

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to 1973, 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1998 to current year.

pH: March 1998 to current year.

WATER TEMPERATURE: March 1998 to current year.

DISSOLVED OXYGEN: March 1998 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: March 1998 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from March 1998 to current year.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources (DENR), Division of Water Resources, to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Partial record site from October 1967 to September 1973. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm Hg beginning October 1, 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

| CONSTITUENT | MAXIMUM RECORDED | MINIMUM RECORDED |
|--|--------------------------|---|
| SPECIFIC CONDUCTANCE, microsiemens | 5160, March 29, 2003 | 52, September 17, 1999 |
| pH, standard units | 8.1, July 1, 2, 2002 | 6.1, September 17, 1999, September 20, 21, 2003 |
| WATER TEMPERATURE, °C | 31.0, August 1, 2002 | 2.0, January 28, 2004 |
| DISSOLVED OXYGEN, mg/L | 15.5, January 6, 7, 1999 | 2.4, September 24, 2003 |
| DISSOLVED OXYGEN, PERCENT SATURATION,% | 123, January 6, 7, 1999 | 28, September 24, 2003 |

EXTREMES FOR CURRENT YEAR.--

| CONSTITUENT | MAXIMUM RECORDED | MINIMUM RECORDED |
|--|--------------------------|--|
| SPECIFIC CONDUCTANCE, microsiemens | 124, July 18, 19 | 78, August 17 |
| pH, standard units | 7.9, February 26, 27, 28 | 6.5, August 16, 17, 31, September 3, 4, 10 |
| WATER TEMPERATURE, °C | 29.9, July 15 | 2.0, January 28 |
| DISSOLVED OXYGEN, mg/L | 13.1, February 14, 15 | 4.4, October 9 |
| DISSOLVED OXYGEN, PERCENT SATURATION,% | 106, March 7 | 49, October 9 |

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 88 | 87 | 87 | 90 | 88 | 89 | 92 | 86 | 88 | 102 | 101 | 101 |
| 2 | 89 | 87 | 88 | 91 | 88 | 90 | 91 | 86 | 88 | 102 | 101 | 102 |
| 3 | 90 | 88 | 89 | 93 | 90 | 91 | 91 | 86 | 88 | 103 | 100 | 102 |
| 4 | 91 | 89 | 90 | 93 | 89 | 91 | 92 | 85 | 87 | 103 | 98 | 100 |
| 5 | 92 | 89 | 91 | 93 | 89 | 91 | 90 | 86 | 88 | 106 | 100 | 102 |
| 6 | 93 | 90 | 91 | --- | --- | --- | 92 | 88 | 89 | 103 | 98 | 101 |
| 7 | 94 | 87 | 93 | 105 | 89 | 94 | 92 | 88 | 89 | 103 | 99 | 101 |
| 8 | 94 | 86 | 93 | 101 | 91 | 94 | 92 | 87 | 89 | 106 | 101 | 103 |
| 9 | 95 | 93 | 94 | 99 | 92 | 95 | 91 | 87 | 89 | 107 | 101 | 103 |
| 10 | 95 | 92 | 95 | 101 | 91 | 95 | 91 | 87 | 89 | 107 | 101 | 103 |
| 11 | 95 | 94 | 94 | 99 | 90 | 93 | 91 | 88 | 89 | 108 | 102 | 105 |
| 12 | 94 | 93 | 94 | 97 | 90 | 93 | 91 | 85 | 88 | 109 | 102 | 105 |
| 13 | 93 | 92 | 93 | 98 | 90 | 93 | 86 | 85 | 85 | 111 | 102 | 105 |
| 14 | 93 | 87 | 91 | 96 | 89 | 92 | 89 | 85 | 88 | 110 | 102 | 105 |
| 15 | 90 | 89 | 89 | 96 | 87 | 90 | 94 | 88 | 93 | 110 | 101 | 105 |
| 16 | 94 | 90 | 92 | 94 | 87 | 89 | 92 | 91 | 92 | 110 | 102 | 105 |
| 17 | 95 | 93 | 94 | 95 | 87 | 90 | 92 | 91 | 92 | 108 | 100 | 104 |
| 18 | 94 | 93 | 94 | 95 | 87 | 90 | 94 | 92 | 93 | 108 | 100 | 103 |
| 19 | 94 | 92 | 93 | 94 | 87 | 89 | 94 | 93 | 94 | 108 | 100 | 103 |
| 20 | 94 | 93 | 94 | 93 | 86 | 88 | 94 | 93 | 94 | 109 | 100 | 103 |
| 21 | 97 | 91 | 94 | 93 | 85 | 87 | 94 | 93 | 94 | 108 | 100 | 104 |
| 22 | 95 | 91 | 93 | 90 | 85 | 87 | 95 | 93 | 94 | 111 | 102 | 105 |
| 23 | 94 | 91 | 93 | 91 | 85 | 88 | 95 | 94 | 94 | 119 | 103 | 111 |
| 24 | 96 | 89 | 92 | 93 | 85 | 88 | 95 | 94 | 95 | 119 | 102 | 111 |
| 25 | 91 | 89 | 90 | 93 | 84 | 87 | 96 | 95 | 95 | 120 | 103 | 111 |
| 26 | 92 | 89 | 91 | 89 | 84 | 86 | 97 | 95 | 96 | 119 | 105 | 109 |
| 27 | 95 | 92 | 93 | 91 | 85 | 88 | 98 | 96 | 97 | 121 | 110 | 119 |
| 28 | 95 | 89 | 92 | 91 | 85 | 88 | 99 | 97 | 98 | 121 | 110 | 118 |
| 29 | 92 | 88 | 90 | 92 | 85 | 88 | 100 | 99 | 100 | 118 | 96 | 104 |
