

UPPER MISSISSIPPI RIVER BASIN

05288705 SHINGLE CREEK AT QUEEN AVE IN MINNEAPOLIS, MN

LOCATION.-- Lat 45°03'00", long 93°18'36", in NE¼NW¼ sec. 11, T.118 N., R.21 W., Hennepin County, Hydrologic Unit 07010206, at bridge over Shingle Creek at intersection of Queen Avenue North and 52nd Avenue North in Minneapolis.

DRAINAGE AREA.-- 28.2 mi².

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

GAGE.-- Water-stage recorder. Elevation of gage is 850 ft above mean sea level (from topographic map).

REMARKD.-- Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
|-----|------|-----|-----|------|------|------|-----|-----|-----|
| JUL | AUG | SEP | | | | | | | |
| 1 | 1.2 | 17 | 18 | e8.4 | e6.6 | e7.2 | 68 | 15 | 8.5 |
| 47 | 53 | 15 | | | | | | | |
| 2 | 1.1 | 15 | e16 | e8.7 | e6.3 | e7.5 | 61 | 16 | 7.4 |
| 99 | 47 | 15 | | | | | | | |
| 3 | .44 | 13 | e15 | e8.8 | e6.1 | e7.6 | 56 | 19 | 6.6 |
| 66 | 44 | 13 | | | | | | | |
| 4 | .30 | 15 | 13 | e8.7 | e5.7 | e7.7 | 53 | 18 | 6.8 |
| 58 | 37 | 11 | | | | | | | |
| 5 | e.24 | 15 | 12 | e8.0 | e5.4 | e7.3 | 56 | 17 | 9.2 |
| 47 | 36 | 12 | | | | | | | |
| 6 | e.19 | 13 | 11 | e7.5 | e5.3 | e6.7 | 61 | 15 | 9.0 |
| 35 | 34 | 11 | | | | | | | |
| 7 | .17 | 10 | 10 | e7.0 | e5.2 | e6.3 | 54 | 16 | 8.7 |
| e27 | 29 | 10 | | | | | | | |
| 8 | e.15 | 8.4 | 9.3 | e8.1 | e5.2 | e7.0 | 47 | 16 | 6.6 |
| e24 | 22 | 15 | | | | | | | |
| 9 | .14 | 6.7 | 8.8 | e8.3 | e5.2 | e9.0 | 38 | 14 | 7.1 |
| e24 | 18 | 37 | | | | | | | |
| 10 | e.14 | 5.1 | 8.5 | e8.1 | e5.1 | e13 | 32 | 13 | 6.4 |
| e27 | 16 | 33 | | | | | | | |
| 11 | e.14 | 4.1 | 8.4 | e7.5 | e5.1 | e13 | 28 | 12 | 5.0 |
| 45 | 13 | 24 | | | | | | | |
| 12 | .14 | 3.3 | 9.1 | e6.8 | e5.1 | e11 | 26 | 11 | 4.4 |
| 26 | 12 | 17 | | | | | | | |

| | | | | | | | | | |
|-------|--------|-------|-------|-------|-------|-------|------|-------|-------|
| 13 | .13 | 2.7 | 8.5 | e6.4 | e5.1 | e10 | 23 | 9.9 | 3.7 |
| 50 | 11 | 12 | | | | | | | |
| 14 | .13 | 2.5 | e8.3 | e6.7 | e5.0 | e9.9 | 22 | 13 | 2.4 |
| 63 | 12 | 10 | | | | | | | |
| 15 | 1.4 | 8.1 | e8.2 | e7.0 | e5.0 | e9.8 | 21 | 12 | 4.3 |
| 42 | 11 | 9.0 | | | | | | | |
| 16 | 7.3 | 89 | e8.1 | e6.6 | e5.0 | e12 | 21 | 11 | 3.7 |
| 32 | 10 | 41 | | | | | | | |
| 17 | 38 | 103 | 8.1 | e6.5 | e5.4 | e14 | 20 | 11 | 3.5 |
| 26 | 9.0 | 33 | | | | | | | |
| 18 | 19 | 99 | 8.2 | e6.4 | e6.1 | 10 | 20 | 19 | 4.0 |
| 20 | 8.4 | 29 | | | | | | | |
| 19 | 21 | 79 | e7.4 | e7.0 | e6.1 | 11 | 21 | 19 | 5.4 |
| 25 | 64 | 25 | | | | | | | |
| 20 | 14 | 66 | e6.7 | e7.5 | e6.4 | 14 | 20 | 16 | 7.9 |
| 26 | 71 | 18 | | | | | | | |
| 21 | 11 | 54 | e8.0 | e8.1 | e6.6 | 21 | 19 | 14 | 6.2 |
| 24 | 61 | 13 | | | | | | | |
| 22 | 10 | 42 | e8.0 | e8.1 | e6.5 | 28 | 18 | 13 | 4.2 |
| 99 | 52 | 11 | | | | | | | |
| 23 | 26 | 31 | e8.0 | e7.9 | e6.0 | 34 | 21 | 13 | 3.4 |
| 94 | 43 | 9.9 | | | | | | | |
| 24 | 17 | e28 | e7.4 | e7.6 | e5.7 | 37 | 17 | 13 | 8.6 |
| 94 | 35 | 8.8 | | | | | | | |
| 25 | 15 | e24 | e6.9 | e7.0 | e5.9 | 38 | 13 | 9.8 | 7.3 |
| 104 | 29 | 7.8 | | | | | | | |
| 26 | 12 | 21 | e6.6 | e6.5 | e6.1 | 43 | 14 | 8.1 | 4.2 |
| 94 | 24 | 9.2 | | | | | | | |
| 27 | 9.8 | 18 | e7.1 | e6.1 | e6.4 | 57 | 14 | 7.4 | 2.6 |
| 87 | 20 | 12 | | | | | | | |
| 28 | 7.6 | 17 | e7.7 | e5.6 | e6.7 | 73 | 14 | 6.9 | 12 |
| 80 | 16 | 16 | | | | | | | |
| 29 | 23 | 17 | e7.7 | e5.5 | --- | 82 | 16 | 13 | 35 |
| 71 | 14 | 10 | | | | | | | |
| 30 | 26 | 19 | e7.7 | e5.7 | --- | 77 | 17 | 12 | 20 |
| 64 | 40 | 7.6 | | | | | | | |
| 31 | 22 | --- | e7.7 | e6.8 | --- | 70 | --- | 10 | --- |
| 57 | 19 | --- | | | | | | | |
| TOTAL | 284.71 | 845.9 | 285.4 | 224.9 | 160.3 | 754.0 | 911 | 413.1 | 224.1 |
| 1677 | 910.4 | 495.3 | | | | | | | |
| MEAN | 9.18 | 28.2 | 9.21 | 7.25 | 5.72 | 24.3 | 30.4 | 13.3 | 7.47 |
| 54.1 | 29.4 | 16.5 | | | | | | | |
| MAX | 38 | 103 | 18 | 8.8 | 6.7 | 82 | 68 | 19 | 35 |
| 104 | 71 | 41 | | | | | | | |
| MIN | .13 | 2.5 | 6.6 | 5.5 | 5.0 | 6.3 | 13 | 6.9 | 2.4 |
| 20 | 8.4 | 7.6 | | | | | | | |
| AC-FT | 565 | 1680 | 566 | 446 | 318 | 1500 | 1810 | 819 | 445 |
| 3330 | 1810 | 982 | | | | | | | |

o e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1997, BY WATER YEAR (WY)

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
|------|------|------|------|------|------|------|------|------|------|
| JUL | AUG | SEP | | | | | | | |
| MEAN | 9.18 | 28.2 | 9.21 | 7.25 | 5.72 | 24.3 | 30.4 | 13.3 | 21.2 |
| 31.0 | 17.2 | 9.72 | | | | | | | |
| MAX | 9.18 | 28.2 | 9.21 | 7.25 | 5.72 | 24.3 | 30.4 | 13.3 | 34.8 |
| 54.1 | 29.4 | 16.5 | | | | | | | |
| (WY) | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1996 |
| 1997 | 1997 | 1997 | | | | | | | |
| | MIN | 9.18 | 28.2 | 9.21 | 7.25 | 5.72 | 24.3 | 30.4 | 13.3 |
| 7.47 | 7.92 | 5.04 | 2.92 | | | | | | |
| (WY) | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 |
| 1996 | 1996 | 1996 | | | | | | | |

