 | | 0.30 |
| 07/31/81 | 56.4 | 31.2 | 3.2 | 0.4 | 300.1 | | | 3.9 | 30 | | 0.08 |
| 06/29/83 | 44.0 | 29.0 | 4.0 | 1.0 | 261.0 | | | 4.0 | 14 | | 0.12 |
| 09/07/83 | 40.0 | 33.0 | 4.0 | 1.0 | 273.0 | -1.0 | | 7.0 | 16 | | 0.11 |
| 01/05/84 | 73.0 | 32.0 | 5.0 | 2.0 | 309.0 | | | 6.0 | 33 | | 0.12 |
| 06/21/84 | 55.0 | 21.0 | 4.0 | 2.0 | 251.0 | | | 4.0 | 13 | | 0.12 |
| 09/21/84 | 50.0 | 23.0 | 6.0 | 1.0 | 282.0 | | | 5.0 | 15 | | 0.18 |
| 03/31/85 | 60.0 | 19.0 | 3.0 | 2.0 | 252.0 | | | 4.0 | 24 | | 0.09 |
| 06/13/85 | 60.0 | 23.0 | 3.0 | 0.8 | 262.0 | | | 4.0 | 13 | | 0.08 |
| 08/15/85 | 62.0 | 28.0 | 5.0 | 1.0 | 274.0 | -1.0 | | 5.0 | 44 | | |
| 06/12/86 | 61.0 | 21.0 | 3.0 | 0.9 | 265.0 | | | 2.9 | 14 | | 0.08 |
| 10/03/86 | 60.0 | 28.0 | 3.8 | 2.0 | 283.0 | -1.0 | | 4.6 | 38 | | 0.10 |
| 06/25/87 | 54.0 | 26.0 | 4.0 | 2.0 | 251.0 | | | 3.0 | 21 | | 0.11 |
| 09/23/87 | 81.0 | 33.0 | 5.0 | 1.0 | 311.0 | | | 3.0 | 47 | | 0.11 |
| 06/02/88 | 55.0 | 24.0 | 3.0 | 1.0 | 237.0 | | | 1.0 | 23 | | 0.09 |
| 09/03/88 | 70.0 | 36.0 | 4.0 | 2.0 | 317.0 | | | 5.0 | 41 | | 0.10 |
| 06/07/89 | 59.0 | 33.0 | 3.0 | 2.0 | 268.0 | | | 3.0 | 39 | | 0.08 |
| 09/14/89 | 78.0 | 38.0 | 4.0 | 2.0 | 346.0 | | | 2.0 | 43 | | 0.09 |
| 06/02/90 | 64.0 | 31.0 | 4.0 | 1.0 | 309.0 | | | 4.0 | 31 | | 0.10 |
| 09/24/90 | 81.0 | 33.0 | 3.0 | 2.0 | 345.0 | | | 5.0 | 31 | | 0.07 |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 342 STATION NAME: 34-2 GENTRY HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 09/07/83 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | 25.0 | |
| 08/15/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/03/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/23/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 342 STATION NAME: 34-2 GENTRY HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/03/80 | | 44 | | | | | | | | |
| 10/24/80 | | 20 | | | | | | | | |
| 11/10/80 | | 10 | | | | | | | | |
| 12/30/80 | | 50 | 15 | | | | | | | |
| 01/26/81 | | 59 | 10 | | | | | | | |
| 04/28/81 | | 10 | 10 | | | | | | | |
| 05/28/81 | | 10 | 10 | | | | | | | |
| 07/31/81 | | 40 | | | | | | | | |
| 06/29/83 | | -50 | -10 | | | | | | | |
| 09/07/83 | | -50 | -10 | | | | | | | |
| 01/05/84 | | -50 | | | | | | | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 09/21/84 | | -50 | -10 | | | | | | | |
| 03/31/85 | | -50 | 30 | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 08/15/85 | | -50 | -10 | | | | | | | |
| 06/12/86 | | -50 | -10 | | | | | | | |
| 10/03/86 | | -50 | -10 | | | | | | | |
| 06/25/87 | | 11 | 10 | | | | | | | |
| 09/23/87 | | 100 | 20 | | -50 | | -50 | | | |
| 06/02/88 | | 30 | | | | | | | | |
| 09/03/88 | | 120 | | | | | | | | |
| 06/07/89 | | -20 | -10 | | | | | | | |
| 09/14/89 | | 20 | -10 | | | | | | | |
| 06/02/90 | | -20 | -10 | | | | | | | |
| 09/24/90 | | 50 | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 342 STATION NAME: 34-2 GENTRY HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/03/80 | | 120 | 13 | | | | | | | |
| 10/24/80 | | 65 | 15 | | | | | | | |
| 11/10/80 | | 220 | -1 | | | | | | | |
| 12/30/80 | | 85 | 20 | | | | | | | |
| 01/26/81 | | 110 | 24 | | | | | | | |
| 04/28/81 | | 490 | 30 | | | | | | | |
| 05/28/81 | | 110 | 10 | | | | | | | |
| 06/27/81 | | 580 | 60 | | | | | | | |
| 07/31/81 | | 58 | -1 | | | | | | | |
| 06/29/83 | | 160 | 20 | | | | | | | |
| 09/07/83 | -20 | 60 | -10 | 8 | | 210 | | -40 | | |
| 01/05/84 | | 70 | 10 | | | | | | | |
| 06/21/84 | | 580 | -10 | | | | | | | |
| 09/21/84 | | 50 | -10 | | | | | | | |
| 03/31/85 | | 310 | -10 | | | | | | | |
| 06/13/85 | | 190 | 20 | | | | | | | |
| 08/15/85 | -20 | 170 | 30 | -5 | | 180 | | -40 | | |
| 06/12/86 | | 120 | 20 | | | | | | | |
| 10/03/86 | -20 | 340 | 20 | 35 | | 100 | | -40 | | |
| 06/25/87 | | 280 | 20 | | | | | | | |
| 09/23/87 | | 210 | 20 | 10 | | | | | | |
| 06/02/88 | | 30 | -10 | | | | | | | |
| 09/03/88 | | 430 | 20 | | | | | | | |
| 06/07/89 | | 370 | 20 | | | | | | | |
| 09/14/89 | | 230 | 10 | | | | | | | |
| 06/02/90 | | 210 | 20 | | | | | | | |
| 09/24/90 | | 430 | 20 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 342 STATION NAME: 34-2 GENTRY HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/03/80 | | | | | | | | 0.080 | | |
| 10/24/80 | | | | | | | | 0.080 | | |
| 11/10/80 | | | | | | | | 0.160 | | |
| 09/07/83 | | | 0.640 | | | | | 0.050 | | 0.60 |
| 01/05/84 | | | | | | | | | | -0.50 |
| 09/21/84 | | | | | | | | | | -0.50 |
| 03/31/85 | | | | | | | | | | -0.05 |
| 08/15/85 | | | 0.150 | | | | | 0.080 | | -0.50 |
| 06/12/86 | | | | | | | | | | 3.50 |
| 10/03/86 | | | 0.020 | | | | | 0.090 | | -0.50 |
| 06/25/87 | | | | | | | | | | 1.00 |
| 09/23/87 | | | 0.080 | | 0.080 | | | | | -1.00 |
| 06/02/88 | | | | | | | | | | 1.00 |
| 09/03/88 | | | | | | | | | | 1.00 |
| 06/07/89 | | | | | | | | | | -1.00 |
| 09/14/89 | | | | | | | | | | -1.00 |
| 06/02/90 | | | | | | | | | | -1.00 |
| 09/24/90 | | | | | | | | | | -1.00 |

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WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 342 STATION NAME: 34-2 GENTRY HOLLOW CREEK TYPE: STREAM DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 08/15/85 | | | | | | | 0.17 | | | | | |
| 10/03/86 | | | | | | | -0.05 | | | | | |
| 09/23/87 | | | | -0.20 | | | | | | | | |

NO.: ST1 NAME: N FK RT FK MILLER CRK (ST-1) TYPE: STREAM DATUM ELEV.: 7835.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 08/28/80 | : | | | | | | |
| 09/17/80 | : | | | | | | |
| 01/27/81 | : | -8.0 | | | 0.2000 | CFS | |
| 02/18/81 | : | 1.0 | | | 0.0500 | CFS | |
| 04/28/81 | 12:17 | 16.0 | | | 0.5000 | CFS | |
| 06/27/82 | 19:30 | 12.0 | | | 0.4000 | CFS | |
| 03/24/83 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 04/21/83 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 05/12/83 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 06/29/83 | 13:00 | 24.0 | | | 1.5000 | CFS | |
| 10/04/83 | 11:38 | 19.0 | | | 0.3500 | CFS | |
| 01/06/84 | 10:30 | 4.0 | | | 0.4300 | CFS | |
| 03/30/84 | 9:30 | | | | | | IN-ACCESSIBLE - MUDDY ROAD |
| 06/21/84 | 12:30 | 20.0 | | | 0.3500 | CFS | |
| 10/25/84 | 10:18 | | | | | | |
| 02/21/85 | : | | | | | | IN-ACCESSIBLE - SNOW |
| 03/31/85 | 10:00 | 22.0 | | | 0.5500 | CFS | |
| 06/13/85 | : | | | | 2.0000 | CFS | |
| 09/27/85 | : | 11.0 | | | 0.1500 | CFS | |
| 03/28/86 | 9:13 | 5.0 | | | 0.8200 | CFS | |
| 06/12/86 | 15:30 | 23.9 | | | 0.3050 | CFS | |
| 10/13/86 | 9:45 | 4.0 | | | 0.2200 | CFS | |
| 05/23/87 | 7:30 | 8.5 | | | 0.5900 | CFS | |
| 07/20/87 | 13:20 | 13.0 | | | 0.0850 | CFS | |
| 08/12/87 | 11:25 | 19.0 | | | 0.0850 | CFS | |
| 09/22/87 | 15:25 | 21.0 | | | 0.1100 | CFS | |
| 06/01/88 | 15:15 | | | | 0.2800 | CFS | |
| 07/15/88 | 13:20 | | | | 0.1050 | CFS | |
| 08/13/88 | 14:45 | | | | 0.0450 | CFS | |
| 09/30/88 | 14:00 | | | | 0.1400 | CFS | |
| 06/06/89 | 9:30 | | | | 0.0800 | CFS | |
| 07/03/89 | 12:35 | | | | 0.1900 | CFS | |
| 08/22/89 | 16:45 | | | | 0.1100 | CFS | |
| 09/15/89 | 13:00 | | | | 0.1100 | CFS | |
| 06/02/90 | 9:00 | | | | 0.0990 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