| 30 | 92 | 88 | 90 | 92 | 86 | 88 | 101 | 100 | 100 | 100 | 96 | 97 |
| 31 | 90 | 88 | 89 | --- | --- | --- | 102 | 100 | 101 | 102 | 95 | 99 |
| MONTH | 97 | 86 | 92 | --- | --- | --- | 102 | 85 | 92 | 121 | 95 | 105 |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 107 | 96 | 101 | 83 | 80 | 82 | 115 | 113 | 114 | 103 | 102 | 102 |
| 2 | 112 | 98 | 101 | 84 | 81 | 83 | 113 | 112 | 113 | 105 | 102 | 104 |
| 3 | 116 | 112 | 115 | --- | --- | --- | 113 | 108 | 110 | 105 | 103 | 104 |
| 4 | 114 | 101 | 110 | --- | --- | --- | 108 | 104 | 106 | 106 | 103 | 105 |
| 5 | 110 | 100 | 105 | --- | --- | --- | 106 | 104 | 105 | 104 | 102 | 103 |
| 6 | 110 | 95 | 102 | --- | --- | --- | 106 | 104 | 105 | 104 | 102 | 103 |
| 7 | 100 | 92 | 94 | --- | --- | --- | 107 | 104 | 106 | 105 | 103 | 104 |
| 8 | 97 | 87 | 91 | --- | --- | --- | 107 | 104 | 106 | 106 | 104 | 105 |
| 9 | 98 | 88 | 91 | --- | --- | --- | 111 | 106 | 109 | 106 | 104 | 105 |
| 10 | 96 | 90 | 92 | --- | --- | --- | 111 | 108 | 110 | 107 | 105 | 106 |
| 11 | 98 | 90 | 93 | 122 | 110 | 117 | 112 | 109 | 111 | 107 | 105 | 106 |
| 12 | 92 | 90 | 91 | 123 | 111 | 118 | 112 | 109 | 111 | 107 | 105 | 106 |
| 13 | 93 | 90 | 92 | 122 | 110 | 117 | 113 | 110 | 111 | 107 | 105 | 106 |
| 14 | 93 | 91 | 92 | 120 | 109 | 114 | 111 | 110 | 111 | 107 | 106 | 107 |
| 15 | 92 | 90 | 91 | 117 | 105 | 110 | 110 | 103 | 107 | 107 | 105 | 106 |
| 16 | 98 | 88 | 89 | 115 | 104 | 107 | 104 | 96 | 102 | 108 | 106 | 107 |
| 17 | 99 | 90 | 92 | 111 | 107 | 109 | 97 | 92 | 95 | 108 | 106 | 107 |
| 18 | 92 | 90 | 91 | 111 | 107 | 109 | 92 | 91 | 92 | 108 | 107 | 107 |
| 19 | 92 | 90 | 91 | 110 | 100 | 104 | 92 | 89 | 91 | 109 | 108 | 108 |
| 20 | 92 | 90 | 91 | 106 | 100 | 103 | 91 | 89 | 90 | 110 | 109 | 109 |
| 21 | 93 | 88 | 91 | 107 | 101 | 102 | 95 | 91 | 93 | 110 | 109 | 109 |
| 22 | 92 | 91 | 92 | 108 | 102 | 105 | 96 | 95 | 96 | 111 | 109 | 110 |
| 23 | 93 | 92 | 92 | 112 | 102 | 106 | 98 | 95 | 97 | 111 | 109 | 110 |
| 24 | 93 | 91 | 92 | 112 | 107 | 110 | 98 | 96 | 97 | 110 | 108 | 109 |
| 25 | 94 | 92 | 93 | 111 | 103 | 108 | 99 | 97 | 97 | 108 | 106 | 107 |
| 26 | 95 | 92 | 93 | 112 | 102 | 106 | 101 | 97 | 99 | 108 | 107 | 108 |
| 27 | 92 | 87 | 89 | 108 | 104 | 106 | 101 | 97 | 100 | 108 | 106 | 107 |
| 28 | 87 | 79 | 82 | 113 | 106 | 110 | 102 | 99 | 99 | 108 | 107 | 107 |
| 29 | 80 | 79 | 80 | 115 | 113 | 113 | 102 | 99 | 100 | 108 | 107 | 107 |
| 30 | --- | --- | --- | 114 | 113 | 114 | 103 | 100 | 101 | 108 | 107 | 107 |
| 31 | --- | --- | --- | 115 | 113 | 114 | --- | --- | --- | 111 | 108 | 108 |
| MONTH | 116 | 79 | 94 | --- | --- | --- | 115 | 89 | 103 | 111 | 102 | 106 |

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| DAY | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 111 | 110 | 111 | 109 | 102 | 104 | 110 | 108 | 109 | 112 | 98 | 102 |
| 2 | 111 | 109 | 110 | 108 | 103 | 105 | 112 | 107 | 109 | 98 | 96 | 96 |
| 3 | 110 | 109 | 110 | 109 | 103 | 105 | 110 | 103 | 106 | 97 | 93 | 94 |
| 4 | 110 | 109 | 110 | 111 | 103 | 106 | 107 | 95 | 99 | 99 | 93 | 95 |
| 5 | 111 | 109 | 110 | 110 | 103 | 107 | 101 | 98 | 100 | 97 | 93 | 94 |
| 6 | 110 | 108 | 109 | 110 | 103 | 107 | 103 | 97 | 101 | 97 | 93 | 95 |
| 7 | 110 | 108 | 109 | 111 | 103 | 107 | 110 | 101 | 105 | 98 | 93 | 95 |
| 8 | 110 | 108 | 109 | 113 | 105 | 109 | 112 | 104 | 108 | 102 | 94 | 97 |
| 9 | 110 | 108 | 109 | 113 | 103 | 108 | 113 | 104 | 107 | 102 | 94 | 97 |
| 10 | 111 | 109 | 109 | 110 | 101 | 105 | 106 | 100 | 103 | 100 | 86 | 93 |
| 11 | 111 | 105 | 108 | 109 | 102 | 106 | 104 | 95 | 99 | 88 | 85 | 86 |
| 12 | 107 | 104 | 106 | 112 | 103 | 108 | 101 | 95 | 97 | 89 | 84 | 86 |
| 13 | 106 | 105 | 106 | 114 | 109 | 112 | 101 | 96 | 98 | 90 | 86 | 87 |
