

**ALTAMAHA RIVER BASIN
2004 Water Year**

02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA

LOCATION.—Lat 34°00'37", long 83°53'39" referenced to North American Datum (NAD) 1927, Gwinnett County, Hydrologic Unit 03070101, at 3 - 10' x 8' concrete box culverts, 3.0 miles west of Dacula, GA.

DRAINAGE AREA.—5.68 square miles.

COOPERATION.—Gwinnett County Department of Public Works.

PERIODIC WATER-QUALITY RECORDS

PERIOD OF RECORD.—July 25, 2001 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 analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Gage height, feet (00065)	Turbidity white light, det ang 90 degrees NTU (63675)	Turbidity white light, det ang 90 corrected NTRU (63676)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, high level, water, unfltrd mg/L (00340)	Fecal coliform, M-FC col/100 mL (31625)	Calcium water, fltrd, mg/L (00915)	Hardness, water, mg/L as CaCO3 (00900)
OCT													
03...	0755	--	9	81213	2.6	.56	--	7.0	--	--	150	--	--
DEC													
22...	0930	--	9	81213	5.0	.62	--	7.1	--	--	26	--	--
FEB													
06-06	1315	1325	J	81213	90	1.47	--	290	--	--	1000	--	--
MAR													
02...	1235	--	9	81213	6.4	.66	--	8.5	--	--	74	--	--
23...	1110	--	9	81213	2.6	.60	--	13	--	--	180	--	--
APR													
13-13	0730	0735	J	81213	49	1.22	--	280	--	--	9600	--	--
MAY													
25...	1120	--	9	81213	3.8	.57	--	15	--	--	230	--	--
MAY													
31-31	1245	1250	J	81213	19	.80	--	89	--	--	8400	--	--
JUL													
07...	0950	--	9	81213	1.1	--	--	18	.7	<5	370	5.00	19
JUL													
14-14	2005	2035	J	81213	31	1.05	--	310	7.6	<5	11000	4.00	15
AUG													
12-12	0014	0943	J	80855	--	--	560	680	12.0	26	28000	2.60	15

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02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA—continued.

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

Date	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recover-able, mg/L (00927)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus-pended, mg/L (00530)	Residue volatile, 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)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover-able, ug/L (01034)
OCT 03...	--	--	45	9	4	.43	.450	A.042	<.20	<.02	<.02	--	--
DEC 22...	--	--	43	1	<1	.49	.490	A.085	<.20	<.02	<.02	--	--
FEB 06-06	--	--	35	312	40	.64	.620	A.183	1.4	<.02	.20	--	--
MAR 02...	--	--	39	4	2	.45	.490	A.058	<.20	<.02	<.02	--	--
MAR 23...	--	--	49	2	1	.48	.490	A.043	<.20	<.02	<.02	--	--
APR 13-13	--	--	44	299	44	.77	.780	A.351	2.1	<.02	.22	--	--
MAY 25...	--	--	49	6	1	.36	.430	A.100	.30	<.02	<.02	--	--
MAY 31-31	--	--	45	74	14	.53	.530	A.114	.80	<.02	.07	--	--
JUL 07...	1.50	--	51	4	<1	.37	.360	A.045	<.20	<.02	<.02	<.5	<1
JUL 14-14	1.10	--	43	362	50	.63	.510	A.275	2.3	.03	.24	.5	8
AUG 12-12	.70	1.2	100	1100	150	.410	.330	.160	1.9	<.050	<.050	<5	E5

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

Date	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 concen-tration mg/L (80154)
OCT 03...	--	--	--	--	2.3	--	4
DEC 22...	--	--	--	--	1.5	--	2
FEB 06-06	--	--	--	--	3.1	59	471
MAR 02...	--	--	--	--	1.2	--	4
MAR 23...	--	--	--	--	1.2	--	3
APR 13-13	--	--	--	--	4.2	74	350
MAY 25...	--	--	--	--	2.3	--	6
MAY 31-31	--	--	--	--	3.5	--	--
JUL 07...	<2	<2	181	<2	3.1	--	5
JUL 14-14	7	8	1440	39	4.2	74	439
AUG 12-12	M	M	1100	40	--	53	1870

