ALTAMAHA RIVER BASIN
2004 Water Year

02207400 BRUSHY FORK CREEK AT BEAVER ROAD, NEAR LOGANVILLE, GA

LOCATION.—Lat 33°49'17", long 83°56'33" referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 0307103, at concrete box culvert on Beaver Road, 2.6 miles southwest of Loganville, and 3.4 miles upstream of Big Haynes Creek.

DRAINAGE AREA.—8.15 square miles.

COOPERATION.—Gwinnett County Department of Public Utilities.

PERIODIC WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 12, 1996 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)	Color, water, fltrd, Pt-Co units (00080)	Turbdty white light, det ang 90 degrees NTU (63675)	Turbdty white light, det ang 90 corrctd NTRU (63676)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, high level, water, unfltrd mg/L (00340)	Calcium water, fltrd, mg/L (00915)	Hard-ness, water, mg/L as CaCO3 (00900)
OCT													
06...	1110	--	9	81213	3.4	1.37	50	--	11	<.1	7	2.30	8
NOV													
18-19	2340	0657	J	81213	--	--	160	--	270	4.6	24	1.80	6
DEC													
02...	1400	--	9	81213	8.0	1.52	70	--	13	1.0	6	2.50	9
FEB													
12-12	0549	0922	J	81213	--	--	E160	--	200	2.9	16	1.90	7
MAR													
04...	1040	--	9	81213	12	1.62	80	--	14	E.7	5	2.40	9
25...	1200	--	9	81213	8.0	1.50	60	--	13	.8	5	2.30	8
APR													
13-13	0034	1342	J	81213	--	--	160	--	95	2.6	29	2.40	9
MAY													
22-22	1327	1607	J	81213	--	--	E320	--	430	--	29	2.00	7
27...	1120	--	9	81213	4.3	1.37	80	--	17	1.4	11	2.80	10
JUL													
12...	1200	--	9	81213	5.6	1.43	80	--	12	1.0	<5	3.30	11
JUL													
26-26	0209	0529	J	80855	--	--	--	150	260	5.9	E14	2.20	10
AUG													
12-12	1005	1508	J	80855	--	--	--	140	200	6.6	20	2.10	9

ALTAMAHA RIVER BASIN
2004 Water Year

02207400 BRUSHY FORK CREEK AT BEAVER ROAD, NEAR LOGANVILLE, GA—continued.

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

Date	Magnes-ium, water, fltrd, mg/L (00925)	Magnes-ium, water, unfltrd recover-able, mg/L (00927)	Loss on ig-nition, 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...	.59	.69	--	31	3	2	.32	.320	A.048	.30	<.02	<.02	<.5
NOV													
18-19	.47	.95	--	28	320	53	.29	.290	A.055	1.5	.02	.23	<.5
DEC													
02...	.62	.68	--	42	5	2	.34	.340	A.089	.30	<.02	.04	<.5
FEB													
12-12	.46	.95	--	21	227	30	.35	.350	A.060	.90	<.02	.18	<.5
MAR													
04...	.62	.66	--	33	12	4	.45	.460	A.078	.40	<.02	.02	<.5
25...	.60	.63	--	36	7	3	.39	.380	A.049	.30	<.02	.02	<.5
APR													
13-13	.62	.73	--	47	93	15	.36	.350	A.095	.90	<.02	.10	<.5
MAY													
22-22	.46	1.30	--	36	516	72	.46	.460	A.239	3.0	<.02	.44	<.5
27...	.65	.85	--	43	8	3	.21	.220	A.084	.50	<.02	.04	<.5
JUL													
12...	.78	.76	--	39	6	3	.24	.230	A.098	.40	<.02	.03	<.5
JUL													
26-26	.56	.6	30	46	730	50	.200	.200	E.077	1.2	<.050	.130	<5.0
AUG													
12-12	.51	.6	--	63	380	60	.310	.210	E.054	1.4	<.050	.130	<5

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

Date	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Zinc, water, unfltrd recover-able, ug/L (01092)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
OCT									
06...	<1	<2	--	1070	<2	175	3	--	11
NOV									
18-19	2	<2	--	7570	10	795	30	21	502
DEC									
02...	<1	<2	--	1360	<2	170	5	81	5
FEB									
12-12	2	2	--	5680	8	416	27	10	1740
MAR									
04...	<1	<2	--	1040	<2	122	5	--	14
25...	<1	<2	259	1130	<2	124	3	--	9
APR									
13-13	<1	<2	--	3430	3	315	14	55	114
MAY									
22-22	3	4	185	10900	14	987	42	31	948
27...	<1	<2	--	1950	<2	268	3	--	11
JUL									
12...	<1	<2	--	2080	<2	291	3	--	8
JUL									
26-26	<10	M	--	6100	M	840	20	85	358
AUG									
12-12	<10	<10	--	6400	M	900	20	80	420