| 14 | 107 | 105 | 106 | 116 | 111 | 114 | 101 | 94 | 97 | 92 | 88 | 89 |
| 15 | 107 | 106 | 106 | 117 | 109 | 113 | 95 | 86 | 90 | 92 | 89 | 90 |
| 16 | 107 | 106 | 107 | 119 | 110 | 114 | 86 | 79 | 82 | 93 | 90 | 91 |
| 17 | 108 | 106 | 107 | 122 | 118 | 119 | 88 | 78 | 81 | 95 | 90 | 92 |
| 18 | 113 | 100 | 107 | 124 | 119 | 121 | 91 | 87 | 89 | 94 | 89 | 91 |
| 19 | 110 | 101 | 105 | 124 | 119 | 121 | 96 | 90 | 92 | 93 | 89 | 91 |
| 20 | 110 | 103 | 105 | 120 | 113 | 116 | 98 | 93 | 95 | 94 | 90 | 91 |
| 21 | 112 | 103 | 107 | 120 | 114 | 118 | 101 | 97 | 99 | 96 | 90 | 92 |
| 22 | 112 | 104 | 108 | 118 | 108 | 114 | 102 | 100 | 101 | 99 | 91 | 95 |
| 23 | 112 | 103 | 106 | 116 | 107 | 110 | 104 | 101 | 102 | 100 | 94 | 96 |
| 24 | 111 | 102 | 106 | 117 | 107 | 111 | 106 | 103 | 104 | 100 | 96 | 97 |
| 25 | 113 | 103 | 107 | 115 | 106 | 110 | 109 | 104 | 107 | 101 | 97 | 98 |
| 26 | 111 | 102 | 105 | 116 | 106 | 110 | 111 | 107 | 109 | 102 | 98 | 99 |
| 27 | 108 | 101 | 104 | 109 | 102 | 105 | 114 | 108 | 110 | 104 | 100 | 102 |
| 28 | 108 | 101 | 103 | 109 | 100 | 104 | 115 | 109 | 112 | 107 | 100 | 103 |
| 29 | 108 | 102 | 104 | 112 | 105 | 109 | 117 | 111 | 114 | 104 | 99 | 101 |
| 30 | 109 | 101 | 104 | 111 | 104 | 108 | 119 | 113 | 115 | 102 | 101 | 102 |
| 31 | --- | --- | --- | 113 | 106 | 110 | 119 | 111 | 116 | --- | --- | --- |
| MONTH | 113 | 100 | 107 | 124 | 100 | 110 | 119 | 78 | 102 | 112 | 84 | 95 |

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 6.9 | 6.8 | 6.8 | 7.1 | 7.0 | 7.1 | 7.4 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| 2 | 6.9 | 6.9 | 6.9 | 7.1 | 7.0 | 7.1 | 7.4 | 7.3 | 7.4 | 7.3 | 7.3 | 7.3 |
| 3 | 6.9 | 6.9 | 6.9 | 7.2 | 7.1 | 7.1 | 7.4 | 7.3 | 7.3 | 7.3 | 7.1 | 7.2 |
| 4 | 6.9 | 6.7 | 6.9 | 7.3 | 7.1 | 7.2 | 7.4 | 7.4 | 7.4 | 7.1 | 7.0 | 7.0 |
| 5 | 6.7 | 6.6 | 6.6 | 7.3 | 7.2 | 7.2 | 7.4 | 7.3 | 7.4 | 7.1 | 7.0 | 7.1 |
| 6 | 6.8 | 6.7 | 6.7 | --- | --- | --- | 7.4 | 7.3 | 7.4 | 7.2 | 7.0 | 7.0 |
| 7 | 6.8 | 6.8 | 6.8 | 7.3 | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.1 | 7.1 | 7.1 |
| 8 | 6.9 | 6.7 | 6.8 | 7.2 | 7.2 | 7.2 | 7.4 | 7.3 | 7.4 | 7.2 | 7.1 | 7.2 |
| 9 | 6.7 | 6.7 | 6.7 | 7.2 | 7.2 | 7.2 | 7.4 | 7.3 | 7.4 | 7.3 | 7.2 | 7.3 |
| 10 | 6.8 | 6.7 | 6.8 | 7.2 | 7.2 | 7.2 | 7.4 | 7.3 | 7.4 | 7.3 | 7.2 | 7.3 |
| 11 | 6.9 | 6.8 | 6.8 | 7.3 | 7.2 | 7.2 | 7.4 | 7.3 | 7.3 | 7.2 | 7.2 | 7.2 |
| 12 | 6.9 | 6.8 | 6.9 | 7.3 | 7.2 | 7.2 | 7.3 | 7.2 | 7.3 | 7.3 | 7.2 | 7.2 |
| 13 | 7.0 | 6.9 | 6.9 | 7.3 | 7.2 | 7.2 | 7.4 | 7.3 | 7.3 | 7.3 | 7.2 | 7.3 |
| 14 | 7.0 | 6.9 | 7.0 | 7.3 | 7.2 | 7.2 | 7.5 | 7.4 | 7.4 | 7.3 | 7.3 | 7.3 |
| 15 | 7.0 | 6.9 | 7.0 | 7.3 | 7.2 | 7.3 | 7.4 | 7.3 | 7.4 | 7.3 | 7.3 | 7.3 |
| 16 | 7.0 | 6.9 | 7.0 | 7.3 | 7.2 | 7.3 | 7.4 | 7.3 | 7.3 | 7.4 | 7.3 | 7.3 |
| 17 | 7.0 | 7.0 | 7.0 | 7.3 | 7.2 | 7.2 | 7.4 | 7.3 | 7.4 | 7.4 | 7.3 | 7.4 |
| 18 | 7.1 | 7.0 | 7.0 | 7.4 | 7.2 | 7.3 | 7.4 | 7.3 | 7.4 | 7.4 | 7.3 | 7.4 |
| 19 | 7.1 | 7.0 | 7.1 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.4 | 7.3 | 7.3 |
| 20 | 7.0 | 7.0 | 7.0 | 7.3 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| 21 | 7.0 | 7.0 | 7.0 | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.2 | 7.3 |
| 22 | 7.1 | 7.0 | 7.0 | 7.3 | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.2 | 7.1 | 7.1 |
| 23 | 7.0 | 7.0 | 7.0 | 7.3 | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.2 | 7.1 | 7.2 |
| 24 | 7.2 | 7.0 | 7.1 | 7.3 | 7.2 | 7.2 | 7.3 | 7.2 | 7.3 | 7.2 | 7.2 | 7.2 |
| 25 | 7.2 | 7.2 | 7.2 | 7.3 | 7.2 | 7.3 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 26 | 7.2 | 7.1 | 7.2 | 7.3 | 7.2 | 7.3 | 7.3 | 7.2 | 7.2 | 7.2 | 7.1 | 7.1 |
| 27 | 7.2 | 7.1 | 7.1 | 7.3 | 7.2 | 7.3 | 7.3 | 7.2 | 7.3 | 7.2 | 7.1 | 7.1 |
| 28 | 7.2 | 7.1 | 7.2 | 7.3 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.2 | 7.3 |