SUMMARY STATISTICS FOR 1997 WATER YEAR WATER YEARS 1996 - 1997

| | | | | |
|--------------------------|---------|--------|-------|-------------|
| ANNUAL TOTAL | 7186.11 | | | |
| ANNUAL MEAN | 19.7 | | 19.7 | |
| HIGHEST ANNUAL MEAN | | | 19.7 | 1997 |
| LOWEST ANNUAL MEAN | | | 19.7 | 1997 |
| HIGHEST DAILY MEAN | 104 | Jul 25 | 136 | May 19 1996 |
| LOWEST DAILY MEAN | .13 | Oct 13 | .13 | Oct 13 1996 |
| ANNUAL SEVEN-DAY MINIMUM | .14 | Oct 8 | .14 | Oct 8 1996 |
| INSTANTANEOUS PEAK FLOW | 225 | Jul 1 | 225 | Jul 1 1997 |
| INSTANTANEOUS PEAK STAGE | 13.07 | Jul 1 | 13.07 | Jul 1 1997 |
| INSTANTANEOUS LOW FLOW | .11 | Oct 11 | .11 | Oct 11 1996 |
| ANNUAL RUNOFF (AC-FT) | 14250 | | 14260 | |
| 10 PERCENT EXCEEDS | 52 | | 53 | |
| 50 PERCENT EXCEEDS | 12 | | 11 | |
| 90 PERCENT EXCEEDS | 5.1 | | 3.4 | |

(National Water-Quality Assessment Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1996 to current year

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1996 to current year.

SPECIFIC CONDUCTANCE: May 1996 to current year.

REVISIONS.-- Figures of specific conductance for the period May 8, 1996 to June 9, 1996 published in the 1996 Water Resources Data Report were in error, and have been corrected in the District files.

INSTRUMENTATION.--Water-quality monitor since May 1996, provides continuous recordings. Sensor located at gage.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Temperature and conductance at the sensor was compared with the average for the river by cross section at least monthly. Variation of temperature was within 0.5°C; variation of conductance was within 50% (corrections applied).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 28.0°C, June 23, July 16, 17; minimum, 0 0 °C, on many days during winter.

SPECIFIC CONDUCTANCE: Maximum, 4220 µs/cm, Jan. 31, 1997; minimum, 92 µs/cm, July 11, 1997.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0 °C, June 23, July 16, 17; minimum, 0.0 °C, on many days during winter.

SPECIFIC CONDUCTANCE: Maximum, 4220 µs/cm, Jan. 31; minimum, 92 µs/cm, July 11.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---------|----------|------|----------|-----|---------|------|-----|-----|------|
| MAX | MIN | MEAN | | | | | | | |
| OCTOBER | NOVEMBER | | DECEMBER | | JANUARY | | | | |
| 1 | 18.5 | 14.0 | 16.0 | 1.5 | .5 | 1.0 | .0 | .0 | .0 |
| .0 | .0 | .0 | | | | | | | |
| 2 | 18.5 | 8.5 | 13.0 | 1.5 | .5 | 1.0 | .0 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 3 | --- | --- | --- | 3.5 | 1.0 | 2.0 | .0 | .0 | .0 |
| .5 | .0 | .5 | | | | | | | |
| 4 | --- | --- | --- | 6.0 | 3.0 | 4.0 | .0 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 5 | --- | --- | --- | 5.0 | 4.5 | 4.5 | .5 | .0 | .0 |
| .0 | .0 | .0 | | | | | | | |
| 6 | --- | --- | --- | 5.5 | 4.5 | 5.0 | .5 | .0 | .0 |
| .0 | .0 | .0 | | | | | | | |
| 7 | --- | --- | --- | 6.0 | 4.0 | 4.5 | .5 | .0 | .0 |
| .0 | .0 | .0 | | | | | | | |
| 8 | --- | --- | --- | 4.5 | 3.0 | 3.5 | .5 | .0 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 9 | --- | --- | --- | 3.0 | 1.5 | 2.0 | .5 | .0 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 10 | --- | --- | --- | 1.5 | .0 | .5 | .5 | .0 | .5 |

| | | | | | | | | | |
|-------|------|------|------|-----|-----|-----|-----|----|-----|
| .0 | .0 | .0 | | | | | | | |
| 11 | --- | --- | --- | .5 | .0 | .0 | 1.0 | .5 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 12 | --- | --- | --- | .5 | .0 | .0 | 1.5 | .5 | 1.0 |
| .5 | .0 | .0 | | | | | | | |
| 13 | --- | --- | --- | .5 | .0 | .0 | 1.0 | .0 | .5 |
| .5 | .0 | .0 | | | | | | | |
| 14 | --- | --- | --- | .0 | .0 | .0 | .5 | .0 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 15 | 17.0 | 10.5 | 14.0 | 1.0 | .0 | .0 | .0 | .0 | .0 |
| .0 | .0 | .0 | | | | | | | |
| 16 | 23.5 | 9.0 | 14.0 | 2.0 | .5 | 1.0 | .5 | .0 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 17 | 15.0 | 11.0 | 12.5 | 1.5 | .0 | .5 | .5 | .5 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 18 | 11.0 | 8.5 | 9.5 | .5 | .0 | .0 | .5 | .0 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 19 | 9.0 | 7.5 | 8.0 | .5 | .0 | .0 | .5 | .0 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 20 | 9.0 | 8.0 | 8.5 | .0 | .0 | .0 | .5 | .0 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 21 | 10.0 | 8.5 | 9.0 | .5 | .0 | .0 | .5 | .5 | .5 |
| .0 | .0 | .0 | | | | | | | |
| 22 | 9.0 | 7.5 | 8.0 | 1.0 | .0 | .0 | .5 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 23 | 8.0 | 6.5 | 7.0 | .5 | .0 | .0 | .0 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 24 | 6.5 | 6.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 25 | 8.5 | 6.0 | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 26 | 11.0 | 8.5 | 9.5 | 1.0 | .0 | .0 | .5 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 27 | 10.5 | 9.0 | 10.0 | .0 | .0 | .0 | .5 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 28 | 10.0 | 7.5 | 8.5 | .5 | .0 | .0 | .0 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 29 | 9.5 | 7.5 | 8.5 | .5 | .0 | .0 | .0 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 30 | 9.5 | 4.0 | 6.5 | .5 | .0 | .5 | .0 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| 31 | 4.0 | 1.0 | 2.0 | --- | --- | --- | .0 | .0 | .0 |
| .5 | .0 | .0 | | | | | | | |
| MONTH | --- | --- | --- | 6.0 | .0 | 1.0 | 1.5 | .0 | .2 |
| .5 | .0 | .0 | | | | | | | |