NO.: ST1 NAME: N FK RT FK MILLER CRK (ST-1) TYPE: STREAM DATUM ELEV.: 7835.00 FT

| DATE | TIME | AIR TEMP. | WATER DEPTH | WATER ELEVATION | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| | HH:MM | DEG. C | FEET | FEET | | | |
| 07/04/90 | 12:25 | | | | 0.0760 | CFS | |
| 08/22/90 | 13:40 | | | | 0.0540 | CFS | |
| 09/24/90 | 13:30 | | | | 0.0750 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: ST1 STATION NAME: N FK RT FK MILLER CRK (ST-1) TYPE: STREAM DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/28/80 | | | 1700.0 | | 7.70 | | 1190.0 | 17.0 | | | | |
| 09/17/80 | | | 1900.0 | | 7.40 | | 1330.0 | 29.0 | | | | |
| 01/27/81 | -2.0 | | 1550.0 | | 7.60 | | 1054.0 | 3.0 | | | | |
| 02/18/81 | -1.0 | | 1500.0 | | 7.70 | | 1020.0 | 2.0 | | | | |
| 04/28/81 | 9.0 | | 850.0 | | 8.30 | | 845.0 | 8.0 | | | 290.0 | |
| 06/22/82 | 11.0 | | 370.0 | | 8.00 | | 240.0 | 28.0 | | | 204.9 | |
| 06/29/83 | 17.0 | | 775.0 | | 8.40 | | 394.0 | 34.0 | | | 216.0 | |
| 10/04/83 | 8.9 | | 1700.0 | | 8.05 | | 1270.0 | 11.0 | | | 300.0 | |
| 01/06/84 | 3.9 | | 1600.0 | | 8.10 | | 1215.0 | 7.0 | | | 300.0 | |
| 06/21/84 | 11.0 | | 1100.0 | | 7.80 | | 702.0 | 23.0 | | | 259.0 | |
| 10/25/84 | | | 1500.0 | | 7.60 | | 1104.0 | 6.0 | | | 310.0 | |
| 03/31/85 | 5.0 | | 1100.0 | | 8.10 | | 751.0 | 31.0 | | | 270.0 | |
| 06/13/85 | | | 1000.0 | | 7.80 | | 645.0 | 12.0 | | | 255.0 | |
| 09/27/85 | 5.0 | | 1627.0 | | 7.40 | | 1130.0 | 24.0 | | | 306.0 | |
| 03/28/86 | 2.0 | 1400.0 | 1320.0 | | 7.70 | | 879.0 | 16.0 | | | 316.0 | |
| 06/12/86 | 12.0 | | 820.0 | 8.2 | 7.80 | | 488.0 | 14.0 | | | 220.0 | |
| 10/13/86 | 2.5 | 1200.0 | 1428.0 | | 8.19 | | 885.0 | 3.0 | | | 290.0 | |
| 05/23/87 | 3.8 | 745.0 | | 8.8 | | -59.0 | 670.0 | 16.0 | | | 238.0 | |
| 07/20/87 | 11.0 | 1110.0 | | 8.5 | | | | | | | | |
| 08/12/87 | 12.0 | 1150.0 | | 8.3 | | | | | | | | |
| 09/22/87 | 12.9 | 1600.0 | 1300.0 | 7.1 | | | 1008.0 | 14.0 | -0.2 | 837.0 | 302.0 | |
| 06/01/88 | 7.0 | 492.0 | | 8.7 | | | 574.0 | 4.0 | -0.2 | 494.0 | 233.0 | |
| 07/15/88 | 18.8 | 1100.0 | | 8.1 | | | | | | | | |
| 08/13/88 | 17.5 | 1000.0 | | 8.4 | | | | | | | | |
| 09/30/88 | 11.2 | 1000.0 | | 8.9 | | | 996.0 | 18.0 | -0.2 | 829.0 | 300.0 | |
| 06/06/89 | 9.0 | 1500.0 | | 8.3 | | | 1258.0 | -2.0 | -0.1 | 986.0 | 286.0 | |
| 07/03/89 | 16.0 | 1670.0 | | 8.0 | | | | | | | | |
| 08/22/89 | 14.0 | 1540.0 | | 8.1 | | | | | | | | |
| 09/15/89 | 12.0 | 1570.0 | | 8.3 | | | 1250.0 | 2.0 | -0.1 | 1022.0 | 312.0 | |
| 06/02/90 | 7.0 | 1730.0 | | 7.6 | | | 1472.0 | 12.0 | | 1033.0 | 338.0 | |
| 07/04/90 | 15.0 | 1710.0 | | 8.3 | | | | | | | | |
| 08/22/90 | 13.0 | 1560.0 | | 8.2 | | | | | | | | |
| 09/24/90 | 11.0 | 1400.0 | | 8.3 | | | 1360.0 | 10.0 | | 1024.0 | 365.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: ST1 STATION NAME: N FK RT FK MILLER CRK (ST-1) TYPE: STREAM DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/28/80 | | | | | | | | 0.1 | 29 | | |
| 09/17/80 | | | | | | | | 11.4 | 840 | | |
| 01/27/81 | | | | | | | | 14.6 | 690 | | |
| 02/18/81 | | | | | | | | 25.7 | 54 | | |
| 04/28/81 | 131.2 | 97.9 | 10.8 | 4.9 | 353.8 | | | 16.0 | 420 | | 0.17 |
| 06/22/82 | 60.0 | 20.0 | 3.1 | 0.9 | 250.0 | | | 2.9 | 27 | | 0.09 |
| 06/29/83 | 70.0 | 41.0 | 6.0 | 2.0 | 263.0 | | | 6.0 | 135 | | 0.14 |
| 10/04/83 | 176.0 | 137.0 | 13.0 | 7.0 | 366.0 | -1.0 | | 12.0 | 690 | | 0.18 |
| 01/06/84 | 168.0 | 135.0 | 11.0 | 7.0 | 366.0 | | | 14.0 | 660 | | 0.15 |
| 06/21/84 | 102.0 | 87.0 | 9.0 | 4.0 | 316.0 | | | 10.0 | 335 | | 0.16 |
| 10/25/84 | 148.0 | 120.0 | 11.0 | 6.0 | 370.0 | -1.0 | | 10.0 | 535 | | 0.16 |
| 03/31/85 | 130.0 | 66.0 | 9.0 | 4.0 | 329.0 | | | 11.0 | 310 | | 0.16 |
| 06/13/85 | 125.0 | 71.0 | 8.0 | 3.6 | 311.0 | | | 10.0 | 300 | | 0.14 |
| 09/27/85 | 162.0 | 131.0 | 11.0 | 7.0 | 373.0 | -1.0 | | 12.0 | 650 | | 0.16 |
| 03/28/86 | 118.0 | 111.0 | 12.0 | 5.0 | 385.0 | | | 15.0 | 430 | | |
| 06/12/86 | 84.0 | 58.0 | 6.8 | 3.2 | 268.0 | 7.5 | | | 230 | | 0.14 |
| 10/13/86 | 130.0 | 100.9 | 9.7 | 7.4 | 354.0 | -1.0 | | 13.3 | 450 | | 0.16 |
| 05/23/87 | 95.0 | 72.0 | 8.0 | 3.0 | 290.0 | | | 9.0 | 243 | | 0.15 |
| 09/22/87 | 146.0 | 115.0 | 11.0 | 7.0 | 368.0 | | | 12.0 | 521 | | 0.16 |
| 06/01/88 | 86.0 | 68.0 | 7.0 | 4.0 | 284.0 | | | 7.0 | 243 | | 0.14 |
| 09/30/88 | 125.0 | 126.0 | 11.0 | 6.0 | 366.0 | | | 12.0 | 484 | | 0.17 |
| 06/06/89 | 155.0 | 146.0 | 11.0 | 6.0 | 349.0 | | | 14.0 | 679 | | 0.15 |
| 09/15/89 | 158.0 | 153.0 | 11.0 | 6.0 | 381.0 | | | 10.0 | 665 | | 0.15 |
| 06/02/90 | 164.0 | 152.0 | 14.0 | 6.0 | 412.0 | | | 16.0 | 661 | | 0.19 |
| 09/24/90 | 180.0 | 140.0 | 11.0 | 6.0 | 445.0 | | | 16.0 | 698 | | 0.15 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: ST1 STATION NAME: N FK RT FK MILLER CRK (ST-1) TYPE: STREAM DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/04/83 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -0.3 | |
| 10/25/84 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/27/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/13/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/22/87 | | | | | | -20.0 | | | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: ST1 STATION NAME: N FK RT FK MILLER CRK (ST-1) TYPE: STREAM DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/28/80 | | 65 | | | | | | | | |
| 09/17/80 | | 120 | | | | | | | | |
| 01/27/81 | | 110 | | | | | | | | |
| 02/18/81 | | 100 | | | | | | | | |
| 04/28/81 | | 20 | 20 | | | | | | | |
| 06/22/82 | | 112 | | | | | | | | |
| 06/29/83 | | -50 | -10 | | | | | | | |
| 10/04/83 | | 60 | 20 | | | | | | | |
| 01/06/84 | | -50 | -10 | | | | | | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 10/25/84 | | -50 | -10 | | | | | | | |
| 03/31/85 | | -50 | -10 | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/27/85 | | -50 | -10 | | | | | | | |
| 03/28/86 | | -50 | -10 | | | | | | | |
| 06/12/86 | | 70 | -10 | | | | | | | |
| 10/13/86 | | -50 | -10 | | | | | | | |
| 05/23/87 | | 40 | -10 | | | | | | | |
| 09/22/87 | | 60 | 20 | | -50 | | -50 | | | |
| 06/01/88 | | 20 | | | | | | | | |
| 09/30/88 | | 60 | | | | | | | | |
| 06/06/89 | | 40 | -10 | | | | | | | |
| 09/15/89 | | -20 | -10 | | | | | | | |
| 06/02/90 | | -20 | 20 | | | | | | | |
| 09/24/90 | | 30 | -10 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: ST1 STATION NAME: N FK RT FK MILLER CRK (ST-1) TYPE: STREAM DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/28/80 | | 185 | 28 | | | | | | | |
| 09/17/80 | | 240 | 16 | | | | | | | |
| 01/27/81 | | 240 | 12 | | | | | | | |
| 02/18/81 | | 250 | 30 | | | | | | | |
| 04/28/81 | | 240 | 20 | | | | | | | |
| 06/22/82 | | 250 | 2 | | | | | | | |
| 06/29/83 | | 160 | 20 | | | | | | | |
| 10/04/83 | -20 * | 200 | 40 | 32 | | 200 | | -40 | | |
| 01/06/84 | | 120 | 10 | | | | | | | |
| 06/21/84 | | 210 | -10 | | | | | | | |
| 10/25/84 | -20 | 180 | -10 | -5 | | 570 | | -40 | | |
| 03/31/85 | | 300 | 30 | | | | | | | |
| 06/13/85 | | 300 | 40 | | | | | | | |
| 09/27/85 | -20 | 210 | 70 | -5 | | 60 | | -40 | | |
| 03/28/86 | | 60 | 20 | | | | | | | |
| 06/12/86 | | 118 | 20 | | | | | | | |
| 10/13/86 | -20 | -50 | -10 | 8 | | 80 | | -40 | | |
| 05/23/87 | | 260 | 10 | | | | | | | |
| 09/22/87 | | 380 | 40 | -10 | | | | | | |
| 06/01/88 | | 160 | 10 | | | | | | | |
| 09/30/88 | | 590 | 40 | | | | | | | |
| 06/06/89 | | 330 | 30 | | | | | | | |
| 09/15/89 | | 330 | 30 | | | | | | | |
| 06/02/90 | | 410 | 40 | | | | | | | |
| 09/24/90 | | 630 | 40 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: ST1 STATION NAME: N FK RT FK MILLER CRK (ST-1) TYPE: STREAM DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/28/80 | | | 0.920 | | | | | | | -0.01 |
| 09/17/80 | | | 0.890 | | | | | | | 1.40 |
| 01/27/81 | | | 0.560 | | | | | | | 1.80 |
| 02/18/81 | | | 0.580 | | | | | | | 0.60 |
| 10/04/83 | | | 0.640 | | | | | 0.280 | | -0.50 |
| 01/06/84 | | | | | | | | | | -0.50 |
| 10/25/84 | | | 0.090 | | | | | 0.100 | | -0.50 |
| 03/31/85 | | | | | | | | | | -0.50 |
| 09/27/85 | | | 0.110 | | | | | 0.090 | | -0.50 |
| 03/28/86 | | | | | | | | | | -0.50 |
| 06/12/86 | | | | | | | | | | -0.50 |
| 10/13/86 | | | 0.120 | | | | | 0.070 | | 1.00 |
| 05/23/87 | | | | | | | | | | -1.00 |
| 09/22/87 | | | 0.180 | | 0.220 | | | | | -1.00 |
| 06/01/88 | | | | | | | | | | -1.00 |
| 09/30/88 | | | | | | | | | | -1.00 |
| 06/06/89 | | | | | | | | | | -1.00 |
| 09/15/89 | | | | | | | | | | -1.00 |
| 06/02/90 | | | | | | | | | | -1.00 |
| 09/24/90 | | | | | | | | | | 1.00 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: ST1 STATION NAME: N FK RT FK MILLER CRK (ST-1) TYPE: STREAM DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 09/27/85 | | | | | | | 0.12 | | | | | |
| 10/13/86 | | | | | | | 0.15 | | | | | |
| 09/22/87 | | | | 0.30 | | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: M8 STATION NAME: N FK RT FK MILLER CRK (M8) TYPE: STREAM DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | 5.8 | 248.0 | | 9.1 | | | 230.0 | 14.0 | -0.2 | | 181.0 | |
| 07/15/88 | 19.0 | 348.0 | | 8.8 | | | 276.0 | | -0.2 | 251.0 | 200.0 | |
| 08/13/88 | 13.5 | 329.0 | | 9.2 | | | | | | | | |
| 09/30/88 | 6.8 | 330.0 | | 9.3 | | | 310.0 | | -0.2 | 315.0 | 228.0 | |
| 04/27/89 | 7.0 | 1450.0 | 1480.0 | 8.5 | | | 1098.0 | | | 971.0 | 414.0 | |
| 06/06/89 | 7.0 | 1600.0 | | 8.4 | | | 1280.0 | | -0.2 | 1070.0 | 388.0 | |
| 07/03/89 | 14.0 | 1390.0 | | 8.4 | | | 1050.0 | | -0.1 | 800.0 | 266.0 | |
| 08/22/89 | 10.0 | 1515.0 | | 8.3 | | | | | | | | |
| 09/15/89 | 10.0 | 1470.0 | | 8.4 | | | 1196.0 | | -0.2 | 984.0 | 336.0 | |
| 05/30/90 | 8.0 | 1660.0 | | 7.2 | | | 1434.0 | | -0.2 | 1144.0 | 366.0 | |
| 07/04/90 | 16.0 | 1810.0 | | 8.3 | | | 1602.0 | 14.0 | | 1057.0 | 273.0 | |
| 08/22/90 | 10.0 | 1750.0 | | 8.5 | | | | | | | | |
| 09/18/90 | 8.0 | 1640.0 | | 8.3 | | | 1566.0 | | | 1270.0 | 370.0 | |