| 29 | 7.2 | 7.0 | 7.1 | 7.3 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.4 | 7.2 | 7.3 |
| 30 | 7.0 | 7.0 | 7.0 | 7.4 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.5 | 7.3 | 7.4 |
| 31 | 7.0 | 7.0 | 7.0 | --- | --- | --- | 7.3 | 7.3 | 7.3 | 7.4 | 7.3 | 7.3 |
| MONTH | 7.2 | 6.6 | 7.0 | --- | --- | --- | 7.5 | 7.2 | 7.3 | 7.5 | 7.0 | 7.2 |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| | | | | | | | | | | | | |
| 1 | 7.3 | 7.1 | 7.2 | 7.6 | 7.5 | 7.5 | 7.1 | 6.9 | 7.0 | 7.1 | 7.0 | 7.0 |
| 2 | 7.2 | 7.1 | 7.1 | 7.6 | 7.5 | 7.5 | 7.1 | 6.9 | 7.0 | 7.1 | 7.0 | 7.0 |
| 3 | 7.2 | 7.1 | 7.2 | 7.7 | 7.5 | 7.6 | 7.1 | 6.9 | 7.0 | 7.1 | 6.9 | 7.0 |
| 4 | 7.3 | 7.2 | 7.2 | 7.7 | 7.6 | 7.7 | 7.2 | 7.0 | 7.1 | 7.1 | 6.9 | 7.0 |
| 5 | 7.3 | 7.2 | 7.2 | 7.7 | 7.6 | 7.6 | 7.2 | 7.1 | 7.1 | 7.2 | 7.1 | 7.1 |
| 6 | 7.4 | 7.1 | 7.3 | 7.6 | 7.5 | 7.6 | 7.2 | 7.1 | 7.1 | 7.2 | 7.1 | 7.2 |
| 7 | 7.4 | 7.3 | 7.4 | 7.5 | 7.3 | 7.4 | 7.2 | 7.0 | 7.1 | 7.2 | 7.2 | 7.2 |
| 8 | 7.3 | 7.1 | 7.2 | 7.3 | 7.0 | 7.2 | 7.3 | 7.0 | 7.1 | 7.3 | 7.2 | 7.2 |
| 9 | 7.3 | 7.2 | 7.2 | 7.0 | 6.9 | 7.0 | 7.2 | 7.1 | 7.2 | 7.3 | 7.2 | 7.2 |
| 10 | 7.4 | 7.2 | 7.3 | 7.0 | 6.9 | 7.0 | 7.2 | 7.1 | 7.2 | 7.3 | 7.2 | 7.2 |
| 11 | 7.7 | 7.4 | 7.5 | 7.0 | 7.0 | 7.0 | 7.2 | 7.1 | 7.1 | 7.4 | 7.2 | 7.3 |
| 12 | 7.7 | 7.6 | 7.6 | 7.0 | 7.0 | 7.0 | 7.2 | 7.1 | 7.1 | 7.4 | 7.3 | 7.3 |
| 13 | 7.7 | 7.6 | 7.7 | 7.2 | 7.0 | 7.1 | 7.2 | 7.1 | 7.1 | 7.3 | 7.3 | 7.3 |
| 14 | 7.7 | 7.7 | 7.7 | 7.2 | 7.1 | 7.2 | 7.2 | 7.1 | 7.1 | 7.3 | 7.2 | 7.3 |
| 15 | 7.7 | 7.5 | 7.6 | 7.2 | 7.1 | 7.1 | 7.1 | 7.0 | 7.0 | 7.2 | 7.2 | 7.2 |
| 16 | 7.6 | 7.4 | 7.5 | 7.1 | 7.0 | 7.0 | 7.2 | 7.0 | 7.1 | 7.2 | 7.1 | 7.2 |
| 17 | 7.8 | 7.6 | 7.7 | 7.0 | 6.9 | 7.0 | 7.2 | 7.2 | 7.2 | 7.2 | 7.1 | 7.2 |
| 18 | 7.8 | 7.7 | 7.8 | 7.0 | 6.9 | 6.9 | 7.2 | 7.2 | 7.2 | 7.2 | 7.1 | 7.1 |
| 19 | 7.8 | 7.7 | 7.8 | 7.2 | 7.0 | 7.2 | 7.3 | 7.2 | 7.2 | 7.2 | 7.1 | 7.1 |
| 20 | 7.8 | 7.7 | 7.7 | 7.2 | 7.1 | 7.2 | 7.3 | 7.2 | 7.2 | 7.2 | 7.1 | 7.2 |
| 21 | 7.8 | 7.7 | 7.8 | 7.2 | 7.0 | 7.1 | 7.3 | 7.2 | 7.2 | 7.2 | 7.1 | 7.2 |
| 22 | 7.8 | 7.7 | 7.8 | 7.1 | 7.0 | 7.0 | 7.3 | 7.2 | 7.2 | 7.2 | 7.1 | 7.2 |
| 23 | 7.8 | 7.8 | 7.8 | 7.0 | 7.0 | 7.0 | 7.3 | 7.2 | 7.2 | 7.2 | 7.1 | 7.2 |
| 24 | 7.8 | 7.7 | 7.8 | 7.1 | 7.0 | 7.0 | 7.3 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 25 | 7.8 | 7.7 | 7.7 | 7.2 | 7.1 | 7.1 | 7.2 | 7.1 | 7.2 | 7.3 | 7.2 | 7.2 |
| 26 | 7.9 | 7.7 | 7.8 | 7.2 | 7.1 | 7.2 | 7.1 | 7.0 | 7.0 | 7.3 | 7.2 | 7.3 |
| 27 | 7.9 | 7.8 | 7.8 | 7.2 | 7.0 | 7.1 | 7.0 | 7.0 | 7.0 | 7.3 | 7.3 | 7.3 |
| 28 | 7.9 | 7.8 | 7.8 | 7.0 | 6.9 | 7.0 | 7.1 | 7.0 | 7.1 | 7.3 | 7.2 | 7.3 |
| 29 | 7.8 | 7.5 | 7.6 | 7.0 | 6.9 | 7.0 | 7.1 | 7.0 | 7.1 | 7.3 | 7.3 | 7.3 |
| 30 | --- | --- | --- | 7.0 | 6.9 | 7.0 | 7.1 | 7.0 | 7.1 | 7.3 | 7.3 | 7.3 |
| 31 | --- | --- | --- | 7.0 | 6.9 | 7.0 | --- | --- | --- | 7.3 | 7.3 | 7.3 |
| MONTH | 7.9 | 7.1 | 7.5 | 7.7 | 6.9 | 7.2 | 7.3 | 6.9 | 7.1 | 7.4 | 6.9 | 7.2 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 7.4 | 7.3 | 7.3 | 7.0 | 6.8 | 6.9 | 7.0 | 6.9 | 6.9 | 6.7 | 6.6 | 6.6 |
| 2 | 7.5 | 7.4 | 7.4 | 6.9 | 6.8 | 6.8 | 7.0 | 6.9 | 6.9 | 6.7 | 6.6 | 6.6 |
| 3 | 7.6 | 7.4 | 7.5 | 6.9 | 6.8 | 6.8 | 7.0 | 6.8 | 6.9 | 6.6 | 6.5 | 6.5 |
| 4 | 7.6 | 7.4 | 7.5 | 6.9 | 6.7 | 6.8 | 6.9 | 6.7 | 6.8 | 6.6 | 6.5 | 6.6 |
| 5 | 7.5 | 7.4 | 7.4 | 6.8 | 6.7 | 6.7 | 7.0 | 6.7 | 6.8 | 6.7 | 6.6 | 6.6 |
| 6 | 7.4 | 7.3 | 7.4 | 6.9 | 6.7 | 6.8 | 7.0 | 6.8 | 6.9 | 6.8 | 6.7 | 6.7 |
| 7 | 7.4 | 7.3 | 7.4 | 6.9 | 6.7 | 6.8 | 7.0 | 6.8 | 6.9 | 6.8 | 6.7 | 6.7 |
| 8 | 7.4 | 7.3 | 7.4 | 7.1 | 6.9 | 7.0 | 7.1 | 6.9 | 7.0 | 6.8 | 6.7 | 6.7 |
| 9 | 7.4 | 7.3 | 7.3 | 7.0 | 6.8 | 6.9 | 7.1 | 7.0 | 7.0 | 6.8 | 6.7 | 6.7 |
