

SWATARA CREEK BASIN

**01571820 SWATARA CREEK NEAR RAVINE, PA
(Swatara Creek Project)**

LOCATION.--Lat 40°34'50", long 76°24'18", Schuylkill County, Hydrologic Unit 02050305, on right bank 800 ft downstream of Adam's Run, 1,000 ft downstream from State Highway 125 bridge crossing Swatara Creek and 0.4 mi north of Ravine.

DRAINAGE AREA.--43.3 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 590 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Other data for this project presented in tables on pages 350-392.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 600 ft³/s and maximum (*):

| Date | Time | Discharge ft ³ /s | Gage Height (ft) | Date | Time | Discharge ft ³ /s | Gage Height (ft) |
|---------|------|---------------------------------|---------------------|---------|------|---------------------------------|---------------------|
| Mar. 21 | 2000 | *1,140 | *3.31 | Mar. 28 | 0330 | 620 | 2.60 |

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 126 | 28 | 51 | 50 | 41 | 146 | 161 | e60 | 80 | 69 | 91 | 48 |
| 2 | 87 | 41 | 49 | 49 | 41 | 144 | 147 | e58 | 78 | 63 | 101 | 40 |
| 3 | 72 | 59 | 48 | 50 | 39 | 136 | 143 | e54 | 68 | 62 | 63 | 26 |
| 4 | 76 | 39 | 47 | 55 | 39 | 117 | 231 | e50 | 65 | 61 | 56 | 21 |
| 5 | 85 | 34 | 45 | 59 | 39 | 105 | 161 | e48 | 65 | 57 | 47 | 17 |
| 6 | 65 | 31 | 53 | 49 | 37 | 93 | 141 | e46 | 189 | 53 | 45 | 16 |
| 7 | 55 | 29 | 51 | 47 | 37 | 86 | 131 | e43 | 105 | 48 | 46 | 17 |
| 8 | 50 | 29 | 45 | 44 | 36 | 83 | 157 | e41 | 80 | 45 | 40 | 15 |
| 9 | 49 | 27 | 42 | 43 | 36 | 77 | 270 | e40 | 72 | 43 | 35 | 15 |
| 10 | 96 | 27 | 45 | 94 | 36 | 73 | 198 | e45 | 67 | 45 | 32 | 15 |
| 11 | 82 | 27 | 47 | 100 | 41 | 95 | 174 | e58 | 65 | 41 | 31 | 15 |
| 12 | 62 | 25 | 42 | 72 | 41 | 194 | 159 | e45 | 86 | 37 | 33 | 17 |
| 13 | 58 | 25 | 41 | 66 | 40 | 114 | 142 | e52 | 87 | 36 | 33 | 83 |
| 14 | 55 | 26 | 129 | 60 | 86 | 102 | 130 | e110 | 119 | 41 | 29 | 30 |
| 15 | 49 | 24 | 140 | 59 | 80 | 96 | 122 | e80 | 89 | 90 | 28 | 25 |
| 16 | 47 | 24 | 97 | 58 | 67 | 95 | 117 | e53 | 87 | 74 | 27 | 21 |
| 17 | 44 | 24 | 85 | 52 | 65 | 161 | 127 | e47 | 74 | 48 | 23 | 19 |
| 18 | 42 | 23 | 79 | 50 | 62 | 112 | 128 | e44 | 78 | 42 | 24 | 16 |
| 19 | 39 | 23 | 72 | 51 | 62 | 102 | e100 | e60 | 80 | 40 | 23 | 33 |
| 20 | 42 | 25 | 78 | 52 | 58 | 98 | e90 | e85 | 68 | 40 | 21 | 45 |
| 21 | 39 | 24 | 82 | 48 | 57 | 358 | e100 | e92 | 84 | 38 | 20 | 27 |
| 22 | 38 | 24 | 69 | 46 | 56 | 676 | e110 | e85 | 127 | 40 | 19 | 19 |
| 23 | 35 | 24 | 64 | 48 | 61 | 333 | e100 | 99 | 78 | 35 | 20 | 18 |
| 24 | 34 | 24 | 62 | 46 | 72 | 250 | e90 | 177 | 70 | 35 | 22 | 19 |
| 25 | 33 | 35 | 58 | 47 | 100 | 213 | e84 | 152 | 77 | 33 | 20 | 18 |
| 26 | 32 | 62 | 58 | 45 | 129 | 188 | e78 | 118 | 173 | 34 | 18 | 27 |
| 27 | 32 | 135 | 57 | e40 | 128 | 181 | e80 | 105 | 96 | e35 | 19 | 24 |
| 28 | 30 | 71 | 55 | e40 | 267 | 409 | e74 | 99 | 83 | e32 | 26 | 19 |
| 29 | 30 | 60 | 54 | 39 | 176 | 246 | e71 | 90 | 79 | e30 | 19 | 16 |
| 30 | 30 | 56 | 52 | 41 | --- | 208 | e64 | 81 | 78 | e80 | 18 | 16 |
| 31 | 29 | --- | 51 | 44 | --- | 181 | --- | 77 | --- | e72 | 18 | --- |
| TOTAL | 1643 | 1105 | 1948 | 1644 | 2029 | 5472 | 3880 | 2294 | 2647 | 1499 | 1047 | 737 |
| MEAN | 53.0 | 36.8 | 62.8 | 53.0 | 70.0 | 177 | 129 | 74.0 | 88.2 | 48.4 | 33.8 | 24.6 |
| MAX | 126 | 135 | 140 | 100 | 267 | 676 | 270 | 177 | 189 | 90 | 101 | 83 |
| MIN | 29 | 23 | 41 | 39 | 36 | 73 | 64 | 40 | 65 | 30 | 18 | 15 |
| CFSM | 1.22 | .85 | 1.45 | 1.22 | 1.62 | 4.08 | 2.99 | 1.71 | 2.04 | 1.12 | .78 | .57 |
| IN. | 1.41 | .95 | 1.67 | 1.41 | 1.74 | 4.70 | 3.33 | 1.97 | 2.27 | 1.29 | .90 | .63 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 57.8 | 58.7 | 101 | 98.7 | 112 | 146 | 108 | 90.6 | 73.5 | 42.7 | 30.1 | 35.5 |
| MAX | 135 | 143 | 284 | 177 | 196 | 196 | 144 | 181 | 110 | 64.2 | 39.9 | 70.7 |
| (WY) | 1997 | 1997 | 1997 | 1998 | 1998 | 1998 | 1998 | 1998 | 1998 | 1996 | 1996 | 1999 |
| MIN | 21.2 | 16.5 | 11.4 | 53.0 | 70.0 | 101 | 75.4 | 47.0 | 18.4 | 13.5 | 16.5 | 15.7 |
| (WY) | 1998 | 1999 | 1999 | 2000 | 2000 | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 1998 |

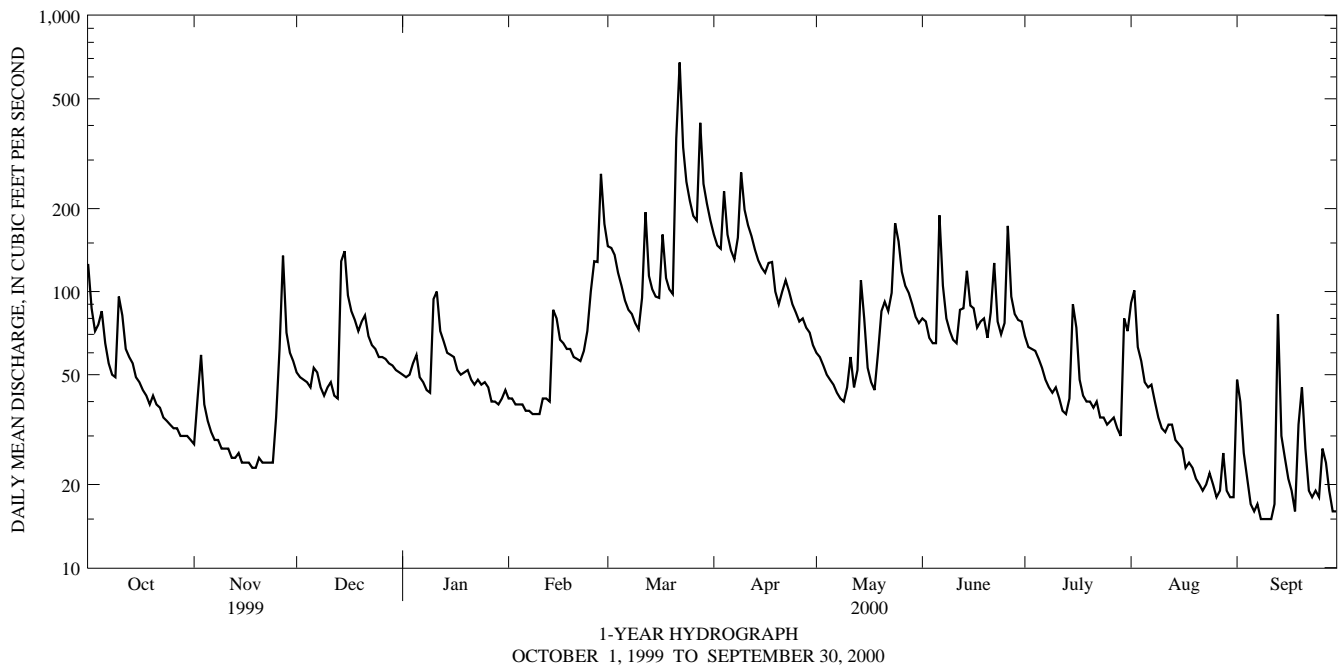
e Estimated.

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | | FOR 2000 WATER YEAR | | WATER YEARS 1996 - 2000 | |
|--------------------------|------------------------|----------|---------------------|-----------|-------------------------|-------------|
| ANNUAL TOTAL | 20167.6 | | 25945 | | | |
| ANNUAL MEAN | 55.3 | | 70.9 | | 78.7 | |
| HIGHEST ANNUAL MEAN | | | | | 98.7 | |
| LOWEST ANNUAL MEAN | | | | | 46.6 | |
| HIGHEST DAILY MEAN | 549 | Jan 24 | 676 | Mar 22 | 1180 | Oct 19 1996 |
| LOWEST DAILY MEAN | 9.8 | Aug 7,12 | 15 | Sep 8-11 | 9.8 | Aug 7 1999 |
| ANNUAL SEVEN-DAY MINIMUM | 11 | Aug 6 | 16 | Sep 5 | 10 | Dec 14 1998 |
| INSTANTANEOUS PEAK FLOW | | | a1140 | Mar 21 | a1740 | Oct 19 1996 |
| INSTANTANEOUS PEAK STAGE | | | 3.31 | Mar 21 | 3.92 | Oct 19 1996 |
| INSTANTANEOUS LOW FLOW | | | 14 | Sep 10-12 | 9.6 | Oct 2 1998 |
| ANNUAL RUNOFF (CFSM) | 1.28 | | 1.64 | | 1.82 | |
| ANNUAL RUNOFF (INCHES) | 17.33 | | 22.29 | | 24.68 | |
| 10 PERCENT EXCEEDS | 98 | | 132 | | 150 | |
| 50 PERCENT EXCEEDS | 45 | | 54 | | 53 | |
| 90 PERCENT EXCEEDS | 13 | | 24 | | 15 | |

a From rating curve extended above 502 ft³/s based on a straight line extension.



SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued
(Swatara Creek Project)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1996 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1996 to current year.

pH: April 1996 to current year.

WATER TEMPERATURE: April 1996 to current year.

INSTRUMENTATION.--Water-quality monitor (in situ system). Automatic pumping sampler for stormflow samples since July 1996.

REMARKS.--Specific conductance records rated good except for period Mar. 29 to June 5, which is fair. pH records rated fair except for period May 23 to Sept. 13, which is poor. Water temperature records rated good. Interruptions in the record were due to malfunctions of the instrumentation. Some values for "*dissolved*" parameters exceed values for the corresponding "*total*" parameter. These results are within the limits of analytical precision and methods. Other data for this project presented in tables on pages 350-392. Figure 9 shows the location of sites sampled as part of the Swatara Creek Project. Abbreviations used: E, estimated.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 538 microsiemens, Jan. 9, 1999; minimum, 27 microsiemens, June 11, 1997.

pH: Maximum, 8.2, July 30, 1999; minimum, 4.7, June 13, 1998.

WATER TEMPERATURE: Maximum, 26.5°C, July 5, 6, 1999, Aug. 1, 1999; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 334, microsiemens, Feb. 14; minimum, 94, microsiemens, Mar. 21.

pH: Maximum, 7.8, Aug. 17, 18; minimum, 5.1, June 21.

WATER TEMPERATURE: Maximum, 21.5°C, Aug. 10, Sept. 2, 4; minimum, 0.0°C, several days during winter.