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|----------|------|-------|-------|-----|-----|------|------|------|------|
| MAX | MIN | MEAN | | | | | | | |
| FEBRUARY | | MARCH | APRIL | MAY | | | | | |
| 1 | .5 | .0 | .0 | .5 | .0 | .0 | 7.5 | 3.0 | 5.0 |
| 13.0 | 8.5 | 11.0 | | | | | | | |
| 2 | .5 | .0 | .0 | .5 | .0 | .0 | 7.5 | 5.5 | 6.5 |
| 13.5 | 11.5 | 12.5 | | | | | | | |
| 3 | .5 | .0 | .0 | .5 | .0 | .0 | 9.5 | 5.0 | 7.5 |
| 14.0 | 10.5 | 12.0 | | | | | | | |
| 4 | .5 | .0 | .0 | .5 | .0 | .0 | 9.5 | 8.0 | 9.0 |
| 15.0 | 11.5 | 13.5 | | | | | | | |
| 5 | .5 | .0 | .0 | .5 | .0 | .0 | 11.0 | 9.0 | 9.5 |
| 16.0 | 14.0 | 15.0 | | | | | | | |
| 6 | .5 | .0 | .0 | .5 | .0 | .0 | 10.0 | 3.0 | 7.0 |
| 16.5 | 12.0 | 14.5 | | | | | | | |
| 7 | .5 | .0 | .0 | .5 | .0 | .0 | 3.0 | .0 | 1.5 |
| 15.5 | 13.5 | 14.0 | | | | | | | |
| 8 | .5 | .0 | .0 | .5 | .0 | .0 | 2.5 | .0 | 1.5 |
| 13.5 | 11.0 | 12.5 | | | | | | | |
| 9 | .5 | .0 | .0 | 1.0 | .0 | .5 | 5.5 | 1.5 | 3.5 |
| 14.0 | 9.5 | 12.0 | | | | | | | |
| 10 | .5 | .0 | .0 | 1.5 | .0 | .5 | 5.0 | 3.5 | 4.5 |
| 16.5 | 12.0 | 14.0 | | | | | | | |
| 11 | .5 | .0 | .0 | 1.5 | .0 | .5 | 5.5 | 3.0 | 4.5 |
| 15.5 | 12.0 | 14.5 | | | | | | | |
| 12 | .5 | .0 | .0 | 1.0 | .0 | .5 | 7.0 | 4.0 | 5.5 |
| 12.5 | 10.0 | 11.0 | | | | | | | |
| 13 | .5 | .0 | .0 | .0 | .0 | .0 | 9.0 | 5.0 | 7.0 |
| 11.0 | 9.0 | 10.0 | | | | | | | |
| 14 | .5 | .0 | .0 | .0 | .0 | .0 | 10.5 | 7.0 | 9.0 |
| 11.5 | 9.5 | 10.0 | | | | | | | |
| 15 | .5 | .0 | .0 | .5 | .0 | .0 | 10.0 | 8.5 | 9.5 |
| 12.0 | 8.0 | 10.0 | | | | | | | |
| 16 | .5 | .0 | .0 | .5 | .0 | .0 | 8.5 | 6.5 | 7.0 |
| 14.5 | 9.5 | 12.0 | | | | | | | |
| 17 | .5 | .0 | .0 | .5 | .0 | .0 | 10.0 | 5.5 | 7.5 |
| 17.5 | 12.5 | 15.0 | | | | | | | |
| 18 | .5 | .0 | .0 | 1.5 | .0 | .5 | 9.5 | 8.5 | 9.5 |
| 18.5 | 15.5 | 17.0 | | | | | | | |
| 19 | .5 | .0 | .0 | 2.5 | .0 | 1.0 | 12.5 | 8.0 | 10.5 |
| 17.0 | 13.5 | 15.0 | | | | | | | |
| 20 | 1.0 | .0 | .0 | 3.5 | .5 | 2.0 | 14.0 | 11.0 | 12.5 |
| 16.0 | 12.0 | 14.0 | | | | | | | |
| 21 | .5 | .0 | .0 | 3.5 | 2.0 | 2.5 | 15.0 | 12.5 | 13.5 |
| 18.0 | 13.0 | 15.5 | | | | | | | |
| 22 | .5 | .0 | .0 | 4.0 | 1.5 | 2.5 | 14.5 | 11.5 | 13.0 |
| 17.5 | 15.0 | 16.5 | | | | | | | |
| 23 | .5 | .0 | .0 | 3.5 | 1.0 | 2.0 | 13.0 | 10.0 | 11.5 |
| 17.5 | 15.0 | 16.0 | | | | | | | |
| 24 | .5 | .0 | .0 | 1.5 | .0 | .5 | 12.5 | 9.5 | 11.0 |
| 18.0 | 15.5 | 16.5 | | | | | | | |
| 25 | .5 | .0 | .0 | 1.5 | .0 | 1.0 | 14.5 | 10.5 | 12.0 |

| | | | | | | | | | |
|-------|------|------|-----|-----|-----|-----|------|------|------|
| 17.5 | 14.5 | 16.0 | | | | | | | |
| 26 | .5 | .0 | .0 | 4.5 | .0 | 2.0 | 13.5 | 12.0 | 12.5 |
| 17.0 | 13.5 | 15.5 | | | | | | | |
| 27 | .5 | .0 | .0 | 5.5 | 1.5 | 3.5 | 14.0 | 11.5 | 12.5 |
| 18.0 | 14.0 | 16.0 | | | | | | | |
| 28 | .0 | .0 | .0 | 4.0 | 1.5 | 2.5 | 16.0 | 11.5 | 14.0 |
| 16.0 | 14.5 | 15.0 | | | | | | | |
| 29 | --- | --- | --- | 4.0 | 1.5 | 2.5 | 17.0 | 13.5 | 15.0 |
| 14.5 | 13.0 | 13.5 | | | | | | | |
| 30 | --- | --- | --- | 3.0 | 2.0 | 2.5 | 14.0 | 10.0 | 12.0 |
| 18.0 | 12.5 | 15.0 | | | | | | | |
| 31 | --- | --- | --- | 5.5 | 1.5 | 3.0 | --- | --- | --- |
| 21.5 | 15.5 | 18.5 | | | | | | | |
| MONTH | 1.0 | .0 | .0 | 5.5 | .0 | 1.0 | 17.0 | .0 | 8.8 |
| 21.5 | 8.0 | 14.0 | | | | | | | |

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|------|------|--------|-----------|------|------|------|------|------|------|
| MAX | MIN | MEAN | | | | | | | |
| JUNE | JULY | AUGUST | SEPTEMBER | | | | | | |
| 1 | 23.0 | 18.5 | 21.0 | 27.0 | 21.5 | 25.0 | 24.5 | 20.0 | 22.0 |
| 24.5 | 22.5 | 23.0 | | | | | | | |
| 2 | 23.5 | 20.0 | 21.5 | 22.0 | 20.0 | 20.5 | 26.0 | 21.0 | 23.5 |
| 22.5 | 20.5 | 21.5 | | | | | | | |
| 3 | 23.5 | 20.0 | 21.5 | 20.0 | 18.0 | 18.5 | 26.5 | 22.0 | 24.0 |
| 20.5 | 18.5 | 19.5 | | | | | | | |
| 4 | 24.0 | 20.0 | 22.0 | 20.5 | 16.5 | 18.5 | 25.5 | 22.0 | 24.0 |
| 20.0 | 17.5 | 18.5 | | | | | | | |
| 5 | 24.0 | 20.0 | 22.0 | 20.5 | 18.0 | 19.5 | 24.0 | 20.5 | 22.5 |
| 21.0 | 17.5 | 19.5 | | | | | | | |
| 6 | 23.5 | 20.5 | 22.0 | 21.0 | 18.0 | 19.5 | 24.0 | 20.0 | 22.0 |
| 22.0 | 19.0 | 20.5 | | | | | | | |
| 7 | 22.5 | 19.0 | 21.5 | --- | --- | --- | 24.0 | 21.0 | 22.5 |
| 21.0 | 19.0 | 20.0 | | | | | | | |
| 8 | 23.5 | 19.0 | 21.0 | --- | --- | --- | 24.0 | 21.5 | 23.0 |
| 20.5 | 19.0 | 19.5 | | | | | | | |
| 9 | 24.5 | 19.0 | 22.0 | --- | --- | --- | 22.5 | 20.0 | 21.5 |
| 20.0 | 18.0 | 19.5 | | | | | | | |
| 10 | 25.0 | 20.5 | 22.5 | --- | --- | --- | 21.0 | 18.5 | 19.5 |
| 19.5 | 17.0 | 18.5 | | | | | | | |
| 11 | 24.5 | 20.5 | 22.0 | 23.5 | 19.0 | 21.5 | 21.0 | 17.5 | 19.0 |
| 19.0 | 17.0 | 18.5 | | | | | | | |
| 12 | 25.0 | 19.5 | 22.0 | 24.5 | 22.0 | 23.0 | 21.0 | 18.5 | 19.5 |
| 19.5 | 18.0 | 18.5 | | | | | | | |
| 13 | 25.0 | 20.0 | 22.5 | 27.0 | 22.5 | 24.5 | 21.0 | 17.0 | 19.0 |
| 19.0 | 18.0 | 18.5 | | | | | | | |
| 14 | 24.5 | 18.0 | 21.5 | 26.5 | 22.0 | 24.0 | 19.5 | 17.0 | 18.0 |
| 20.0 | 17.0 | 18.5 | | | | | | | |
| 15 | 23.0 | 19.5 | 21.0 | 27.5 | 21.5 | 24.0 | 21.0 | 16.5 | 19.0 |
| 20.0 | 19.0 | 19.5 | | | | | | | |

| | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|-----|
| 16 | 22.5 | 18.0 | 20.0 | 28.0 | 24.0 | 26.0 | 23.5 | 19.0 | 21.0 | |
| 19.5 | 18.5 | 19.0 | | | | | | | | |
| 17 | 20.0 | 17.0 | 18.5 | 28.0 | 24.5 | 26.5 | 21.5 | 18.0 | 19.0 | |
| 19.5 | 17.0 | 18.5 | | | | | | | | |
| 18 | 19.5 | 18.0 | 18.5 | 28.0 | 25.0 | 26.5 | 18.5 | 16.5 | 17.5 | |
| 21.5 | 17.5 | 19.0 | | | | | | | | |
| 19 | 20.5 | 17.5 | 19.0 | 25.5 | 22.0 | 23.5 | 18.0 | 16.0 | 17.0 | |
| 21.5 | 18.5 | 20.0 | | | | | | | | |
| 20 | 23.0 | 19.0 | 20.5 | 25.5 | 21.0 | 23.0 | 19.0 | 16.0 | 17.5 | |
| 18.5 | 15.5 | 16.5 | | | | | | | | |
| 21 | 25.0 | 20.0 | 22.5 | 24.5 | 21.5 | 23.5 | 20.5 | 16.5 | 18.0 | |
| 16.5 | 14.5 | 15.5 | | | | | | | | |
| 22 | 25.0 | 20.5 | 22.5 | 22.0 | 18.5 | 20.0 | 21.5 | 17.0 | 19.0 | |
| 15.5 | 14.5 | 15.0 | | | | | | | | |
| 23 | 28.0 | 21.5 | 24.5 | 22.5 | 19.0 | 20.5 | 21.5 | 17.5 | 19.5 | |
| 16.0 | 13.5 | 14.5 | | | | | | | | |
| 24 | 25.5 | 22.5 | 24.0 | 22.0 | 20.0 | 21.0 | 22.5 | 19.0 | 20.5 | |
| 16.0 | 13.5 | 15.0 | | | | | | | | |
| 25 | 25.5 | 23.0 | 24.0 | 25.0 | 20.5 | 22.0 | 22.0 | 19.0 | 21.0 | |
| 18.0 | 15.0 | 16.5 | | | | | | | | |
| 26 | 26.5 | 21.5 | 23.5 | 26.5 | 22.0 | 24.0 | 23.0 | 21.0 | 22.0 | |
| 18.0 | 15.5 | 17.0 | | | | | | | | |
| 27 | 27.5 | 21.5 | 24.0 | 27.0 | 23.5 | 25.0 | 24.0 | 22.5 | 23.0 | |
| 19.0 | 17.0 | 17.5 | | | | | | | | |
| 28 | 24.5 | 21.5 | 23.0 | 26.5 | 22.5 | 24.5 | 23.5 | 22.0 | 22.5 | |
| 19.0 | 16.5 | 17.5 | | | | | | | | |
| 29 | 22.5 | 20.0 | 20.5 | 25.5 | 22.0 | 23.5 | 22.0 | 21.0 | 21.5 | |
| 16.5 | 14.5 | 15.5 | | | | | | | | |
| 30 | 24.5 | 20.0 | 22.0 | 25.0 | 20.5 | 23.0 | 22.5 | 20.0 | 21.5 | |
| 15.5 | 13.0 | 14.5 | | | | | | | | |
| 31 | --- | --- | --- | 23.5 | 20.5 | 21.5 | 24.0 | 22.0 | 22.5 | --- |
| --- | --- | --- | | | | | | | | |
| MONTH | 28.0 | 17.0 | 21.8 | --- | --- | --- | 26.5 | 16.0 | 20.7 | |
| 24.5 | 13.0 | 18.2 | | | | | | | | |

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---------|----------|------|----------|-----|---------|------|------|------|------|
| MAX | MIN | MEAN | | | | | | | |
| OCTOBER | NOVEMBER | | DECEMBER | | JANUARY | | | | |
| 1 | 799 | 708 | 764 | 585 | 490 | 532 | 2650 | 1780 | 2210 |
| 1280 | 1250 | 1260 | | | | | | | |
| 2 | 930 | 754 | 824 | 656 | 585 | 624 | 2190 | 1730 | 1980 |
| 2060 | 1280 | 1460 | | | | | | | |
| 3 | 1000 | 814 | 931 | 687 | 608 | 645 | 1730 | 1500 | 1600 |

| | | | | | | | | | |
|------|------|------|-----|------|-----|------|------|------|------|
| 2410 | 1620 | 1880 | | | | | | | |
| 4 | --- | --- | --- | 653 | 406 | 600 | 1510 | 1410 | 1470 |
| 3150 | 2060 | 2430 | | | | | | | |
| 5 | --- | --- | --- | 637 | 550 | 588 | 1500 | 1380 | 1420 |
| 2930 | 2280 | 2590 | | | | | | | |
| 6 | --- | --- | --- | 646 | 600 | 624 | 1630 | 1390 | 1500 |
| 2750 | 2230 | 2550 | | | | | | | |
| 7 | --- | --- | --- | 639 | 602 | 615 | 1980 | 1480 | 1780 |
| 2230 | 1990 | 2100 | | | | | | | |
| 8 | --- | --- | --- | 682 | 639 | 656 | 2250 | 1570 | 1900 |
| 2000 | 1800 | 1910 | | | | | | | |
| 9 | --- | --- | --- | 724 | 682 | 700 | 1940 | 1500 | 1680 |
| 1810 | 1720 | 1770 | | | | | | | |
| 10 | --- | --- | --- | 753 | 724 | 733 | 1500 | 1380 | 1430 |
| 1720 | 1680 | 1700 | | | | | | | |
| 11 | --- | --- | --- | 817 | 753 | 781 | 2070 | 1380 | 1600 |
| 1690 | 1640 | 1650 | | | | | | | |
| 12 | --- | --- | --- | 889 | 817 | 847 | 2140 | 1710 | 1900 |
| 1640 | 1590 | 1620 | | | | | | | |
| 13 | --- | --- | --- | 984 | 476 | 824 | 2540 | 1690 | 2000 |
| 1590 | 1550 | 1570 | | | | | | | |
| 14 | --- | --- | --- | 874 | 462 | 508 | 2460 | 2140 | 2250 |
| 1550 | 1500 | 1520 | | | | | | | |
| 15 | 978 | 499 | 618 | 1830 | 451 | 625 | 2210 | 1870 | 2020 |
| 1520 | 1480 | 1500 | | | | | | | |
| 16 | --- | --- | --- | 1570 | 314 | 664 | 1890 | 1660 | 1770 |
| 1520 | 1440 | 1480 | | | | | | | |
| 17 | --- | --- | --- | 473 | 396 | 453 | 1660 | 1580 | 1600 |
| 1440 | 1390 | 1410 | | | | | | | |
| 18 | 426 | 370 | 397 | 476 | 424 | 455 | 1600 | 1530 | 1550 |
| 1470 | 1440 | 1460 | | | | | | | |
| 19 | 513 | 426 | 494 | 453 | 419 | 432 | 1610 | 1510 | 1560 |
| 1770 | 1430 | 1490 | | | | | | | |
| 20 | 581 | 509 | 553 | 484 | 453 | 466 | 1510 | 1410 | 1450 |
| 1880 | 1710 | 1780 | | | | | | | |
| 21 | 617 | 581 | 597 | 613 | 482 | 540 | 1460 | 1400 | 1420 |
| 3010 | 1600 | 1910 | | | | | | | |
| 22 | 661 | 556 | 637 | 767 | 596 | 697 | 1460 | 1370 | 1430 |
| 3010 | 1980 | 2500 | | | | | | | |
| 23 | 556 | 222 | 375 | 797 | 735 | 756 | 1410 | 1300 | 1330 |
| 2990 | 1910 | 2390 | | | | | | | |
| 24 | 534 | 361 | 413 | 939 | 764 | 812 | 1560 | 1330 | 1450 |
| 2860 | 2180 | 2420 | | | | | | | |
| 25 | 460 | 389 | 427 | 1010 | 881 | 913 | 1330 | 1300 | 1310 |
| 2390 | 1970 | 2170 | | | | | | | |
| 26 | 492 | 460 | 477 | 1120 | 914 | 1050 | 1330 | 1310 | 1330 |
| 1990 | 1720 | 1830 | | | | | | | |
| 27 | 552 | 492 | 526 | 987 | 948 | 969 | 1330 | 1310 | 1320 |
| 1980 | 1720 | 1870 | | | | | | | |
| 28 | 617 | 552 | 588 | 956 | 940 | 947 | 1310 | 1300 | 1310 |
| 1960 | 1720 | 1830 | | | | | | | |

| | | | | | | | | | |
|-------|------|------|-----|------|------|------|------|------|------|
| 29 | 634 | 279 | 490 | 1770 | 943 | 1080 | 1320 | 1290 | 1300 |
| 1780 | 1610 | 1700 | | | | | | | |
| 30 | 396 | 292 | 339 | 2660 | 1190 | 1780 | 1290 | 1270 | 1280 |
| 1670 | 1490 | 1580 | | | | | | | |
| 31 | 490 | 396 | 450 | --- | --- | --- | 1300 | 1270 | 1280 |
| 4220 | 1480 | 2160 | | | | | | | |
| MONTH | --- | --- | --- | 2660 | 314 | 731 | 2650 | 1270 | 1590 |
| 4220 | 1250 | 1850 | | | | | | | |