ALTAMAHA RIVER BASIN
2004 Water Year

02207400 BRUSHY FORK CREEK AT BEAVER ROAD, NEAR LOGANVILLE, 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)	Instan-taneous dis-charge, cfs (00061)	Gage height, feet (00065)	Dis-solved oxygen, percent of sat-uration (00301)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Turb-idity, IR LED light, det ang 90 deg, FNU (63680)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
OCT													
06...	1114	9	12.5	3.4	1.37	93	8.6	6.4	43	18.0	16	--	--
06...	1115	9	7.50	3.4	1.37	93	8.6	6.4	43	18.0	18	--	--
06...	1116	9	2.50	3.4	1.37	93	8.6	6.4	46	18.0	15	--	--
NOV													
19...	0943	J	15.0	59	2.38	88	8.3	6.2	45	16.4	150	43	218
19...	0944	J	9.00	59	2.38	88	8.3	6.2	45	16.4	160	30	366
19...	0945	J	3.00	59	2.38	88	8.3	6.2	45	16.4	160	55	220
DEC													
02...	1413	9	9.00	8.0	1.52	97	10.7	6.3	47	10.1	16	--	--
02...	1414	9	6.00	8.0	1.52	97	10.7	6.3	46	10.2	18	--	--
02...	1415	9	3.00	8.0	1.52	97	10.7	6.3	47	10.2	14	--	--
FEB													
12...	1017	J	21.0	93	2.80	57	6.8	6.3	35	6.8	200	--	--
12...	1018	J	15.0	93	2.80	55	6.6	6.3	35	6.8	330	--	--
12...	1019	J	5.00	93	2.80	57	6.7	6.3	35	6.8	320	--	--
MAR													
04...	1044	9	6.00	12	1.62	104	10.5	6.3	42	14.5	15	--	--
04...	1045	9	11.0	12	1.62	96	9.7	6.2	42	14.5	16	--	--
04...	1046	9	14.0	12	1.62	95	9.5	6.2	42	14.5	18	--	--
25...	1214	9	9.00	8.0	1.50	92	9.4	6.6	43	14.0	16	--	--
25...	1215	9	7.00	8.0	1.50	92	9.4	6.6	43	14.0	16	--	--
25...	1216	9	5.00	8.0	1.50	92	9.4	6.6	43	14.0	16	--	--
APR													
13...	1206	J	15.0	21	1.81	82	8.2	6.6	46	15.5	88	--	--
13...	1207	J	10.0	21	1.81	82	8.2	6.6	46	15.5	87	--	--
13...	1208	J	5.00	20	1.80	83	8.2	6.5	46	15.5	95	--	--
MAY													
22...	1628	J	17.5	94	2.81	82	7.2	6.3	36	22.4	470	--	--
22...	1629	J	15.0	94	2.81	82	7.1	6.1	35	22.4	470	--	--
22...	1630	J	12.5	94	2.81	78	6.9	5.7	35	22.4	470	--	--
22...	1631	J	7.50	94	2.81	82	7.2	5.8	35	22.4	470	--	--
22...	1632	J	5.00	94	2.81	81	7.1	5.8	35	22.4	460	--	--
22...	1633	J	2.50	94	2.81	79	6.9	5.8	35	22.4	490	--	--
27...	1124	9	10.0	4.3	1.37	84	7.3	6.1	51	22.4	15	--	--
27...	1125	9	7.00	4.3	1.37	84	7.3	6.0	51	22.4	16	--	--
27...	1126	9	4.00	4.3	1.37	84	7.2	6.1	51	22.4	16	--	--
JUL													
12...	1209	9	3.00	5.8	1.44	90	7.4	6.3	48	24.4	11	--	--
12...	1210	9	6.00	5.8	1.44	90	7.4	6.3	48	24.4	11	--	--
12...	1211	9	9.00	5.8	1.44	90	7.3	6.3	48	24.4	11	--	--
26...	0109	J	5.00	36	2.06	90	7.4	6.6	36	24.1	360	--	--
26...	0110	J	10.0	36	2.06	90	7.4	6.6	36	24.1	370	--	--
26...	0111	J	15.0	36	2.06	90	7.4	6.6	36	24.1	370	--	--
AUG													
12...	0836	J	15.0	46	2.21	94	8.0	6.8	34	22.4	380	--	--
12...	0837	J	10.0	46	2.21	93	7.9	6.6	34	22.4	390	--	--
12...	0838	J	5.00	46	2.21	92	7.8	6.5	33	22.4	410	--	--
12...	1529	J	20.0	25	1.90	100	8.3	6.7	37	23.5	200	--	--
12...	1530	J	25.0	25	1.90	100	8.3	6.6	37	23.5	200	--	--
12...	1531	J	30.0	25	1.90	101	8.4	6.6	37	23.5	190	--	--

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