

0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC

LOCATION.--Lat 35°39'40", long 79°04'22", Chatham County, Hydrologic Unit 03030002, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks.

PERIOD OF RECORD.--Water years 1989 to current year. Prior to October 1993, published as Haw River at U.S. Highway 64 near Pittsboro (station 0209699980).

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| Date | Time | Color, water, fltrd, Pt-Co units (00080) | Sam-pling depth, meters (00098) | Trans-parency Secchi disc, meters (00078) | Baro-metric pres-sure, mm Hg (00025) | Dis-solved oxygen, mg/L (00300) | Dis-solved oxygen, percent of sat-uration (00301) | pH, water, unfltrd field, std units (00400) | Specif. conduc-tance, wat unf uS/cm 25 degC (00095) | Temper-ature, water, deg C (00010) | Hard-ness, water, unfltrd mg/L as CaCO3 (00900) | Calcium water, fltrd, mg/L (00915) | Magnes-ium, water, fltrd, mg/L (00925) | |
|-------|------|--|------------------------------------|--|--|---------------------------------------|---|---|---|---|---|---|---|--|
| OCT | | | | | | | | | | | | | | |
| 30... | 1000 | 125 | 0.99 | 0.20 | 754 | 9.9 | 96 | 7.2 | 138 | 13.5 | 31 | 7.43 | 3.02 | |
| 30... | 1005 | -- | 3.0 | -- | 754 | 9.9 | 96 | 7.2 | 138 | 13.4 | -- | -- | -- | |
| 30... | 1010 | -- | 6.1 | -- | 754 | 9.8 | 95 | 7.3 | 139 | 13.4 | -- | -- | -- | |
| APR | | | | | | | | | | | | | | |
| 03... | 1200 | 88 | 1.0 | 0.55 | 762 | 9.0 | 88 | 6.9 | 98 | 14.3 | 26 | 6.35 | 2.54 | |
| 03... | 1205 | -- | 3.0 | -- | 762 | 8.9 | 86 | 6.8 | 100 | 13.6 | -- | -- | -- | |
| 03... | 1210 | -- | 5.9 | -- | 762 | 7.6 | 71 | 6.4 | 93 | 12.4 | -- | -- | -- | |
| JUN | | | | | | | | | | | | | | |
| 23... | 1145 | 88 | 1.0 | 0.30 | 758 | 10.1 | 120 | 8.0 | 99 | 24.0 | 30 | 7.13 | 2.84 | |
| 23... | 1150 | -- | 3.0 | -- | 758 | 8.6 | 100 | 7.1 | 108 | 22.7 | -- | -- | -- | |
| 23... | 1155 | -- | 5.0 | -- | 758 | 7.8 | 90 | 7.0 | 113 | 22.2 | -- | -- | -- | |
| AUG | | | | | | | | | | | | | | |
| 20... | 1245 | 62 | 1.0 | 0.80 | 763 | 7.9 | 101 | 8.3 | 114 | 28.3 | 30 | 7.21 | 2.90 | |
| 20... | 1250 | -- | 3.0 | -- | 763 | 6.3 | 78 | 7.0 | 100 | 25.8 | -- | -- | -- | |
| 20... | 1255 | -- | 5.0 | -- | 763 | 6.4 | 78 | 6.9 | 95 | 25.3 | -- | -- | -- | |
| Date | | Potas-sium, water, fltrd, mg/L (00935) | Sodium, water, fltrd, mg/L (00930) | ANC, wat unf incrm. titr., mg/L as CaCO3 (00419) | Bicar-bonate, wat unf incrm. titr., mg/L (00450) | Chlor-ide, water, fltrd, mg/L (00940) | Silica, water, fltrd, mg/L (00955) | Sulfate water, fltrd, mg/L (00945) | Residue on evap. at 180degC wat flt mg/L (70300) | Ammonia + org-N, water, unfltrd mg/L as N (00625) | Ammonia water, fltrd, mg/L as N (00608) | Nitrite + nitrate water, fltrd, mg/L as N (00631) | Nitrite water, fltrd, mg/L as N (00613) | Ortho-phosphate, water, fltrd, mg/L as P (00671) |
| OCT | | | | | | | | | | | | | | |
| 30... | 3.67 | 10.8 | 28 | 34 | 8.30 | 11.4 | 13.1 | 91 | 0.81 | 0.050 | 1.08 | 0.013 | 0.072 | |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | 0.90 | 0.051 | 1.05 | 0.013 | 0.074 | |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | 0.97 | 0.050 | 1.05 | 0.012 | 0.073 | |
| APR | | | | | | | | | | | | | | |
| 03... | 2.11 | 8.44 | 22 | 27 | 6.44 | 10.1 | 9.1 | 65 | 0.54 | 0.029 | 0.524 | 0.013 | 0.022 | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | 0.53 | 0.064 | 0.516 | 0.013 | 0.021 | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | 0.54 | 0.026 | 0.534 | 0.013 | 0.027 | |
| JUN | | | | | | | | | | | | | | |
| 23... | 2.67 | 6.58 | 25 | 30 | 5.80 | 10.4 | 7.1 | 75 | 0.91 | <0.015 | 0.166 | 0.007 | 0.015 | |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | 0.80 | <0.015 | 0.297 | 0.006 | 0.029 | |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | 0.69 | 0.040 | 0.441 | 0.005 | 0.043 | |
| AUG | | | | | | | | | | | | | | |
| 20... | 2.77 | 8.17 | 32 | 39 | 8.08 | 11.4 | 6.8 | 77 | 0.87 | <0.015 | 0.109 | 0.004 | E.004 | |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | 0.64 | <0.015 | 0.334 | 0.007 | 0.023 | |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | 0.60 | 0.015 | 0.581 | 0.010 | 0.056 | |