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|----------|------|-------|-------|------|------|------|-----|-----|------|
| MAX | MIN | MEAN | | | | | | | |
| FEBRUARY | | MARCH | APRIL | MAY | | | | | |
| 1 | 4000 | 2010 | 2560 | 1520 | 1370 | 1440 | 694 | 663 | 675 |
| 1040 | 985 | 1020 | | | | | | | |
| 2 | 2520 | 1620 | 1910 | 1460 | 1260 | 1360 | 713 | 693 | 704 |
| 1040 | 749 | 998 | | | | | | | |
| 3 | 2930 | 2090 | 2560 | 1380 | 1200 | 1310 | 705 | 688 | 696 |
| 1020 | 862 | 957 | | | | | | | |
| 4 | 2680 | 1950 | 2240 | 1440 | 978 | 1160 | 728 | 696 | 710 |
| 941 | 887 | 921 | | | | | | | |
| 5 | 2030 | 1860 | 1920 | 1370 | 1220 | 1280 | 737 | 668 | 722 |
| 1020 | 931 | 974 | | | | | | | |
| 6 | 2460 | 1860 | 2030 | 1220 | 983 | 1120 | 717 | 665 | 703 |
| 1060 | 986 | 1030 | | | | | | | |
| 7 | 2310 | 1890 | 2030 | 2250 | 1170 | 2080 | 743 | 716 | 729 |
| 1070 | 723 | 1010 | | | | | | | |
| 8 | 2040 | 1630 | 1790 | 2200 | 2010 | 2120 | 783 | 743 | 756 |
| 1080 | 925 | 1030 | | | | | | | |
| 9 | 1930 | 1700 | 1780 | 2010 | 1670 | 1820 | 853 | 783 | 824 |
| 1080 | 1030 | 1040 | | | | | | | |
| 10 | 2090 | 1900 | 2020 | 1740 | 1320 | 1590 | 874 | 848 | 861 |
| 1050 | 1040 | 1040 | | | | | | | |
| 11 | 2060 | 1920 | 1990 | 1530 | 1290 | 1430 | 874 | 783 | 867 |
| 1080 | 1050 | 1060 | | | | | | | |
| 12 | 2020 | 1900 | 1970 | 1360 | 1240 | 1300 | 910 | 872 | 893 |
| 1100 | 1080 | 1080 | | | | | | | |
| 13 | 1990 | 1880 | 1940 | 1430 | 1260 | 1310 | 931 | 906 | 915 |
| 1120 | 1100 | 1110 | | | | | | | |
| 14 | 1970 | 1570 | 1730 | 1610 | 1430 | 1530 | 930 | 920 | 924 |
| 1110 | 984 | 1060 | | | | | | | |
| 15 | 1740 | 1590 | 1670 | 2180 | 1580 | 1870 | 930 | 883 | 924 |
| 1110 | 1090 | 1100 | | | | | | | |
| 16 | 1730 | 1610 | 1670 | 2510 | 1670 | 1960 | 939 | 922 | 930 |
| 1100 | 982 | 1090 | | | | | | | |

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 17 | 3360 | 1620 | 1960 | 2480 | 1810 | 2150 | 939 | 911 | 923 |
| 1110 | 1100 | 1100 | | | | | | | |
| 18 | 3180 | 2400 | 2880 | 2200 | 1700 | 1850 | 924 | 797 | 916 |
| 1100 | 732 | 967 | | | | | | | |
| 19 | 2920 | 2450 | 2690 | 2160 | 1620 | 1770 | 966 | 922 | 947 |
| 882 | 799 | 820 | | | | | | | |
| 20 | 2700 | 2400 | 2540 | 1620 | 1320 | 1470 | 974 | 965 | 970 |
| 923 | 835 | 882 | | | | | | | |
| 21 | 2700 | 2070 | 2330 | 1390 | 1120 | 1250 | 976 | 970 | 974 |
| 989 | 923 | 962 | | | | | | | |
| 22 | 2110 | 1880 | 1980 | 1180 | 932 | 1060 | 1010 | 975 | 990 |
| 1040 | 988 | 1010 | | | | | | | |
| 23 | 1970 | 1760 | 1860 | 1050 | 955 | 1020 | 1030 | 868 | 968 |
| 1050 | 973 | 1030 | | | | | | | |
| 24 | 1850 | 1730 | 1800 | 1040 | 1010 | 1020 | 1050 | 980 | 1030 |
| 1060 | 1010 | 1040 | | | | | | | |
| 25 | 1930 | 1690 | 1790 | 1120 | 1010 | 1060 | 1060 | 1040 | 1050 |
| 1070 | 1050 | 1060 | | | | | | | |
| 26 | 2070 | 1760 | 1880 | 1180 | 940 | 1070 | 1050 | 1030 | 1040 |
| 1090 | 1070 | 1080 | | | | | | | |
| 27 | 2020 | 1740 | 1890 | 974 | 832 | 909 | 1040 | 1030 | 1030 |
| 1100 | 1080 | 1090 | | | | | | | |
| 28 | 1740 | 1520 | 1620 | 870 | 733 | 788 | 1040 | 1030 | 1040 |
| 1120 | 1100 | 1110 | | | | | | | |
| 29 | --- | --- | --- | 733 | 651 | 685 | 1040 | 948 | 1030 |
| 1120 | 831 | 997 | | | | | | | |
| 30 | --- | --- | --- | 664 | 652 | 660 | 1030 | 858 | 976 |
| 1070 | 974 | 1040 | | | | | | | |
| 31 | --- | --- | --- | 672 | 660 | 667 | --- | --- | --- |
| 1040 | 947 | 993 | | | | | | | |
| MONTH | 4000 | 1520 | 2040 | 2510 | 651 | 1360 | 1060 | 663 | 891 |
| 1120 | 723 | 1020 | | | | | | | |

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|------|------|--------|-----------|-----|-----|------|-----|-----|------|
| MAX | MIN | MEAN | | | | | | | |
| JUNE | JULY | AUGUST | SEPTEMBER | | | | | | |
| 1 | 1030 | 1010 | 1020 | 717 | 130 | 585 | 604 | 562 | 580 |
| 774 | 719 | 755 | | | | | | | |
| 2 | 1050 | 1030 | 1040 | 394 | 204 | 335 | 640 | 589 | 608 |
| 811 | 752 | 783 | | | | | | | |
| 3 | 1500 | 1010 | 1080 | 433 | 392 | 415 | 642 | 573 | 617 |
| 816 | 779 | 799 | | | | | | | |
| 4 | 1520 | 1080 | 1100 | 465 | 428 | 445 | 676 | 589 | 647 |
| 813 | 800 | 805 | | | | | | | |
| 5 | 1290 | 748 | 1040 | 516 | 462 | 488 | 717 | 495 | 665 |

