

**ALTAMAHA RIVER BASIN
2004 Water Year**

02207185 NO BUSINESS CREEK AT LEE ROAD, BELOW SNELLVILLE, GA

LOCATION. -- Lat. 33°46'41", long 84°02'17" North American Datum (NAD) 1927, Hydrologic Unit Code 03070103, Gwinnett County, on Lee Road, 2.0 miles East of GA 124.

DRAINAGE AREA. – 10.14 square miles.

COOPERATION.—Gwinnett County Department of Public Utilities.

PERIODIC WATER-QUALITY RECORDS

PERIOD OF RECORD.— March 11, 1999 to current year.

REMARKS.— Hydrologic event 9 indicates a routine sample while J designates a storm event sample. Laboratory chemical analyses with analyzing agency code 81213 are by the U.S. Geological Survey, Ocala Water Quality Laboratory. Laboratory chemical analyses with analyzing agency code 80855 are by the Severn-Trent Laboratory, Denver, CO. Laboratory sediment analyses are by the U.S. Geological Survey, Sediment Partitioning Research Laboratory. Field determinations of discharge, specific conductance, pH, water temperature, turbidity, and dissolved oxygen are by the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| Date | Time | End time | Hydro-logic event | Agency ana-lyzing sample, code (00028) | Instan-taneous dis-charge, cfs (00061) | Gage height, feet (00065) | Turbdty white light, det ang 90 degrees (63675) | Turbdty white light, det ang 90 corrctd (63676) | BOD, water, unfltrd 5 day, 20 degC mg/L (00310) | COD, high level, water, unfltrd mg/L (00340) | Fecal coli-form, M-FC 0.7u MF col/100 mL (31625) | Calcium water, fltrd, mg/L (00915) | Hard-ness, water, mg/L as CaCO3 (00900) | |
|------|-------|----------|-------------------|--|--|---------------------------|---|---|---|--|--|------------------------------------|---|----|
| OCT | 06... | 0955 | -- | 9 | 81213 | 7.1 | 1.88 | -- | 2.3 | -- | -- | 140 | -- | -- |
| OCT | 26-26 | 1500 | 1505 | J | 81213 | 37 | 2.67 | -- | 120 | -- | -- | 16000 | -- | -- |
| DEC | 22... | 1240 | -- | 9 | 81213 | 11 | 2.09 | -- | 4.8 | -- | -- | 180 | -- | -- |
| FEB | 06-06 | 1022 | 1030 | J | 81213 | 32 | 2.55 | -- | 65 | -- | -- | E170 | -- | -- |
| MAR | 10... | 1130 | -- | 9 | 81213 | 13 | 2.09 | -- | 4.6 | -- | -- | 110 | -- | -- |
| MAR | 24... | 1240 | -- | 9 | 81213 | 10 | 2.00 | -- | 4.5 | -- | -- | 42 | -- | -- |
| MAY | 26... | 1020 | -- | 9 | 81213 | 6.3 | 1.85 | -- | 4.4 | -- | -- | 130 | -- | -- |
| MAY | 31-31 | 0920 | 0925 | J | 81213 | 14 | 2.11 | -- | 95 | -- | -- | 6700 | -- | -- |
| JUN | 07-07 | 2140 | 2150 | J | 81213 | 9.9 | 1.99 | -- | 84 | -- | -- | 3900 | -- | -- |
| JUN | 21-21 | 1345 | 1350 | J | 81213 | 15 | 2.18 | -- | 40 | -- | -- | 2400 | -- | -- |
| JUL | 08... | 1040 | -- | 9 | 81213 | 8.4 | 1.99 | -- | 5.0 | .8 | <5 | -- | 9.10 | 29 |
| JUL | 25-26 | 2318 | 0212 | J | 80855 | -- | -- | 150 | 200 | 7.0 | E8 | 12000 | 6.90 | 24 |
| SEP | 07-07 | 0201 | 1259 | J | 80855 | -- | -- | 250 | 330 | 4.2 | E16 | 4600 | 5.70 | 25 |