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE | TIME | AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028) | AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027) | DIS- CHARGE, INST- CUBIC FEET PER SECOND (00061) | OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301) | OXYGEN, DIS- SOLVED (MG/L) (00300) | PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) | PH WATER WHOLE LAB (STAND- ARD UNITS) (00403) | SPE- CIFIC CON- DUCT- ANCE (μ S/CM) (00095) | TEMPER- ATURE WATER (DEG C) (00010) | CALCIUM DIS- SOLVED (MG/L AS CA) (00915) |
|-------|------|--|---|---|---|--|--|--|--|---|---|
| OCT | | | | | | | | | | | |
| 01... | 0001 | 80020 | 1028 | 225 | -- | -- | 7.2 | -- | 181 | -- | 9.10 |
| 01... | 0400 | 80020 | 1028 | 152 | -- | -- | 6.6 | -- | 179 | 12.7 | 9.73 |
| 18... | 1145 | 80020 | 1028 | 42 | 96 | 10.3 | 6.9 | 6.5 | 231 | 12.1 | 16.7 |
| 20... | 1515 | 9813 | 1028 | 46 | 100 | 11.0 | 7.0 | -- | 262 | 11.1 | -- |
| DEC | | | | | | | | | | | |
| 06... | 1000 | 80020 | 1028 | 57 | 99 | 11.5 | 6.8 | 6.8 | 194 | 8.5 | 13.1 |
| 14... | 1400 | 80020 | 1028 | 81 | -- | -- | 6.7 | 7.4 | 195 | 5.6 | 13.8 |
| 14... | 1530 | 80020 | 1028 | 163 | 7 | -- | 6.8 | 6.9 | 171 | 5.5 | 12.2 |
| 14... | 1600 | 80020 | 1028 | 203 | -- | -- | 6.7 | 7.0 | 167 | 5.5 | 12.0 |
| 14... | 1700 | 80020 | 1028 | 285 | -- | -- | 6.8 | 7.3 | 142 | 5.2 | 11.0 |
| 14... | 1800 | 80020 | 1028 | 320 | -- | -- | 6.8 | 7.2 | 148 | 5.3 | 11.4 |
| 14... | 2000 | 80020 | 1028 | 281 | -- | -- | 6.8 | 6.9 | 141 | 5.3 | 10.6 |
| 14... | 2200 | 80020 | 1028 | 235 | -- | -- | 6.6 | 6.8 | 126 | 5.4 | 9.12 |
| 15... | 0200 | 80020 | 1028 | 194 | -- | -- | 6.5 | 7.2 | 126 | 5.6 | 9.05 |
| 15... | 0800 | 80020 | 1028 | 150 | -- | -- | 6.5 | 6.8 | 128 | 5.7 | 8.48 |
| 15... | 1200 | 80020 | 1028 | 130 | -- | -- | 6.5 | 6.8 | 133 | 6.1 | 9.15 |
| 15... | 2000 | 80020 | 1028 | 110 | -- | -- | 6.6 | 6.8 | 143 | 6.6 | 9.93 |
| 16... | 1030 | 80020 | 1028 | 98 | -- | -- | 6.5 | 6.9 | 147 | 6.5 | 10.1 |
| JAN | | | | | | | | | | | |
| 19... | 0900 | 9813 | 1028 | 50 | 102 | 14.6 | 6.6 | -- | 219 | .8 | 14.4 |
| MAR | | | | | | | | | | | |
| 01... | 1030 | 9813 | 1028 | 145 | 105 | 13.3 | 6.5 | -- | 153 | 5.1 | 9.15 |
| 17... | 0001 | 9813 | 1028 | 130 | -- | -- | 6.7 | -- | 170 | 9.0 | 11.7 |
| 17... | 0200 | 9813 | 1028 | 142 | -- | -- | 6.7 | -- | 160 | 8.9 | 11.5 |
| 17... | 0600 | 9813 | 1028 | 182 | -- | -- | 6.7 | -- | 158 | 7.8 | 11.1 |
| 17... | 0800 | 9813 | 1028 | 197 | -- | -- | 6.7 | -- | 149 | 7.3 | 10.7 |
| 17... | 1000 | 9813 | 1028 | 191 | -- | -- | 6.7 | -- | 145 | 7.0 | 10.4 |
| 17... | 1400 | 9813 | 1028 | 171 | -- | -- | 6.6 | -- | 141 | 7.4 | 9.65 |
| 17... | 1800 | 9813 | 1028 | 147 | -- | -- | 6.6 | -- | 140 | 6.3 | 9.07 |
| 18... | 0200 | 9813 | 1028 | 128 | -- | -- | 6.6 | -- | 146 | 4.6 | 10.4 |
| 22... | 1500 | 9813 | 1028 | 562 | -- | -- | 6.3 | -- | 114 | 7.6 | 7.53 |
| 27... | 2200 | 9813 | 1028 | 213 | -- | -- | 6.3 | 6.0 | 158 | 9.3 | 9.36 |
| 27... | 2300 | 9813 | 1028 | 312 | -- | -- | 6.4 | 6.1 | 153 | 9.4 | 9.06 |
| 28... | 0001 | 9813 | 1028 | 446 | -- | -- | 6.6 | 6.0 | 136 | 9.3 | 7.98 |
| 28... | 0200 | 9813 | 1028 | 562 | -- | -- | 6.5 | 6.0 | 118 | 8.8 | 7.61 |
| 28... | 0400 | 9813 | 1028 | 597 | -- | -- | 6.3 | 5.9 | 111 | 8.3 | 7.44 |
| 28... | 1000 | 9813 | 1028 | 417 | -- | -- | 6.3 | 5.9 | 119 | 8.2 | 8.07 |
| 28... | 1800 | 9813 | 1028 | 308 | -- | -- | 6.3 | 5.9 | 131 | 9.3 | 8.86 |
| 28... | 2200 | 9813 | 1028 | 293 | -- | -- | 6.2 | 5.9 | 137 | 8.8 | 9.07 |
| 29... | 0800 | 9813 | 1028 | 252 | -- | -- | 6.2 | 5.9 | 145 | 7.7 | 9.46 |
| APR | | | | | | | | | | | |
| 04... | 0430 | 9813 | 1028 | 222 | -- | -- | 6.6 | 6.0 | 170 | 11.8 | 9.30 |
| 04... | 0600 | 9813 | 1028 | 249 | -- | -- | 6.7 | 6.1 | 163 | 11.7 | 10.0 |
| 04... | 0800 | 9813 | 1028 | 281 | -- | -- | 6.5 | 6.0 | 162 | 11.3 | 9.21 |
| 04... | 1000 | 9813 | 1028 | 281 | -- | -- | 6.5 | 6.0 | 155 | 11.1 | 9.03 |
| 04... | 1200 | 9813 | 1028 | 270 | -- | -- | 6.4 | 6.0 | 150 | 11.1 | 8.64 |
| 04... | 1400 | 9813 | 1028 | 256 | -- | -- | 6.4 | 6.0 | 153 | 11.2 | 9.19 |
| 04... | 1600 | 9813 | 1028 | 239 | -- | -- | 6.4 | 6.0 | 149 | 11.1 | 9.55 |
| 04... | 1800 | 9813 | 1028 | 222 | -- | -- | 6.4 | 6.2 | 149 | 10.7 | 7.02 |
| 17... | 1030 | 9813 | 1028 | 123 | 100 | 11.1 | 6.5 | 6.2 | 195 | 10.5 | 12.2 |
| MAY | | | | | | | | | | | |
| 17... | 0915 | 9813 | 1028 | 70 | 98 | 10.6 | 6.6 | 6.2 | 208 | 11.9 | 17.5 |
| 23... | 2145 | 9813 | 1028 | 133 | -- | -- | 6.7 | 6.3 | 179 | 13.0 | 12.5 |
| 24... | 0001 | 9813 | 1028 | 155 | -- | -- | 6.8 | 6.4 | 170 | 13.2 | 11.4 |
| 24... | 0400 | 9813 | 1028 | 203 | -- | -- | 6.7 | 6.3 | 143 | 12.9 | 9.23 |
| 24... | 0930 | 9813 | 1028 | 177 | -- | -- | 6.5 | 6.3 | 136 | 13.3 | 8.42 |
| JUN | | | | | | | | | | | |
| 06... | 0145 | 9813 | 1028 | 104 | -- | -- | 7.1 | 6.0 | 215 | 12.9 | 11.4 |
| 06... | 0400 | 9813 | 1028 | 126 | -- | -- | 7.2 | 6.0 | 189 | 12.8 | 10.9 |
| 06... | 0800 | 9813 | 1028 | 274 | -- | -- | 7.1 | 6.0 | 152 | 12.7 | 8.81 |
| 06... | 1000 | 9813 | 1028 | 281 | -- | -- | 7.1 | 6.0 | 143 | 12.8 | 8.85 |
| 06... | 1400 | 9813 | 1028 | 225 | -- | -- | 7.0 | 6.0 | 139 | 13.0 | 8.35 |
| 06... | 2000 | 9813 | 1028 | 163 | -- | -- | 6.9 | 5.9 | 144 | 12.8 | 8.32 |
| 07... | 0800 | 9813 | 1028 | 110 | -- | -- | 6.8 | -- | 167 | 12.2 | -- |
| 13... | 1500 | 9813 | 1028 | 79 | 99 | 10.0 | 6.8 | 6.2 | 194 | 15.1 | 13.7 |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE | CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925) | MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927) | POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) | POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937) | SODIUM, DIS- SOLVED (MG/L AS NA) (00930) | SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929) | ACIDITY (MG/L AS CACO3) (00435) | ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508) | ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410) |
|-------|--|---|--|--|---|---|--|---|--|--|
| OCT | | | | | | | | | | |
| 01... | 9.55 | 5.37 | 5.86 | -- | -- | 5.1 | 5.3 | .0 | 6.0 | -- |
| 01... | 9.82 | 5.94 | 6.16 | -- | -- | 5.4 | 5.5 | -- | 7.4 | -- |
| 18... | -- | 11.8 | -- | -- | -- | 6.8 | -- | .0 | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | |
| 06... | -- | 8.82 | -- | -- | -- | 5.5 | -- | 6.8 | -- | 10 |
| 14... | -- | 8.42 | -- | -- | -- | 5.9 | -- | -- | -- | -- |
| 14... | -- | 7.05 | -- | -- | -- | 6.2 | -- | -- | -- | -- |
| 14... | -- | 7.03 | -- | -- | -- | 6.2 | -- | -- | -- | -- |
| 14... | -- | 5.41 | -- | -- | -- | 5.3 | -- | -- | -- | -- |
| 14... | -- | 5.56 | -- | -- | -- | 5.4 | -- | -- | -- | -- |
| 14... | -- | 4.85 | -- | -- | -- | 5.6 | -- | -- | -- | -- |
| 14... | -- | 4.48 | -- | -- | -- | 4.8 | -- | -- | -- | -- |
| 15... | -- | 4.70 | -- | -- | -- | 4.6 | -- | -- | -- | -- |
| 15... | -- | 4.88 | -- | -- | -- | 4.4 | -- | -- | -- | -- |
| 15... | -- | 5.21 | -- | -- | -- | 4.6 | -- | -- | -- | -- |
| 15... | -- | 5.75 | -- | -- | -- | 5.0 | -- | -- | -- | -- |
| 16... | -- | 6.27 | -- | -- | -- | 5.0 | -- | -- | -- | -- |
| JAN | | | | | | | | | | |
| 19... | 14.4 | 9.67 | 10.2 | 1.1 | 1.1 | 5.5 | 5.8 | -- | .00 | -- |
| MAR | | | | | | | | | | |
| 01... | 9.13 | 6.24 | 6.25 | <1.0 | <1.0 | 6.6 | 6.6 | -- | 1.6 | -- |
| 17... | 11.5 | 8.24 | 8.12 | -- | -- | 6.8 | 6.7 | -- | 2.8 | -- |
| 17... | 11.8 | 7.61 | 7.62 | -- | -- | 7.4 | 7.4 | -- | 3.4 | -- |
| 17... | 11.0 | 7.24 | 7.19 | -- | -- | 7.8 | 7.8 | -- | .80 | -- |
| 17... | 10.7 | 6.91 | 6.74 | -- | -- | 7.6 | 7.3 | -- | 2.0 | -- |
| 17... | 9.94 | 6.57 | 6.29 | -- | -- | 7.2 | 7.3 | -- | 2.8 | -- |
| 17... | 9.92 | 6.19 | 6.43 | -- | -- | 6.7 | 6.8 | -- | 2.8 | -- |
| 17... | 8.92 | 5.76 | 5.66 | -- | -- | 6.8 | 6.7 | -- | 1.6 | -- |
| 18... | 10.4 | 6.93 | 7.06 | -- | -- | 7.8 | 6.8 | -- | 1.6 | -- |
| 22... | 7.26 | 4.80 | 4.69 | -- | -- | 5.2 | 5.4 | -- | 4.6 | -- |
| 27... | 10.1 | 7.20 | 7.78 | -- | -- | 4.8 | 5.1 | -- | 5.4 | -- |
| 27... | 9.98 | 6.25 | 6.89 | -- | -- | 5.1 | 5.4 | .0 | 4.2 | -- |
| 28... | 8.32 | 4.97 | 5.24 | -- | -- | 5.7 | 5.7 | .0 | 9.0 | -- |
| 28... | 7.69 | 4.83 | 4.89 | -- | -- | 5.4 | 5.2 | -- | 7.0 | -- |
| 28... | 7.73 | 5.20 | 5.28 | -- | -- | 5.0 | 5.0 | -- | 5.4 | -- |
| 28... | 8.10 | 5.76 | 5.80 | -- | -- | 5.1 | 5.1 | -- | 5.6 | -- |
| 28... | 8.85 | 6.31 | 6.30 | -- | -- | 5.2 | 5.2 | -- | 4.6 | -- |
| 28... | 9.13 | 6.58 | 6.62 | -- | -- | 5.1 | 5.4 | -- | 4.2 | -- |
| 29... | 9.56 | 6.60 | 6.66 | -- | -- | 5.4 | 5.3 | -- | 4.4 | -- |
| APR | | | | | | | | | | |
| 04... | 9.75 | 7.38 | 7.77 | -- | -- | 4.9 | 5.0 | -- | 3.8 | -- |