| | | | | | | | | | |
|------|------|------|------|-----|-----|-----|------|------|------|
| 853 | 775 | 817 | | | | | | | |
| 6 | 1370 | 978 | 1110 | 573 | 513 | 543 | 730 | 586 | 672 |
| 891 | 851 | 872 | | | | | | | |
| 7 | 1450 | 305 | 1080 | --- | --- | --- | 758 | 684 | 714 |
| 904 | 876 | 891 | | | | | | | |
| 8 | 1070 | 1030 | 1050 | --- | --- | --- | 853 | 748 | 790 |
| 921 | 285 | 870 | | | | | | | |
| 9 | 1060 | 1000 | 1030 | --- | --- | --- | 897 | 841 | 870 |
| 754 | 444 | 530 | | | | | | | |
| 10 | 1120 | 1060 | 1100 | --- | --- | --- | 945 | 882 | 911 |
| 536 | 449 | 483 | | | | | | | |
| 11 | 1120 | 1100 | 1100 | 635 | 92 | 484 | 974 | 928 | 954 |
| 646 | 536 | 587 | | | | | | | |
| 12 | 1120 | 1090 | 1100 | 622 | 481 | 589 | 1030 | 906 | 992 |
| 743 | 646 | 694 | | | | | | | |
| 13 | 1130 | 853 | 1100 | 635 | 125 | 492 | 1040 | 994 | 1010 |
| 823 | 743 | 785 | | | | | | | |
| 14 | 1140 | 1090 | 1110 | 456 | 252 | 382 | 1060 | 897 | 1010 |
| 885 | 823 | 853 | | | | | | | |
| 15 | 1130 | 532 | 1030 | 516 | 431 | 474 | 1070 | 839 | 1020 |
| 937 | 884 | 911 | | | | | | | |
| 16 | 1120 | 919 | 1060 | 598 | 503 | 549 | 1080 | 1020 | 1050 |
| 936 | 134 | 655 | | | | | | | |
| 17 | 1120 | 1080 | 1100 | 667 | 543 | 610 | 1080 | 1010 | 1040 |
| 610 | 469 | 505 | | | | | | | |
| 18 | 1240 | 1020 | 1050 | 698 | 622 | 679 | 1070 | 1020 | 1050 |
| 576 | 475 | 523 | | | | | | | |
| 19 | 1060 | 1000 | 1030 | 735 | 413 | 640 | 1120 | 422 | 701 |
| 628 | 576 | 599 | | | | | | | |
| 20 | 1230 | 1000 | 1100 | 678 | 511 | 591 | 451 | 388 | 412 |
| 697 | 628 | 660 | | | | | | | |
| 21 | 1250 | 1190 | 1230 | 659 | 484 | 584 | 467 | 421 | 443 |
| 777 | 697 | 731 | | | | | | | |
| 22 | 1220 | 1180 | 1200 | 665 | 150 | 278 | 520 | 456 | 481 |
| 838 | 777 | 810 | | | | | | | |
| 23 | 1240 | 1170 | 1200 | 320 | 264 | 299 | 629 | 513 | 551 |
| 901 | 825 | 871 | | | | | | | |
| 24 | 1270 | 434 | 1050 | 349 | 306 | 328 | 652 | 614 | 631 |
| 948 | 901 | 924 | | | | | | | |
| 25 | 1160 | 1020 | 1110 | 368 | 280 | 346 | 693 | 642 | 667 |
| 1010 | 945 | 983 | | | | | | | |
| 26 | 1150 | 1080 | 1130 | 422 | 360 | 390 | 732 | 666 | 713 |
| 1010 | 880 | 984 | | | | | | | |
| 27 | 1080 | 968 | 1040 | 450 | 414 | 431 | 776 | 732 | 753 |
| 1020 | 544 | 979 | | | | | | | |
| 28 | 1050 | 415 | 819 | 496 | 445 | 467 | 815 | 772 | 799 |
| 941 | 544 | 854 | | | | | | | |
| 29 | 831 | 412 | 582 | 509 | 478 | 495 | 843 | 752 | 826 |
| 941 | 798 | 865 | | | | | | | |
| 30 | 601 | 530 | 556 | 565 | 497 | 534 | 849 | 215 | 572 |
| 830 | 779 | 801 | | | | | | | |

| | | | | | | | | | | |
|-------|------|-----|------|-----|-----|-----|------|-----|-----|-----|
| 31 | --- | --- | --- | 591 | 545 | 561 | 719 | 658 | 677 | --- |
| MONTH | 1520 | 305 | 1040 | --- | --- | --- | 1120 | 215 | 756 | |
| 1020 | 134 | 773 | | | | | | | | |

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE | TIME | DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) | SPE- CIFIC CON- DUCT- ANCE (US/CM) (90095) | PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) | PH WATER WHOLE LAB (STAND- ARD UNITS) (00403) | TEMPER- ATURE (DEG C) WATER (00010) | BARO- METRIC PRES- SURE (MM HG) (00025) | OXYGEN, DIS- SOLVED (PER- CENT SOLVED (MG/L) (00300) | |
|-------|------|---|--|--|--|--|---|---|---|-----|
| OCT | | | | | | | | | | |
| 11... | 1015 | 0.13 | 1060 | 1070 | 7.6 | 7.7 | 7.5 | 742 | 6.5 | 56 |
| NOV | | | | | | | | | | |
| 05... | 0930 | 16 | 581 | -- | 7.2 | -- | 4.5 | 743 | 8.4 | 66 |
| 12... | 1120 | 3.3 | 854 | 873 | 7.3 | 7.8 | 0.5 | 756 | 9.9 | 70 |
| DEC | | | | | | | | | | |
| 16... | 1030 | 9.4 | 1780 | 1830 | 7.3 | 7.5 | 0.0 | 737 | 7.6 | 56 |
| JAN | | | | | | | | | | |
| 22... | 1010 | 6.9 | 2640 | 2670 | 7.0 | 7.6 | 0.0 | 733 | 5.2 | 37 |
| FEB | | | | | | | | | | |
| 06... | 1000 | 5.3 | 1990 | 2000 | 7.1 | 7.7 | 0.0 | 750 | 7.0 | 49 |
| 27... | 1010 | 6.4 | 1930 | 1950 | 7.2 | 7.5 | 0.5 | 740 | 6.5 | 46 |
| MAR | | | | | | | | | | |
| 10... | 0900 | 10 | 1660 | 1670 | 7.2 | 7.5 | 0.5 | -- | 8.4 | 61 |
| 20... | 1244 | 13 | 1550 | 1600 | 7.3 | 7.5 | 3.0 | 741 | 9.8 | 75 |
| 26... | 1140 | 37 | 1200 | 1200 | 7.4 | 7.4 | 2.0 | 742 | 9.5 | 71 |
| APR | | | | | | | | | | |
| 10... | 1040 | 36 | 873 | 879 | 7.5 | 7.6 | 3.5 | 750 | 11.4 | 87 |
| 17... | 0943 | 20 | 929 | 944 | 7.9 | 7.8 | 6.5 | 749 | 12.4 | 102 |
| 25... | 1045 | 13 | 1050 | 1050 | 7.8 | 7.8 | 12.0 | 745 | 10.6 | 100 |
| MAY | | | | | | | | | | |
| 01... | 1045 | 15 | 994 | 999 | 7.7 | 7.7 | 9.0 | 738 | 9.4 | 84 |
| 09... | 1055 | 17 | 1040 | 1040 | 7.7 | 7.8 | 11.0 | 745 | 9.4 | 87 |
| 13... | 0912 | 9.8 | 1100 | 1110 | 7.9 | 7.9 | 8.5 | 738 | 11.3 | 100 |
| 19... | 1000 | 20 | 809 | 813 | 7.6 | 7.5 | 14.5 | 742 | 5.8 | 58 |
| 27... | 1030 | 7.4 | 1090 | 1060 | 7.8 | 7.9 | 14.5 | 750 | 8.7 | 87 |
| 29... | 0955 | 16 | 884 | 857 | 7.5 | 7.7 | 13.5 | 741 | 6.7 | 66 |