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: M8 STATION NAME: N FK RT FK MILLER CRK (M8) TYPE: STREAM DATE: 03/02/91

| DATE | CALCIUM | MAGNESM | SODIUM | POTASS | BICARB HCO3 | CARBONT CO3 | HYDROX OH | CHLORIDE | SULFATE | FLUOR | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L | |
| 06/01/88 | 58.0 | 23.0 | 3.0 | 1.0 | 221.0 | | | 2.0 | 35 | 0.1 | 0.08 |
| 07/15/88 | 51.0 | 30.0 | 4.0 | 1.0 | 244.0 | | | 4.0 | 45 | 0.2 | 0.11 |
| 09/30/88 | 67.0 | 36.0 | 4.0 | 1.0 | 278.0 | | | 4.0 | 64 | 0.1 | 0.10 |
| 04/27/89 | 131.0 | 157.0 | 7.0 | 5.0 | 505.0 | | | 12.0 | 535 | 0.4 | 0.10 |
| 06/06/89 | 110.0 | 194.0 | 10.0 | 5.0 | 473.0 | | | 10.0 | 652 | 0.4 | 0.13 |
| 07/03/89 | 123.0 | 120.0 | 9.0 | 8.0 | 325.0 | | | 9.0 | 552 | 0.5 | 0.14 |
| 09/15/89 | 164.0 | 140.0 | 8.0 | 8.0 | 400.0 | 5.0 | | 7.0 | 624 | 0.2 | 0.11 |
| 05/30/90 | 159.0 | 182.0 | 10.0 | 6.0 | 422.0 | 12.0 | | 11.0 | 757 | 0.3 | 0.13 |
| 07/04/90 | 144.0 | 170.0 | 9.0 | 5.0 | 390.0 | 11.0 | | 11.0 | 801 | | 0.12 |
| 09/18/90 | 147.0 | 220.0 | 54.0 | 8.0 | 451.0 | | | 12.0 | 871 | | 0.66 |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: M8 STATION NAME: N FK RT FK MILLER CRK (M8) TYPE: STREAM DATE: 03/02/91

| DATE | ARSENIC DISS. UG/L | BARIUM DISS. UG/L | CADMIUM DISS. UG/L | CR-TOT DISS. UG/L | CR-HEX DISS. UG/L | LEAD DISS. UG/L | MERCURY DISS. UG/L | SELENM DISS. UG/L | SILVER DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | -1.0 | 30 | -5.0 | -10.0 | | | -0.20 | -1.0 | |
| 07/15/88 | -1.0 | 30 | -5.0 | 10.0 | | | -0.10 | -1.0 | |
| 09/30/88 | -1.0 | 20 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 04/27/89 | -1.0 | -10 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 06/06/89 | -1.0 | 30 | -5.0 | -10.0 | | | -0.10 | -1.0 | |
| 07/03/89 | -1.0 | 40 | -5.0 | -10.0 | | | -0.10 | 3.0 | |
| 09/15/89 | -1.0 | 180 | -5.0 | -10.0 | | | -0.10 | 2.0 | |
| 05/30/90 | -1.0 | 20 | -10.0 | -10.0 | | | -0.10 | -1.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: M8 STATION NAME: N FK RT FK MILLER CRK (M8) TYPE: STREAM DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 06/01/88 | | | | | | -20.0 | | | |
| 04/27/89 | | | | | | -20.0 | | | |

NO.: ST2 NAME: S FK RT FK MILLER CRK (ST-2) TYPE: STREAM DATUM ELEV.: 7835.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 01/27/81 | : | -6.0 | | | 0.0700 | CFS | |
| 04/27/81 | : | 4.0 | | | 0.7400 | CFS | |
| 06/22/82 | 19:30 | 23.0 | | | | | |
| 03/24/83 | : | | | | | | IN-ACCESSIBLE -SNOW |
| 04/21/83 | : | | | | | | IN-ACCESSIBLE -SNOW |
| 05/21/83 | : | | | | | | IN-ACCESSIBLE -SNOW |
| 06/29/83 | 13:15 | 24.0 | | | 3.0000 | CFS | |
| 10/04/83 | 11:40 | 19.0 | | | 0.2500 | CFS | |
| 01/06/84 | 10:30 | | | | 0.2100 | CFS | EST AIR FLOW - NO SAMPLE TAKEN, |
| 03/30/84 | 9:30 | | | | | | IN-ACCESSIBLE - MUDDY ROAD . |
| 06/21/84 | 12:30 | 20.0 | | | 1.3800 | CFS | |
| 10/25/84 | 10:20 | | | | | | |
| 12/31/84 | : | | | | | | ALT SITE, SEE ST1 FOR DATA ROAD |
| 02/21/85 | : | | | | | | IN-ACCESSIBLE - SNOWED IN |
| 03/31/85 | 10:45 | 22.0 | | | 0.3900 | CFS | |
| 06/13/85 | : | | | | 3.5000 | CFS | |
| 09/27/85 | : | 11.0 | | | 0.0800 | CFS | |
| 03/28/86 | 9:20 | 5.0 | | | 1.3400 | CFS | |
| 06/12/86 | 15:40 | 23.9 | | | 1.6390 | CFS | |
| 10/13/86 | 9:55 | 4.0 | | | 0.0600 | CFS | |
| 05/23/87 | 7:35 | 8.5 | | | 0.8600 | CFS | |
| 07/20/87 | 13:30 | 13.0 | | | 0.1500 | CFS | |
| 08/12/87 | 11:30 | 19.0 | | | 0.0600 | CFS | |
| 09/22/87 | 15:30 | 22.0 | | | 0.0900 | CFS | |
| 06/01/88 | 15:30 | | | | 0.6800 | CFS | |
| 07/15/88 | 13:10 | | | | 0.0190 | CFS | |
| 08/13/88 | 14:30 | | | | 0.1150 | CFS | |
| 09/30/88 | 13:30 | | | | 0.1300 | CFS | |
| 06/06/89 | 9:45 | | | | 0.0980 | CFS | |
| 07/03/89 | 12:40 | | | | 0.1100 | CFS | |
| 08/22/89 | 16:50 | | | | 0.0800 | CFS | |
| 09/15/89 | 13:15 | | | | 0.0900 | CFS | |
| 06/02/90 | 9:30 | | | | 0.1820 | CFS | |
| 07/04/90 | 12:30 | | | | 0.0540 | CFS | |
| 08/22/90 | 13:45 | | | | 0.0750 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: ST2 STATION NAME: S FK RT FK MILLER CRK (ST-2) TYPE: STREAM DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01/27/81 | | | | | | | | 8.3 | 96 | | |
| 04/27/81 | | | | | | | | 4.0 | 42 | | |
| 06/22/82 | 60.0 | 23.0 | 3.1 | 0.9 | 251.0 | | | 1.0 | 42 | | 0.09 |
| 06/29/83 | 49.0 | 55.0 | 6.0 | 2.0 | 263.0 | | | 6.0 | 135 | | 0.14 |
| 10/04/83 | 74.0 | 42.0 | 5.0 | 2.0 | 333.0 | -1.0 | | 6.0 | 83 | | 0.12 |
| 06/21/84 | 59.0 | 23.0 | 4.0 | 2.0 | 260.0 | | | 5.0 | 30 | | 0.11 |
| 10/25/84 | 72.0 | 47.0 | 6.0 | 2.0 | 360.0 | -1.0 | | 9.0 | 100 | | 0.14 |
| 03/31/85 | 62.0 | 36.0 | 5.0 | 2.0 | 300.0 | | | 6.0 | 60 | | 0.13 |
| 06/13/85 | 70.0 | 26.0 | 4.0 | 1.2 | 261.0 | | | 4.0 | 32 | | 0.10 |
| 09/27/85 | 76.0 | 54.0 | 8.0 | 3.0 | 366.0 | -1.0 | | 9.0 | 120 | | 0.17 |
| 03/28/86 | 76.0 | 50.0 | 7.0 | 3.0 | 388.0 | | | 9.0 | 110 | | |
| 06/12/86 | 62.0 | 26.0 | 4.2 | 1.6 | 263.0 | | | 4.5 | 46 | | 0.11 |
| 10/13/86 | 80.0 | 60.8 | 8.7 | 4.7 | 354.0 | -1.0 | | 13.1 | 160 | | 0.18 |
| 05/23/87 | 60.0 | 31.0 | 4.0 | 1.0 | 281.0 | | | 5.0 | 37 | | 0.11 |
| 09/22/87 | 98.0 | 63.0 | 7.0 | 3.0 | 337.0 | | | 9.0 | 163 | | 0.14 |
| 06/01/88 | 58.0 | 30.0 | 4.0 | 2.0 | 246.0 | | | 4.0 | 47 | | 0.11 |
| 09/30/88 | 78.0 | 67.0 | 8.0 | 3.0 | 329.0 | | | 10.0 | 163 | | 0.16 |
| 06/06/89 | 77.0 | 62.0 | 6.0 | 3.0 | 332.0 | | | 9.0 | 156 | | 0.12 |
| 09/15/89 | 73.0 | 59.0 | 7.0 | 3.0 | 351.0 | | | 6.0 | 165 | | 0.15 |
| 06/02/90 | 7.0 | 8.0 | 196.0 | 34.0 | 393.0 | 4.0 | | 16.0 | 123 | | 12.01 |
| 09/24/90 | 99.0 | 65.0 | 7.0 | 3.0 | 388.0 | | | 10.0 | 185 | | 0.13 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: ST2 STATION NAME: S FK RT FK MILLER CRK (ST-2) TYPE: STREAM DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/04/83 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | 4.8 | |
| 10/25/84 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/27/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 10/13/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/22/87 | | | | | | -20.0 | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: ST2 STATION NAME: S FK RT FK MILLER CRK (ST-2) TYPE: STREAM DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 01/27/81 | | 113 | | | | | | | | |
| 04/27/81 | | -1 | | | | | | | | |
| 06/22/82 | | 210 | | | | | | | | |
| 06/29/83 | | -50 | -10 | | | | | | | |
| 10/04/83 | | -50 | -10 | | | | | | | |
| 06/21/84 | | -50 | -10 | | | | | | | |
| 10/25/84 | | -50 | -10 | | | | | | | |
| 03/31/85 | | -50 | -10 | | | | | | | |
| 06/13/85 | | -50 | -10 | | | | | | | |
| 09/27/85 | | -50 | -10 | | | | | | | |
| 03/28/86 | | -50 | -10 | | | | | | | |
| 06/12/86 | | 80 | -10 | | | | | | | |
| 10/13/86 | | -50 | -10 | | | | | | | |
| 05/23/87 | | 50 | -10 | | | | | | | |
| 09/22/87 | | -20 | -10 | | -50 | | -50 | | | |
| 06/01/88 | | -20 | | | | | | | | |
| 09/30/88 | | -20 | | | | | | | | |
| 06/06/89 | | -20 | -10 | | | | | | | |
| 09/15/89 | | -20 | -10 | | | | | | | |
| 06/02/90 | | -20 | -10 | | | | | | | |
| 09/24/90 | | -20 | -10 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: ST2 STATION NAME: S FK RT FK MILLER CRK (ST-2) TYPE: STREAM DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 01/27/81 | | 249 | 15 | | | | | | | |
| 04/27/81 | | 1750 | -1 | | | | | | | |
| 06/22/82 | | 430 | 3 | | | | | | | |
| 06/29/83 | | 220 | 20 | | | | | | | |
| 10/04/83 | -20 | -50 | -10 | 23 | | 120 | | -40 | | |
| 06/21/84 | | 100 | -10 | | | | | | | |
| 10/25/84 | -20 | 60 | -10 | -5 | | 290 | | -40 | | |
| 03/31/85 | | 290 | 30 | | | | | | | |
| 06/13/85 | | 150 | 20 | | | | | | | |
| 09/27/85 | -20 | -50 | 10 | -5 | | 120 | | -40 | | |
| 03/28/86 | | 60 | 10 | | | | | | | |
| 06/12/86 | | 140 | 20 | | | | | | | |
| 10/13/86 | -20 | -50 | -10 | 8 | | 60 | | -40 | | |
| 05/23/87 | | 1010 | 30 | | | | | | | |
| 09/22/87 | | 50 | -10 | -10 | | | | | | |
| 06/01/88 | | 260 | 10 | | | | | | | |
| 09/30/88 | | 30 | 10 | | | | | | | |
| 06/06/89 | | 40 | -10 | | | | | | | |
| 09/15/89 | | 60 | 10 | | | | | | | |
| 06/02/90 | | 90 | -10 | | | | | | | |
| 09/24/90 | | 80 | 10 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: ST2 STATION NAME: S FK RT FK MILLER CRK (ST-2) TYPE: STREAM DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 01/27/81 | | | -0.010 | | | | | | | -0.01 |
| 04/27/81 | | | -0.010 | | | | | | | 1.20 |
| 10/04/83 | | | 0.210 | | | | | 0.140 | | 0.70 |
| 10/25/84 | | | -0.010 | | | | | 0.070 | | -0.05 |
| 03/31/85 | | | | | | | | | | -0.50 |
| 09/27/85 | | | 0.060 | | | | | 0.080 | | 0.60 |
| 03/28/86 | | | | | | | | | | -0.50 |
| 06/12/86 | | | | | | | | | | -0.50 |
| 10/13/86 | | | 0.140 | | | | | 0.070 | | -0.50 |
| 05/23/87 | | | | | | | | | | -1.00 |
| 09/22/87 | | | -0.020 | | -0.020 | | | | | -1.00 |
| 06/01/88 | | | | | | | | | | -1.00 |
| 09/30/88 | | | | | | | | | | -1.00 |
| 06/06/89 | | | | | | | | | | -1.00 |
| 09/15/89 | | | | | | | | | | -1.00 |
| 06/02/90 | | | | | | | | | | -1.00 |
| 09/24/90 | | | | | | | | | | -1.00 |

WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: ST2 STATION NAME: S FK RT FK MILLER CRK (ST-2) TYPE: STREAM DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 09/27/85 | | | | | | | 0.10 | | | | |
| 10/13/86 | | | | | | | 0.15 | | | | |
| 09/22/87 | | | | -0.20 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: NSMUD NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATUM ELEV.: 8588.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/06/83 | 10:00 | | | | | | |
| 06/07/83 | 10:15 | | | | | | |
| 06/23/83 | 10:00 | | | | | | |
| 06/27/83 | 10:15 | | | | | | |
| 05/22/84 | 9:00 | | | | | | |
| 05/30/84 | 9:00 | | | | | | |
| 06/05/84 | : | | | | | | |
| 08/21/84 | 9:00 | | | | | | |
| 08/28/84 | 9:00 | | | | | | |
| 10/10/84 | : | | | | | | |
| 10/18/84 | : | | | | | | |
| 03/13/85 | : | | | | | | |
| 03/22/85 | : | | | | | | |
| 03/26/85 | : | | | | | | |
| 04/02/85 | : | | | | | | |
| 04/11/85 | : | | | | | | |
| 05/01/85 | : | | | | | | |
| 05/07/85 | : | | | | | | |
| 05/23/85 | : | | | | | | |
| 05/31/85 | : | | | | | | |
| 06/07/85 | : | | | | | | |
| 06/27/85 | : | | | | | | |
| 07/24/85 | : | | | | | | |
| 08/21/85 | 5:22 | | | | | | |
| 08/23/85 | 12:00 | | | | | | |
| 10/31/85 | : | | | | | | |
| 01/22/86 | : | | | | 0.4460 | CFS | |
| 03/27/86 | : | | | | 0.4460 | CFS | |
| 04/30/86 | : | | | | 0.4460 | CFS | |
| 05/27/86 | : | | | | 0.4460 | CFS | |
| 08/07/86 | : | | | | 1.1138 | CFS | |
| 10/13/86 | : | | | | 0.4460 | CFS | |
| 12/10/86 | : | | | | 0.4460 | CFS | |
| 12/18/86 | : | | | | 0.4460 | CFS | |
| 01/29/87 | : | | | | 0.4460 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0

NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

NO.: NSMUD NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATUM ELEV.: 8588.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 02/24/87 | : | | | | 0.4460 | CFS | |
| 03/18/87 | : | | | | 0.4460 | CFS | |
| 04/30/87 | : | | | | 0.4460 | CFS | |
| 05/19/87 | 10:13 | | | | 0.4460 | CFS | |
| 06/08/87 | : | | | | 0.4460 | CFS | |
| 07/28/87 | 10:00 | | | | 0.4460 | CFS | |
| 08/12/87 | 10:00 | | | | 0.4460 | CFS | |
| 09/25/87 | 14:00 | | | | 0.4460 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: NSMUD STATION NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/06/83 | | | | | 7.70 | | 592.0 | 19.0 | -0.1 | | | |
| 06/07/83 | | | | | 7.45 | | 569.0 | 1.0 | -0.5 | | | |
| 06/23/83 | | | | | 8.10 | | 490.0 | 3.0 | | | | |
| 06/27/83 | | | | | 8.15 | | 613.0 | 0.1 | | | | |
| 05/22/84 | | | | | 7.25 | | 447.0 | 8.5 | | | | |
| 05/30/84 | | | | | 7.45 | | 372.0 | 5.5 | | | | |
| 06/05/84 | | | | | 7.75 | | 366.0 | 3.0 | | | | |
| 08/21/84 | | | | | 8.00 | | 639.0 | 8.0 | | | | |
| 08/28/84 | | | | | 7.80 | | 634.0 | -0.5 | | | | |
| 10/10/84 | | | | | 7.70 | | 630.0 | 1.0 | | | | |
| 10/18/84 | | | | | 7.85 | | 582.0 | 2.0 | | | | |
| 03/13/85 | | | | | 7.05 | | 718.0 | 1.0 | | | | |
| 03/22/85 | | | | | 7.75 | | 686.0 | 5.0 | | | | |
| 03/26/85 | | | | | 7.15 | | 647.0 | 1.0 | | | | |
| 04/02/85 | | | | | 7.65 | | 669.0 | 3.0 | | | | |
| 04/11/85 | | | | | 7.65 | | 656.0 | 2.0 | | | | |
| 05/01/85 | | | | | 7.85 | | 647.0 | 1.0 | | | | |
| 05/07/85 | | | | | 7.80 | | 667.0 | 1.0 | | | | |
| 05/23/85 | | | | | 7.40 | | 598.0 | 4.0 | | | | |
| 05/31/85 | | | | | 7.85 | | 635.0 | 2.0 | | | | |
| 06/07/85 | | | | | 7.30 | | 646.0 | 6.0 | | | | |
| 06/27/85 | | | | | 7.40 | | 728.0 | 4.0 | | | | |
| 07/24/85 | | | | | 7.25 | | 742.0 | 10.0 | | | | |
| 08/21/85 | | | | | | | | 1.0 | | | | |
| 08/23/85 | | | | | 7.05 | | 738.0 | 6.0 | | | | |
| 10/31/85 | | | | | 7.10 | | 772.0 | 4.0 | | | | |
| 01/22/86 | | | | | 7.60 | | 785.0 | 4.0 | | | | |
| 03/27/86 | | | | | 7.10 | | 977.0 | 4.0 | | | | |
| 04/30/86 | | | | | 7.30 | | 891.0 | 3.0 | | | | |
| 05/27/86 | | | | | 7.30 | | 663.0 | | | | | |
| 08/07/86 | | | | | 7.50 | | 837.0 | -0.5 | | | | |
| 10/13/86 | | | | | 6.95 | | 1053.0 | -0.5 | | | | |
| 12/10/86 | | | | | 7.79 | | 1108.0 | -5.0 | | | | |
| 12/18/86 | | | | | 7.62 | | 1140.0 | -5.0 | | | | |
| 01/29/87 | | | | | 7.45 | | 1144.0 | -2.0 | | | | |
| 02/24/87 | | | | | 7.50 | | 1056.0 | -5.0 | | | | |
| 03/18/87 | | | 1450.0 | | 7.78 | | 977.0 | | | | 264.0 | |
| 04/30/87 | | | | | 7.67 | | 1128.0 | | | | | |
| 05/19/87 | | | | | 7.40 | | 1330.0 | 4.0 | | | | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: NSMUD STATION NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/08/87 | | | | | 7.40 | | 1194.0 | 2.0 | | | | |
| 07/28/87 | | | | | 7.60 | | 1122.0 | 6.0 | | | | |
| 08/12/87 | | | | | 7.30 | | 1192.0 | -2.0 | | | | |
| 09/25/87 | | | | | 7.80 | | 1058.0 | 8.0 | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: NSMUD STATION NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/18/87 | 147.0 | 109.0 | 7.0 | 10.0 | 322.0 | | | 6.0 | 540 | | 0.11 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: NSMUD STATION NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 03/18/87 | -2.0 | -100 | -2.0 | -50.0 | | -50.0 | -0.50 | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSMUD STATION NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 01/22/86 | | | -10 | | | | | | | |
| 03/27/86 | | | -10 | | | | | | | |
| 08/07/86 | | | -10 | | | | | | | |
| 10/13/86 | | | -10 | | | | | | | |
| 03/18/87 | | 90 | -10 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSMUD STATION NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/06/83 | | 120 | | | | | | | | |
| 06/07/83 | | 410 | | | | | | | | |
| 06/23/83 | | 820 | | | | | | | | |
| 06/27/83 | | 150 | | | | | | | | |
| 05/22/84 | | 280 | 20 | | | | | | | |
| 05/30/84 | | 370 | -10 | | | | | | | |
| 06/05/84 | | 140 | -10 | | | | | | | |
| 08/21/84 | | -50 | -10 | | | | | | | |
| 08/28/84 | | 60 | -10 | | | | | | | |
| 10/10/84 | | 140 | -10 | | | | | | | |
| 10/18/84 | | 130 | -10 | | | | | | | |
| 03/13/85 | | 180 | 20 | | | | | | | |
| 03/22/85 | | 60 | 10 | | | | | | | |
| 03/26/85 | | 90 | 20 | | | | | | | |
| 04/02/85 | | 120 | 20 | | | | | | | |
| 04/11/85 | | 150 | -10 | | | | | | | |
| 05/01/85 | | 110 | -10 | | | | | | | |
| 05/07/85 | | 200 | -10 | | | | | | | |
| 05/23/85 | | 180 | 20 | | | | | | | |
| 05/31/85 | | 100 | -10 | | | | | | | |
| 06/07/85 | | 170 | 10 | | | | | | | |
| 06/27/85 | | 320 | 30 | | | | | | | |
| 07/24/85 | | 260 | -10 | | | | | | | |
| 08/23/85 | | 80 | -10 | | | | | | | |
| 10/31/85 | | 60 | -10 | | | | | | | |
| 01/22/86 | | 50 | 10 | | | | | | | |
| 03/27/86 | | -50 | 10 | | | | | | | |
| 04/30/86 | | -50 | | | | | | | | |
| 05/27/86 | | 50 | | | | | | | | |
| 08/07/86 | | -50 | -10 | | | | | | | |
| 10/13/86 | | -50 | -10 | | | | | | | |
| 12/10/86 | | 60 | | | | | | | | |
| 12/18/86 | | 100 | | | | | | | | |
| 01/29/87 | | 120 | | | | | | | | |
| 02/24/87 | | 100 | | | | | | | | |
| 03/18/87 | | 220 | 10 | | | | | | | |
| 04/30/87 | | -50 | | | | | | | | |
| 05/19/87 | | 50 | | | | | | | | |
| 06/08/87 | | 30 | | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSMUD STATION NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 07/28/87 | | -20 | | | | | | | | |
| 08/12/87 | | 30 | | | | | | | | |
| 09/25/87 | | 130 | | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: NSMUD STATION NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 06/06/83 | | | | | | | | | | -0.50 |
| 06/07/83 | | | | | | | | | | -0.50 |
| 06/23/83 | | | | | | | | | | -0.50 |
| 06/27/83 | | | | | | | | | | -0.50 |
| 05/22/84 | | | | | | | | | | -0.50 |
| 05/30/84 | | | | | | | | | | 0.70 |
| 06/05/84 | | | | | | | | | | -0.50 |
| 08/21/84 | | | | | | | | | | -0.50 |
| 08/28/84 | | | | | | | | | | -0.50 |
| 10/10/84 | | | | | | | | | | -0.50 |
| 10/18/84 | | | | | | | | | | -0.50 |
| 03/13/85 | | | | | | | | | | -0.50 |
| 03/22/85 | | | | | | | | | | -0.50 |
| 03/26/85 | | | | | | | | | | -0.05 |
| 04/02/85 | | | | | | | | | | -0.50 |
| 04/11/85 | | | | | | | | | | -0.50 |
| 05/01/85 | | | | | | | | | | -0.50 |
| 05/07/85 | | | | | | | | | | -0.50 |
| 05/23/85 | | | | | | | | | | -0.50 |
| 05/31/85 | | | | | | | | | | 0.50 |
| 06/07/85 | | | | | | | | | | -0.50 |
| 06/27/85 | | | | | | | | | | 3.90 |
| 07/24/85 | | | | | | | | | | 1.70 |
| 08/23/85 | | | | | | | | | | -0.50 |
| 10/31/85 | | | | | | | | | | -0.50 |
| 01/22/86 | | | | | | | | | | -0.50 |
| 03/27/86 | | | | | | | | | | -0.50 |
| 04/30/86 | | | | | | | | | | 0.90 |
| 05/27/86 | | | | | | | | | | -0.50 |
| 08/07/86 | | | | | | | | | | -0.50 |
| 10/13/86 | | | | | | | | | | 0.60 |
| 12/10/86 | | | | | | | | | | -2.00 |
| 12/18/86 | | | | | | | | | | -2.00 |
| 01/29/87 | | | | | | | | | | -2.00 |
| 02/24/87 | | | | | | | | | | -2.00 |
| 03/18/87 | | | | | | | | | | -2.00 |
| 04/30/87 | | | | | | | | | | -2.00 |
| 05/19/87 | | | | | | | | | | -1.00 |
| 06/08/87 | | | | | | | | | | -1.00 |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: NSMUD STATION NAME: MUDWATER DISCHARGE (001) TYPE: MINE DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 07/28/87 | | | | | | | | | | -1.00 |
| 08/12/87 | | | | | | | | | | -1.00 |
| 09/25/87 | | | | | | | | | | -1.00 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: 1W4 NAME: 1ST WEST NO 4 TYPE: MINE DATUM ELEV.: 8595.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 06/17/85 | : | | | | 0.0320 | CFS | |
| 07/25/85 | : | | | | 0.0190 | CFS | |
| 10/29/85 | : | | | | 0.0100 | CFS | |
| 03/19/86 | : | | | | 0.0001 | CFS | |
| 06/18/86 | : | | | | 0.0060 | CFS | |
| 09/16/86 | : | 7.7 | | | 0.0062 | CFS | |
| 12/18/86 | : | | | | 0.0038 | CFS | |
| 03/18/87 | : | | | | 0.0021 | CFS | |
| 06/08/87 | 9:10 | 11.0 | | | 0.0060 | CFS | |
| 09/25/87 | 9:00 | 11.0 | | | 0.0030 | CFS | |
| 12/16/87 | 9:30 | | | | 0.0040 | CFS | |
| 03/23/88 | 9:30 | 4.0 | | | 0.0010 | CFS | |
| 04/15/88 | 9:30 | | | | 0.0030 | CFS | |
| 07/27/88 | 8:40 | | | | 0.0080 | CFS | |
| 10/27/88 | 9:00 | | | | 0.0050 | CFS | |
| 01/25/89 | 8:00 | | | | 0.0070 | CFS | |
| 04/28/89 | 8:30 | | | | 0.0080 | CFS | |
| 07/12/89 | 9:50 | | | | 0.0010 | CFS | |
| 10/25/89 | 9:00 | | | | 0.0010 | CFS | |
| 01/16/90 | 8:55 | | | | 0.0010 | CFS | |
| 04/18/90 | 9:30 | | | | 0.0010 | CFS | |
| 07/02/90 | 9:55 | | | | 0.0010 | CFS | |
| 10/24/90 | 10:00 | | | | 0.0010 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 1W4 STATION NAME: 1ST WEST NO 4 TYPE: MINE DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/17/85 | | | | | | | 782.0 | | | | | |
| 07/25/85 | | | | | | | 860.0 | | | | | |
| 10/29/85 | | | 1200.0 | | 7.90 | | 848.0 | 13.0 | | | 274.0 | |
| 03/19/86 | | | 1275.0 | | 7.80 | | 847.0 | 2.0 | | | 243.0 | |
| 06/18/86 | 7.8 | | 1200.0 | | 7.20 | | 769.0 | | | | 267.0 | |
| 09/16/86 | 6.7 | | | 7.9 | 7.30 | | 810.0 | | | | 265.0 | |
| 12/18/86 | | | 1207.0 | 8.2 | 7.99 | | 884.0 | | | | 262.0 | |
| 03/18/87 | | | 1180.0 | | 8.01 | | 776.0 | | | | 250.0 | |
| 06/08/87 | 7.0 | 1200.0 | | 8.5 | | | 842.0 | | | | 250.0 | |
| 09/25/87 | 4.0 | 1350.0 | 1160.0 | 7.9 | | | 888.0 | | | 691.0 | 257.0 | |
| 12/16/87 | | | | | | | 850.0 | | | 761.0 | 248.0 | |
| 03/23/88 | 14.0 | 940.0 | | 8.3 | | | 856.0 | | | 688.0 | 250.0 | |
| 04/15/88 | 16.0 | 730.0 | | 8.4 | | | 884.0 | | | 677.0 | 231.0 | |
| 07/27/88 | 12.0 | 800.0 | | 8.2 | | | 856.0 | | | 686.0 | 190.0 | |
| 10/27/88 | 8.0 | 550.0 | | 8.6 | | | 902.0 | | | 776.0 | 238.0 | |
| 01/25/89 | 10.0 | 850.0 | | 8.8 | | | 904.0 | | | 722.0 | 229.0 | |
| 04/28/89 | 6.0 | 780.0 | 1210.0 | 7.5 | | | 914.0 | | | 724.0 | 244.0 | |
| 07/12/89 | 10.0 | 1150.0 | | 8.0 | | | 946.0 | | | 718.0 | 234.0 | |
| 10/25/89 | 8.0 | 1180.0 | | 8.1 | | | 938.0 | | | 915.0 | 494.0 | |
| 01/16/90 | 7.0 | 1040.0 | | 7.7 | | | 926.0 | | | 808.0 | 256.0 | |
| 04/18/90 | 8.0 | 1310.0 | | 8.1 | | | 918.0 | | | 767.0 | 236.0 | |
| 07/02/90 | 8.0 | 1260.0 | | 8.0 | | | | | | 777.0 | 247.0 | |
| 10/24/90 | 8.0 | 1050.0 | | 8.1 | | | 984.0 | | | 752.0 | 235.0 | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 1W4 STATION NAME: 1ST WEST NO 4 TYPE: MINE DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/29/85 | 130.0 | 92.0 | 4.0 | 5.0 | 334.0 | -1.0 | | 7.0 | 410 | | 0.07 |
| 03/19/86 | 130.0 | 96.0 | 6.0 | 5.0 | 296.0 | | | 7.0 | 460 | | 0.10 |
| 06/18/86 | 124.0 | 86.0 | 5.4 | 5.2 | 326.0 | | | 8.0 | 380 | | 0.09 |
| 09/16/86 | 134.0 | 88.0 | 5.0 | 5.0 | 323.0 | -1.0 | | 9.4 | 410 | | 0.08 |
| 12/18/86 | 130.0 | 90.0 | 5.6 | 6.0 | 320.0 | | | 8.0 | 432 | | 0.09 |
| 03/18/87 | 118.0 | 92.0 | 5.0 | 4.0 | 305.0 | | | 7.3 | 400 | | 0.08 |
| 06/08/87 | 123.0 | 102.0 | 5.0 | 6.0 | 305.0 | | | 10.0 | 436 | | 0.08 |
| 09/25/87 | 109.0 | 102.0 | 7.0 | 4.0 | 314.0 | | | 9.0 | 461 | | 0.12 |
| 12/16/87 | 132.0 | 105.0 | 4.0 | 4.0 | 303.0 | | | 13.0 | 449 | | 0.06 |
| 03/23/88 | 108.0 | 102.0 | 5.0 | 4.0 | 305.0 | | | 8.0 | 459 | | 0.08 |
| 04/15/88 | 128.0 | 87.0 | 6.0 | 6.0 | 282.0 | | | 9.0 | 449 | | 0.10 |
| 07/27/88 | 107.0 | 102.0 | 6.0 | 4.0 | 431.0 | | | 9.0 | 463 | | 0.10 |
| 10/27/88 | 135.0 | 107.0 | 4.0 | 5.0 | 290.0 | | | 9.0 | 498 | | 0.06 |
| 01/25/89 | 120.0 | 103.0 | 6.0 | 6.0 | 279.0 | | | 8.0 | 471 | | 0.10 |
| 04/28/89 | 111.0 | 109.0 | 5.0 | 5.0 | 298.0 | | | 8.0 | 502 | | 0.08 |
| 07/12/89 | 115.0 | 105.0 | 5.0 | 6.0 | 285.0 | | | 8.0 | 510 | | 0.08 |
| 10/25/89 | 189.0 | 108.0 | 39.0 | 4.0 | 603.0 | | | 8.0 | 490 | | 0.56 |
| 01/16/90 | 141.0 | 111.0 | 6.0 | 5.0 | 312.0 | | | 9.0 | 488 | | 0.09 |
| 04/18/90 | 156.0 | 92.0 | 6.0 | 5.0 | 288.0 | | | 9.0 | 502 | | 0.09 |
| 07/02/90 | 145.0 | 101.0 | 5.0 | 5.0 | 301.0 | | | 8.0 | 512 | | 0.08 |
| 10/24/90 | 140.0 | 98.0 | 6.0 | 5.0 | 287.0 | | | 8.0 | 471 | | 0.10 |

WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 1W4 STATION NAME: 1ST WEST NO 4 TYPE: MINE DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 10/29/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/16/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/25/87 | | | | | | -20.0 | | | |
| 12/16/87 | | | | | | 20.0 | | | |
| 04/15/88 | | | | | | -20.0 | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 1W4 STATION NAME: 1ST WEST NO 4 TYPE: MINE DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/29/85 | | -50 | -10 | | | | | | | |
| 03/19/86 | | -50 | -10 | | | | | | | |
| 06/18/86 | | -50 | -10 | | | | | | | |
| 09/16/86 | | -50 | -10 | | | | | | | |
| 12/18/86 | | -50 | -10 | | | | | | | |
| 03/18/87 | | 100 | -10 | | | | | | | |
| 06/08/87 | | 40 | -10 | | | | | | | |
| 09/25/87 | | -20 | -10 | | -50 | | -50 | | | |
| 12/16/87 | | -20 | -10 | | -50 | | -50 | | | |
| 03/23/88 | | -20 | -10 | | | | | | | |
| 04/15/88 | | -20 | -10 | | -50 | | -50 | | | |
| 07/27/88 | | -20 | | | | | | | | |
| 10/27/88 | | -20 | | | | | | | | |
| 01/25/89 | | -20 | | | | | | | | |
| 04/28/89 | | -20 | | | | | | | | |
| 07/12/89 | | -20 | -10 | | | | | | | |
| 10/25/89 | | -20 | -10 | | | | | | | |
| 01/16/90 | | -20 | -10 | | | | | | | |
| 04/18/90 | | -20 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 10/24/90 | | -20 | -10 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 1W4 STATION NAME: 1ST WEST NO 4 TYPE: MINE DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/29/85 | -20 | 140 | 20 | 25 | | 340 | | 70 | | |
| 03/19/86 | | 80 | 10 | | | | | | | |
| 06/18/86 | | 80 | 20 | | | | | | | |
| 09/16/86 | -20 | 110 | 30 | -5 | | 200 | | -40 | | |
| 12/18/86 | | -50 | -10 | | | | | | | |
| 03/18/87 | | 1370 | 10 | | | | | | | |
| 06/08/87 | | 40 | -10 | | | | | | | |
| 09/25/87 | | 50 | 10 | 70 | | | | | | |
| 12/16/87 | | 130 | -10 | -10 | | | | | | |
| 03/23/88 | | 700 | 10 | | | | | | | |
| 04/15/88 | | 60 | -10 | -10 | | | | | | |
| 07/27/88 | | -20 | 10 | | | | | | | |
| 10/27/88 | | -20 | -10 | | | | | | | |
| 01/25/89 | | 50 | -10 | | | | | | | |
| 04/28/89 | | 410 | -10 | | | | | | | |
| 07/12/89 | | 110 | 10 | | | | | | | |
| 10/25/89 | | -20 | -10 | | | | | | | |
| 01/16/90 | | 20 | -10 | | | | | | | |
| 04/18/90 | | 20 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 10/24/90 | | 60 | -10 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 1W4 STATION NAME: 1ST WEST NO 4 TYPE: MINE DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/29/85 | | | 0.030 | | | | | 0.060 | | -0.05 |
| 03/19/86 | | | | | | | | | | -0.50 |
| 06/18/86 | | | | | | | | | | -0.50 |
| 09/16/86 | | | 0.030 | | | | | 0.040 | | 2.00 |
| 12/18/86 | | | | | | | | | | -2.00 |
| 03/18/87 | | | | | | | | | | -2.00 |
| 09/25/87 | | | 0.280 | | 0.280 | | | | | |
| 12/16/87 | | | 0.030 | | 0.030 | | | | | |
| 04/15/88 | | | -0.010 | | -0.020 | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 1W4 STATION NAME: 1ST WEST NO 4 TYPE: MINE DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML |
| 10/29/85 | | | | | | | -0.05 | | | | |
| 09/16/86 | | | | | | | 0.06 | | | | |
| 09/25/87 | | | | -0.10 | | | | | | | |
| 12/16/87 | | | | -0.20 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PRIMARY METALS