| 10 | 7.4 | 7.2 | 7.3 | 6.9 | 6.8 | 6.8 | 7.2 | 7.0 | 7.1 | 6.8 | 6.5 | 6.7 |
| 11 | 7.3 | 7.2 | 7.2 | 6.8 | 6.8 | 6.8 | 7.2 | 7.1 | 7.1 | 6.8 | 6.7 | 6.7 |
| 12 | 7.3 | 7.2 | 7.2 | 6.8 | 6.8 | 6.8 | 7.2 | 7.1 | 7.1 | 6.8 | 6.6 | 6.7 |
| 13 | 7.3 | 7.2 | 7.2 | 6.9 | 6.8 | 6.8 | 7.2 | 7.0 | 7.1 | 6.7 | 6.7 | 6.7 |
| 14 | 7.3 | 7.2 | 7.2 | 6.9 | 6.8 | 6.9 | 7.1 | 7.0 | 7.1 | 6.8 | 6.7 | 6.7 |
| 15 | 7.3 | 7.2 | 7.2 | 6.9 | 6.8 | 6.9 | 7.1 | 6.7 | 6.9 | 6.8 | 6.7 | 6.8 |
| 16 | 7.3 | 7.1 | 7.2 | 6.9 | 6.9 | 6.9 | 6.8 | 6.5 | 6.6 | 6.8 | 6.8 | 6.8 |
| 17 | 7.2 | 7.1 | 7.1 | 6.9 | 6.9 | 6.9 | 6.8 | 6.5 | 6.6 | 6.8 | 6.8 | 6.8 |
| 18 | 7.1 | 7.0 | 7.1 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 | 6.9 | 6.9 | 6.8 | 6.9 |
| 19 | 7.1 | 7.0 | 7.1 | 7.0 | 6.9 | 6.9 | 6.9 | 6.8 | 6.9 | 6.9 | 6.8 | 6.8 |
| 20 | 7.1 | 7.0 | 7.1 | 6.9 | 6.8 | 6.9 | 6.9 | 6.8 | 6.9 | 6.8 | 6.8 | 6.8 |
| 21 | 7.2 | 7.1 | 7.1 | 7.0 | 6.9 | 6.9 | 6.9 | 6.8 | 6.9 | 6.9 | 6.8 | 6.8 |
| 22 | 7.2 | 7.0 | 7.1 | 7.1 | 6.9 | 7.0 | 6.9 | 6.8 | 6.9 | 7.0 | 6.8 | 6.9 |
| 23 | 7.1 | 7.0 | 7.0 | 7.1 | 7.0 | 7.0 | 6.9 | 6.8 | 6.9 | 7.0 | 6.9 | 7.0 |
| 24 | 7.1 | 7.0 | 7.0 | 7.1 | 7.0 | 7.0 | 6.8 | 6.8 | 6.8 | 7.0 | 6.9 | 6.9 |
| 25 | 7.1 | 7.0 | 7.0 | 7.0 | 6.9 | 7.0 | 6.9 | 6.8 | 6.9 | 7.0 | 6.9 | 7.0 |
| 26 | 7.1 | 7.0 | 7.0 | 7.0 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 7.0 | 6.9 | 7.0 |
| 27 | 7.0 | 7.0 | 7.0 | 6.9 | 6.8 | 6.9 | 7.0 | 6.9 | 6.9 | 7.0 | 6.9 | 7.0 |
| 28 | 7.0 | 6.9 | 7.0 | 6.9 | 6.8 | 6.8 | 7.0 | 6.9 | 6.9 | 7.1 | 6.9 | 7.0 |
| 29 | 7.0 | 6.9 | 6.9 | 7.0 | 6.8 | 6.9 | 7.0 | 6.9 | 6.9 | 7.0 | 7.0 | 7.0 |
| 30 | 7.0 | 6.9 | 6.9 | 6.9 | 6.8 | 6.9 | 7.0 | 6.9 | 6.9 | 7.0 | 7.0 | 7.0 |
| 31 | --- | --- | --- | 7.0 | 6.9 | 6.9 | 7.0 | 6.5 | 6.8 | --- | --- | --- |
| MONTH | 7.6 | 6.9 | 7.2 | 7.1 | 6.7 | 6.9 | 7.2 | 6.5 | 6.9 | 7.1 | 6.5 | 6.8 |

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | | |
| 1 | 22.8 | 22.2 | 22.3 | 17.1 | 16.5 | 16.8 | 12.2 | 11.7 | 12.0 | 7.8 | 7.4 | 7.6 |
| 2 | 22.4 | 22.0 | 22.1 | 17.4 | 16.6 | 17.0 | 11.9 | 11.3 | 11.7 | 7.8 | 7.5 | 7.6 |
| 3 | 22.1 | 21.5 | 21.7 | 17.8 | 17.1 | 17.6 | 11.3 | 10.3 | 10.8 | 7.7 | 7.4 | 7.6 |
| 4 | 21.6 | 20.8 | 21.2 | 18.4 | 17.8 | 18.0 | 10.3 | 10.0 | 10.2 | 8.4 | 7.7 | 8.0 |
| 5 | 20.8 | 20.2 | 20.5 | 18.6 | 18.0 | 18.3 | 10.2 | 9.8 | 10.0 | 9.2 | 8.4 | 8.7 |
| 6 | 20.7 | 20.5 | 20.6 | --- | --- | --- | 9.9 | 9.6 | 9.8 | 9.3 | 9.1 | 9.2 |
| 7 | 21.0 | 20.7 | 20.9 | 19.2 | 18.6 | 18.8 | 9.6 | 9.2 | 9.4 | 9.2 | 8.1 | 8.7 |
| 8 | 21.1 | 20.8 | 21.0 | 18.8 | 18.1 | 18.5 | 9.2 | 8.8 | 9.0 | 8.1 | 7.0 | 7.7 |
| 9 | 20.9 | 20.7 | 20.8 | 18.1 | 16.6 | 17.4 | 9.0 | 8.6 | 8.9 | 7.2 | 6.4 | 6.9 |
| 10 | 21.1 | 20.9 | 21.0 | 16.6 | 16.3 | 16.5 | 9.3 | 8.6 | 9.1 | 6.4 | 5.9 | 6.2 |
| 11 | 21.0 | 20.7 | 20.8 | 16.4 | 15.9 | 16.3 | 9.9 | 9.2 | 9.6 | 5.9 | 5.1 | 5.4 |
| 12 | 20.8 | 20.6 | 20.7 | 16.6 | 15.9 | 16.2 | 9.7 | 9.5 | 9.6 | 5.3 | 4.8 | 5.0 |
| 13 | 20.8 | 20.6 | 20.8 | 16.3 | 15.5 | 16.0 | 9.6 | 9.1 | 9.3 | 5.7 | 4.7 | 5.3 |
| 14 | 20.8 | 20.6 | 20.7 | 15.5 | 14.5 | 15.1 | 9.2 | 8.8 | 9.0 | 6.0 | 5.2 | 5.6 |
| 15 | 20.6 | 20.1 | 20.4 | 14.5 | 14.2 | 14.4 | 8.8 | 8.2 | 8.5 | 6.0 | 5.3 | 5.6 |
| 16 | 20.1 | 19.8 | 20.0 | 14.5 | 14.0 | 14.3 | 8.2 | 7.9 | 8.1 | 5.8 | 5.2 | 5.5 |
| 17 | 19.8 | 19.6 | 19.7 | 14.6 | 14.1 | 14.4 | 8.2 | 8.1 | 8.2 | 5.7 | 5.2 | 5.4 |
| 18 | 19.7 | 19.2 | 19.5 | 14.8 | 14.4 | 14.6 | 8.2 | 8.0 | 8.0 | 5.8 | 5.2 | 5.7 |
| 19 | 19.3 | 19.0 | 19.2 | 15.5 | 14.6 | 15.2 | 8.0 | 7.7 | 7.9 | 6.1 | 5.5 | 5.8 |
| 20 | 19.3 | 18.8 | 19.0 | 15.3 | 14.8 | 15.1 | 7.7 | 7.2 | 7.4 | 5.7 | 5.3 | 5.5 |
| 21 | 19.4 | 18.7 | 19.2 | 14.9 | 14.6 | 14.8 | 7.2 | 7.0 | 7.1 | 5.3 | 4.9 | 5.1 |
| 22 | 19.7 | 19.0 | 19.3 | 14.9 | 14.5 | 14.8 | 7.0 | 6.8 | 6.9 | 5.0 | 4.5 | 4.7 |