| | | | | | | | | | |
|-------|-------|----|-----|-----|-----|-----|--------|-------|------|
| 16... | -- | -- | 370 | 238 | 234 | 290 | 0.400 | 0.030 | 0.80 |
| 0.80 | 0.520 | | | | | | | | |
| JAN | | | | | | | | | |
| 22... | -- | -- | 390 | 239 | 243 | 292 | 0.540 | 0.040 | 1.0 |
| 1.2 | 0.410 | | | | | | | | |
| FEB | | | | | | | | | |
| 06... | -- | -- | 470 | 278 | 281 | 339 | 0.470 | 0.020 | 0.90 |
| 1.0 | 0.500 | | | | | | | | |
| 27... | -- | -- | 390 | 254 | 244 | 310 | 0.530 | 0.020 | 0.80 |
| 1.0 | 0.470 | | | | | | | | |
| MAR | | | | | | | | | |
| 10... | -- | -- | 340 | 197 | 205 | 240 | 0.540 | 0.020 | 0.90 |
| 1.1 | 0.480 | | | | | | | | |
| 20... | -- | -- | 280 | 180 | 188 | 220 | 0.460 | 0.020 | 0.80 |
| 1.1 | 0.560 | | | | | | | | |
| 26... | -- | -- | 210 | 139 | 145 | 170 | 0.360 | 0.030 | 0.70 |
| 1.0 | 0.850 | | | | | | | | |
| APR | | | | | | | | | |
| 10... | -- | -- | 260 | 162 | 171 | 198 | 0.110 | 0.020 | 0.60 |
| 0.90 | 0.850 | | | | | | | | |
| 17... | -- | -- | 300 | 188 | 202 | 229 | <0.015 | 0.010 | 0.40 |
| 0.70 | 0.480 | | | | | | | | |
| 25... | -- | -- | 360 | 224 | 231 | 273 | 0.018 | 0.010 | 0.37 |
| 0.77 | 0.320 | | | | | | | | |
| MAY | | | | | | | | | |
| 01... | -- | -- | 340 | 208 | 219 | 254 | 0.034 | 0.025 | 0.55 |
| 0.82 | 0.663 | | | | | | | | |
| 09... | -- | -- | 350 | 216 | 222 | 264 | 0.058 | 0.022 | 0.54 |
| 0.80 | 0.559 | | | | | | | | |
| 13... | -- | -- | 400 | 238 | 246 | 290 | <0.015 | 0.012 | 0.23 |
| 0.79 | 0.397 | | | | | | | | |
| 19... | -- | -- | 260 | 148 | 171 | 181 | 0.243 | 0.031 | 0.56 |
| 1.0 | 0.486 | | | | | | | | |
| 27... | -- | -- | 420 | 235 | 246 | 287 | 0.026 | 0.022 | 0.47 |
| 0.72 | 0.223 | | | | | | | | |
| 29... | -- | -- | 300 | 181 | 190 | 221 | 0.164 | 0.030 | 0.57 |
| 1.0 | 0.532 | | | | | | | | |
| JUN | | | | | | | | | |
| 06... | -- | -- | 370 | 208 | 217 | 254 | 0.038 | 0.025 | 0.67 |
| 1.1 | 0.172 | | | | | | | | |
| 13... | -- | -- | 370 | 189 | 196 | 231 | 0.110 | 0.023 | 0.59 |
| 0.93 | 0.141 | | | | | | | | |
| 15... | -- | -- | 260 | 142 | 144 | 173 | 0.266 | 0.048 | 0.89 |
| 1.7 | 0.390 | | | | | | | | |
| 24... | -- | -- | 300 | 181 | 183 | 221 | 0.239 | 0.024 | 0.83 |
| 2.2 | 0.238 | | | | | | | | |
| JUL | | | | | | | | | |
| 01... | -- | -- | 25 | 18 | 40 | 22 | 0.226 | 0.014 | 0.43 |
| 2.0 | 0.214 | | | | | | | | |
| 07... | -- | -- | 200 | 146 | 144 | 175 | 0.206 | 0.030 | 0.74 |
| 1.3 | 0.235 | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | 0.301 | 0.032 | 0.82 |
| 1.5 | 0.327 | | | | | | | | |
| 10... | -- | -- | 170 | 136 | 134 | 166 | 0.170 | 0.033 | 0.73 |
| 1.1 | 0.15 | | | | | | | | |
| 11... | -- | -- | 55 | 44 | 49 | 54 | 0.098 | 0.018 | 0.40 |

| | | | | | | | | | | |
|-------|-------|------|-----|-----|-----|-----|-------|-------|------|----|
| 1.2 | 0.257 | | | | | | | | | |
| 15... | -- | -- | 160 | 109 | 120 | 133 | 0.093 | 0.028 | 0.68 | |
| 0.97 | 0.190 | | | | | | | | | |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | | | | | | | | | |
| 19... | -- | -- | 210 | 148 | 147 | 181 | 0.349 | 0.045 | 1.3 | |
| 2.0 | 0.457 | | | | | | | | | |
| 22... | -- | -- | 87 | 62 | 68 | 76 | 0.141 | 0.026 | 0.49 | |
| 1.2 | 0.206 | | | | | | | | | |
| 30... | -- | -- | 180 | 126 | 143 | 154 | 0.098 | 0.013 | 0.89 | |
| 1.0 | 0.107 | | | | | | | | | |
| 31... | -- | -- | -- | 145 | -- | 177 | 0.116 | 0.011 | 0.76 | |
| 1.1 | 0.126 | | | | | | | | | |
| AUG | | | | | | | | | | |
| 08... | -- | -- | 280 | 246 | 191 | 300 | 0.118 | 0.033 | 0.64 | |
| 1.1 | 0.271 | | | | | | | | | |
| 14... | -- | -- | 380 | 232 | 239 | 283 | 0.131 | 0.039 | 0.69 | |
| 0.87 | 0.350 | | | | | | | | | |
| 18... | -- | -- | 390 | 220 | 241 | 268 | 0.137 | 0.040 | 0.55 | |
| 0.79 | 0.409 | | | | | | | | | |
| 25... | -- | -- | 220 | 142 | 160 | 173 | 0.093 | 0.021 | 0.50 | |
| 0.88 | 0.225 | | | | | | | | | |
| SEP | | | | | | | | | | |
| 09... | -- | -- | 190 | 115 | 120 | 140 | 0.105 | 0.026 | 0.44 | |
| 0.79 | 0.362 | | | | | | | | | |
| 29... | 500 | 3600 | 330 | -- | 209 | -- | 0.060 | 0.027 | 0.39 | |
| 0.64 | 0.416 | | | | | | | | | |

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| SODIUM SIUM, DIS- SOLVED DATE (MG/L (MG/L K) | POTAS- PHOS- PHORUS TOTAL (MG/L AS P) (00665) | PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666) | PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00671) | CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681) | CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689) | CARBON, ORGANIC CALCIUM DIS- SOLVED (MG/L AS CA) (00915) | CARBON, ORGANIC SIUM, DIS- SOLVED (MG/L AS MG) (00925) | MAGNE- SODIUM, DIS- SOLVED (MG/L AS NA) (00930) | AD- SORP- TION RATIO (00931) | AS (00935) |
|---|---|--|--|---|--|---|---|---|--|---------------|
| OCT | | | | | | | | | | |
| 11... | 0.060 | 0.020 | 0.020 | 5.4 | 0.70 | 85 | 23 | 82 | 2 | 4.7 |
| NOV | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 0.060 | 0.020 | 0.010 | 6.5 | 0.70 | 87 | 23 | 47 | 1 | 3.8 |

| | | | | | | | | | | |
|-------|--------|--------|--------|-----|-------|-----|-----|-----|-----|-----|
| DEC | | | | | | | | | | |
| 16... | 0.100 | 0.030 | 0.010 | 5.7 | 0.80 | 100 | 28 | 210 | 5 | 6.8 |
| JAN | | | | | | | | | | |
| 22... | 0.050 | <0.010 | <0.010 | 6.6 | 0.70 | 110 | 29 | 350 | 8 | 5.7 |
| FEB | | | | | | | | | | |
| 06... | <0.010 | <0.010 | <0.010 | 4.6 | 0.30 | 130 | 35 | 220 | 4 | 6.0 |
| 27... | 0.040 | <0.010 | 0.020 | 5.3 | 0.90 | 110 | 30 | 229 | 5 | 7.5 |
| MAR | | | | | | | | | | |
| 10... | 0.050 | <0.010 | 0.020 | 5.6 | 0.80 | 95 | 25 | 190 | 4 | 5.2 |
| 20... | 0.090 | <0.010 | <0.010 | 5.9 | 1.6 | 76 | 21 | 180 | 5 | 4.9 |
| 26... | 0.120 | <0.010 | <0.010 | 6.4 | 0.90 | 60 | 15 | 140 | 4 | 4.4 |
| APR | | | | | | | | | | |
| 10... | 0.060 | <0.010 | <0.010 | 7.0 | 0.20 | 74 | 19 | 68 | 2 | 3.9 |
| 17... | 0.070 | <0.010 | <0.010 | 6.2 | 1.3 | 83 | 24 | 62 | 2 | 4.0 |
| 25... | 0.091 | 0.013 | <0.010 | 6.0 | 1.0 | 97 | 28 | 66 | 2 | 3.8 |
| MAY | | | | | | | | | | |
| 01... | 0.036 | <0.010 | <0.010 | 7.9 | 0.60 | 93 | 27 | 65 | 2 | 4.1 |
| 09... | 0.046 | <0.010 | <0.010 | 6.8 | 0.70 | 95 | 27 | 66 | 2 | 4.0 |
| 13... | 0.058 | <0.010 | <0.010 | 6.3 | 0.70 | 110 | 31 | 72 | 2 | 3.7 |
| 19... | 0.074 | <0.010 | <0.010 | 6.0 | 1.2 | 72 | 19 | 53 | 1 | 3.2 |
| 27... | 0.052 | <0.010 | <0.010 | 6.8 | 0.90 | 110 | 32 | 63 | 1 | 3.9 |
| 29... | 0.078 | <0.010 | <0.010 | 7.0 | 0.60 | 82 | 24 | 46 | 1 | 3.1 |
| JUN | | | | | | | | | | |
| 06... | 0.069 | <0.010 | <0.010 | 7.3 | 1.2 | 97 | 30 | 60 | 1 | 3.9 |
| 13... | 0.070 | 0.014 | 0.014 | 7.2 | 1.3 | 91 | 34 | 70 | 2 | 4.0 |
| 15... | 0.175 | 0.023 | <0.010 | 10 | 1.9 | 66 | 24 | 53 | 1 | 3.6 |
| 24... | 0.309 | 0.036 | 0.029 | 7.8 | >5.0 | 77 | 25 | 56 | 1 | 3.8 |
| JUL | | | | | | | | | | |
| 01... | 0.381 | 0.030 | 0.027 | 2.4 | >4.0 | 7.6 | 1.4 | 4.5 | 0.4 | 1.1 |
| 07... | 0.181 | 0.042 | 0.032 | 14 | 1.7 | 56 | 14 | 43 | 1 | 3.3 |
| 07... | 0.202 | 0.014 | 0.021 | -- | -- | -- | -- | -- | -- | -- |
| 10... | 0.125 | 0.014 | 0.021 | 8.1 | 1.8 | 49 | 13 | 39 | 1 | 2.6 |
| 11... | 0.155 | 0.022 | 0.024 | 4.2 | 1.7 | 16 | 3.7 | 12 | 0.7 | 1.2 |
| 15... | 0.230 | <0.010 | <0.010 | 8.7 | 2.7 | 46 | 11 | 28 | 1 | 2.4 |
| 19... | -- | -- | -- | 7.7 | >5.0 | -- | -- | -- | -- | -- |
| 19... | 0.254 | 0.027 | 0.032 | -- | -- | 57 | 15 | 39 | 1 | 2.8 |
| 22... | 0.174 | 0.020 | 0.027 | 4.9 | 3.1 | 25 | 5.8 | 20 | 0.9 | 1.5 |
| 30... | 0.152 | 0.038 | 0.044 | 9.0 | 0.50 | 47 | 14 | 40 | 1 | 3.6 |
| 31... | 0.130 | 0.038 | 0.029 | 8.8 | 0.50 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | |
| 08... | 0.099 | <0.010 | 0.015 | 7.8 | <0.20 | 75 | 21 | 51 | 1 | 3.5 |
| 14... | 0.060 | 0.026 | <0.010 | 6.3 | 1.1 | 110 | 28 | 59 | 1 | 3.8 |
| 18... | 0.058 | <0.010 | 0.015 | 6.6 | 1.3 | 110 | 30 | 64 | 1 | 4.1 |
| 25... | 0.075 | 0.011 | 0.020 | 6.9 | 1.0 | 62 | 16 | 38 | 1 | 2.8 |
| SEP | | | | | | | | | | |
| 09... | 0.079 | <0.010 | 0.011 | 4.8 | 1.5 | 52 | 14 | 34 | 1 | 2.9 |
| 29... | 0.056 | <0.010 | <0.010 | 5.5 | 0.60 | 91 | 25 | 50 | 1 | 3.9 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