NO.: 1WN6 STATION NAME: 1ST WEST NORTH NO 6 TYPE: MINE DATE: 03/02/91

| DATE | ARSENIC TOTAL UG/L | BARIUM TOTAL UG/L | CADMIUM TOTAL UG/L | CR-TOT TOTAL UG/L | CR-HEX TOTAL UG/L | LEAD TOTAL UG/L | MERCURY TOTAL UG/L | SELENM TOTAL UG/L | SILVER TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|
| 08/29/85 | -1.0 | -100 | -5.0 | -500.0 | | -50.0 | -0.20 | -5.0 | |
| 10/29/85 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/16/86 | -1.0 | -100 | -5.0 | -50.0 | | -50.0 | -0.20 | -5.0 | |
| 09/25/87 | | | | | | -20.0 | | | |
| 12/16/87 | | | | | | 20.0 | | | |
| 04/15/88 | | | | | | -20.0 | | | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 1WN6 STATION NAME: 1ST WEST NORTH NO 6 TYPE: MINE DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/29/85 | | -50 | -10 | | | | | | | |
| 10/29/85 | | -50 | -10 | | | | | | | |
| 03/19/86 | | -50 | -10 | | | | | | | |
| 06/18/86 | | -50 | -10 | | | | | | | |
| 09/16/86 | | -50 | -10 | | | | | | | |
| 12/18/86 | | -50 | -10 | | | | | | | |
| 03/18/87 | | 160 | 10 | | | | | | | |
| 06/08/87 | | 570 | 20 | | | | | | | |
| 09/25/87 | | -20 | -10 | | -50 | | -50 | | | |
| 12/16/87 | | -20 | -10 | | -50 | | -50 | | | |
| 03/23/88 | | -20 | -10 | | | | | | | |
| 04/15/88 | | 30 | -10 | | -50 | | -50 | | | |
| 07/27/88 | | 310 | | | | | | | | |
| 10/27/88 | | 170 | | | | | | | | |
| 01/25/89 | | 40 | | | | | | | | |
| 04/28/89 | | -20 | | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 1WN6 STATION NAME: 1ST WEST NORTH NO 6 TYPE: MINE DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/29/85 | | | -0.010 | | | | | 0.040 | | -0.50 |
| 10/29/85 | | | 0.020 | | | | | 0.100 | | -0.50 |
| 03/19/86 | | | | | | | | | | 0.80 |
| 06/18/86 | | | | | | | | | | 0.90 |
| 09/16/86 | | | 0.030 | | | | | 0.040 | | 2.20 |
| 12/18/86 | | | | | | | | | | -2.00 |
| 03/18/87 | | | | | | | | | | -2.00 |
| 09/25/87 | | | 0.030 | | 0.030 | | | | | |
| 12/16/87 | | | 0.120 | | 0.120 | | | | | |
| 04/15/88 | | | 0.070 | | 0.060 | | | | | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: 9L12 STATION NAME: 9TH LEFT NO 12 TYPE: MINE DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/22/85 | | | | | | | 743.0 | | | | | |
| 04/22/85 | | | | | | | 717.0 | | | | | |
| 05/24/85 | | | | | | | 764.0 | | | | | |
| 06/17/85 | | | | | | | 773.0 | | | | | |
| 08/29/85 | | | 1205.0 | | 8.00 | | 802.0 | 2.0 | | | 322.0 | |
| 10/31/85 | | | 1200.0 | | 6.90 | | 868.0 | 3.0 | | | 352.0 | |
| 03/19/86 | | | 1650.0 | | 7.20 | | 1114.0 | -0.5 | | | 348.0 | |
| 06/18/86 | 8.9 | | 1600.0 | | 7.15 | | 1055.0 | | | | 449.0 | |
| 09/16/86 | 7.8 | 1400.0 | | 7.1 | 7.20 | | 1174.0 | | | | 452.0 | |
| 12/18/86 | | | 1840.0 | 7.3 | 7.19 | | 1492.0 | | | | 438.0 | |
| 03/18/87 | | | 1700.0 | | 7.30 | | 1274.0 | | | | 450.0 | |
| 06/08/87 | 7.0 | 1600.0 | | 7.7 | | | 1250.0 | | | | 480.0 | |
| 09/25/87 | 4.0 | 1700.0 | 1510.0 | 7.1 | | | 1134.0 | | | 918.0 | 402.0 | |
| 12/16/87 | | | | | | | 1232.0 | | | 1057.0 | 418.0 | |
| 03/23/88 | 15.0 | 1320.0 | | 7.6 | | | 1210.0 | | | 915.0 | 427.0 | |
| 04/15/88 | 16.0 | 1050.0 | | 7.5 | | | 1250.0 | | | 980.0 | 412.0 | |
| 07/27/88 | 11.0 | 1100.0 | | 7.4 | | | 1196.0 | | | 1025.0 | 357.0 | |
| 10/27/88 | 9.5 | 1030.0 | | 7.5 | | | 1172.0 | | | 1022.0 | 310.0 | |
| 01/25/89 | 10.0 | 1050.0 | | 7.4 | | | 1144.0 | | | 1000.0 | 292.0 | |
| 04/28/89 | 6.0 | 1010.0 | 1480.0 | 7.5 | | | 1182.0 | | | 987.0 | 266.0 | |
| 07/12/89 | 9.0 | 1430.0 | | 7.6 | | | 1230.0 | | | 906.0 | 262.0 | |
| 10/25/89 | 9.0 | 1540.0 | 1540.0 | 7.6 | | | 1230.0 | | | 887.0 | 262.0 | |
| 01/16/90 | 9.0 | 1340.0 | | 7.3 | | | 1254.0 | | | 1008.0 | 294.0 | |
| 04/18/90 | 9.0 | 1890.0 | | 7.8 | | | 1232.0 | | | 972.0 | 262.0 | |
| 07/02/90 | 9.0 | 1530.0 | | 7.7 | | | 1326.0 | | | 988.0 | 300.0 | |
| 10/24/90 | 7.0 | 1330.0 | | 7.8 | | | 1346.0 | | | 984.0 | 267.0 | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - CATIONS, ANIONS AND FLUORIDE

NO.: 9L12 STATION NAME: 9TH LEFT NO 12 TYPE: MINE DATE: 03/02/91

| DATE | CALCIUM MG/L | MAGNESM MG/L | SODIUM MG/L | POTASS MG/L | BICARB HCO3 MG/L | CARBONT CO3 MG/L | HYDROX OH MG/L | CHLORIDE MG/L | SULFATE MG/L | FLUOR MG/L | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 08/29/85 | 112.0 | 72.0 | 7.0 | 7.0 | 392.0 | -1.0 | | 5.0 | 355 | | 0.13 |
| 10/31/85 | 162.0 | 76.0 | 7.0 | 13.0 | 429.0 | -1.0 | | 39.0 | 340 | | 0.11 |
| 03/19/86 | 206.0 | 101.0 | 10.0 | 14.0 | 424.0 | | | 6.0 | 600 | | 0.14 |
| 06/18/86 | 198.0 | 100.0 | 9.0 | 13.4 | 548.0 | | | 5.0 | 460 | | 0.13 |
| 09/16/86 | 174.0 | 130.0 | 9.0 | 14.0 | 551.0 | -1.0 | | 6.0 | 570 | | 0.13 |
| 12/18/86 | 260.0 | 125.2 | 9.4 | 15.3 | 534.0 | | | 5.3 | 656 | | 0.12 |
| 03/18/87 | 239.0 | 118.0 | 9.0 | 13.0 | 549.0 | | | 4.9 | 620 | | 0.12 |
| 06/08/87 | 274.0 | 127.0 | 7.0 | 14.0 | 586.0 | | | 7.0 | 617 | | 0.09 |
| 09/25/87 | 200.0 | 102.0 | 9.0 | 12.0 | 490.0 | | | 5.0 | 566 | | 0.12 |
| 12/16/87 | 231.0 | 117.0 | 6.0 | 11.0 | 510.0 | | | 10.0 | 607 | | 0.08 |
| 03/23/88 | 197.0 | 103.0 | 6.0 | 12.0 | 521.0 | | | 5.0 | 587 | | 0.09 |
| 04/15/88 | 223.0 | 103.0 | 7.0 | 14.0 | 503.0 | | | 5.0 | 582 | | 0.10 |
| 07/27/88 | 223.0 | 114.0 | 7.0 | 10.0 | 436.0 | | | 6.0 | 587 | | 0.10 |
| 10/27/88 | 217.0 | 117.0 | 6.0 | 13.0 | 378.0 | | | 5.0 | 626 | | 0.08 |
| 01/25/89 | 205.0 | 119.0 | 7.0 | 13.0 | 356.0 | | | 5.0 | 624 | | 0.10 |
| 04/28/89 | 193.0 | 123.0 | 2.0 | 10.0 | 325.0 | | | 5.0 | 673 | | 0.03 |
| 07/12/89 | 177.0 | 113.0 | 6.0 | 12.0 | 320.0 | | | 2.0 | 696 | | 0.09 |
| 10/25/89 | 186.0 | 103.0 | 24.0 | 9.0 | 320.0 | | | 5.0 | 683 | | 0.35 |
| 01/16/90 | 259.0 | 88.0 | 7.0 | 14.0 | 359.0 | | | 5.0 | 679 | | 0.10 |
| 04/18/90 | 205.0 | 112.0 | 7.0 | 12.0 | 320.0 | | | 5.0 | 724 | | 0.10 |
| 07/02/90 | 218.0 | 108.0 | 6.0 | 11.0 | 366.0 | | | 4.0 | 724 | | 0.08 |
| 10/24/90 | 205.0 | 115.0 | 7.0 | 10.0 | 326.0 | | | 4.0 | 768 | | 0.10 |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 9L12 STATION NAME: 9TH LEFT NO 12 TYPE: MINE DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/29/85 | | -50 | -10 | | | | | | | |
| 10/31/85 | | -50 | -10 | | | | | | | |
| 03/19/86 | | -50 | -10 | | | | | | | |
| 06/18/86 | | -50 | -10 | | | | | | | |
| 09/16/86 | | -50 | -10 | | | | | | | |
| 12/18/86 | | -50 | -10 | | | | | | | |
| 03/18/87 | | -50 | 10 | | | | | | | |
| 06/08/87 | | -20 | -10 | | | | | | | |
| 09/25/87 | | 20 | -10 | | -50 | | -50 | | | |
| 12/16/87 | | -20 | -10 | | -50 | | -50 | | | |
| 03/23/88 | | -20 | -10 | | | | | | | |
| 04/15/88 | | -20 | -10 | | -50 | | -50 | | | |
| 07/27/88 | | -20 | | | | | | | | |
| 10/27/88 | | 20 | | | | | | | | |
| 01/25/89 | | -20 | | | | | | | | |
| 04/28/89 | | -20 | | | | | | | | |
| 07/12/89 | | 40 | -10 | | | | | | | |
| 10/25/89 | | -20 | -10 | | | | | | | |
| 01/16/90 | | -20 | -10 | | | | | | | |
| 04/18/90 | | -20 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 10/24/90 | | -20 | -10 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: 9L12 STATION NAME: 9TH LEFT NO 12 TYPE: MINE DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/29/85 | -200 | -50 | -10 | -5 | | 120 | | -40 | | |
| 10/31/85 | -20 | -50 | -10 | 48 | | 320 | | 60 | | |
| 03/19/86 | | -50 | -10 | | | | | | | |
| 06/18/86 | | -50 | 10 | | | | | | | |
| 09/16/86 | -20 | 120 | 10 | 33 | | 500 | | -40 | | |
| 12/18/86 | | 160 | 30 | | | | | | | |
| 03/18/87 | | 50 | 10 | | | | | | | |
| 06/08/87 | | -20 | -10 | | | | | | | |
| 09/25/87 | | 60 | -10 | 40 | | | | | | |
| 12/16/87 | | 20 | -10 | 30 | | | | | | |
| 03/23/88 | | -20 | -10 | | | | | | | |
| 04/15/88 | | -20 | -10 | 20 | | | | | | |
| 07/27/88 | | -20 | -10 | | | | | | | |
| 10/27/88 | | -20 | -10 | | | | | | | |
| 01/25/89 | | 30 | -10 | | | | | | | |
| 04/28/89 | | -20 | -10 | | | | | | | |
| 07/12/89 | | 330 | 10 | | | | | | | |
| 10/25/89 | | -20 | 50 | | | | | | | |
| 01/16/90 | | -20 | -10 | | | | | | | |
| 04/18/90 | | 30 | -10 | | | | | | | |
| 07/02/90 | | -20 | -10 | | | | | | | |
| 10/24/90 | | 60 | 20 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: 9L12 STATION NAME: 9TH LEFT NO 12 TYPE: MINE DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 08/29/85 | | | 0.800 | | | | | 0.020 | | -0.50 |
| 10/31/85 | | | 1.200 | | | | | 0.080 | | -0.50 |
| 06/18/86 | | | | | | | | | | -0.50 |
| 09/16/86 | | | 0.080 | | | | | 0.040 | | 1.00 |
| 12/18/86 | | | | | | | | | | -2.00 |
| 03/18/87 | | | | | | | | | | -2.00 |
| 09/25/87 | | | 1.010 | | 1.010 | | | | | |
| 12/16/87 | | | 0.900 | | 0.900 | | | | | |
| 04/15/88 | | | 0.990 | | 0.980 | | | | | |
| 01/16/90 | | | 1.090 | | 1.080 | | | | | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - MISCELLANEOUS