| 23 | 19.1 | 18.5 | 18.8 | 15.1 | 14.4 | 14.8 | 7.3 | 6.7 | 6.9 | 5.0 | 4.6 | 4.8 |
| 24 | 18.5 | 17.7 | 18.1 | 15.0 | 14.4 | 14.7 | 7.9 | 7.3 | 7.5 | 5.0 | 4.8 | 4.9 |
| 25 | 17.9 | 17.4 | 17.7 | 14.7 | 14.0 | 14.5 | 7.9 | 7.8 | 7.9 | 5.0 | 3.6 | 4.5 |
| 26 | 18.1 | 17.4 | 17.8 | 14.4 | 13.5 | 14.0 | 7.9 | 7.5 | 7.7 | 3.6 | 3.1 | 3.4 |
| 27 | 18.4 | 17.5 | 18.0 | 13.7 | 13.4 | 13.6 | 7.5 | 7.1 | 7.2 | 3.1 | 2.4 | 2.8 |
| 28 | 18.4 | 17.9 | 18.2 | 14.3 | 13.3 | 14.0 | 7.2 | 6.8 | 7.0 | 3.3 | 2.0 | 2.5 |
| 29 | 17.9 | 17.1 | 17.5 | 13.9 | 13.1 | 13.6 | 7.3 | 6.8 | 7.0 | 3.6 | 3.2 | 3.4 |
| 30 | 17.1 | 16.7 | 16.8 | 13.1 | 12.0 | 12.7 | 7.6 | 7.2 | 7.4 | 3.5 | 3.0 | 3.2 |
| 31 | 16.9 | 16.4 | 16.7 | --- | --- | --- | 7.6 | 7.4 | 7.5 | 3.7 | 3.1 | 3.3 |
| MONTH | 22.8 | 16.4 | 19.7 | --- | --- | --- | 12.2 | 6.7 | 8.6 | 9.3 | 2.0 | 5.7 |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| | | | | | | | | | | | | |
| 1 | 3.2 | 2.8 | 3.0 | 6.7 | 5.8 | 6.2 | 13.7 | 12.5 | 13.0 | 18.9 | 18.1 | 18.5 |
| 2 | 3.6 | 2.8 | 3.2 | 7.7 | 6.4 | 7.1 | 13.0 | 12.3 | 12.7 | 19.2 | 18.3 | 18.7 |
| 3 | 4.0 | 3.1 | 3.6 | 8.3 | 7.2 | 7.8 | 12.9 | 12.3 | 12.6 | 18.8 | 18.0 | 18.5 |
| 4 | 4.7 | 3.7 | 4.1 | 9.1 | 8.0 | 8.6 | 13.0 | 12.3 | 12.7 | 18.5 | 18.0 | 18.2 |
| 5 | 4.7 | 4.1 | 4.4 | 10.1 | 8.9 | 9.5 | 12.8 | 12.1 | 12.6 | 18.4 | 18.1 | 18.3 |
| 6 | 4.9 | 4.1 | 4.5 | 10.9 | 9.7 | 10.3 | 13.1 | 12.1 | 12.7 | 18.9 | 18.4 | 18.6 |
| 7 | 5.5 | 4.9 | 5.3 | 11.1 | 10.4 | 10.7 | 13.8 | 12.2 | 13.0 | 19.7 | 18.5 | 19.1 |
| 8 | 5.7 | 5.3 | 5.5 | 11.2 | 10.7 | 10.9 | 14.7 | 12.9 | 13.7 | 20.4 | 19.5 | 19.9 |
| 9 | 5.5 | 4.8 | 5.1 | 11.5 | 10.5 | 10.9 | 15.4 | 13.8 | 14.6 | 21.5 | 19.5 | 20.6 |
| 10 | 5.0 | 4.7 | 4.8 | 11.0 | 9.5 | 10.5 | 15.2 | 14.5 | 14.9 | 21.0 | 20.1 | 20.5 |
| 11 | 5.2 | 4.7 | 5.1 | 9.9 | 9.3 | 9.6 | 15.2 | 14.3 | 14.7 | 21.9 | 20.2 | 21.2 |
| 12 | 5.0 | 4.6 | 4.7 | 10.5 | 9.3 | 9.9 | 15.1 | 13.8 | 14.3 | 22.8 | 21.6 | 22.1 |
| 13 | 4.7 | 4.4 | 4.6 | 10.7 | 9.9 | 10.2 | 13.9 | 13.1 | 13.5 | 22.7 | 21.6 | 22.2 |
| 14 | 4.6 | 4.5 | 4.5 | 11.0 | 10.1 | 10.6 | 13.8 | 13.2 | 13.6 | 23.0 | 22.3 | 22.6 |
| 15 | 4.9 | 4.4 | 4.6 | 11.0 | 10.1 | 10.4 | 14.0 | 13.0 | 13.5 | 23.6 | 22.7 | 23.1 |
| 16 | 5.0 | 4.7 | 4.8 | 11.0 | 10.5 | 10.7 | 13.9 | 13.4 | 13.6 | 23.9 | 23.0 | 23.5 |
| 17 | 4.8 | 4.4 | 4.5 | 11.2 | 10.2 | 10.8 | 14.0 | 13.1 | 13.5 | 24.4 | 23.2 | 23.8 |
| 18 | 4.6 | 4.2 | 4.4 | 10.6 | 10.0 | 10.3 | 14.8 | 13.5 | 14.1 | 24.4 | 23.5 | 23.9 |
| 19 | 4.9 | 4.4 | 4.6 | 10.5 | 9.6 | 10.1 | 15.7 | 14.8 | 15.1 | 24.5 | 23.4 | 23.8 |
| 20 | 5.4 | 4.6 | 5.0 | 11.1 | 10.1 | 10.6 | 16.4 | 15.2 | 15.7 | 24.5 | 23.1 | 23.8 |
| 21 | 6.0 | 5.3 | 5.6 | 11.6 | 11.0 | 11.3 | 16.9 | 16.4 | 16.6 | 25.5 | 24.2 | 24.8 |
| 22 | 6.1 | 5.7 | 5.9 | 11.7 | 10.7 | 11.2 | 17.4 | 16.5 | 16.9 | 25.5 | 24.4 | 25.0 |
| 23 | 6.3 | 5.8 | 6.0 | 11.7 | 10.5 | 11.0 | 17.9 | 17.0 | 17.4 | 25.5 | 23.9 | 24.6 |
| 24 | 6.3 | 6.0 | 6.1 | 10.8 | 10.3 | 10.6 | 17.9 | 17.4 | 17.7 | 24.7 | 23.9 | 24.2 |
| 25 | 6.2 | 5.9 | 6.0 | 12.1 | 10.5 | 11.2 | 17.8 | 17.5 | 17.7 | 26.6 | 24.0 | 25.8 |
| 26 | 6.0 | 5.5 | 5.7 | 13.2 | 11.1 | 12.1 | 18.1 | 17.6 | 17.8 | 26.9 | 26.1 | 26.5 |
| 27 | 5.6 | 5.1 | 5.3 | 13.8 | 12.7 | 13.3 | 18.6 | 18.0 | 18.4 | 26.5 | 26.0 | 26.3 |
| 28 | 5.3 | 5.0 | 5.1 | 15.6 | 13.7 | 14.6 | 18.5 | 17.8 | 18.1 | 26.9 | 26.0 | 26.4 |
| 29 | 5.8 | 5.2 | 5.5 | 15.0 | 13.9 | 14.5 | 18.5 | 17.8 | 18.2 | 26.5 | 26.0 | 26.2 |
| 30 | --- | --- | --- | 14.4 | 13.5 | 14.0 | 18.5 | 17.7 | 18.1 | 26.0 | 25.0 | 25.5 |
| 31 | --- | --- | --- | 14.2 | 13.6 | 13.9 | --- | --- | --- | 25.4 | 24.6 | 24.9 |
| MONTH | 6.3 | 2.8 | 4.9 | 15.6 | 5.8 | 10.8 | 18.6 | 12.1 | 15.0 | 26.9 | 18.0 | 22.6 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | | |
| 1 | 25.1 | 24.2 | 24.7 | 25.7 | 24.7 | 25.1 | 29.1 | 27.8 | 28.4 | 26.8 | 25.7 | 26.2 |