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| Date | Magnesium, water, fltrd, mg/L (00925) | Magnesium, water, recover-able, mg/L (00927) | Loss on ignition, from ROE, wat unf mg/L (00505) | Residue on evap. at 180degC wat flt mg/L (70300) | Residue total at 105 deg. C, sus-pended, mg/L (00530) | Residue vola-tile, sus-pended, mg/L (00535) | Nitrite nitrate water fltrd, mg/L as N (00631) | Nitrite nitrate water unfltrd mg/L as N (00630) | Ammonia water, fltrd, mg/L as N (00608) | Ammonia org-N, water, unfltrd mg/L as N (00625) | Phos-phorus, water, fltrd, mg/L (00666) | Phos-phorus, water, unfltrd mg/L (00665) | Cadmium water, unfltrd ug/L (01027) |
|-----------|---------------------------------------|--|--|--|---|---|--|---|---|---|---|--|-------------------------------------|
| OCT 06... | -- | -- | -- | 79 | 3 | 2 | 1.50 | 1.70 | A.028 | <.20 | <.02 | <.02 | -- |
| OCT 26-26 | -- | -- | -- | 68 | 166 | 26 | 1.50 | 1.50 | A.127 | 1.4 | .06 | .20 | -- |
| DEC 22... | -- | -- | -- | 69 | 2 | <1 | 1.70 | 1.70 | A.019 | <.20 | <.02 | <.02 | -- |
| FEB 06-06 | -- | -- | -- | 56 | 52 | 9 | 1.40 | 1.50 | A.135 | .60 | <.02 | .05 | -- |
| MAR 10... | -- | -- | -- | 72 | 2 | <1 | 1.60 | 1.80 | A.023 | <.20 | <.02 | <.02 | -- |
| MAR 24... | -- | -- | -- | 82 | 3 | 1 | 2.10 | 2.30 | A.036 | <.20 | <.02 | <.02 | -- |
| MAY 26... | -- | -- | -- | 82 | 3 | <1 | .61 | 1.90 | A.030 | .40 | <.02 | <.02 | -- |
| MAY 31-31 | -- | -- | -- | 77 | 129 | 24 | 1.50 | 1.60 | A.083 | 1.2 | <.02 | .11 | -- |
| JUN 07-07 | -- | -- | -- | 77 | 82 | 16 | 1.70 | 1.70 | A.119 | .70 | <.02 | .10 | -- |
| JUN 21-21 | -- | -- | -- | 73 | 22 | 4 | 1.50 | 1.50 | A.061 | .50 | <.02 | .04 | -- |
| JUL 08... | 1.60 | -- | -- | 68 | 6 | 1 | 1.30 | 1.30 | A.034 | <.20 | <.02 | <.02 | <.5 |
| JUL 25-26 | 1.50 | 1.6 | 33 | 80 | 260 | 52 | .960 | .860 | .180 | 1.2 | E.034 | .130 | <5.0 |
| SEP 07-07 | 1.10 | 1.9 | -- | 91 | 390 | 53 | .900 | .940 | E.096 | .80 | <.050 | <.050 | <5 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| Date | Chromium, water, unfltrd recover-able, ug/L (01034) | Copper, water, unfltrd recover-able, ug/L (01042) | Lead, water, unfltrd recover-able, ug/L (01051) | Manganese, water, unfltrd recover-able, ug/L (01055) | Zinc, water, unfltrd recover-able, ug/L (01092) | Organic carbon, water, unfltrd mg/L (00680) | Suspnd. sedi-ment, sieve diametr percent <.063mm (70331) | Sus-pended sedi-ment concentration mg/L (80154) |
|-----------|---|---|---|--|---|---|--|---|
| OCT 06... | -- | -- | -- | -- | -- | 2.1 | -- | 3 |
| OCT 26-26 | -- | -- | -- | -- | -- | 5.0 | 34 | 202 |
| DEC 22... | -- | -- | -- | -- | -- | 1.8 | -- | 3 |
| FEB 06-06 | -- | -- | -- | -- | -- | 2.3 | 76 | 63 |
| MAR 10... | -- | -- | -- | -- | -- | 1.4 | -- | 3 |
| MAR 24... | -- | -- | -- | -- | -- | 1.4 | -- | 14 |
| MAY 26... | -- | -- | -- | -- | -- | 2.2 | -- | 3 |
| MAY 31-31 | -- | -- | -- | -- | -- | 3.3 | 43 | 135 |
| JUN 07-07 | -- | -- | -- | -- | -- | 4.7 | 65 | 86 |
| JUN 21-21 | -- | -- | -- | -- | -- | 3.8 | 87 | 31 |
| JUL 08... | <1 | <2 | <2 | 151 | 2 | 3.5 | -- | -- |
| JUL 25-26 | E2 | M | M | 950 | 20 | -- | 82 | 260 |
| SEP 07-07 | 12 | M | M | 750 | 190 | -- | 55 | 734 |