0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

| Date | Phosphorus, water, unfltrd mg/L (00665) | Organic carbon, water, unfltrd mg/L (00680) | Chlorophyll a phytoplankton, fluoro, ug/L (70953) | Chlorophyll b phytoplankton, fluoro, ug/L (70954) | Aluminum, water, unfltrd recover-able, ug/L (01105) | Arsenic water unfltrd ug/L (01002) | Cadmium water, unfltrd ug/L (01027) | Chromium, water, unfltrd recover-able, ug/L (01034) | Cobalt water, unfltrd recover-able, ug/L (01037) | Copper, water, unfltrd recover-able, ug/L (01042) | Iron, water, unfltrd recover-able, ug/L (01045) | Lead, water, unfltrd recover-able, ug/L (01051) | Manganese, water, unfltrd recover-able, ug/L (01055) |
|-------|---|---|---|---|---|------------------------------------|-------------------------------------|---|--|---|---|---|--|
| OCT | | | | | | | | | | | | | |
| 30... | -- | 12.5 | 1.7 | <0.1 | 1,070 | E1 | <0.2 | 1.8 | E2.5 | 5.2 | 1,800 | 3 | 167 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,900 | -- | 192 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,890 | -- | 210 |
| APR | | | | | | | | | | | | | |
| 03... | 0.100 | 7.2 | E5.8 | <0.1 | 330 | <2 | <0.2 | 0.8 | <3.4 | 2.9 | 900 | M | 62.1 |
| 03... | 0.100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 940 | -- | 62.1 |
| 03... | 0.100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,020 | -- | 128 |
| JUN | | | | | | | | | | | | | |
| 23... | 0.114 | 10.7 | 5.0 | 5.0 | -- | -- | -- | -- | -- | -- | 770 | -- | 53.9 |
| 23... | 0.117 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 980 | -- | 79.2 |
| 23... | 0.164 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,620 | -- | 257 |
| AUG | | | | | | | | | | | | | |
| 20... | 0.086 | 9.5 | E17.2 | E1.1 | -- | -- | -- | -- | -- | -- | 810 | -- | 78.7 |
| 20... | 0.120 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,480 | -- | 135 |
| 20... | 0.188 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 70 | -- | 81.2 |

| Date | Mercury water, unfltrd recover-able, ug/L (71900) | Molybdenum, water, unfltrd recover-able, ug/L (01062) | Nickel, water, unfltrd recover-able, ug/L (01067) | Selenium, water, unfltrd ug/L (01147) | Silver, water, unfltrd recover-able, ug/L (01077) | Zinc, water, unfltrd recover-able, ug/L (01092) |
|-------|---|---|---|---------------------------------------|---|---|
| OCT | | | | | | |
| 30... | 0.02 | E1 | 2.0 | <3 | <0.3 | <25 |
| 30... | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- |
| APR | | | | | | |
| 03... | E.01 | E1 | 2.1 | <3 | <0.3 | <25 |
| 03... | -- | -- | -- | -- | -- | -- |
| 03... | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- |
| 23... | -- | -- | -- | -- | -- | -- |
| 23... | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | |
| 20... | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- |

Remark codes used in this table:
 < -- Less than
 E -- Estimated value
 M-- Presence verified, not quantified