| 2 | 25.9 | 24.7 | 25.2 | 25.4 | 24.9 | 25.2 | 28.9 | 27.8 | 28.2 | 26.8 | 25.8 | 26.1 |
| 3 | 26.3 | 25.1 | 25.6 | 26.8 | 25.3 | 26.0 | 27.8 | 27.0 | 27.4 | 26.1 | 25.6 | 25.8 |
| 4 | 25.7 | 24.8 | 25.4 | 26.2 | 25.6 | 25.9 | 27.3 | 26.9 | 27.1 | 26.2 | 25.8 | 26.0 |
| 5 | 24.8 | 23.5 | 24.5 | 26.4 | 25.7 | 26.1 | 28.0 | 27.3 | 27.6 | 26.3 | 25.9 | 26.1 |
| 6 | 23.5 | 22.9 | 23.1 | 27.0 | 26.2 | 26.7 | 27.8 | 27.1 | 27.5 | 26.4 | 26.0 | 26.2 |
| 7 | 24.0 | 23.0 | 23.4 | 28.2 | 26.9 | 27.6 | 27.1 | 26.5 | 26.8 | 26.2 | 25.9 | 26.1 |
| 8 | 24.6 | 23.4 | 23.9 | 28.0 | 27.1 | 27.5 | 26.7 | 26.2 | 26.5 | 26.3 | 25.9 | 26.1 |
| 9 | 24.8 | 23.6 | 24.1 | 27.7 | 27.0 | 27.4 | 26.8 | 26.3 | 26.6 | 26.8 | 26.1 | 26.3 |
| 10 | 25.6 | 23.9 | 24.6 | 28.1 | 27.3 | 27.8 | 27.0 | 26.5 | 26.8 | 26.3 | 25.7 | 26.0 |
| 11 | 25.5 | 24.2 | 24.7 | 28.9 | 27.8 | 28.3 | 27.0 | 26.5 | 26.8 | 26.2 | 25.9 | 26.0 |
| 12 | 25.8 | 24.9 | 25.5 | 29.1 | 28.1 | 28.5 | 27.1 | 26.7 | 26.9 | 26.0 | 25.4 | 25.7 |
| 13 | 25.1 | 24.0 | 24.6 | 29.1 | 28.0 | 28.6 | 26.9 | 26.3 | 26.5 | 25.8 | 25.5 | 25.7 |
| 14 | 24.6 | 23.9 | 24.4 | 29.6 | 28.2 | 28.8 | 26.5 | 25.4 | 25.9 | 25.9 | 25.3 | 25.6 |
| 15 | 24.9 | 23.9 | 24.4 | 29.9 | 28.4 | 29.1 | 25.6 | 24.0 | 24.8 | 25.6 | 25.2 | 25.4 |
| 16 | 25.1 | 24.4 | 24.8 | 29.6 | 28.7 | 29.2 | 24.0 | 23.1 | 23.4 | 25.5 | 25.3 | 25.4 |
| 17 | 24.9 | 24.3 | 24.6 | 29.6 | 28.4 | 29.0 | 24.7 | 22.9 | 23.5 | 25.6 | 25.1 | 25.5 |
| 18 | 25.3 | 24.2 | 24.8 | 29.6 | 28.8 | 29.1 | 25.0 | 24.2 | 24.6 | 25.8 | 24.9 | 25.4 |
| 19 | 26.3 | 25.3 | 25.8 | 29.5 | 28.8 | 29.1 | 25.5 | 24.6 | 25.0 | 25.0 | 24.1 | 24.5 |
| 20 | 26.5 | 26.2 | 26.3 | 28.9 | 28.5 | 28.7 | 26.0 | 25.2 | 25.6 | 24.1 | 23.6 | 23.8 |
| 21 | 26.9 | 25.9 | 26.3 | 29.6 | 28.7 | 29.0 | 26.3 | 25.9 | 26.1 | 23.6 | 22.9 | 23.3 |
| 22 | 26.5 | 25.8 | 26.1 | 29.1 | 28.1 | 28.6 | 26.4 | 26.1 | 26.2 | 23.6 | 22.9 | 23.3 |
| 23 | 26.8 | 25.5 | 26.1 | 28.7 | 28.0 | 28.3 | 26.4 | 25.9 | 26.2 | 23.8 | 23.3 | 23.6 |
| 24 | 26.4 | 25.9 | 26.2 | 28.1 | 27.2 | 27.7 | 26.1 | 25.8 | 25.9 | 24.1 | 23.7 | 23.9 |
| 25 | 27.1 | 25.9 | 26.5 | 27.8 | 27.2 | 27.4 | 26.4 | 25.7 | 26.1 | 24.0 | 23.5 | 23.7 |
| 26 | 25.9 | 25.4 | 25.6 | 28.3 | 27.2 | 27.7 | 26.7 | 26.0 | 26.4 | 23.8 | 23.6 | 23.7 |
| 27 | 25.6 | 24.8 | 25.2 | 28.7 | 27.6 | 28.1 | 27.3 | 26.3 | 26.6 | 24.2 | 23.7 | 24.0 |
| 28 | 25.5 | 24.9 | 25.2 | 28.7 | 28.0 | 28.3 | 27.7 | 26.4 | 26.9 | 24.3 | 23.7 | 23.9 |
| 29 | 25.7 | 25.2 | 25.4 | 28.6 | 27.4 | 28.0 | 28.0 | 26.9 | 27.3 | 23.8 | 23.5 | 23.6 |
| 30 | 25.9 | 25.4 | 25.6 | 28.0 | 27.0 | 27.5 | 27.6 | 26.7 | 27.0 | 23.8 | 23.6 | 23.7 |
| 31 | --- | --- | --- | 28.1 | 27.5 | 27.9 | 27.0 | 25.6 | 26.2 | --- | --- | --- |
| MONTH | 27.1 | 22.9 | 25.1 | 29.9 | 24.7 | 27.8 | 29.1 | 22.9 | 26.3 | 26.8 | 22.9 | 25.0 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 6.7 | 6.3 | 6.5 | 6.9 | 6.1 | 6.3 | 5.6 | 4.9 | 5.2 | 5.8 | 4.9 | 5.2 |
| 2 | 6.8 | 6.1 | 6.6 | 7.0 | 6.1 | 6.4 | 6.0 | 5.0 | 5.6 | 5.8 | 5.0 | 5.3 |
| 3 | 7.1 | 6.4 | 6.7 | 7.1 | 6.0 | 6.4 | 6.2 | 5.4 | 5.8 | 5.1 | 4.6 | 4.8 |
| 4 | 7.2 | 6.6 | 6.8 | 7.0 | 5.8 | 6.3 | 5.8 | 4.8 | 5.3 | 5.5 | 4.8 | 5.1 |
| 5 | 7.2 | 6.5 | 6.9 | 7.1 | 5.8 | 6.3 | 5.5 | 5.0 | 5.2 | 5.5 | 5.0 | 5.2 |
| 6 | 6.9 | 6.6 | 6.8 | 7.1 | 6.0 | 6.4 | 5.9 | 5.1 | 5.4 | 5.6 | 5.0 | 5.3 |
| 7 | 7.2 | 6.6 | 6.9 | 7.2 | 5.9 | 6.3 | 5.8 | 5.1 | 5.4 | 5.7 | 5.1 | 5.3 |
| 8 | 7.2 | 6.6 | 6.9 | 6.8 | 5.8 | 6.1 | 6.1 | 5.3 | 5.6 | 5.7 | 5.0 | 5.2 |
| 9 | 7.2 | 6.6 | 6.9 | 6.6 | 5.7 | 6.0 | 6.4 | 5.5 | 5.8 | 5.9 | 5.0 | 5.4 |
| 10 | 7.1 | 6.7 | 6.9 | 6.3 | 5.3 | 5.7 | 6.5 | 5.7 | 5.9 | 5.6 | 4.6 | 5.1 |
| 11 | 7.2 | 6.4 | 6.8 | 6.2 | 5.4 | 5.7 | 6.4 | 5.7 | 5.9 | 5.4 | 5.0 | 5.2 |
| 12 | 7.0 | 6.4 | 6.6 | 6.2 | 5.5 | 5.8 | 6.5 | 5.8 | 6.0 | 7.1 | 5.0 | 5.7 |