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02207185 NO BUSINESS CREEK AT LEE ROAD, BELOW SNELLVILLE, GA—continued.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| Date | Time | Hydro-logic event | Location in X-sect. looking dwnstrm ft from l bank (00009) | Instantaneous discharge, cfs (00061) | Gage height, feet (00065) | Dissolved oxygen, percent of saturation (00301) | Dissolved oxygen, mg/L (00300) | pH, water, unfltrd std units (00400) | Specific conductance, wat unfiltered uS/cm 25 degC (00095) | Temperature, water, deg C (00010) | Turbidity, IR LED light, 90 deg, FNU (63680) | Suspended sediment, sieve diameter percent <.063mm (70331) | Suspended sediment concentration mg/L (80154) |
|-------|------|-------------------|--|--------------------------------------|---------------------------|---|--------------------------------|--------------------------------------|--|-----------------------------------|--|--|---|
| OCT | | | | | | | | | | | | | |
| 06... | 0959 | 9 | 4.50 | 7.1 | 1.88 | 94 | 8.8 | 6.6 | 130 | 17.8 | 2.9 | -- | -- |
| 06... | 1000 | 9 | 9.50 | 7.1 | 1.88 | 95 | 8.8 | 6.6 | 130 | 17.7 | 4.7 | -- | -- |
| 06... | 1001 | 9 | 14.5 | 7.1 | 1.88 | 95 | 8.9 | 6.6 | 130 | 17.7 | 2.9 | -- | -- |
| 26... | 1508 | J | 5.00 | 44 | 2.85 | 100 | 9.4 | 7.0 | 103 | 17.4 | 200 | 32 | 224 |
| 26... | 1509 | J | 10.0 | 44 | 2.85 | 91 | 8.6 | 6.9 | 104 | 17.3 | 200 | 50 | 258 |
| 26... | 1510 | J | 15.0 | 44 | 2.85 | 91 | 8.5 | 6.8 | 106 | 17.3 | 180 | 51 | 222 |
| DEC | | | | | | | | | | | | | |
| 22... | 1245 | 9 | 14.0 | 11 | 2.09 | 102 | 12.5 | 6.7 | 101 | 6.1 | 8.9 | -- | 1 |
| 22... | 1246 | 9 | 9.00 | 11 | 2.09 | 102 | 12.5 | 6.7 | 101 | 6.1 | 8.6 | -- | 3 |
| 22... | 1247 | 9 | 4.00 | 11 | 2.09 | 102 | 12.5 | 6.8 | 101 | 6.1 | 8.5 | -- | .4 |
| FEB | | | | | | | | | | | | | |
| 06... | 1029 | J | 12.0 | 34 | 2.60 | 116 | 14.3 | 6.8 | 88 | 6.5 | 120 | 69 | 94 |
| 06... | 1030 | J | 8.00 | 34 | 2.60 | 114 | 14.0 | 6.9 | 86 | 6.5 | 120 | 66 | 94 |
| 06... | 1031 | J | 4.00 | 35 | 2.61 | 114 | 14.0 | 6.9 | 84 | 6.5 | 110 | 62 | 75 |
| 06... | 1042 | J | 3.00 | 40 | 2.76 | 115 | 14.2 | 6.8 | 84 | 6.5 | 360 | 76 | 264 |
| 06... | 1043 | J | 7.00 | 41 | 2.77 | 116 | 14.3 | 6.8 | 83 | 6.5 | 290 | 77 | 342 |
| 06... | 1044 | J | 11.0 | 41 | 2.79 | 116 | 14.3 | 6.8 | 81 | 6.5 | 240 | 85 | 378 |
| MAR | | | | | | | | | | | | | |
| 10... | 1140 | 9 | 4.00 | 13 | 2.09 | 97 | 10.6 | 6.9 | 103 | 10.6 | 3.9 | -- | -- |