NO.: 9L12 STATION NAME: 9TH LEFT NO 12 TYPE: MINE DATE: 03/02/91

| DATE | TURBTY | SILICA | BROMIDE | SULPHD | COBALT TOTAL | COD | NITROGN KJELDHL | CYANDE TOTAL | TOC | XANTHT | BACTERIA COLFM | BACTERIA FECAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NTU | MG/L | MG/L | MG/L | UG/L | MG/L | MG/L-N | MG/L | MG/L | MG/L | MPN/100ML | |
| 08/29/85 | | | | | | | 1.41 | | | | | |
| 10/31/85 | | | | | | | 2.10 | | | | | |
| 09/16/86 | | | | | | | 0.11 | | | | | |
| 09/25/87 | | | | -0.10 | | | | | | | | |
| 12/16/87 | | | | -0.20 | | | | | | | | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: NSP1 NAME: TREATMENT POND 1 (002) TYPE: POND DATUM ELEV.: 8315.00 FT

| DATE | TIME | AIR TEMP. | WATER DEPTH | WATER ELEVATION | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| | HH:MM | DEG. C | FEET | FEET | | | |
| 04/10/86 | 11:00 | | | | | | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES



NO.: NSP1 STATION NAME: TREATMENT POND 1 (002) TYPE: POND DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/10/86 | | | | | 7.30 | | 1125.0 | 33.5 | -0.1 | | | - |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSP1 STATION NAME: TREATMENT POND 1 (002) TYPE: POND DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/10/86 | | | 50 | | | | | | | |

PLATEAU MINING COMPANY PAGE 1

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSP1 STATION NAME: TREATMENT POND 1 (002) TYPE: POND DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/10/86 | | 140 | 70 | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: NSP1 STATION NAME: TREATMENT POND 1 (002) TYPE: POND DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/10/86 | | | | | | | | | | -0.50 |

NO.: NSP4 NAME: SEDIMENT POND 4 (004) TYPE: POND DATUM ELEV.: 7320.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 10/07/83 | 11:50 | | | | | | |
| 10/18/83 | 13:00 | | | | | | |
| 08/29/84 | 8:10 | | | | | | |
| 09/29/84 | 7:00 | | | | | | |
| 07/22/85 | 9:30 | | | | | | |
| 07/23/85 | 7:40 | | | | | | |
| 07/24/85 | 10:45 | | | | | | |
| 09/19/85 | : | | | | | | |
| 09/20/85 | : | | | | | | |
| 02/24/86 | 10:00 | | | | | | |
| 02/26/86 | 8:10 | | | | | | |
| 02/28/86 | 11:20 | | | | | | |
| 03/03/86 | 12:55 | | | | | | |
| 09/24/86 | : | 8.9 | | | 0.0445 | CFS | |
| 09/26/86 | : | | | | 0.0111 | CFS | |
| 10/06/86 | : | | | | | | |
| 10/07/86 | 9:00 | | | | | | |
| 11/11/87 | 11:50 | | | | 0.0050 | CFS | |
| 04/19/88 | 11:15 | 9.0 | | | 0.0110 | CFS | TOTAL FLOW: 17,280 GALLONS |
| 09/06/90 | 9:45 | | | | 0.0050 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: NSP4 STATION NAME: SEDIMENT POND 4 (004) TYPE: POND DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/07/83 | | | | | 7.50 | | 471.0 | 9.0 | -0.1 | | | |
| 10/18/83 | | | | | 7.75 | | 825.0 | 34.0 | 0.1 | | | |
| 08/29/84 | | | | | 7.80 | | 5571.0 | 39.0 | -0.1 | | | |
| 09/29/84 | | | | | 7.40 | | 5248.0 | 50.0 | -0.1 | | | |
| 07/22/85 | | | | | 6.40 | | 722.0 | 43.0 | -0.1 | | | |
| 07/23/85 | | | | | 6.40 | | 702.0 | 91.0 | -0.1 | | | |
| 07/24/85 | | | | | 6.40 | | 753.0 | 44.0 | -0.1 | | | |
| 09/19/85 | | | | | 6.50 | | 758.0 | 6.0 | 0.1 | | | |
| 09/20/85 | | | | | 6.95 | | 462.0 | 55.0 | -0.1 | | | |
| 02/24/86 | | | | | 6.80 | | 828.0 | 21.0 | -0.1 | | | |
| 02/26/86 | | | | | 7.60 | | 754.0 | 38.0 | 0.1 | | | |
| 02/28/86 | | | | | 6.60 | | 686.0 | 42.0 | -0.1 | | | |
| 03/03/86 | | | | | 7.00 | | 648.0 | 27.0 | -0.1 | | | |
| 09/24/86 | | 650.0 | 850.0 | | 7.00 | | 505.0 | 224.0 | 0.2 | | | |
| 09/26/86 | | | 810.0 | | 6.90 | | 526.0 | 11.0 | -0.1 | | | |
| 10/06/86 | | | | | 6.90 | | 485.0 | 15.0 | -0.1 | | | |
| 10/07/86 | | | | | 7.00 | | 472.0 | 14.0 | -0.1 | | | |
| 11/11/87 | | | | | 7.20 | | 494.0 | 16.0 | -0.2 | | | |
| 04/19/88 | 7.2 | 1320.0 | | 8.5 | 7.60 | | 936.0 | 22.0 | -0.4 | | | |
| 09/06/90 | | 950.0 | | 7.9 | | | 682.0 | 30.0 | -0.2 | | | 2 |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSP4 STATION NAME: SEDIMENT POND 4 (004) TYPE: POND DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 02/24/86 | | | 50 | | | | | | | |
| 02/26/86 | | | 40 | | | | | | | |
| 02/28/86 | | | 20 | | | | | | | |
| 03/03/86 | | | 30 | | | | | | | |
| 09/24/86 | | | -10 | | | | | | | |
| 09/26/86 | | | -10 | | | | | | | |
| 10/06/86 | | | -10 | | | | | | | |
| 10/07/86 | | | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSP4 STATION NAME: SEDIMENT POND 4 (004) TYPE: POND DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/07/83 | | 200 | | | | | | | | |
| 10/18/83 | | 260 | 30 | | | | | | | |
| 08/29/84 | | 3940 | 870 | | | | | | | |
| 09/29/84 | | 180 | 100 | | | | | | | |
| 07/22/85 | | 440 | 30 | | | | | | | |
| 07/23/85 | | 410 | 30 | | | | | | | |
| 07/24/85 | | 440 | 30 | | | | | | | |
| 09/19/85 | | 110 | 30 | | | | | | | |
| 09/20/85 | | 180 | 20 | | | | | | | |
| 02/24/86 | | 220 | 50 | | | | | | | |
| 02/26/86 | | 240 | 50 | | | | | | | |
| 02/28/86 | | 240 | 60 | | | | | | | |
| 03/03/86 | | 290 | 60 | | | | | | | |
| 09/24/86 | | 320 | 50 | | | | | | | |
| 09/26/86 | | 140 | 30 | | | | | | | |
| 10/06/86 | | 180 | 20 | | | | | | | |
| 10/07/86 | | -50 | 20 | | | | | | | |
| 11/11/87 | | 480 | | | | | | | | |
| 04/19/88 | | 550 | | | | | | | | |
| 09/06/90 | | 680 | | | | | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: NSP4 STATION NAME: SEDIMENT POND 4 (004) TYPE: POND DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/07/83 | | | | | | | | | | 0.80 |
| 10/18/83 | | | | | | | | | | 2.40 |
| 08/29/84 | | | | | | | | | | -0.50 |
| 09/29/84 | | | | | | | | | | -0.50 |
| 07/22/85 | | | | | | | | | | -0.50 |
| 07/23/85 | | | | | | | | | | -0.50 |
| 07/24/85 | | | | | | | | | | -0.50 |
| 09/19/85 | | | | | | | | | | 0.60 |
| 09/20/85 | | | | | | | | | | -0.50 |
| 02/24/86 | | | | | | | | | | -0.50 |
| 02/26/86 | | | | | | | | | | -0.50 |
| 02/28/86 | | | | | | | | | | -0.50 |
| 03/03/86 | | | | | | | | | | -0.50 |
| 09/24/86 | | | | | | | | | | -0.50 |
| 09/26/86 | | | | | | | | | | -0.50 |
| 10/06/86 | | | | | | | | | | -0.50 |
| 10/07/86 | | | | | | | | | | -0.50 |
| 11/11/87 | | | | | | | | | | 1.00 |
| 04/19/88 | | | | | | | | | | 1.00 |
| 09/06/90 | | | | | | | | | | 1.00 |

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: NSP5 NAME: SEDIMENT POND 5 (005) TYPE: POND DATUM ELEV.: 7400.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 04/23/83 | 11:00 | | | | | | |
| 05/05/83 | 10:30 | | | | | | |
| 05/13/83 | 14:00 | | | | | | |
| 08/11/83 | 13:30 | | | | | | |
| 10/07/83 | 13:35 | | | | | | |
| 08/31/84 | 14:00 | | | | | | |
| 10/09/84 | : | | | | | | |
| 07/25/85 | 12:00 | | | | | | |
| 07/26/85 | 8:00 | | | | | | |
| 08/02/85 | : | | | | | | |
| 09/19/85 | : | | | | | | |
| 09/20/85 | : | | | | | | |
| 10/04/85 | : | | | | | | |
| 01/08/86 | : | | | | | | |
| 01/13/86 | : | | | | | | |
| 02/24/86 | 10:10 | | | | | | |
| 02/26/86 | 7:50 | | | | | | |
| 02/28/86 | 11:50 | | | | | | |
| 03/03/86 | 13:15 | | | | | | |
| 03/10/86 | 10:45 | | | | | | |
| 09/10/86 | : | | | | | | |
| 09/11/86 | 12:02 | | | | | | |
| 09/24/86 | : | 8.9 | | | 0.0668 | CFS | |
| 09/26/86 | : | | | | 0.0557 | CFS | |
| 10/03/86 | : | | | | | | |
| 10/06/86 | : | | | | | | |
| 05/26/87 | 7:55 | | | | 0.2230 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: NSP5 STATION NAME: SEDIMENT POND 5 (005) TYPE: POND DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/23/83 | | | | | 8.60 | | 660.0 | 9.0 | 0.1 | | | |
| 05/05/83 | | | | | 8.30 | | 1149.0 | 16.5 | -0.1 | | | |
| 05/13/83 | | | | | 8.15 | | 1286.0 | 14.0 | -0.5 | | | |
| 08/11/83 | | | | | 6.65 | | 2027.0 | 19.0 | -0.1 | | | |
| 10/07/83 | | | | | 7.30 | | 920.0 | 6.0 | -0.1 | | | |
| 08/31/84 | | | | | 7.80 | | 935.0 | 22.0 | -0.1 | | | |
| 10/09/84 | | | | | 7.90 | | 491.0 | 26.0 | -0.1 | | | |
| 07/25/85 | | | | | 6.70 | | 457.0 | 32.0 | -0.1 | | | |
| 07/26/85 | | | | | 7.05 | | 460.0 | 25.0 | -0.1 | | | |
| 08/02/85 | | | | | 6.80 | | 591.0 | 28.0 | -0.1 | | | |
| 09/19/85 | | | | | 7.15 | | 445.0 | 54.0 | -0.1 | | | |
| 09/20/85 | | | | | 7.25 | | 432.0 | 54.0 | -0.1 | | | |
| 10/04/85 | | | | | 7.70 | | 466.0 | 128.0 | -0.1 | | | |
| 01/08/86 | | | | | 7.60 | | 585.0 | 25.0 | -0.1 | | | |
| 01/13/86 | | | | | 7.70 | | 589.0 | 23.5 | 0.1 | | | |
| 02/24/86 | | | | | 7.40 | | 783.0 | 58.0 | -0.1 | | | |
| 02/26/86 | | | | | 7.50 | | 700.0 | 34.0 | -0.1 | | | |
| 02/28/86 | | | | | 6.90 | | 656.0 | 39.0 | -0.1 | | | |
| 03/03/86 | | | | | 7.05 | | 617.0 | 28.0 | -0.1 | | | |
| 03/10/86 | | | | | 7.60 | | 637.0 | 49.0 | -0.1 | | | |
| 09/10/86 | | | | | 6.80 | | 919.0 | 38.0 | -0.1 | | | |
| 09/11/86 | | | | | 6.50 | | 940.0 | 5.0 | -0.1 | | | |
| 09/24/86 | 8.0 | 430.0 | 500.0 | | 7.40 | | 298.0 | 589.0 | 0.2 | | | |
| 09/26/86 | | | 605.0 | | 7.25 | | 353.0 | 37.0 | -0.1 | | | |
| 10/03/86 | | | | | 6.75 | | 350.0 | 362.0 | 0.3 | | | |
| 10/06/86 | | | | | 7.05 | | 322.0 | 13.0 | -0.1 | | | |
| 05/26/87 | | | | | 7.50 | | 680.0 | 30.0 | -0.3 | | | |