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

Date	Time	Hydro-logic event	Loca- tion 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 <.063mm (70331)	Sus- pended sedi- ment concentra- tion mg/L (80154)
OCT													
03...	0759	9	15.0	2.6	.56	95	9.7	6.3	66	13.0	7.3	--	--
03...	0800	9	10.0	2.6	.56	94	9.7	6.3	66	13.0	7.8	--	--
03...	0801	9	5.00	2.6	.56	94	9.7	6.4	67	13.0	8.7	--	--
DEC													
22...	0936	9	4.00	5.0	.62	96	12.3	6.7	62	3.8	7.8	--	8
22...	0937	9	9.00	5.0	.62	96	12.4	6.8	62	3.8	7.9	--	4
22...	0938	9	14.0	5.0	.62	96	12.4	6.8	62	3.8	7.5	--	2
FEB													
06...	1328	J	19.0	96	1.51	116	14.4	6.6	50	5.8	360	63	453
06...	1330	J	13.0	96	1.51	116	14.4	6.6	50	5.8	370	50	525
06...	1332	J	7.00	96	1.51	115	14.3	6.6	50	5.8	360	49	612
MAR													
02...	1240	9	6.00	6.4	.66	102	10.7	6.8	57	13.2	11	--	--
02...	1241	9	11.0	6.4	.66	102	10.7	6.8	57	13.2	9.4	--	--
02...	1242	9	16.0	6.4	.66	102	10.7	6.8	57	13.2	9.4	--	--
23...	1113	9	15.0	2.6	.60	129	14.9	6.9	60	8.5	17	--	--
23...	1114	9	20.0	2.6	.60	129	15.0	6.9	60	8.5	11	--	--
23...	1115	9	25.0	2.6	.60	129	14.9	6.9	60	8.5	8.8	--	--
APR													
13...	0739	J	16.0	47	1.21	93	9.8	6.8	54	12.9	320	69	323
13...	0740	J	10.0	47	1.21	92	9.8	6.7	54	12.9	320	58	362
13...	0741	J	6.00	47	1.21	92	9.7	6.7	54	12.9	320	71	331
MAY													
25...	1124	9	15.5	3.8	.57	98	8.5	6.4	60	21.3	35	--	--
25...	1125	9	10.5	3.8	.57	97	8.4	6.4	60	21.3	24	--	--
25...	1126	9	5.50	3.8	.57	96	8.3	6.4	60	21.3	20	--	--
31...	1252	J	5.00	19	.80	75	6.5	6.7	59	21.3	27	70	88
31...	1253	J	9.00	19	.80	81	7.0	6.7	59	21.3	37	70	88
31...	1254	J	13.0	19	.80	84	7.2	6.7	59	21.3	48	70	88
JUL													
07...	1002	9	14.0	1.1	--	99	8.4	7.0	65	22.2	14	--	--
07...	1003	9	9.00	1.1	--	96	8.2	7.0	65	22.2	12	--	--
07...	1004	9	4.00	1.1	--	95	8.1	7.0	65	22.2	12	--	--
14...	2036	J	16.0	36	1.11	89	7.2	6.2	59	24.1	340	72	402
14...	2037	J	10.0	36	1.11	89	7.2	6.4	58	24.0	320	84	465
14...	2038	J	4.00	36	1.11	89	7.2	6.4	58	24.0	320	70	434
AUG													
12...	1051	J	25.0	162	2.08	92	7.9	6.2	39	21.5	690	74	987
12...	1052	J	15.0	160	2.06	91	7.8	9.2	39	21.5	680	67	1110
12...	1053	J	5.00	158	2.05	90	7.7	6.2	39	21.5	670	65	1170

Remark codes used in this table:

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