| 04... | 10.7 | 7.05 | 7.66 | -- | -- | 4.8 | 5.1 | -- | 1.2 | -- |
| 04... | 9.86 | 6.76 | 7.29 | -- | -- | 5.2 | 5.4 | -- | .40 | -- |
| 04... | 9.25 | 6.63 | 6.79 | -- | -- | 5.1 | 5.2 | -- | 4.0 | -- |
| 04... | 9.03 | 6.50 | 6.83 | -- | -- | 5.0 | 5.1 | -- | 6.0 | -- |
| 04... | 9.03 | 6.94 | 6.85 | -- | -- | 5.2 | 5.1 | -- | 6.0 | -- |
| 04... | 8.81 | 6.90 | 6.81 | -- | -- | 5.2 | 5.0 | -- | 5.2 | -- |
| 04... | 7.37 | 4.27 | 4.50 | -- | -- | 4.3 | 4.6 | -- | .00 | -- |
| 17... | 12.6 | 10.1 | 10.5 | 1.3 | 1.2 | 4.9 | 5.1 | -- | 8.0 | -- |
| MAY | | | | | | | | | | |
| 17... | 17.5 | 15.2 | 15.2 | -- | -- | 6.1 | 6.3 | -- | 1.6 | -- |
| 23... | 13.3 | 8.07 | 8.76 | -- | -- | 5.5 | 5.5 | -- | 3.4 | -- |
| 24... | 11.6 | 7.36 | 7.46 | -- | -- | 5.6 | 5.5 | -- | 2.0 | -- |
| 24... | 9.28 | 6.05 | 6.12 | -- | -- | 5.1 | 5.2 | -- | 6.0 | -- |
| 24... | 8.73 | 5.50 | 5.74 | -- | -- | 4.7 | 4.9 | -- | 4.6 | -- |
| JUN | | | | | | | | | | |
| 06... | 12.1 | 8.75 | 9.68 | -- | -- | 4.8 | 4.8 | -- | 3.0 | -- |
| 06... | 10.7 | 7.76 | 7.97 | -- | -- | 4.8 | 4.7 | -- | .80 | -- |
| 06... | 9.48 | 5.74 | 6.31 | -- | -- | 4.8 | 5.1 | -- | 8.6 | -- |
| 06... | 8.93 | 5.56 | 5.69 | -- | -- | 5.1 | 5.0 | -- | 5.2 | -- |
| 06... | 8.48 | 5.36 | 5.52 | -- | -- | 4.6 | 4.6 | -- | 4.8 | -- |
| 06... | 8.32 | 5.54 | 5.59 | -- | -- | 4.2 | 4.2 | -- | 2.0 | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 13.8 | 9.69 | 9.69 | 1.2 | 1.2 | 5.5 | 5.5 | -- | 2.0 | -- |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE | ANC WATER UNFLTRD FET LAB MG/L AS CACO3 (00417) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940) | SULFATE DIS- SOLVED (MG/L AS SO4) (00945) | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610) | NITRO- GEN, TOTAL (MG/L AS N) (00600) | NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620) | PHOS- PHORUS TOTAL (MG/L AS P) (00665) | OXID- ATION RED- UCTION POTEN- TIAL (MV) (00090) | RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530) | ALUM- INUM, DIS- SOLVED (MG/L AS AL) (01106) |
|-------|--|--|--|---|--|---|---|---|---|--|
| OCT | | | | | | | | | | |
| 01... | 5 | 7.6 | 46.7 | -- | -- | -- | -- | -- | 14 | <200 |
| 01... | 4 | 8.2 | 50.9 | -- | -- | -- | -- | -- | <2 | <200 |
| 18... | -- | 9.5 | 81.8 | -- | -- | -- | -- | 306 | -- | 31 |
| 20... | -- | -- | -- | -- | -- | -- | -- | 406 | -- | -- |
| DEC | | | | | | | | | | |
| 06... | -- | 8.0 | 63.2 | -- | -- | -- | -- | 388 | -- | 12 |
| 14... | -- | 8.3 | 55.7 | -- | -- | -- | -- | -- | -- | 27 |
| 14... | -- | 8.3 | 51.4 | -- | -- | -- | -- | -- | -- | 24 |
| 14... | -- | 8.6 | 51.2 | -- | -- | -- | -- | -- | -- | 23 |
| 14... | -- | 7.3 | 40.6 | -- | -- | -- | -- | -- | -- | 33 |
| 14... | -- | 7.6 | 41.2 | -- | -- | -- | -- | -- | -- | 44 |
| 14... | -- | 7.8 | 37.0 | -- | -- | -- | -- | -- | -- | 53 |
| 14... | -- | 8.0 | 32.9 | -- | -- | -- | -- | -- | -- | 75 |
| 15... | -- | 7.0 | 35.3 | -- | -- | -- | -- | -- | -- | 83 |
| 15... | -- | 6.7 | 36.1 | -- | -- | -- | -- | -- | -- | 86 |
| 15... | -- | 6.4 | 37.8 | -- | -- | -- | -- | -- | -- | 63 |
| 15... | -- | 6.8 | 41.5 | -- | -- | -- | -- | -- | -- | 42 |
| 16... | -- | 7.4 | 44.0 | -- | -- | -- | -- | -- | -- | 37 |
| JAN | | | | | | | | | | |
| 19... | 9 | 7.4 | 70.6 | -- | -- | -- | -- | 335 | <2 | <200 |
| MAR | | | | | | | | | | |
| 01... | 6 | 11.1 | 42.9 | -- | -- | -- | -- | 304 | <2 | <200 |
| 17... | 7 | 10.2 | 54.2 | -- | -- | -- | -- | -- | 10 | <200 |
| 17... | 7 | 11.8 | 49.2 | -- | -- | -- | -- | -- | 10 | <200 |
| 17... | 7 | 11.9 | 46.3 | -- | -- | -- | -- | -- | 8 | <200 |
| 17... | 7 | 12.3 | 43.9 | -- | -- | -- | -- | -- | 14 | <200 |
| 17... | 7 | 11.9 | 41.4 | -- | -- | -- | -- | -- | 12 | <200 |
| 17... | 7 | 11.1 | 41.0 | -- | -- | -- | -- | -- | 6 | <200 |
| 17... | 6 | 10.0 | 39.7 | -- | -- | -- | -- | -- | 8 | <200 |
| 18... | 7 | 10.4 | 44.0 | -- | -- | -- | -- | -- | 8 | <200 |
| 22... | 4 | 8.6 | 34.6 | -- | -- | -- | -- | 403 | 26 | <200 |
| 27... | 6 | 7.6 | 52.9 | -- | -- | -- | -- | -- | 38 | <200 |
| 27... | 7 | 8.0 | 45.9 | -- | -- | -- | -- | -- | 98 | <200 |
| 28... | 6 | 8.1 | 34.1 | -- | -- | -- | -- | -- | 100 | <200 |
| 28... | 5 | 7.8 | 33.1 | -- | -- | -- | -- | -- | 58 | <200 |
| 28... | 4 | 6.9 | 36.1 | -- | -- | -- | -- | -- | 42 | <200 |
| 28... | 4 | 7.3 | 39.3 | -- | -- | -- | -- | -- | 26 | <200 |
| 28... | 4 | 8.5 | 42.4 | -- | -- | -- | -- | -- | 16 | <200 |
| 28... | 4 | 8.3 | 44.5 | -- | -- | -- | -- | -- | 24 | <200 |
| 29... | 4 | 9.8 | 46.8 | -- | -- | -- | -- | -- | 14 | <200 |
| APR | | | | | | | | | | |
| 04... | 5 | 6.4 | 55.1 | .02 | .42 | -- | .020 | -- | 18 | <200 |
| 04... | 8 | 6.3 | 51.4 | .05 | .50 | -- | .040 | -- | 14 | <200 |
| 04... | 6 | 6.7 | 50.3 | .05 | .44 | -- | .040 | -- | 26 | <200 |
| 04... | 6 | 6.6 | 48.5 | .04 | .45 | -- | .020 | -- | 24 | <200 |
| 04... | 5 | 6.2 | 46.7 | .04 | .36 | -- | .020 | -- | 30 | <200 |
| 04... | 5 | 6.3 | 47.3 | .02 | .36 | -- | .020 | -- | 40 | <200 |
| 04... | 4 | 6.3 | 47.1 | .03 | .32 | -- | .020 | -- | 58 | <200 |
| 04... | 9 | 6.4 | 26.0 | .02 | 1.2 | -- | .020 | -- | <2 | <200 |
| 17... | 6 | 7.0 | 68.3 | -- | -- | -- | -- | 346 | 22 | <200 |
| MAY | | | | | | | | | | |
| 17... | 8 | 7.3 | 82.6 | <.02 | .22 | .14 | .010 | 95 | 10 | <200 |
| 23... | 8 | 6.6 | 57.6 | .06 | .53 | .23 | .040 | -- | 36 | <200 |
| 24... | 9 | 7.0 | 49.8 | .07 | .68 | .30 | .050 | -- | 50 | <200 |
| 24... | 8 | 6.5 | 40.8 | .03 | .65 | .23 | .060 | -- | 82 | <200 |
| 24... | 7 | 6.0 | 38.8 | .02 | .47 | .19 | .040 | -- | 34 | <200 |
| JUN | | | | | | | | | | |
| 06... | 8 | 7.2 | 70.0 | .02 | .53 | .21 | .050 | -- | 48 | <200 |
| 06... | 10 | 6.8 | 58.0 | .03 | .62 | .26 | .070 | -- | 62 | <200 |
| 06... | 8 | 6.8 | 44.4 | .02 | .77 | .24 | .180 | -- | 280 | <200 |
| 06... | 8 | 7.2 | 41.4 | .05 | .76 | .24 | .230 | -- | 110 | <200 |
| 06... | 7 | 6.5 | 41.3 | .03 | .63 | .20 | .080 | -- | 60 | <200 |
| 06... | 7 | 6.6 | 43.6 | .03 | .49 | .17 | .040 | -- | 28 | <200 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 8 | 7.3 | 70.3 | -- | -- | -- | -- | 304 | 16 | <200 |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE | ALUM- INUM, TOTAL RECOV- ERABLE (µG/L AS AL) (01105) | BARIUM, DIS- SOLVED (µG/L AS BA) (01005) | CADMIUM, DIS- SOLVED (µG/L AS CD) (01025) | CHRO- MIUM, DIS- SOLVED (µG/L AS CR) (01030) | COBALT, DIS- SOLVED (µG/L AS CO) (01035) | COBALT, TOTAL RECOV- ERABLE (µG/L AS CO) (01037) | COPPER, DIS- SOLVED (µG/L AS CU) (01040) | COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042) | IRON, DIS- SOLVED (µG/L AS FE) (01046) | IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045) |
|-------|---|---|--|--|---|--|---|--|---|--|
| OCT | | | | | | | | | | |
| 01... | 1780 | -- | -- | -- | <50 | <50 | <10 | 11 | 50 | 2730 |
| 01... | 1500 | -- | -- | -- | <50 | <50 | <10 | <10 | 60 | 2350 |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- | 390 | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | 340 | -- |
| 14... | -- | 29 | <8.0 | <14.0 | E10 | -- | <10 | -- | 20 | -- |
| 14... | -- | 22 | <8.0 | <14.0 | E7 | -- | <10 | -- | 10 | -- |
| 14... | -- | 21 | <8.0 | <14.0 | E10 | -- | <10 | -- | 20 | -- |
| 14... | -- | 19 | <8.0 | <14.0 | <13 | -- | <10 | -- | 30 | -- |
| 14... | -- | 19 | <8.0 | <14.0 | <13 | -- | <10 | -- | 30 | -- |
| 14... | -- | 19 | <8.0 | <14.0 | E7 | -- | <10 | -- | 50 | -- |
| 14... | -- | 18 | <8.0 | <14.0 | E6 | -- | <10 | -- | 70 | -- |
| 15... | -- | 20 | <8.0 | <14.0 | <13 | -- | <10 | -- | 90 | -- |
| 15... | -- | 22 | <8.0 | <14.0 | <13 | -- | <10 | -- | 110 | -- |
| 15... | -- | 22 | <8.0 | <14.0 | E8 | -- | <10 | -- | 110 | -- |
| 15... | -- | 23 | <8.0 | <14.0 | E7 | -- | <10 | -- | 150 | -- |
| 16... | -- | 24 | <8.0 | <14.0 | <13 | -- | <10 | -- | 190 | -- |
| JAN | | | | | | | | | | |
| 19... | 259 | -- | -- | -- | -- | -- | -- | -- | 760 | 1170 |
| MAR | | | | | | | | | | |
| 01... | 427 | -- | -- | -- | -- | -- | -- | -- | 530 | 1070 |
| 17... | 792 | -- | -- | -- | <50 | <50 | <10 | 13 | 230 | 2170 |
| 17... | 1050 | -- | -- | -- | <50 | <50 | 17 | 14 | 220 | 2400 |
| 17... | 771 | -- | -- | -- | <50 | <50 | 10 | 13 | 200 | 1840 |
| 17... | 751 | -- | -- | -- | <50 | <50 | <10 | 11 | 240 | 1830 |
| 17... | 684 | -- | -- | -- | <50 | <50 | <10 | 16 | 200 | 1730 |
| 17... | 593 | -- | -- | -- | <50 | <50 | 11 | 24 | 280 | 1520 |
| 17... | 458 | -- | -- | -- | <50 | <50 | 11 | 25 | 370 | 940 |
| 18... | 324 | -- | -- | -- | <50 | <50 | <10 | <10 | 460 | 790 |
| 22... | 1460 | -- | -- | -- | <50 | <50 | <10 | <10 | 260 | 2520 |
| 27... | 1580 | -- | -- | -- | <50 | <50 | <10 | 26 | 140 | 3940 |
| 27... | 3230 | -- | -- | -- | <50 | <50 | <10 | 18 | 250 | 5910 |