SED. SOLIDS, SOLIDS,
 CHLO- FLUO- SILICA, MANGA- RESIDUE SUM OF
 SUSP.

| SIEVE DIAM. FINER DATE THAN | RIDE, DIS- SOLVED (MG/L AS CL) | SULFATE DIS- SOLVED (MG/L AS SO4) | RIDE, DIS- SOLVED (MG/L AS F) | DIS- SOLVED (MG/L AS SIO2) | IRON, DIS- SOLVED (UG/L AS FE) | NESE, DIS- SOLVED (UG/L AS MN) | AT 180 DEG. C DIS- SOLVED (MG/L) | CONSTITUENTS, DIS- SOLVED (MG/L) | SEDIMENT, SUS- PENDED (MG/L) | % |
|---|--|---|---|-------------------------------------|--|--|--|---|---------------------------------------|----|
| .062 MM (70331) | (00940) | (00945) | (00950) | (00955) | (01046) | (01056) | (70300) | (70301) | (80154) | |
| OCT 11... | 160 | 37 | 0.20 | 19 | 110 | 280 | 638 | 564 | 77 | 24 |
| NOV 05... | -- | -- | -- | -- | -- | -- | -- | -- | 13 | 90 |
| 12... | 110 | 91 | 0.20 | 15 | 21 | 300 | 542 | 496 | -- | -- |
| DEC 16... | 370 | 99 | 0.20 | 16 | 25 | 680 | 1030 | 976 | 95 | 61 |
| JAN 22... | 640 | 100 | 0.10 | 17 | 26 | 610 | 1480 | 1400 | 93 | 37 |
| FEB 06... | 400 | 120 | 0.20 | 20 | 21 | 660 | 1140 | 1100 | 109 | 17 |
| 27... | 420 | 110 | 0.18 | 17 | 17 | 964 | 1120 | 1080 | 101 | 26 |
| MAR 10... | 410 | 89 | 0.10 | 14 | 11 | 790 | 932 | 950 | 46 | 60 |
| 20... | 340 | 69 | 0.20 | 12 | 15 | 540 | 868 | 815 | 36 | 81 |
| 26... | 250 | 46 | 0.10 | 9.5 | 43 | 300 | 671 | 613 | 22 | 92 |
| APR 10... | 130 | 69 | 0.13 | 10 | 48 | 260 | 500 | 480 | 36 | 63 |
| 17... | 130 | 83 | 0.17 | 9.5 | 40 | 347 | 618 | 512 | 33 | 79 |
| 25... | 140 | 100 | 0.21 | 8.9 | 39 | 523 | 626 | 588 | 70 | 80 |
| MAY 01... | 130 | 93 | 0.16 | 8.7 | 37 | 480 | 604 | 553 | 38 | 70 |
| 09... | 140 | 95 | 0.15 | 9.0 | 48 | 506 | 641 | 572 | 39 | 76 |
| 13... | 160 | 100 | 0.18 | 9.7 | 33 | 453 | 654 | 632 | 36 | 53 |
| 19... | 120 | 61 | 0.18 | 7.0 | 47 | 337 | 479 | 427 | 16 | 92 |
| 27... | 140 | 110 | 0.27 | 11 | 84 | 530 | 642 | 613 | 42 | 46 |
| 29... | 110 | 93 | 0.18 | 8.4 | 31 | 467 | 509 | 477 | 12 | 98 |
| JUN 06... | 130 | 110 | 0.20 | 10 | 64 | 515 | 630 | 570 | 20 | 75 |
| 13... | 160 | 120 | 0.20 | 15 | 110 | 754 | 656 | 603 | 294 | 96 |
| 15... | 110 | 79 | 0.19 | 12 | 55 | 485 | 542 | 436 | 22 | 98 |
| 24... | 120 | 69 | 0.15 | 14 | 53 | 522 | 551 | 475 | 187 | 86 |
| JUL 01... | 7.8 | 3.8 | <0.10 | 1.2 | 93 | 53 | 56 | 40 | 183 | 92 |
| 07... | 79 | 34 | 0.15 | 12 | 100 | 410 | 364 | 331 | 37 | 95 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10... | 77 | 33 | 0.14 | 10 | 110 | 343 | 368 | 307 | 18 | 95 |
| 11... | 21 | 10 | <0.10 | 3.1 | 41 | 135 | 114 | 95 | 67 | 91 |
| 15... | 51 | 27 | 0.11 | 10 | 120 | 414 | 306 | 242 | 57 | 93 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 75 | 39 | 0.14 | 12 | 68 | 551 | 397 | 333 | 57 | 97 |
| 22... | 36 | 15 | <0.10 | 4.9 | 57 | 207 | 178 | 148 | 51 | 91 |
| 30... | 76 | 19 | 0.13 | 12 | 71 | 541 | 355 | 288 | 20 | 94 |

| | | | | | | | | | | |
|-------|-----|----|------|-----|----|-----|-----|-----|----|----|
| 31... | -- | -- | -- | -- | -- | -- | -- | -- | 20 | 88 |
| AUG | | | | | | | | | | |
| 08... | 98 | 53 | 0.15 | 14 | 28 | 686 | 494 | 466 | 14 | 99 |
| 14... | 130 | 88 | 0.18 | 16 | 30 | 747 | 667 | 574 | 20 | 89 |
| 18... | 140 | 94 | 0.18 | 16 | 44 | 734 | 646 | 587 | 26 | 89 |
| 25... | 79 | 42 | 0.13 | 11 | 34 | 378 | 439 | 338 | 12 | 96 |
| SEP | | | | | | | | | | |
| 09... | 73 | 41 | 0.10 | 8.3 | 23 | 306 | 328 | 297 | 20 | 89 |
| 29... | 120 | 77 | 0.15 | 15 | 23 | 413 | 577 | 506 | 18 | 88 |