| 13 | 7.2 | 6.5 | 6.8 | 6.3 | 5.7 | 6.0 | 6.5 | 5.7 | 6.0 | 6.7 | 5.5 | 5.9 |
| 14 | 7.2 | 6.6 | 6.8 | 6.4 | 5.8 | 6.0 | 6.4 | 5.7 | 6.0 | 6.3 | 5.4 | 5.9 |
| 15 | 7.0 | 6.6 | 6.8 | 6.3 | 5.7 | 5.9 | 6.1 | 5.5 | 5.7 | 6.3 | 6.0 | 6.1 |
| 16 | 7.1 | 6.4 | 6.7 | 6.0 | 5.7 | 5.8 | 5.5 | 5.2 | 5.3 | 6.2 | 5.5 | 6.0 |
| 17 | 6.9 | 6.4 | 6.6 | 6.0 | 5.8 | 5.9 | 6.2 | 5.4 | 5.7 | 6.6 | 5.9 | 6.2 |
| 18 | 6.7 | 6.3 | 6.4 | 6.0 | 5.7 | 5.8 | 5.8 | 5.5 | 5.7 | 6.7 | 6.0 | 6.3 |
| 19 | 6.7 | 6.2 | 6.4 | 6.0 | 5.7 | 5.9 | 5.8 | 5.4 | 5.6 | 6.9 | 6.1 | 6.4 |
| 20 | 6.6 | 6.1 | 6.4 | 5.7 | 5.3 | 5.5 | 5.6 | 5.2 | 5.5 | 6.6 | 6.2 | 6.4 |
| 21 | 6.9 | 6.2 | 6.5 | 6.0 | 5.5 | 5.7 | 5.7 | 5.5 | 5.6 | 7.3 | 6.3 | 6.7 |
| 22 | 7.1 | 6.3 | 6.6 | 6.1 | 5.3 | 5.7 | 5.7 | 5.4 | 5.5 | 7.6 | 6.6 | 7.0 |
| 23 | 7.0 | 6.2 | 6.4 | 6.1 | 5.5 | 5.7 | 5.8 | 5.4 | 5.6 | 7.2 | 6.7 | 7.0 |
| 24 | 6.7 | 6.2 | 6.4 | 6.2 | 5.5 | 5.7 | 5.6 | 5.4 | 5.5 | 7.3 | 6.6 | 7.0 |
| 25 | 6.9 | 6.2 | 6.4 | 5.8 | 5.3 | 5.6 | 6.1 | 5.4 | 5.7 | 7.2 | 6.4 | 6.8 |
| 26 | 7.0 | 6.2 | 6.6 | 5.8 | 5.3 | 5.5 | 6.3 | 5.6 | 5.9 | 7.0 | 6.5 | 6.8 |
| 27 | 6.8 | 6.2 | 6.4 | 5.5 | 5.0 | 5.3 | 6.3 | 5.6 | 5.8 | 7.2 | 6.3 | 6.6 |
| 28 | 7.0 | 6.2 | 6.5 | 5.4 | 4.8 | 5.0 | 6.4 | 5.4 | 5.7 | 6.8 | 6.2 | 6.5 |
| 29 | 6.8 | 6.1 | 6.3 | 5.7 | 5.0 | 5.3 | 6.2 | 5.4 | 5.6 | 6.8 | 6.2 | 6.4 |
| 30 | 6.9 | 6.1 | 6.4 | 5.5 | 5.0 | 5.2 | 6.0 | 5.4 | 5.6 | 6.8 | 6.2 | 6.4 |
| 31 | --- | --- | --- | 5.5 | 4.9 | 5.2 | 6.1 | 5.4 | 5.8 | --- | --- | --- |
| MONTH | 7.2 | 6.1 | 6.6 | 7.2 | 4.8 | 5.8 | 6.5 | 4.8 | 5.6 | 7.6 | 4.6 | 6.0 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 82 | 75 | 79 | 85 | 74 | 77 | 73 | 63 | 68 | 73 | 60 | 65 |
| 2 | 84 | 74 | 80 | 85 | 74 | 78 | 78 | 64 | 72 | 73 | 62 | 65 |
| 3 | 88 | 78 | 83 | 89 | 74 | 79 | 79 | 68 | 73 | 63 | 56 | 60 |
| 4 | 88 | 80 | 84 | 87 | 71 | 77 | 73 | 61 | 67 | 68 | 59 | 63 |
| 5 | 87 | 78 | 82 | 88 | 71 | 78 | 70 | 63 | 66 | 68 | 62 | 64 |
| 6 | 81 | 77 | 79 | 89 | 74 | 80 | 75 | 65 | 69 | 70 | 62 | 66 |
| 7 | 86 | 77 | 81 | 91 | 76 | 81 | 73 | 64 | 68 | 71 | 63 | 65 |
| 8 | 87 | 79 | 82 | 86 | 74 | 78 | 76 | 66 | 70 | 71 | 62 | 65 |
| 9 | 87 | 78 | 82 | 83 | 73 | 76 | 80 | 68 | 72 | 74 | 62 | 67 |
| 10 | 87 | 80 | 83 | 81 | 68 | 73 | 82 | 71 | 74 | 70 | 57 | 63 |
| 11 | 87 | 78 | 82 | 80 | 69 | 73 | 80 | 71 | 74 | 67 | 62 | 64 |
| 12 | 86 | 78 | 81 | 81 | 71 | 75 | 82 | 73 | 76 | 87 | 61 | 70 |
| 13 | 87 | 78 | 82 | 82 | 73 | 77 | 82 | 71 | 75 | 83 | 68 | 72 |
| 14 | 87 | 79 | 82 | 84 | 75 | 78 | 80 | 70 | 74 | 77 | 66 | 73 |
| 15 | 84 | 79 | 82 | 83 | 74 | 77 | 75 | 66 | 68 | 77 | 73 | 75 |
| 16 | 86 | 77 | 82 | 79 | 74 | 76 | 66 | 61 | 63 | 76 | 67 | 73 |
| 17 | 83 | 77 | 80 | 78 | 75 | 76 | 75 | 63 | 67 | 81 | 72 | 76 |
| 18 | 82 | 75 | 78 | 78 | 74 | 77 | 70 | 66 | 69 | 82 | 73 | 77 |
| 19 | 82 | 76 | 79 | 78 | 74 | 77 | 70 | 65 | 68 | 84 | 73 | 77 |
| 20 | 82 | 76 | 79 | 74 | 69 | 71 | 69 | 63 | 67 | 79 | 74 | 76 |
| 21 | 87 | 77 | 81 | 79 | 72 | 75 | 71 | 68 | 69 | 86 | 74 | 79 |
| 22 | 89 | 78 | 81 | 79 | 68 | 73 | 71 | 67 | 69 | 89 | 77 | 83 |
| 23 | 88 | 77 | 79 | 79 | 71 | 74 | 72 | 67 | 70 | 85 | 79 | 83 |
| 24 | 83 | 77 | 80 | 80 | 70 | 73 | 69 | 67 | 68 | 87 | 79 | 83 |
| 25 | 87 | 77 | 80 | 74 | 67 | 71 | 76 | 66 | 71 | 86 | 76 | 81 |
| 26 | 86 | 76 | 81 | 75 | 67 | 70 | 79 | 70 | 73 | 83 | 77 | 80 |
| 27 | 83 | 75 | 78 | 71 | 65 | 68 | 79 | 70 | 73 | 86 | 75 | 79 |
| 28 | 85 | 76 | 79 | 70 | 62 | 65 | 81 | 67 | 72 | 82 | 74 | 77 |
| 29 | 83 | 74 | 77 | 73 | 63 | 68 | 79 | 68 | 72 | 80 | 73 | 76 |
| 30 | 85 | 75 | 78 | 71 | 63 | 66 | 75 | 68 | 71 | 81 | 73 | 76 |
| 31 | --- | --- | --- | 71 | 63 | 66 | 76 | 66 | 72 | --- | --- | --- |
| MONTH | 89 | 74 | 81 | 91 | 62 | 74 | 82 | 61 | 70 | 89 | 56 | 72 |