| 10... | 1141 | 9 | 8.00 | 13 | 2.09 | 97 | 10.6 | 6.9 | 103 | 10.6 | 3.4 | -- | -- |
| 10... | 1142 | 9 | 13.0 | 13 | 2.09 | 97 | 10.6 | 6.9 | 103 | 10.6 | 3.5 | -- | -- |
| 24... | 1244 | 9 | 4.00 | 10 | 2.00 | 111 | 11.5 | 7.1 | 117 | 13.4 | 4.2 | -- | -- |
| 24... | 1245 | 9 | 9.00 | 10 | 2.00 | 111 | 11.5 | 7.1 | 117 | 13.5 | 4.1 | -- | -- |
| 24... | 1246 | 9 | 14.0 | 10 | 2.00 | 111 | 11.5 | 7.1 | 117 | 13.5 | 4.8 | -- | -- |
| MAY | | | | | | | | | | | | | |
| 26... | 1029 | 9 | 11.0 | 6.3 | 1.85 | 96 | 8.3 | 6.7 | 121 | 22.2 | 5.1 | -- | -- |
| 26... | 1030 | 9 | 7.00 | 6.3 | 1.85 | 94 | 8.1 | 6.7 | 121 | 22.3 | 4.5 | -- | -- |
| 26... | 1031 | 9 | 3.00 | 6.3 | 1.85 | 93 | 8.1 | 6.7 | 121 | 22.3 | 3.4 | -- | -- |
| 31... | 0928 | J | 4.00 | 15 | 2.13 | 86 | 7.3 | 7.0 | 115 | 21.9 | 140 | 40 | 139 |
| 31... | 0929 | J | 8.00 | 15 | 2.13 | 89 | 7.6 | 7.0 | 115 | 21.9 | 150 | 40 | 139 |
| 31... | 0930 | J | 12.0 | 15 | 2.13 | 87 | 7.4 | 7.0 | 115 | 21.9 | 130 | 40 | 139 |
| JUN | | | | | | | | | | | | | |
| 07... | 2154 | J | 12.0 | 11 | 2.02 | 86 | 7.5 | 6.5 | 121 | 21.4 | 35 | 73 | 86 |
| 07... | 2155 | J | 8.00 | 11 | 2.02 | 86 | 7.5 | 6.6 | 120 | 21.4 | 110 | 73 | 86 |
| 07... | 2156 | J | 4.00 | 11 | 2.02 | 85 | 7.4 | 6.5 | 120 | 21.4 | 95 | 73 | 86 |
| 21... | 1353 | J | 5.00 | 15 | 2.17 | 96 | 7.8 | 7.0 | 101 | 24.6 | 42 | 85 | 34 |
| 21... | 1354 | J | 9.00 | 15 | 2.17 | 94 | 7.6 | 7.0 | 101 | 24.6 | 42 | 84 | 33 |
| 21... | 1355 | J | 13.0 | 15 | 2.17 | 94 | 7.6 | 7.0 | 101 | 24.6 | 42 | 89 | 30 |
| JUL | | | | | | | | | | | | | |
| 08... | 1048 | 9 | 8.00 | 8.4 | 1.99 | 91 | 7.6 | 6.8 | 106 | 23.7 | 1.6 | -- | -- |
| 08... | 1049 | 9 | 6.00 | 8.4 | 1.99 | 91 | 7.6 | 6.8 | 106 | 23.7 | 1.9 | -- | -- |
| 08... | 1050 | 9 | 4.00 | 8.4 | 1.99 | 91 | 7.6 | 6.8 | 106 | 23.7 | 1.9 | -- | -- |
| 26... | 0144 | J | 4.00 | 37 | 2.69 | 92 | 7.7 | 7.1 | 73 | 23.5 | 320 | 88 | 386 |
| 26... | 0145 | J | 10.0 | 37 | 2.69 | 91 | 7.6 | 7.1 | 73 | 23.5 | 320 | 81 | 425 |
| 26... | 0146 | J | 14.0 | 37 | 2.69 | 91 | 7.6 | 7.1 | 74 | 23.5 | 320 | 92 | 340 |
| SEP | | | | | | | | | | | | | |
| 07... | 1239 | J | 7.00 | 150 | 4.68 | 86 | 7.4 | 6.8 | 126 | 23.4 | 160 | 57 | 321 |
| 07... | 1242 | J | 14.0 | 150 | 4.68 | 86 | 7.3 | 6.8 | 126 | 23.4 | 160 | 52 | 355 |
| 07... | 1243 | J | 21.0 | 150 | 4.68 | 88 | 7.5 | 6.9 | 126 | 23.4 | 150 | 53 | 362 |

Remark codes used in this table:

- < -- Less than
- A -- Average value
- E -- Estimated value
- M -- Presence verified, not quantified