| 28... | 3220 | -- | -- | -- | <50 | <50 | 10 | 33 | 220 | 6670 |
| 28... | 2830 | -- | -- | -- | <50 | <50 | 10 | 34 | 240 | 4120 |
| 28... | 1830 | -- | -- | -- | <50 | <50 | 10 | 23 | 220 | 2740 |
| 28... | 1110 | -- | -- | -- | <50 | <50 | <10 | 24 | 280 | 1970 |
| 28... | 800 | -- | -- | -- | <50 | <50 | <10 | 20 | 200 | 1630 |
| 28... | 611 | -- | -- | -- | <50 | <50 | 13 | <10 | 240 | 1210 |
| 29... | 539 | -- | -- | -- | <50 | <50 | <10 | 38 | 220 | 1450 |
| APR | | | | | | | | | | |
| 04... | 1090 | -- | -- | -- | <50 | <50 | <10 | <10 | 130 | 1940 |
| 04... | 2530 | -- | -- | -- | <50 | <50 | <10 | <10 | 150 | 3780 |
| 04... | 2570 | -- | -- | -- | <50 | <50 | <10 | <10 | 100 | 3870 |
| 04... | 1240 | -- | -- | -- | <50 | <50 | <10 | <10 | 120 | 2170 |
| 04... | 1260 | -- | -- | -- | <50 | <50 | <10 | <10 | 130 | 2030 |
| 04... | 1170 | -- | -- | -- | <50 | <50 | <10 | 14 | 140 | 1750 |
| 04... | 888 | -- | -- | -- | <50 | <50 | 10 | 13 | 150 | 1570 |
| 04... | 592 | -- | -- | -- | <50 | <50 | <10 | <10 | 120 | 950 |
| 17... | 442 | -- | -- | -- | -- | -- | -- | -- | 570 | 1530 |
| MAY | | | | | | | | | | |
| 17... | 241 | -- | -- | -- | <50 | <50 | <10 | <10 | 450 | 1080 |
| 23... | 1530 | -- | -- | -- | <50 | <50 | <10 | <10 | 50 | 3440 |
| 24... | 1630 | -- | -- | -- | <50 | <50 | 48 | 25 | 60 | 3430 |
| 24... | 3880 | -- | -- | -- | <50 | <50 | <10 | 26 | 70 | 5820 |
| 24... | 2360 | -- | -- | -- | <50 | <50 | <10 | <10 | 100 | 3350 |
| JUN | | | | | | | | | | |
| 06... | 1780 | -- | -- | -- | <50 | <50 | <10 | <10 | 50 | 4800 |
| 06... | 2170 | -- | -- | -- | <50 | <50 | <10 | <10 | 50 | 4990 |
| 06... | 9090 | -- | -- | -- | <50 | <50 | <10 | 12 | 50 | 16900 |
| 06... | 6150 | -- | -- | -- | <50 | <50 | <10 | 15 | 60 | 10000 |
| 06... | 3130 | -- | -- | -- | <50 | <50 | <10 | <10 | 70 | 5040 |
| 06... | 1320 | -- | -- | -- | <50 | <50 | <10 | <10 | 110 | 2110 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 391 | -- | -- | -- | -- | -- | -- | -- | 340 | 1230 |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE | LEAD, DIS- SOLVED (µG/L AS PB) (01049) | LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051) | LITHIUM DIS- SOLVED (µG/L AS LI) (01130) | MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056) | MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055) | NICKEL, DIS- SOLVED (µG/L AS NI) (01065) | NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067) | STRON- TIUM, DIS- SOLVED (µG/L AS SR) (01080) | ZINC, DIS- SOLVED (µG/L AS ZN) (01090) | ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092) |
|-------|---|--|---|---|--|---|--|---|---|--|
| OCT | | | | | | | | | | |
| 01... | <1 | 2 | -- | 416 | 674 | <50 | 52 | -- | 41 | 80 |
| 01... | <1 | 2 | -- | 452 | 638 | <50 | <50 | -- | 43 | 84 |
| 18... | -- | -- | -- | 689 | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | |
| 06... | -- | -- | -- | 542 | -- | -- | -- | -- | -- | -- |
| 14... | <100 | -- | 7.4 | 523 | -- | E29 | -- | 58.9 | 39 | -- |
| 14... | <100 | -- | 7.2 | 454 | -- | <40 | -- | 51.6 | 33 | -- |
| 14... | <100 | -- | 6.8 | 451 | -- | <40 | -- | 51.6 | 30 | -- |
| 14... | <100 | -- | 5.2 | 346 | -- | <40 | -- | 46.4 | 23 | -- |
| 14... | <100 | -- | 5.9 | 346 | -- | E22 | -- | 49.8 | E15 | -- |
| 14... | <100 | -- | 5.3 | 318 | -- | E22 | -- | 45.7 | 22 | -- |
| 14... | <100 | -- | 4.3 | 304 | -- | E27 | -- | 38.5 | 23 | -- |
| 15... | <100 | -- | 4.8 | 345 | -- | E27 | -- | 38.1 | 27 | -- |
| 15... | <100 | -- | 4.2 | 354 | -- | <40 | -- | 38.9 | 29 | -- |
| 15... | <100 | -- | 4.9 | 378 | -- | <40 | -- | 39.3 | 29 | -- |
| 15... | <100 | -- | 5.8 | 417 | -- | E18 | -- | 43.5 | 38 | -- |
| 16... | <100 | -- | 5.5 | 434 | -- | E34 | -- | 46.3 | 37 | -- |
| JAN | | | | | | | | | | |
| 19... | -- | -- | -- | 638 | 680 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | |
| 01... | -- | -- | -- | 419 | 433 | -- | -- | -- | -- | -- |
| 17... | <1 | 2 | -- | 584 | 633 | <50 | <50 | -- | 72 | 83 |
| 17... | <1 | 2 | -- | 552 | 600 | <50 | <50 | -- | 66 | 77 |
| 17... | <1 | 1 | -- | 496 | 557 | <50 | <50 | -- | 56 | 61 |
| 17... | <1 | 2 | -- | 486 | 507 | <50 | <50 | -- | 51 | 62 |
| 17... | <1 | <1 | -- | 463 | 467 | 85 | 107 | -- | 53 | 57 |
| 17... | <1 | <1 | -- | 421 | 455 | 104 | 111 | -- | 54 | 57 |
| 17... | <1 | <1 | -- | 429 | 428 | <50 | <50 | -- | 51 | 56 |
| 18... | <1 | <1 | -- | 483 | 496 | <50 | 61 | -- | 54 | 52 |
| 22... | <1 | 3 | -- | 396 | 472 | <50 | <50 | -- | 66 | 51 |
| 27... | 1 | 3 | -- | 504 | 634 | <50 | <50 | -- | 61 | 85 |
| 27... | <1 | 9 | -- | 414 | 677 | <50 | <50 | -- | 43 | 101 |
| 28... | <1 | 6 | -- | 361 | 856 | 60 | 90 | -- | 38 | 84 |
| 28... | <1 | 4 | -- | 385 | 503 | <50 | 62 | -- | 49 | 92 |
| 28... | <1 | 2 | -- | 411 | 744 | <50 | <50 | -- | 55 | 76 |
| 28... | <1 | 2 | -- | 445 | 497 | <50 | <50 | -- | 74 | 93 |
| 28... | <1 | 1 | -- | 473 | 536 | <50 | 76 | -- | 69 | 79 |
| 28... | <1 | <1 | -- | 479 | 501 | <50 | <50 | -- | 67 | 72 |
| 29... | <1 | <1 | -- | 544 | 563 | 187 | 232 | -- | 72 | 82 |
| APR | | | | | | | | | | |
| 04... | <1 | 2 | -- | 490 | 552 | <50 | <50 | -- | 71 | 55 |
| 04... | <1 | 6 | -- | 459 | 556 | <50 | <50 | -- | 39 | 74 |
| 04... | <1 | 3 | -- | 465 | 561 | <50 | <50 | -- | 47 | 70 |
| 04... | 1 | 2 | -- | 458 | 514 | <50 | <50 | -- | 52 | 67 |
| 04... | <1 | 2 | -- | 444 | 489 | <50 | <50 | -- | 57 | 72 |
| 04... | <1 | 1 | -- | 476 | 491 | <50 | <50 | -- | 69 | 80 |
| 04... | <1 | <1 | -- | 475 | 480 | <50 | <50 | -- | 67 | 74 |
| 04... | <1 | 1 | -- | 198 | 239 | <50 | <50 | -- | 25 | 34 |
| 17... | -- | -- | -- | 620 | 657 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 17... | <1 | <1 | -- | 727 | 769 | <50 | <50 | -- | 58 | 59 |
| 23... | <1 | 2 | -- | 519 | 637 | <50 | <50 | -- | 46 | 67 |
| 24... | <1 | 4 | -- | 481 | 578 | <50 | <50 | -- | 36 | 64 |
| 24... | <1 | 4 | -- | 416 | 550 | <50 | <50 | -- | 34 | 105 |
| 24... | <1 | 2 | -- | 377 | 459 | <50 | <50 | -- | 34 | 50 |
| JUN | | | | | | | | | | |
| 06... | <1 | 3 | -- | 510 | 703 | <50 | <50 | -- | 40 | 75 |
| 06... | <1 | 4 | -- | 465 | 551 | <50 | <50 | -- | 32 | 64 |
| 06... | <1 | 12 | -- | 347 | 751 | <50 | <50 | -- | 18000 | 105 |
| 06... | <1 | 7 | -- | 335 | 628 | <50 | <50 | -- | 41 | 139 |
| 06... | <1 | 4 | -- | 337 | 499 | <50 | <50 | -- | 30 | 63 |
| 06... | <1 | 2 | -- | 367 | 428 | <50 | <50 | -- | 32 | 53 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | 646 | 669 | -- | -- | -- | -- | -- |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE | TIME | AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028) | AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027) | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN, DIS-SOLVED (MG/L) (00300) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | PH WATER WHOLE LAB (STAND-ARD UNITS) (00403) | SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095) | TEMPER-ATURE WATER (DEG C) (00010) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) |
|-------|------|--|---|---|---|-----------------------------------|--|--|---|------------------------------------|---|
| JUL | | | | | | | | | | | |
| 14... | 2100 | 9813 | 1028 | -- | -- | -- | -- | 6.1 | -- | -- | 17.5 |
| 14... | 2200 | 9813 | 1028 | -- | -- | -- | -- | 6.1 | -- | -- | 17.9 |
| 15... | 0400 | 9813 | 1028 | -- | -- | -- | -- | 6.1 | -- | -- | 16.5 |
| 15... | 1600 | 9813 | 1028 | -- | -- | -- | -- | 6.2 | -- | -- | 17.8 |
| 15... | 1800 | 9813 | 1028 | -- | -- | -- | -- | 6.1 | -- | -- | 15.0 |
| 15... | 2000 | 9813 | 1028 | -- | -- | -- | -- | 6.1 | -- | -- | 14.6 |
| 16... | 0001 | 9813 | 1028 | -- | -- | -- | -- | 6.1 | -- | -- | 11.9 |
| 16... | 0600 | 9813 | 1028 | -- | -- | -- | -- | 6.1 | -- | -- | 12.3 |
| 16... | 1000 | 9813 | 1028 | -- | -- | -- | -- | 6.1 | -- | -- | 12.5 |
| AUG | | | | | | | | | | | |
| 01... | 1745 | 9813 | 1028 | 98 | -- | -- | 6.5 | 6.3 | 135 | 20.2 | 11.4 |
| 01... | 1800 | 9813 | 1028 | 147 | -- | -- | 6.9 | 6.4 | 137 | 20.2 | 10.7 |
| 01... | 2000 | 9813 | 1028 | 252 | -- | -- | 6.9 | 6.3 | 133 | 19.3 | 10.6 |
| 01... | 2200 | 9813 | 1028 | 191 | -- | -- | 7.1 | 6.3 | 133 | 19.0 | 10.9 |
| 02... | 0200 | 9813 | 1028 | 147 | -- | -- | 6.9 | 6.2 | 126 | 18.4 | 10.9 |
| 02... | 0600 | 9813 | 1028 | 117 | -- | -- | 6.8 | 6.2 | 134 | 18.0 | 10.5 |
| 02... | 1115 | 9813 | 1028 | 96 | 96 | 9.0 | 6.9 | 6.2 | 141 | 18.8 | 10.2 |
| 02... | 1200 | 9813 | 1028 | 94 | -- | -- | 6.8 | 6.2 | 140 | 19.2 | 10.6 |
| 02... | 2000 | 9813 | 1028 | 72 | -- | -- | 6.9 | 6.2 | 156 | 19.3 | 11.1 |
| SEP | | | | | | | | | | | |
| 13... | 1030 | 9813 | 1028 | 96 | 99 | 9.4 | 6.9 | 6.4 | 193 | 18.0 | 16.7 |