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSP5 STATION NAME: SEDIMENT POND 5 (005) TYPE: POND DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 01/08/86 | | | -10 | | | | | | | |
| 01/13/86 | | | -10 | | | | | | | |
| 02/24/86 | | | 60 | | | | | | | |
| 02/26/86 | | | 70 | | | | | | | |
| 02/28/86 | | | 50 | | | | | | | |
| 03/03/86 | | | 40 | | | | | | | |
| 03/10/86 | | | -10 | | | | | | | |
| 09/10/86 | | | -10 | | | | | | | |
| 09/11/86 | | | -10 | | | | | | | |
| 09/24/86 | | | -10 | | | | | | | |
| 09/26/86 | | | -10 | | | | | | | |
| 10/03/86 | | | 60 | | | | | | | |
| 10/06/86 | | | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSP5 STATION NAME: SEDIMENT POND 5 (005) TYPE: POND DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/23/83 | | 200 | | | | | | | | |
| 05/05/83 | | 30 | | | | | | | | |
| 05/13/83 | | 390 | | | | | | | | |
| 08/11/83 | | 90 | | | | | | | | |
| 10/07/83 | | 170 | | | | | | | | |
| 08/31/84 | | 170 | 30 | | | | | | | |
| 10/09/84 | | 90 | -10 | | | | | | | |
| 07/25/85 | | 170 | 10 | | | | | | | |
| 07/26/85 | | 130 | 10 | | | | | | | |
| 08/02/85 | | 140 | 20 | | | | | | | |
| 09/19/85 | | 190 | 20 | | | | | | | |
| 09/20/85 | | 150 | 20 | | | | | | | |
| 10/04/85 | | 260 | 40 | | | | | | | |
| 01/08/86 | | 130 | 40 | | | | | | | |
| 01/13/86 | | 130 | 40 | | | | | | | |
| 02/24/86 | | 250 | 60 | | | | | | | |
| 02/26/86 | | 240 | 70 | | | | | | | |
| 02/28/86 | | 140 | 50 | | | | | | | |
| 03/03/86 | | 350 | 40 | | | | | | | |
| 03/10/86 | | 300 | 20 | | | | | | | |
| 09/10/86 | | 150 | 40 | | | | | | | |
| 09/11/86 | | 100 | 40 | | | | | | | |
| 09/24/86 | | 1220 | 70 | | | | | | | |
| 09/26/86 | | 150 | 20 | | | | | | | |
| 10/03/86 | | 640 | 110 | | | | | | | |
| 10/06/86 | | 70 | 20 | | | | | | | |
| 05/26/87 | | 390 | | | | | | | | |

WATER QUALITY MONITORING DATA - NUTRIENTS AND ORGANICS

NO.: NSP5 STATION NAME: SEDIMENT POND 5 (005) TYPE: POND DATE: 03/02/91

| DATE | NITROGN AMM-TOT MG/L-N | NITROGN AMM-FRE MG/L-N | NITROGN NO3 MG/L-N | NITROGN NO2 MG/L-N | NITROGN NO2+NO3 MG/L-N | PHOSPH ORT-TOT MG/L-P | PHOSPH ORT-DIS MG/L-P | PHOSPH TOT-TOT MG/L-P | PHOSPH TOT-DIS MG/L-P | OIL+GRS MG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/23/83 | | | | | | | | | | 1.00 |
| 05/05/83 | | | | | | | | | | 1.00 |
| 05/13/83 | | | | | | | | | | 0.74 |
| 08/11/83 | | | | | | | | | | -0.50 |
| 10/07/83 | | | | | | | | | | -0.50 |
| 08/31/84 | | | | | | | | | | -0.50 |
| 10/09/84 | | | | | | | | | | -0.50 |
| 07/25/85 | | | | | | | | | | -0.50 |
| 07/26/85 | | | | | | | | | | -0.05 |
| 08/02/85 | | | | | | | | | | -0.50 |
| 09/19/85 | | | | | | | | | | -0.50 |
| 09/20/85 | | | | | | | | | | -0.50 |
| 01/08/86 | | | | | | | | | | -0.50 |
| 01/13/86 | | | | | | | | | | -0.50 |
| 02/24/86 | | | | | | | | | | -0.50 |
| 02/26/86 | | | | | | | | | | -0.50 |
| 02/28/86 | | | | | | | | | | -0.50 |
| 03/03/86 | | | | | | | | | | -0.50 |
| 03/10/86 | | | | | | | | | | 1.50 |
| 09/10/86 | | | | | | | | | | -0.50 |
| 09/11/86 | | | | | | | | | | 1.90 |
| 09/24/86 | | | | | | | | | | 2.30 |
| 09/26/86 | | | | | | | | | | -0.50 |
| 10/03/86 | | | | | | | | | | 2.00 |
| 10/06/86 | | | | | | | | | | -0.50 |
| 05/26/87 | | | | | | | | | | -1.00 |

WATER QUALITY MONITORING DATA - WATER LEVELS AND FLOW RATES DATE: 03/02/91

NO.: NSP6 NAME: SEDIMENT POND 6 (006) TYPE: POND DATUM ELEV.: 7140.00 FT

| DATE | TIME HH:MM | AIR TEMP. DEG. C | WATER DEPTH FEET | WATER ELEVATION FEET | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| 04/14/83 | : | | | | | | |
| 05/05/83 | 10:50 | | | | | | |
| 08/11/83 | 14:00 | | | | | | |
| 10/07/83 | 13:00 | | | | | | |
| 10/18/83 | 13:05 | | | | | | |
| 11/24/83 | : | | | | | | |
| 08/29/84 | 9:30 | | | | | | |
| 10/09/84 | : | | | | | | |
| 07/22/85 | 8:30 | | | | | | |
| 07/23/85 | 7:00 | | | | | | |
| 07/24/85 | 10:30 | | | | | | |
| 09/19/85 | : | | | | | | |
| 09/20/85 | : | | | | | | |
| 02/24/86 | 9:15 | | | | | | |
| 02/26/86 | 9:15 | | | | | | |
| 02/28/86 | 11:30 | | | | | | |
| 03/03/86 | 12:45 | | | | | | |
| 09/24/86 | : | 8.9 | | | 0.0557 | CFS | |
| 09/26/86 | : | | | | 0.0334 | CFS | |
| 10/03/86 | : | | | | | | |
| 10/06/86 | : | | | | | | |
| 08/04/87 | 12:10 | | | | 0.0060 | CFS | 7 FEET BELOW EXIT |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY
WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES

NO.: NSP6 STATION NAME: SEDIMENT POND 6 (006) TYPE: POND DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/14/83 | | | | | 7.40 | | 1719.0 | 9.5 | | | | |
| 05/05/83 | | | | | 7.70 | | 1423.0 | 25.5 | -0.1 | | | |
| 08/11/83 | | | | | 7.20 | | 1732.0 | 28.0 | 0.1 | | | |
| 10/07/83 | | | | | 7.30 | | 922.0 | 5.0 | -0.1 | | | |
| 10/18/83 | | | | | 7.35 | | 980.0 | 4.0 | -0.1 | | | |
| 11/24/83 | | | | | 7.00 | | 1139.0 | 0.5 | | | | |
| 08/29/84 | | | | | 7.50 | | 1120.0 | 66.0 | 0.2 | | | |
| 10/09/84 | | | | | 7.50 | | 720.0 | 7.0 | -0.1 | | | |
| 07/22/85 | | | | | 7.20 | | 736.0 | 31.5 | -0.1 | | | |
| 07/23/85 | | | | | 7.30 | | 736.0 | 23.0 | -0.1 | | | |
| 07/24/85 | | | | | 7.35 | | 616.0 | 23.0 | -0.1 | | | |
| 09/19/85 | | | | | 7.20 | | 673.0 | 7.0 | -0.1 | | | |
| 09/20/85 | | | | | 7.25 | | 873.0 | 7.0 | -0.1 | | | |
| 02/24/86 | | | | | 7.30 | | 706.0 | 39.0 | -0.1 | | | |
| 02/26/86 | | | | | 7.50 | | 682.0 | 24.0 | -0.1 | | | |
| 02/28/86 | | | | | 6.90 | | 598.0 | 12.0 | -0.1 | | | |
| 03/03/86 | | | | | 7.05 | | 579.0 | 7.0 | -0.1 | | | |
| 09/24/86 | | 875.0 | 1150.0 | | 7.30 | | 834.0 | 185.0 | 0.2 | | | |
| 09/26/86 | | | 1100.0 | | 7.30 | | 823.0 | 6.0 | -0.1 | | | |
| 10/03/86 | | | | | 6.90 | | 542.0 | 36.0 | -0.1 | | | |
| 10/06/86 | | | | | 7.00 | | 543.0 | 12.0 | -0.1 | | | |
| 08/04/87 | | | | | 6.85 | | 954.0 | 19.0 | | | | |

PLATEAU MINING COMPANY PAGE 1
WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSP6 STATION NAME: SEDIMENT POND 6 (006) TYPE: POND DATE: 03/02/91

| DATE | COPPER DISS. UG/L | IRON DISS. UG/L | MANGNS DISS. UG/L | ZINC DISS. UG/L | ALUMIN DISS. UG/L | BORON DISS. UG/L | MOLYBN DISS. UG/L | NICKEL DISS. UG/L | THALLM DISS. UG/L | VANADM DISS. UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 02/24/86 | | | 60 | | | | | | | |
| 02/26/86 | | | 40 | | | | | | | |
| 02/28/86 | | | 40 | | | | | | | |
| 03/03/86 | | | 30 | | | | | | | |
| 09/24/86 | | | -10 | | | | | | | |
| 09/26/86 | | | -10 | | | | | | | |
| 10/03/86 | | | 80 | | | | | | | |
| 10/06/86 | | | -10 | | | | | | | |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSP6 STATION NAME: SEDIMENT POND 6 (006) TYPE: POND DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 04/14/83 | | 160 | | | | | | | | |
| 05/05/83 | | 300 | | | | | | | | |
| 08/11/83 | | 300 | | | | | | | | |
| 10/07/83 | | 150 | | | | | | | | |
| 10/18/83 | | 140 | 90 | | | | | | | |
| 11/24/83 | | 80 | 20 | | | | | | | |
| 08/29/84 | | 580 | 50 | | | | | | | |
| 10/09/84 | | -50 | 20 | | | | | | | |
| 07/22/85 | | 300 | 30 | | | | | | | |
| 07/23/85 | | 190 | 30 | | | | | | | |
| 07/24/85 | | 430 | 10 | | | | | | | |
| 09/19/85 | | 90 | 30 | | | | | | | |
| 09/20/85 | | 80 | 30 | | | | | | | |
| 02/24/86 | | 250 | 60 | | | | | | | |
| 02/26/86 | | 210 | 40 | | | | | | | |
| 02/28/86 | | 90 | 40 | | | | | | | |
| 03/03/86 | | 240 | 40 | | | | | | | |
| 09/24/86 | | 500 | 60 | | | | | | | |
| 09/26/86 | | 110 | 30 | | | | | | | |
| 10/03/86 | | 390 | 130 | | | | | | | |
| 10/06/86 | | 170 | 30 | | | | | | | |
| 08/04/87 | | | | | | | | | | |

NO.: NSP9 NAME: SEDIMENT POND 9 (010) TYPE: POND DATUM ELEV.: 7440.00 FT

| DATE | TIME | AIR TEMP. | WATER DEPTH | WATER ELEVATION | FLOW RATE | UNIT | COMMENT |
|---|---|---|---|---|---|---|---|
| | HH:MM | DEG. C | FEET | FEET | | | |
| 03/30/90 | 8:00 | | | | 0.0220 | CFS | |
| 09/06/90 | 9:30 | | | | 0.0110 | CFS | |

WATER LEVEL OF 0.001 = 0, FLOW RATE OF 0.0001 = 0
NEGATIVE WATER LEVEL IN A WELL IS ABOVE GROUND SURFACE

PLATEAU MINING COMPANY

WATER QUALITY MONITORING DATA - PHYSICAL PROPERTIES



NO.: NSP9 STATION NAME: SEDIMENT POND 9 (010) TYPE: POND DATE: 03/02/91

| DATE | TEMP DEG C | EC FIELD UMHOS/CM | EC LAB UMHOS/CM | PH FLD | PH LAB | EH FIELD MV | SOLIDS DISS. MG/L | SOLIDS SUSP. MG/L | SOLIDS SETTL. MG/L | HARDN TOTAL MG/L | ALKAL TOTAL MG/L | OIL+GR VISBL. 1=Y 2=N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03/30/90 | | 1250.0 | | 8.0 | 8.20 | | 1026.0 | 20.0 | | | | 2 |
| 09/06/90 | | 1160.0 | | 8.1 | | | 908.0 | 30.0 | -0.2 | | | 2 |

WATER QUALITY MONITORING DATA - SECONDARY AND MISC. METALS

NO.: NSP9 STATION NAME: SEDIMENT POND 9 (010) TYPE: POND DATE: 03/02/91

| DATE | COPPER TOTAL UG/L | IRON TOTAL UG/L | MANGNS TOTAL UG/L | ZINC TOTAL UG/L | ALUMIN TOTAL UG/L | BORON TOTAL UG/L | MOLYBN TOTAL UG/L | NICKEL TOTAL UG/L | THALLM TOTAL UG/L | VANADM TOTAL UG/L |
|---|---|---|---|---|---|---|---|---|---|---|
| 03/30/90 | | 120 | | | | | | | | |
| 09/06/90 | | 770 | | | | | | | | |