| DATE | CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929) | ACIDITY AS CAC03 (00435) | ACIDITY HEATED AS CAC03 (70508) | ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417) |
|-------|---|---|---|--|--|---|---|--------------------------|---------------------------------|---|
| JUL | | | | | | | | | | |
| 14... | 18.1 | 13.4 | 15.1 | -- | -- | 5.8 | 6.1 | -- | 2.6 | 11 |
| 14... | 19.4 | 14.1 | 15.5 | -- | -- | 5.5 | 5.9 | -- | 4.2 | 11 |
| 15... | 16.5 | 10.4 | 10.3 | -- | -- | 5.5 | 5.4 | -- | .40 | 11 |
| 15... | 18.0 | 10.3 | 10.5 | -- | -- | 5.5 | 5.5 | -- | .00 | 15 |
| 15... | 15.5 | 8.89 | 9.49 | -- | -- | 5.3 | 5.5 | -- | 7.2 | 11 |
| 15... | 15.4 | 8.51 | 9.28 | -- | -- | 5.4 | 5.5 | -- | 6.4 | 12 |
| 16... | 11.8 | 7.08 | 7.02 | -- | -- | 4.9 | 4.7 | -- | 6.6 | 8 |
| 16... | 12.9 | 7.34 | 7.85 | -- | -- | 4.5 | 4.5 | -- | 5.0 | 7 |
| 16... | 12.7 | 7.82 | 8.28 | -- | -- | 4.5 | 4.6 | -- | 2.4 | 7 |
| AUG | | | | | | | | | | |
| 01... | 12.0 | 7.21 | 7.53 | -- | -- | 4.4 | 4.3 | -- | 8.2 | 10 |
| 01... | 11.5 | 6.67 | 7.36 | -- | -- | 4.6 | 4.4 | -- | 5.6 | 12 |
| 01... | 11.1 | 6.21 | 6.59 | -- | -- | 4.7 | 4.8 | -- | 16 | 10 |
| 01... | 12.4 | 5.67 | 5.99 | -- | -- | 4.7 | 4.8 | -- | 5.4 | 11 |
| 02... | 9.96 | 5.72 | 5.89 | -- | -- | 4.5 | 4.3 | -- | 6.6 | 8 |
| 02... | 10.9 | 6.28 | 6.78 | -- | -- | 4.4 | 4.4 | -- | 6.0 | 7 |
| 02... | 9.94 | 6.67 | 6.56 | 1.2 | 1.3 | 4.3 | 3.9 | -- | 12 | 7 |
| 02... | 10.6 | 6.75 | 6.95 | -- | -- | 4.5 | 4.5 | -- | 5.2 | 7 |
| 02... | 11.9 | 7.28 | 8.24 | -- | -- | 4.6 | 5.1 | -- | 3.2 | 7 |
| SEP | | | | | | | | | | |
| 13... | 18.0 | 7.13 | 7.45 | 2.1 | 2.3 | 4.4 | 4.3 | .0 | 3.0 | 11 |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE | CHLO- | SULFATE | OXID- | RESIDUE | ALUM- | ALUM- | COBALT, | COBALT, | COPPER, | COPPER, |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | RIDE, | | ATION | TOTAL | | INUM, | | TOTAL | | COBALT, |
| | DIS- | DIS- | RED- | AT 105 | DIS- | RECOV- | DIS- | RECOV- | DIS- | RECOV- |
| | SOLVED | SOLVED | POTEN- | SUS- | SOLVED | ERABLE | SOLVED | ERABLE | SOLVED | ERABLE |
| | (MG/L | (MG/L | TIAL | PENDE | (MG/L | (MG/L | (MG/L | (MG/L | (MG/L | (MG/L |
| | AS CL) | AS SO4) | (MV) | (MG/L) | AS AL) | AS AL) | AS CO) | AS CO) | AS CU) | AS CU) |
| | (00940) | (00945) | (00090) | (00530) | (01106) | (01105) | (01035) | (01037) | (01040) | (01042) |
| JUL | | | | | | | | | | |
| 14... | 8.5 | 86.1 | -- | 40 | <200 | 2550 | <50 | <50 | <10 | <10 |
| 14... | 8.3 | 86.3 | -- | 108 | <200 | 3670 | <50 | <50 | <10 | 16 |
| 15... | 8.0 | 67.3 | -- | 154 | <200 | 3520 | <50 | <50 | <10 | 11 |
| 15... | 8.8 | 69.0 | -- | 142 | <200 | 3200 | <50 | <50 | <10 | 14 |
| 15... | 7.2 | 61.4 | -- | 294 | <200 | 7490 | <50 | 51 | <10 | 30 |
| 15... | 7.5 | 59.8 | -- | 320 | <200 | 9790 | <50 | 51 | <10 | 40 |
| 16... | 6.2 | 45.7 | -- | 122 | <200 | 4060 | <50 | <50 | <10 | 14 |
| 16... | 6.0 | 54.3 | -- | 62 | <200 | 4670 | <50 | <50 | <10 | 13 |
| 16... | 6.4 | 58.0 | -- | 24 | <200 | 1490 | <50 | <50 | <10 | <10 |
| AUG | | | | | | | | | | |
| 01... | 5.2 | 48.7 | -- | -- | <200 | 3400 | <50 | <50 | <10 | 30 |
| 01... | 5.3 | 42.2 | -- | 246 | <200 | 6080 | <50 | <50 | <10 | 19 |
| 01... | 5.8 | 43.3 | -- | 316 | <200 | 7200 | <50 | <50 | <10 | 25 |
| 01... | 5.5 | 40.4 | -- | 168 | <200 | 5660 | <50 | <50 | <10 | 15 |
| 02... | 5.4 | 42.1 | -- | 70 | <200 | 4040 | <50 | <50 | <10 | <10 |
| 02... | 5.6 | 47.3 | -- | 26 | <200 | 1650 | <50 | <50 | <10 | <10 |
| 02... | 5.4 | 48.2 | 351 | 34 | <200 | 886 | -- | -- | -- | -- |
| 02... | 5.8 | 49.9 | -- | 36 | <200 | 821 | <50 | <50 | <10 | <10 |
| 02... | 6.7 | 56.9 | -- | 20 | <200 | 727 | <50 | <50 | <10 | <10 |
| SEP | | | | | | | | | | |
| 13... | 29.9 | 55.3 | 414 | 112 | 1290 | 3690 | -- | -- | -- | -- |
| DATE | IRON, | IRON, | LEAD, | LEAD, | MANGA- | MANGA- | NICKEL, | NICKEL, | ZINC, | ZINC, |
| | DIS- | TOTAL | DIS- | TOTAL | NESE, | NESE, | | TOTAL | TOTAL | DIS- |
| | SOLVED | RECOV- | SOLVED | RECOV- | DIS- | RECOV- | DIS- | RECOV- | SOLVED | RECOV- |
| | ERABLE | ERABLE | ERABLE | ERABLE | SOLVED | ERABLE | SOLVED | ERABLE | ERABLE | ERABLE |
| | (MG/L | (MG/L | (MG/L | (MG/L | (MG/L | (MG/L | (MG/L | (MG/L | (MG/L | (MG/L |
| | AS FE) | AS FE) | AS PB) | AS PB) | AS MN) | AS MN) | AS NI) | AS NI) | AS ZN) | AS ZN) |
| | (01046) | (01045) | (01049) | (01051) | (01056) | (01055) | (01065) | (01067) | (01090) | (01092) |
| JUL | | | | | | | | | | |
| 14... | 80 | 8670 | <1 | 8 | 466 | 1510 | <50 | <50 | 99 | 102 |
| 14... | 70 | 14700 | <1 | 7 | 357 | 1020 | <50 | <50 | 105 | 110 |
| 15... | 50 | 9790 | <1 | 6 | 339 | 674 | <50 | <50 | 116 | 152 |
| 15... | 60 | 6980 | <1 | 6 | 335 | 636 | <50 | <50 | 111 | 173 |
| 15... | 60 | 29100 | <1 | 18 | 245 | 1670 | <50 | 61 | 85 | 306 |
| 15... | 60 | 36600 | <1 | 26 | 218 | 1800 | <50 | 64 | 85 | 330 |
| 16... | 220 | 9810 | <1 | 8 | 235 | 721 | <50 | <50 | 338 | 402 |
| 16... | 110 | 5850 | <1 | 4 | 373 | 690 | <50 | <50 | 344 | 415 |
| 16... | 220 | 2220 | <1 | 2 | 464 | 660 | <50 | <50 | 349 | 393 |
| AUG | | | | | | | | | | |
| 01... | 40 | 6140 | <1 | 7 | 99 | 562 | <50 | <50 | 10 | 83 |
| 01... | 90 | 13000 | <1 | 20 | 10 | 749 | <50 | <50 | <10 | 126 |
| 01... | 90 | 19000 | <1 | 18 | 18 | 780 | <50 | <50 | <10 | 129 |
| 01... | 90 | 9520 | <1 | 8 | 39 | 555 | <50 | <50 | <10 | 76 |
| 02... | 100 | 3740 | <1 | 3 | 75 | 403 | <50 | <50 | <10 | 49 |
| 02... | 140 | 1970 | <1 | 2 | 204 | 470 | <50 | <50 | 15 | 53 |
| 02... | 360 | 1370 | -- | -- | 459 | 485 | -- | -- | -- | -- |
| 02... | 340 | 1260 | <1 | <1 | 284 | 432 | <50 | <50 | 22 | 44 |
| 02... | 170 | 1120 | <1 | <1 | 300 | 475 | <50 | <50 | 29 | 47 |
| SEP | | | | | | | | | | |
| 13... | 2060 | 6790 | -- | -- | 513 | 679 | -- | -- | -- | -- |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----------------|-----|------|-----------------|-----|------|-----------------|-----|------|----------------|-----|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 205 | 161 | 188 | 276 | 249 | 263 | 194 | 178 | 187 | 223 | 210 | 216 |
| 2 | 229 | 199 | 212 | 279 | 207 | 260 | 199 | 180 | 189 | 225 | 211 | 219 |
| 3 | 236 | 163 | 215 | 238 | 177 | 194 | 205 | 186 | 196 | 231 | 209 | 218 |
| 4 | --- | --- | --- | 233 | 197 | 211 | 206 | 189 | 196 | 226 | 190 | 214 |
| 5 | --- | --- | --- | 247 | 225 | 237 | 202 | 188 | 195 | 203 | 186 | 195 |
| 6 | --- | --- | --- | 248 | 232 | 239 | 207 | 187 | 195 | 227 | 191 | 210 |
| 7 | 228 | 198 | 213 | 248 | 232 | 240 | 204 | 184 | 194 | 235 | 217 | 225 |
| 8 | 237 | 220 | 229 | 259 | 236 | 250 | 211 | 185 | 200 | 235 | 218 | 226 |
| 9 | 241 | 226 | 233 | 257 | 238 | 248 | 217 | 201 | 208 | 236 | 218 | 227 |
| 10 | 241 | 160 | 198 | 253 | 237 | 247 | 221 | 204 | 212 | 243 | 139 | 207 |
| 11 | 190 | 159 | 173 | 265 | 245 | 257 | 216 | 198 | 208 | 174 | 139 | 157 |
| 12 | 212 | 187 | 202 | 262 | 242 | 253 | 219 | 202 | 210 | 192 | 173 | 183 |
| 13 | 218 | 204 | 211 | 264 | 243 | 252 | 224 | 203 | 213 | 193 | 184 | 188 |
| 14 | 217 | 200 | 208 | 273 | 251 | 263 | 218 | 125 | 183 | 200 | 185 | 192 |
| 15 | 231 | 208 | 219 | 269 | 245 | 257 | 144 | 126 | 134 | 210 | 197 | 203 |
| 16 | 238 | 222 | 231 | 277 | 251 | 261 | 152 | 141 | 148 | 205 | 198 | 202 |
| 17 | 237 | 218 | 228 | 280 | 262 | 271 | 165 | 150 | 157 | 221 | 200 | 208 |
| 18 | 242 | 224 | 233 | 277 | 256 | 263 | 172 | 160 | 166 | 227 | 217 | 222 |
| 19 | 254 | 227 | 241 | 276 | 252 | 262 | 173 | 164 | 169 | 224 | 204 | 215 |
| 20 | 269 | 223 | 243 | 279 | 254 | 268 | 178 | 166 | 173 | 222 | 203 | 211 |
| 21 | 256 | 234 | 246 | 269 | 247 | 257 | 173 | 163 | 168 | 223 | 205 | 215 |
| 22 | 255 | 238 | 246 | 268 | 244 | 254 | 180 | 168 | 174 | 235 | 207 | 217 |
| 23 | 253 | 234 | 242 | 274 | 251 | 264 | 197 | 178 | 186 | 230 | 209 | 221 |
| 24 | 267 | 234 | 249 | 272 | 244 | 255 | 203 | 189 | 195 | 224 | 209 | 216 |
| 25 | 263 | 240 | 254 | 253 | 210 | 228 | 205 | 193 | 198 | 227 | 209 | 217 |
| 26 | 265 | 243 | 255 | 231 | 148 | 213 | 207 | 196 | 201 | 227 | 212 | 219 |
| 27 | 270 | 251 | 260 | 148 | 124 | 134 | 209 | 194 | 202 | 231 | 184 | 219 |
| 28 | 269 | 244 | 259 | 174 | 145 | 159 | 207 | 196 | 201 | 247 | 218 | 233 |
| 29 | 275 | 244 | 260 | 187 | 165 | 175 | 212 | 197 | 205 | 247 | 225 | 234 |
| 30 | 280 | 255 | 268 | 192 | 178 | 185 | 218 | 199 | 207 | 246 | 227 | 235 |
| 31 | 277 | 255 | 263 | --- | --- | --- | 218 | 202 | 211 | 242 | 215 | 229 |
| MONTH | 280 | 159 | 231 | 280 | 124 | 237 | 224 | 125 | 190 | 247 | 139 | 213 |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 231 | 216 | 223 | 155 | 147 | 152 | 187 | 173 | 179 | --- | --- | --- |
| 2 | 245 | 219 | 232 | 176 | 146 | 153 | 191 | 174 | 185 | --- | --- | --- |
| 3 | 245 | 216 | 232 | 161 | 152 | 157 | 197 | 177 | 190 | --- | --- | --- |
| 4 | 245 | 219 | 227 | 162 | 156 | 159 | 180 | 147 | 159 | --- | --- | --- |
| 5 | 250 | 227 | 237 | 167 | 156 | 162 | 183 | 160 | 172 | --- | --- | --- |
| 6 | 245 | 219 | 228 | 174 | 161 | 167 | 190 | 175 | 185 | --- | --- | --- |
| 7 | 235 | 221 | 228 | 169 | 160 | 164 | 200 | 184 | 193 | --- | --- | --- |
| 8 | 250 | 222 | 234 | 179 | 159 | 169 | 203 | 158 | 194 | --- | --- | --- |
| 9 | 255 | 228 | 242 | 174 | 162 | 167 | 174 | 145 | 159 | --- | --- | --- |
| 10 | 247 | 224 | 233 | 175 | 162 | 170 | 171 | 160 | 165 | --- | --- | --- |
| 11 | 262 | 239 | 250 | 183 | 160 | 173 | 171 | 163 | 167 | --- | --- | --- |
| 12 | 259 | 233 | 247 | 161 | 139 | 150 | 180 | 166 | 172 | --- | --- | --- |
| 13 | 263 | 237 | 245 | 171 | 154 | 163 | 188 | 176 | 182 | --- | --- | --- |
| 14 | 334 | 222 | 284 | 176 | 164 | 170 | 195 | 179 | 186 | --- | --- | --- |
| 15 | 226 | 197 | 212 | 172 | 163 | 167 | 200 | 183 | 193 | --- | --- | --- |
| 16 | 215 | 194 | 205 | 177 | 165 | 170 | 198 | 188 | 194 | --- | --- | --- |
| 17 | 213 | 191 | 198 | 175 | 139 | 149 | 197 | 181 | 190 | --- | --- | --- |
| 18 | 198 | 188 | 194 | 161 | 145 | 154 | 195 | 176 | 185 | --- | --- | --- |
| 19 | 222 | 194 | 209 | 166 | 156 | 160 | --- | --- | --- | --- | --- | --- |
| 20 | 217 | 201 | 208 | 167 | 158 | 163 | --- | --- | --- | --- | --- | --- |
| 21 | 230 | 203 | 214 | 164 | 94 | 142 | --- | --- | --- | --- | --- | --- |
| 22 | 235 | 214 | 223 | 125 | 96 | 108 | --- | --- | --- | --- | --- | --- |
| 23 | 235 | 217 | 226 | 136 | 120 | 129 | --- | --- | --- | 182 | 159 | 171 |
| 24 | 226 | 207 | 217 | 148 | 131 | 139 | --- | --- | --- | 170 | 134 | 145 |
| 25 | 220 | 161 | 201 | 157 | 143 | 150 | --- | --- | --- | 166 | 145 | 155 |
| 26 | 161 | 151 | 155 | 161 | 141 | 153 | --- | --- | --- | 176 | 164 | 170 |
| 27 | 159 | 146 | 154 | 171 | 136 | 162 | --- | --- | --- | 180 | 165 | 173 |
| 28 | 161 | 141 | 148 | 139 | 110 | 124 | --- | --- | --- | 183 | 168 | 175 |
| 29 | 155 | 147 | 151 | 154 | 136 | 146 | --- | --- | --- | 189 | 177 | 183 |
| 30 | --- | --- | --- | 165 | 150 | 157 | --- | --- | --- | 197 | 181 | 190 |
| 31 | --- | --- | --- | 179 | 160 | 170 | --- | --- | --- | 206 | 187 | 197 |
| MONTH | 334 | 141 | 216 | 183 | 94 | 155 | 203 | 145 | 181 | 206 | 134 | 173 |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 214 | 193 | 206 | 194 | 177 | 185 | 197 | 110 | 167 | 285 | 183 | 227 |
| 2 | 215 | 189 | 206 | 194 | 179 | 187 | 159 | 118 | 139 | 223 | 192 | 207 |
| 3 | 222 | 203 | 213 | 201 | 184 | 194 | 193 | 156 | 171 | 256 | 218 | 234 |
| 4 | 238 | 212 | 223 | 201 | 181 | 191 | 195 | 175 | 187 | 268 | 250 | 259 |
| 5 | 238 | 209 | 225 | 200 | 185 | 193 | 221 | 188 | 204 | 271 | 247 | 259 |
| 6 | 216 | 136 | 158 | 219 | 189 | 205 | 222 | 192 | 204 | 279 | 256 | 265 |
| 7 | 187 | 149 | 171 | 217 | 199 | 207 | 208 | 186 | 196 | 298 | 264 | 282 |
| 8 | 198 | 178 | 188 | 215 | 201 | 208 | 237 | 196 | 215 | 293 | 265 | 274 |
| 9 | 210 | 187 | 198 | 219 | 206 | 211 | 236 | 207 | 222 | 279 | 265 | 272 |
| 10 | 221 | 197 | 211 | 223 | 200 | 213 | 236 | 216 | 225 | 310 | 269 | 282 |
| 11 | 223 | 200 | 216 | 228 | 213 | 221 | 246 | 223 | 233 | 317 | 273 | 291 |
| 12 | 210 | 182 | 194 | 225 | 210 | 217 | 255 | 200 | 239 | 291 | 188 | 273 |
| 13 | 197 | 171 | 190 | 228 | 209 | 217 | 240 | 221 | 228 | 224 | 145 | 191 |
| 14 | 177 | 148 | 161 | 230 | 182 | 217 | 240 | 220 | 230 | 269 | 210 | 243 |
| 15 | 184 | 165 | 176 | 203 | 129 | 178 | 253 | 233 | 243 | 254 | 230 | 244 |
| 16 | 193 | 172 | 182 | 180 | 141 | 161 | 245 | 221 | 232 | 276 | 243 | 259 |
| 17 | 207 | 184 | 193 | 201 | 173 | 187 | 252 | 227 | 239 | 303 | 265 | 283 |
| 18 | 208 | 163 | 190 | 227 | 192 | 208 | 271 | 242 | 258 | 304 | 268 | 287 |
| 19 | 196 | 164 | 183 | 230 | 208 | 218 | 263 | 238 | 247 | 299 | 189 | 258 |
| 20 | 204 | 183 | 194 | 235 | 212 | 221 | 260 | 239 | 247 | 234 | 187 | 205 |
| 21 | 208 | 139 | 194 | 243 | 211 | 230 | 276 | 244 | 256 | 259 | 224 | 245 |
| 22 | 167 | 137 | 151 | 229 | 197 | 217 | 278 | 245 | 259 | 271 | 242 | 256 |
| 23 | 191 | 163 | 177 | 245 | 216 | 228 | 260 | 240 | 252 | 277 | 256 | 266 |
| 24 | 203 | 182 | 191 | 248 | 227 | 241 | 260 | 227 | 246 | 291 | 257 | 280 |
| 25 | 208 | 141 | 193 | 239 | 225 | 232 | 273 | 249 | 261 | 282 | 251 | 269 |
| 26 | 144 | 97 | 116 | 247 | 229 | 237 | 270 | 251 | 259 | 258 | 216 | 236 |
| 27 | 166 | 134 | 152 | --- | --- | --- | 267 | 224 | 257 | 262 | 223 | 242 |
| 28 | 173 | 158 | 167 | --- | --- | --- | 263 | 210 | 241 | 271 | 245 | 257 |
| 29 | 182 | 165 | 173 | --- | --- | --- | 260 | 235 | 247 | 269 | 250 | 262 |
| 30 | 189 | 169 | 177 | --- | --- | --- | 257 | 234 | 246 | 285 | 258 | 268 |
| 31 | --- | --- | --- | --- | --- | --- | 284 | 243 | 260 | --- | --- | --- |
| MONTH | 238 | 97 | 186 | 248 | 129 | 209 | 284 | 110 | 229 | 317 | 145 | 256 |
| YEAR | 334 | 94 | 209 | | | | | | | | | |

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN |
|-----|---------|-----|--------|----------|-----|--------|----------|-----|--------|---------|-----|--------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 6.8 | 6.6 | 6.7 | 7.0 | 6.8 | 6.9 | 6.7 | 6.5 | 6.6 | 6.8 | 6.7 | 6.8 |
| 2 | 6.7 | 6.5 | 6.7 | 6.9 | 6.7 | 6.8 | 6.7 | 6.6 | 6.7 | 6.9 | 6.7 | 6.8 |
| 3 | 6.7 | 6.5 | 6.6 | 7.0 | 6.8 | 6.9 | 6.7 | 6.6 | 6.6 | 6.9 | 6.8 | 6.8 |
| 4 | 6.9 | 6.5 | 6.8 | 7.0 | 6.8 | 6.9 | 6.8 | 6.6 | 6.7 | 7.0 | 6.8 | 6.9 |
| 5 | 6.9 | 6.7 | 6.8 | 6.9 | 6.8 | 6.9 | 6.8 | 6.7 | 6.8 | 6.9 | 6.8 | 6.9 |
| 6 | 6.9 | 6.6 | 6.8 | 7.0 | 6.8 | 6.9 | 6.9 | 6.7 | 6.8 | 6.8 | 6.7 | 6.8 |
| 7 | 6.9 | 6.8 | 6.9 | 7.0 | 6.9 | 7.0 | 6.9 | 6.8 | 6.8 | 6.9 | 6.7 | 6.7 |
| 8 | 6.9 | 6.7 | 6.8 | 6.9 | 6.7 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.7 | 6.8 |
| 9 | 6.8 | 6.6 | 6.7 | 6.8 | 6.7 | 6.7 | 6.8 | 6.5 | 6.7 | 6.8 | 6.7 | 6.7 |
| 10 | 6.9 | 6.6 | 6.7 | 6.9 | 6.7 | 6.8 | 6.7 | 6.6 | 6.7 | 6.8 | 6.6 | 6.7 |
| 11 | 6.7 | 6.6 | 6.6 | 6.8 | 6.7 | 6.8 | 6.7 | 6.6 | 6.6 | 6.7 | 6.5 | 6.6 |
| 12 | 6.7 | 6.6 | 6.7 | 6.9 | 6.8 | 6.8 | 6.7 | 6.5 | 6.6 | 6.7 | 6.6 | 6.6 |
| 13 | 6.7 | 6.6 | 6.7 | 6.9 | 6.8 | 6.9 | 6.8 | 6.6 | 6.7 | 6.7 | 6.6 | 6.6 |
| 14 | 6.7 | 6.5 | 6.7 | 6.9 | 6.8 | 6.8 | 6.9 | 6.6 | 6.7 | 6.6 | 6.5 | 6.5 |
| 15 | 6.7 | 6.5 | 6.7 | 7.0 | 6.7 | 6.9 | 6.6 | 6.5 | 6.5 | 6.6 | 6.5 | 6.5 |
| 16 | 6.6 | 6.5 | 6.6 | 7.0 | 6.8 | 7.0 | 6.6 | 6.5 | 6.5 | 6.7 | 6.6 | 6.6 |
| 17 | 6.6 | 6.6 | 6.6 | 7.0 | 6.9 | 6.9 | 6.5 | 6.3 | 6.4 | 6.6 | 6.4 | 6.5 |
| 18 | 7.1 | 6.6 | 6.8 | 7.0 | 6.9 | 6.9 | 6.5 | 6.4 | 6.5 | 6.6 | 6.4 | 6.5 |
| 19 | 7.1 | 6.9 | 7.0 | 6.9 | 6.8 | 6.9 | 6.6 | 6.5 | 6.6 | 6.7 | 6.5 | 6.6 |
| 20 | 7.1 | 6.9 | 7.0 | 6.8 | 6.7 | 6.8 | 6.7 | 6.6 | 6.6 | 6.7 | 6.6 | 6.7 |
| 21 | 7.0 | 6.9 | 6.9 | 6.9 | 6.8 | 6.8 | 6.6 | 6.6 | 6.6 | 6.8 | 6.7 | 6.7 |
| 22 | 6.9 | 6.8 | 6.9 | 7.0 | 6.8 | 6.9 | 6.7 | 6.6 | 6.7 | 6.8 | 6.7 | 6.7 |
| 23 | 7.0 | 6.9 | 6.9 | 6.9 | 6.7 | 6.8 | 6.8 | 6.6 | 6.7 | 6.7 | 6.6 | 6.7 |
| 24 | 7.0 | 6.7 | 6.9 | 7.0 | 6.8 | 7.0 | 6.8 | 6.6 | 6.7 | 6.7 | 6.6 | 6.7 |
| 25 | 6.9 | 6.7 | 6.8 | 7.0 | 6.8 | 6.9 | 6.8 | 6.7 | 6.7 | 6.7 | 6.5 | 6.6 |
| 26 | 6.9 | 6.8 | 6.9 | 6.9 | 6.7 | 6.8 | 6.8 | 6.7 | 6.7 | 6.6 | 6.5 | 6.6 |
| 27 | 6.9 | 6.6 | 6.8 | 6.8 | 6.6 | 6.6 | 6.8 | 6.7 | 6.8 | 6.6 | 6.5 | 6.6 |
| 28 | 6.9 | 6.7 | 6.8 | 6.7 | 6.4 | 6.7 | 6.8 | 6.7 | 6.8 | 6.6 | 6.5 | 6.5 |
| 29 | 6.9 | 6.8 | 6.9 | 6.7 | 6.4 | 6.6 | 6.9 | 6.7 | 6.8 | 6.7 | 6.5 | 6.5 |
| 30 | 6.9 | 6.7 | 6.8 | 6.6 | 6.5 | 6.6 | 6.9 | 6.8 | 6.8 | 6.7 | 6.6 | 6.6 |
| 31 | 6.9 | 6.7 | 6.9 | --- | --- | --- | 6.8 | 6.7 | 6.8 | 6.7 | 6.6 | 6.6 |
| MAX | 7.1 | 6.9 | 7.0 | 7.0 | 6.9 | 7.0 | 6.9 | 6.8 | 6.8 | 7.0 | 6.8 | 6.9 |
| MIN | 6.6 | 6.5 | 6.6 | 6.6 | 6.4 | 6.6 | 6.5 | 6.3 | 6.4 | 6.6 | 6.4 | 6.5 |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN | MAX | MIN | MEDIAN |
|------|-----------------|-----|--------|--------------|-----|---------|---------------|-----|--------|------------------|-----|--------|
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 6.7 | 6.6 | 6.7 | 6.7 | 6.3 | 6.7 | 6.6 | 6.4 | 6.5 | --- | --- | --- |
| 2 | 6.7 | 6.6 | 6.6 | 6.9 | 6.6 | 6.7 | 6.6 | 6.5 | 6.6 | --- | --- | --- |
| 3 | 6.8 | 6.6 | 6.7 | 6.9 | 6.8 | 6.9 | 6.7 | 6.4 | 6.6 | --- | --- | --- |
| 4 | 6.8 | 6.7 | 6.8 | 6.9 | 6.8 | 6.9 | 6.7 | 6.3 | 6.4 | --- | --- | --- |
| 5 | 6.8 | 6.7 | 6.7 | 6.9 | 6.8 | 6.8 | 6.4 | 6.3 | 6.4 | --- | --- | --- |
| 6 | 6.8 | 6.7 | 6.8 | 6.9 | 6.7 | 6.8 | 6.4 | 6.3 | 6.4 | --- | --- | --- |
| 7 | 6.8 | 6.7 | 6.8 | 6.8 | 6.7 | 6.8 | 6.4 | 6.3 | 6.4 | --- | --- | --- |
| 8 | 6.8 | 6.7 | 6.7 | 6.8 | 6.6 | 6.7 | 6.6 | 6.3 | 6.4 | --- | --- | --- |
| 9 | 6.7 | 6.6 | 6.7 | 6.9 | 6.6 | 6.8 | 6.6 | 6.3 | 6.4 | --- | --- | --- |
| 10 | 6.8 | 6.7 | 6.7 | 6.9 | 6.8 | 6.8 | 6.4 | 6.2 | 6.3 | --- | --- | --- |
| 11 | 6.8 | 6.7 | 6.7 | 6.8 | 6.7 | 6.8 | 6.4 | 6.3 | 6.3 | --- | --- | --- |
| 12 | 6.8 | 6.7 | 6.8 | 6.8 | 6.6 | 6.6 | 6.4 | 6.2 | 6.3 | --- | --- | --- |
| 13 | 6.8 | 6.7 | 6.7 | 6.7 | 6.4 | 6.6 | 6.4 | 6.2 | 6.4 | --- | --- | --- |
| 14 | 6.7 | 6.6 | 6.7 | 6.7 | 6.5 | 6.6 | 6.5 | 6.4 | 6.5 | --- | --- | --- |
| 15 | 6.6 | 6.5 | 6.6 | 6.8 | 6.6 | 6.7 | 6.5 | 6.3 | 6.4 | --- | --- | --- |
| 16 | 6.6 | 6.4 | 6.5 | 6.8 | 6.4 | 6.7 | 6.6 | 6.3 | 6.5 | --- | --- | --- |
| 17 | 6.5 | 6.4 | 6.5 | 6.7 | 6.5 | 6.6 | 6.7 | 6.4 | 6.6 | --- | --- | --- |
| 18 | 6.5 | 6.4 | 6.4 | 6.7 | 6.5 | 6.6 | 6.7 | 6.5 | 6.6 | --- | --- | --- |
| 19 | 6.6 | 6.4 | 6.4 | 6.7 | 6.6 | 6.7 | --- | --- | --- | --- | --- | --- |
| 20 | 6.7 | 6.6 | 6.6 | 6.7 | 6.6 | 6.6 | --- | --- | --- | --- | --- | --- |
| 21 | 6.7 | 6.6 | 6.6 | 6.7 | 6.2 | 6.7 | --- | --- | --- | --- | --- | --- |
| 22 | 6.8 | 6.5 | 6.6 | 6.4 | 5.9 | 6.2 | --- | --- | --- | --- | --- | --- |
| 23 | 6.9 | 6.7 | 6.8 | 6.4 | 6.2 | 6.3 | --- | --- | --- | 6.8 | 6.5 | 6.7 |
| 24 | 6.9 | 6.7 | 6.8 | 6.9 | 6.3 | 6.4 | --- | --- | --- | 6.8 | 6.4 | 6.7 |
| 25 | 6.9 | 6.5 | 6.8 | 6.4 | 6.2 | 6.3 | --- | --- | --- | 6.8 | 6.5 | 6.7 |
| 26 | 6.8 | 6.6 | 6.7 | 6.3 | 6.2 | 6.2 | --- | --- | --- | 6.7 | 6.3 | 6.6 |
| 27 | 6.6 | 6.5 | 6.6 | 6.6 | 6.2 | 6.3 | --- | --- | --- | 6.6 | 6.5 | 6.6 |
| 28 | 6.7 | 6.3 | 6.5 | 6.6 | 6.2 | 6.3 | --- | --- | --- | 6.6 | 6.5 | 6.6 |
| 29 | 6.5 | 6.3 | 6.3 | 6.4 | 6.1 | 6.3 | --- | --- | --- | 6.6 | 6.4 | 6.5 |
| 30 | --- | --- | --- | 6.5 | 6.3 | 6.4 | --- | --- | --- | 6.8 | 6.5 | 6.7 |
| 31 | --- | --- | --- | 6.4 | 6.3 | 6.4 | --- | --- | --- | 6.8 | 6.5 | 6.7 |
| MAX | 6.9 | 6.7 | 6.8 | 6.9 | 6.8 | 6.9 | 6.7 | 6.5 | 6.6 | 6.8 | 6.5 | 6.7 |
| MIN | 6.5 | 6.3 | 6.3 | 6.3 | 5.9 | 6.2 | 6.4 | 6.2 | 6.3 | 6.6 | 6.3 | 6.5 |
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 7.1 | 6.1 | 6.7 | 6.9 | 6.7 | 6.9 | 7.2 | 6.5 | 7.1 | 7.3 | 6.4 | 6.9 |
| 2 | 6.8 | 6.3 | 6.7 | 6.9 | 6.8 | 6.9 | 6.9 | 6.5 | 6.8 | 7.1 | 6.4 | 6.9 |
| 3 | 6.8 | 6.6 | 6.8 | 6.9 | 6.5 | 6.8 | 7.0 | 6.4 | 6.8 | 7.1 | 6.4 | 7.0 |
| 4 | 6.8 | 6.4 | 6.8 | 7.0 | 6.6 | 6.9 | 7.1 | 6.5 | 7.0 | 7.0 | 6.6 | 6.8 |
| 5 | 7.2 | 6.6 | 7.0 | 7.1 | 6.6 | 6.9 | 7.0 | 6.5 | 6.9 | 7.0 | 6.1 | 6.9 |
| 6 | 7.2 | 6.8 | 7.0 | 7.0 | 6.7 | 6.9 | 7.0 | 6.7 | 6.9 | 7.0 | 6.5 | 6.9 |
| 7 | 7.0 | 6.6 | 6.9 | 7.1 | 6.7 | 7.0 | 7.1 | 6.3 | 7.0 | 7.0 | 6.4 | 6.8 |
| 8 | 7.0 | 6.7 | 6.9 | 7.2 | 6.9 | 7.1 | 7.0 | 6.3 | 6.9 | 6.9 | 6.5 | 6.8 |
| 9 | 7.0 | 6.3 | 6.9 | 7.0 | 6.8 | 7.0 | 7.0 | 6.3 | 6.8 | 6.9 | 6.6 | 6.8 |
| 10 | 7.0 | 6.7 | 6.9 | 7.0 | 6.5 | 6.9 | 7.0 | 6.5 | 6.9 | 6.9 | 6.6 | 6.8 |
| 11 | 7.1 | 6.7 | 6.9 | 7.0 | 6.5 | 6.9 | 7.0 | 6.6 | 7.0 | 6.9 | 6.3 | 6.7 |
| 12 | 7.1 | 6.4 | 7.0 | 7.1 | 6.5 | 7.0 | 7.1 | 6.6 | 6.9 | 6.8 | 6.1 | 6.8 |
| 13 | 7.1 | 6.7 | 7.0 | 7.1 | 6.3 | 7.0 | 7.1 | 6.8 | 7.0 | 7.2 | 6.3 | 6.8 |
| 14 | 6.9 | 6.6 | 6.8 | 7.3 | 6.3 | 7.0 | 7.0 | 6.6 | 7.0 | 6.8 | 6.3 | 6.7 |
| 15 | 6.9 | 6.5 | 6.8 | 7.4 | 6.8 | 7.1 | 7.0 | 6.3 | 6.9 | 6.9 | 6.4 | 6.8 |
| 16 | 6.8 | 6.4 | 6.7 | 7.0 | 6.7 | 6.9 | 7.6 | 5.3 | 7.5 | 6.9 | 6.6 | 6.8 |
| 17 | 6.7 | 6.3 | 6.6 | 7.1 | 6.5 | 6.9 | 7.8 | 7.1 | 7.6 | 6.9 | 6.5 | 6.7 |
| 18 | 6.7 | 6.5 | 6.7 | 7.2 | 6.6 | 7.0 | 7.8 | 7.3 | 7.6 | 6.9 | 6.5 | 6.7 |
| 19 | 6.7 | 6.4 | 6.6 | 7.1 | 6.8 | 7.0 | 7.7 | 7.4 | 7.6 | 7.1 | 6.4 | 6.9 |
| 20 | 6.7 | 6.3 | 6.6 | 7.2 | 6.3 | 7.0 | 7.7 | 7.4 | 7.6 | 7.0 | 6.3 | 6.9 |
| 21 | 7.0 | 5.1 | 6.5 | 7.1 | 6.6 | 6.9 | 7.7 | 7.3 | 7.6 | 6.9 | 6.4 | 6.7 |
| 22 | 6.6 | 6.2 | 6.5 | 7.2 | 6.8 | 7.1 | 7.5 | 6.9 | 7.5 | 6.9 | 6.4 | 6.8 |
| 23 | 6.7 | 6.5 | 6.6 | 7.2 | 6.9 | 7.1 | 7.6 | 7.1 | 7.5 | 6.8 | 6.5 | 6.8 |
| 24 | 6.6 | 6.4 | 6.5 | 7.1 | 6.7 | 7.0 | 7.7 | 6.9 | 7.5 | 6.8 | 6.4 | 6.6 |
| 25 | 6.7 | 5.8 | 6.4 | 7.2 | 6.7 | 7.0 | 7.5 | 6.6 | 7.3 | 6.9 | 6.5 | 6.8 |
| 26 | 6.7 | 6.2 | 6.3 | 7.3 | 6.8 | 7.2 | 7.4 | 6.8 | 7.3 | 7.0 | 6.6 | 6.9 |
| 27 | 6.5 | 6.2 | 6.4 | --- | --- | --- | 7.4 | 7.1 | 7.3 | 6.9 | 6.5 | 6.8 |
| 28 | 6.5 | 6.2 | 6.4 | --- | --- | --- | 7.3 | 6.5 | 7.2 | 6.8 | 6.3 | 6.7 |
| 29 | 7.0 | 6.3 | 6.6 | --- | --- | --- | 7.2 | 6.4 | 7.1 | 6.9 | 6.3 | 6.8 |
| 30 | 7.0 | 6.8 | 7.0 | --- | --- | --- | 7.3 | 6.6 | 7.1 | 6.9 | 6.8 | 6.9 |
| 31 | --- | --- | --- | --- | --- | --- | 7.2 | 6.3 | 7.1 | --- | --- | --- |
| MAX | 7.2 | 6.8 | 7.0 | 7.4 | 6.9 | 7.2 | 7.8 | 7.4 | 7.6 | 7.3 | 6.8 | 7.0 |
| MIN | 6.5 | 5.1 | 6.3 | 6.9 | 6.3 | 6.8 | 6.9 | 5.3 | 6.8 | 6.8 | 6.1 | 6.6 |
| YEAR | MAX | | | MAXIMUM | 7.8 | MINIMUM | 6.3 | | | | | |
| | MIN | | | MAXIMUM | 7.4 | MINIMUM | 5.1 | | | | | |
| | MEDIAN | | | MAXIMUM | 7.6 | MINIMUM | 6.2 | | | | | |

SWATARA CREEK BASIN

01571820 SWATARA CREEK NEAR RAVINE, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----------------|------|------|-----------------|------|------|-----------------|------|------|----------------|------|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 14.0 | 12.0 | 13.0 | 12.5 | 10.0 | 11.5 | 4.0 | 2.5 | 3.0 | 4.5 | 2.5 | 4.0 |
| 2 | 14.5 | 12.0 | 13.5 | 13.5 | 11.0 | 12.0 | 5.0 | 2.5 | 3.5 | 6.5 | 4.0 | 5.0 |
| 3 | 15.0 | 13.0 | 13.5 | 12.5 | 7.5 | 10.0 | 6.5 | 4.0 | 5.0 | 8.0 | 6.0 | 7.0 |
| 4 | 14.0 | 12.5 | 13.5 | 8.5 | 6.5 | 7.5 | 8.0 | 5.5 | 7.0 | 9.0 | 7.5 | 8.5 |
| 5 | 12.5 | 10.5 | 12.0 | 8.5 | 5.0 | 7.0 | 9.0 | 7.0 | 8.0 | 7.5 | 3.5 | 5.0 |
| 6 | 12.0 | 9.0 | 10.5 | 10.5 | 7.0 | 9.0 | 9.5 | 8.0 | 8.5 | 4.0 | 2.0 | 3.0 |
| 7 | 11.0 | 9.0 | 10.0 | 8.5 | 6.5 | 7.5 | 8.5 | 6.0 | 7.5 | 5.0 | 3.5 | 4.0 |
| 8 | 11.0 | 7.5 | 9.5 | 8.0 | 6.0 | 6.5 | 6.0 | 4.5 | 5.5 | 4.0 | 2.5 | 3.5 |
| 9 | 13.5 | 11.0 | 12.0 | 9.0 | 5.5 | 7.0 | 6.0 | 4.0 | 5.0 | 5.5 | 3.5 | 4.5 |
| 10 | 13.5 | 13.0 | 13.5 | 11.0 | 8.0 | 10.0 | 6.5 | 4.5 | 5.5 | 6.0 | 5.0 | 5.5 |
| 11 | 14.5 | 12.0 | 13.5 | 11.0 | 7.0 | 10.0 | 5.5 | 4.5 | 5.0 | 5.5 | 4.5 | 5.0 |
| 12 | 12.5 | 10.5 | 11.5 | 7.5 | 6.0 | 6.5 | 5.5 | 4.0 | 4.5 | 5.0 | 4.5 | 4.5 |
| 13 | 13.0 | 10.0 | 11.5 | 9.5 | 7.5 | 8.5 | 5.5 | 3.5 | 4.5 | 5.0 | 2.0 | 4.0 |
| 14 | 13.0 | 9.5 | 11.5 | 9.5 | 7.0 | 8.0 | 6.0 | 5.0 | 5.5 | 2.0 | .0 | 1.0 |
| 15 | 10.5 | 8.0 | 9.5 | 8.0 | 6.0 | 7.0 | 6.5 | 5.5 | 6.0 | 2.5 | 1.0 | 1.5 |
| 16 | 11.5 | 8.5 | 10.0 | 6.0 | 4.0 | 5.0 | 7.0 | 5.5 | 6.5 | 4.0 | 1.5 | 3.0 |
| 17 | 12.5 | 10.5 | 11.5 | 5.5 | 3.5 | 4.5 | 5.5 | 5.0 | 5.5 | 1.5 | .0 | .5 |
| 18 | 12.5 | 10.0 | 11.5 | 5.5 | 2.5 | 4.0 | 6.0 | 5.5 | 5.5 | 1.0 | .0 | .5 |
| 19 | 10.5 | 8.5 | 9.5 | 7.0 | 4.0 | 5.5 | 5.5 | 4.5 | 5.0 | 1.5 | .5 | 1.0 |
| 20 | 11.0 | 10.0 | 10.5 | 8.0 | 5.5 | 7.0 | 6.0 | 5.0 | 5.5 | 2.0 | 1.0 | 1.5 |
| 21 | 11.0 | 8.5 | 9.5 | 10.0 | 8.0 | 9.0 | 6.0 | 5.0 | 5.5 | 1.0 | .0 | .5 |
| 22 | 10.0 | 7.5 | 9.0 | 10.5 | 8.5 | 9.5 | 5.0 | 3.5 | 4.5 | 1.0 | .0 | .5 |
| 23 | 10.5 | 9.0 | 9.5 | 11.5 | 10.5 | 11.0 | 4.5 | 2.5 | 3.5 | 1.5 | 1.0 | 1.0 |
| 24 | 10.0 | 8.0 | 9.0 | 13.0 | 11.0 | 12.0 | 3.5 | 1.5 | 2.5 | 3.0 | 1.0 | 2.0 |
| 25 | 10.0 | 8.0 | 9.0 | 12.0 | 9.5 | 10.5 | 2.5 | 1.0 | 1.5 | 1.5 | .5 | 1.0 |
| 26 | 10.0 | 7.0 | 8.5 | 12.0 | 9.5 | 10.5 | 3.5 | 1.5 | 2.5 | 2.0 | .5 | 1.0 |
| 27 | 9.5 | 7.5 | 8.5 | 11.0 | 9.0 | 10.0 | 4.0 | 3.0 | 3.5 | 1.0 | .0 | .5 |
| 28 | 9.5 | 6.5 | 8.0 | 9.0 | 7.0 | 8.0 | 3.0 | 2.0 | 2.5 | 1.0 | .0 | .5 |
| 29 | 10.5 | 6.5 | 8.5 | 7.0 | 5.5 | 6.0 | 3.5 | 2.5 | 3.0 | 1.5 | .5 | .5 |
| 30 | 11.5 | 8.0 | 9.5 | 5.5 | 4.0 | 5.0 | 4.5 | 2.0 | 3.5 | 1.0 | .0 | .5 |
| 31 | 12.0 | 8.5 | 10.5 | --- | --- | --- | 5.5 | 4.0 | 4.5 | 1.5 | .5 | 1.0 |
| MONTH | 15.0 | 6.5 | 10.7 | 13.5 | 2.5 | 8.2 | 9.5 | 1.0 | 4.8 | 9.0 | .0 | 2.6 |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 1.5 | .5 | 1.0 | 6.5 | 4.5 | 5.5 | 10.5 | 6.5 | 8.5 | --- | --- | --- |
| 2 | 1.5 | .5 | 1.0 | 7.0 | 5.5 | 6.0 | 10.5 | 8.5 | 9.5 | --- | --- | --- |
| 3 | 1.0 | .5 | 1.0 | 7.5 | 5.5 | 6.5 | 12.5 | 10.0 | 11.0 | --- | --- | --- |
| 4 | 2.0 | 1.0 | 1.0 | 7.5 | 5.0 | 6.5 | 12.0 | 9.0 | 11.0 | --- | --- | --- |
| 5 | 3.0 | 1.5 | 2.0 | 8.5 | 5.5 | 7.0 | 9.0 | 7.5 | 8.5 | --- | --- | --- |
| 6 | 3.0 | 1.0 | 1.5 | 8.5 | 5.5 | 7.0 | 11.0 | 7.0 | 9.0 | --- | --- | --- |
| 7 | 3.0 | 1.0 | 2.0 | 9.0 | 5.0 | 7.0 | 10.5 | 8.5 | 9.5 | --- | --- | --- |
| 8 | 2.0 | .0 | 1.0 | 11.5 | 7.0 | 9.0 | 12.0 | 9.0 | 10.0 | --- | --- | --- |
| 9 | 2.0 | .0 | 1.0 | 11.0 | 8.0 | 9.5 | 9.0 | 6.0 | 7.5 | --- | --- | --- |
| 10 | 4.0 | .5 | 2.5 | 11.0 | 8.5 | 9.5 | 10.0 | 7.0 | 8.5 | --- | --- | --- |
| 11 | 5.0 | 2.5 | 3.5 | 8.5 | 7.0 | 7.5 | 8.5 | 7.5 | 8.0 | --- | --- | --- |
| 12 | 3.0 | 1.0 | 2.0 | 7.0 | 5.0 | 6.5 | 10.0 | 8.0 | 8.5 | --- | --- | --- |
| 13 | 2.0 | .0 | 1.0 | 7.5 | 4.5 | 6.0 | 10.0 | 6.5 | 8.0 | --- | --- | --- |
| 14 | 2.5 | 2.0 | 2.5 | 8.0 | 5.0 | 6.5 | 10.5 | 7.0 | 9.0 | --- | --- | --- |
| 15 | 3.5 | 2.0 | 2.5 | 9.5 | 5.5 | 7.5 | 11.0 | 9.0 | 10.0 | --- | --- | --- |
| 16 | 4.5 | 2.0 | 3.5 | 9.5 | 7.0 | 8.5 | 14.5 | 10.5 | 12.0 | --- | --- | --- |
| 17 | 3.5 | 1.5 | 2.5 | 9.0 | 5.0 | 7.0 | 12.0 | 9.0 | 10.5 | --- | --- | --- |
| 18 | 2.0 | .0 | 1.5 | 6.5 | 4.0 | 5.0 | 9.0 | 8.5 | 8.5 | --- | --- | --- |
| 19 | 3.5 | 2.0 | 3.0 | 7.0 | 4.5 | 6.0 | --- | --- | --- | --- | --- | --- |
| 20 | 4.0 | 2.0 | 3.0 | 8.0 | 6.0 | 7.0 | --- | --- | --- | --- | --- | --- |
| 21 | 4.5 | 1.5 | 3.0 | 7.0 | 5.5 | 6.5 | --- | --- | --- | --- | --- | --- |
| 22 | 5.0 | 1.5 | 3.0 | 8.0 | 5.5 | 6.5 | --- | --- | --- | --- | --- | --- |
| 23 | 6.0 | 3.0 | 4.5 | 9.5 | 7.0 | 8.5 | --- | --- | --- | 13.0 | 12.0 | 12.5 |
| 24 | 6.5 | 3.5 | 5.0 | 10.5 | 7.0 | 9.0 | --- | --- | --- | 15.5 | 12.5 | 14.0 |
| 25 | 7.0 | 4.5 | 5.5 | 10.5 | 8.0 | 9.0 | --- | --- | --- | 15.0 | 13.0 | 14.0 |
| 26 | 5.5 | 4.5 | 5.0 | 10.5 | 8.5 | 9.5 | --- | --- | --- | 15.0 | 12.0 | 13.5 |
| 27 | 6.0 | 5.0 | 5.5 | 9.5 | 7.0 | 8.5 | --- | --- | --- | 13.0 | 12.0 | 12.5 |
| 28 | 6.0 | 4.5 | 5.5 | 9.5 | 8.0 | 9.0 | --- | --- | --- | 13.0 | 11.5 | 12.5 |
| 29 | 6.5 | 4.5 | 5.5 | 8.5 | 7.5 | 8.0 | --- | --- | --- | 13.5 | 12.0 | 12.5 |
| 30 | --- | --- | --- | 9.0 | 6.5 | 8.0 | --- | --- | --- | 14.5 | 11.0 | 12.5 |
| 31 | --- | --- | --- | 10.0 | 6.5 | 8.0 | --- | --- | --- | 14.0 | 11.0 | 12.5 |
| MONTH | 7.0 | .0 | 2.8 | 11.5 | 4.0 | 7.5 | 14.5 | 6.0 | 9.3 | 15.5 | 11.0 | 12.9 |

