

**APALACHICOLA RIVER BASIN
2004 Water Year**

02335350 CROOKED CREEK NEAR NORCROSS, GA

LOCATION.—Lat 33°57'54", long 84°15'54", referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 03130001, 20.0 feet upstream of the bridge on Spalding Drive, 3.2 miles Northwest of Norcross, and 0.6 miles upstream from the Chattahoochee River.

DRAINAGE AREA.—8.89 square miles.

COOPERATION.—Gwinnett County Department of Public Utilities.

PERIODIC WATER-QUALITY RECORDS

PERIOD OF RECORD.—August 16, 1976 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)	Turb-idity, IR LED light, 90 deg, FNU (63680)	Turbdty white light, det ang 90 degrees NTU (63675)	Turbdty white light, det ang 90 corrctd NTRU (63676)	BOD, water, 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													
02...	0800	--	9	81213	3.4	3.66	--	--	4.5	--	<5	8.00	28
NOV													
13...	1050	--	9	81213	7.0	3.68	3.6	--	3.8	1.0	<5	10.0	36
NOV													
17-17	0453	0812	J	81213	--	--	--	--	46	8.6	45	6.90	24
JAN													
05-05	1501	1647	J	81213	--	--	--	--	460	4.6	13	5.40	18
MAR													
10...	1305	--	9	81213	8.7	3.76	--	--	4.7	.9	<5	9.40	34
24...	1535	--	9	81213	8.0	3.73	--	--	5.4	<.1	5	9.70	35
APR													
26-26	0840	1345	J	81213	--	--	--	--	70	7.5	40	7.20	25
MAY													
27...	0800	--	9	81213	5.2	3.86	--	--	6.3	.6	5	9.60	33
JUN													
21-21	1533	1901	J	81213	--	--	--	--	180	E1.7	--	5.90	20
JUL													
08...	1255	--	9	81213	7.4	3.69	--	--	5.7	.9	<5	8.80	31
AUG													
05-05	1835	1845	J	80855	162	5.93	--	290	490	8.0	23	3.40	20
AUG													
12-12	0500	0647	J	80855	--	--	--	490	800	17.0	E15	2.80	20

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02335350 CROOKED CREEK NEAR NORCROSS, 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)	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, suspended, mg/L (00530)	Residue volatile, suspended, 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)
OCT 02...	2.00	--	--	70	3	2	.41	.410	A.036	<.20	<.02	<.02	<.5
NOV 13...	2.60	--	--	74	2	1	.37	.380	A.089	<.20	<.02	.02	<.5
NOV 17-17	1.70	--	--	66	70	23	.50	.490	.210	.80	<.02	.08	<.5
JAN 05-05	1.20	--	--	42	543	60	.27	.270	A.073	1.9	<.02	.40	.6
MAR 10...	2.60	--	--	82	<1	<1	.38	.380	A.019	.40	<.02	<.02	<.5
MAR 24...	2.70	--	--	75	2	1	.31	.300	A.025	<.20	<.02	<.02	<.5
APR 26-26	1.70	--	--	58	98	18	.56	.560	A.285	1.3	.03	.16	<.5
MAY 27...	2.30	--	--	55	2	<1	.36	.350	A.124	.40	<.02	.04	<.5
JUN 21-21	1.30	2.30	--	58	242	32	.41	.410	A.137	1.5	<.02	.23	<.5
JUL 08...	2.10	--	--	65	3	1	.39	.400	A.070	.20	<.02	.03	<.5
AUG 05-05	.66	2.4	48	39	450	56	.450	.430	.330	1.1	E.027	.140	<5
AUG 12-12	.58	1.7	--	43	1400	140	.310	.250	.160	2.0	E.026	<.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)	Suspnd. sedi- ment, sieve diametr <.063mm percent (70331)	Suspended sedi- ment concentration mg/L (80154)
OCT 02...	<1	<2	<2	261	5	--	10
NOV 13...	<1	<2	<2	210	8	--	4
NOV 17-17	2	4	<2	436	41	23	1690
JAN 05-05	12	18	19	1090	148	62	886
MAR 10...	<1	<2	<2	237	10	--	2
MAR 24...	<1	<2	<2	204	6	--	4
APR 26-26	3	8	4	680	49	28	141
MAY 27...	<1	2	<2	270	6	--	4
JUN 21-21	5	8	8	536	69	39	299
JUL 08...	<1	<2	<2	174	5	--	3
AUG 05-05	17	20	M	640	110	--	--
AUG 12-12	E6	20	M	1400	160	52	2350

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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 unfl- trd uS/cm 25 degC (00095)	Temper- ature, deg C (00010)	Turb- idity, IR LED light, det ang 90 deg, FNU (63680)	Sus- pended sedi- ment concent- ration mg/L (80154)
OCT												
02...	0804	9	2.00	3.4	3.66	88	9.0	6.7	106	13.3	9.3	--
02...	0805	9	5.00	3.4	3.66	89	9.0	6.7	106	13.5	9.4	--
02...	0806	9	8.00	3.4	3.66	89	9.0	6.7	106	13.5	4.6	--
NOV												
13...	1050	9	2.00	7.0	3.68	98	10.3	6.2	110	13.2	3.6	4
17...	0802	J	2.00	41	4.51	120	12.0	6.0	67	15.4	44	--
17...	0803	J	5.00	41	4.51	120	12.0	6.1	67	15.4	40	--
17...	0805	J	8.00	41	4.51	118	11.8	6.1	67	15.3	66	--
JAN												
06...	1110	J	15.0	13	3.93	87	9.9	6.5	79	8.8	14	--
06...	1111	J	10.0	13	3.93	87	9.9	6.4	79	8.8	21	--
06...	1112	J	5.00	13	3.93	86	9.9	6.3	79	8.8	25	--
MAR												
10...	1312	9	1.00	8.9	3.77	107	11.2	7.1	104	12.4	4.8	--
10...	1313	9	4.00	8.9	3.77	107	11.2	7.1	104	12.4	4.8	--
10...	1314	9	7.00	8.9	3.77	107	11.2	7.1	103	12.4	4.8	--
24...	1546	9	3.00	8.0	3.73	108	10.7	7.2	109	15.5	5.5	--
24...	1547	9	6.00	8.0	3.73	108	10.7	7.2	109	15.5	6.4	--
24...	1548	9	9.00	8.0	3.73	108	10.7	7.2	109	15.5	7.1	--
APR												
26...	1444	J	30.0	70	4.88	82	7.4	7.3	64	19.0	50	--
26...	1445	J	20.0	70	4.88	79	7.4	7.1	64	19.0	47	--
26...	1446	J	10.0	70	4.88	81	7.5	7.1	64	19.0	52	--
MAY												
27...	0804	9	2.50	5.2	3.86	78	7.0	6.6	111	20.9	5.6	--
27...	0805	9	6.50	5.2	3.86	77	6.9	6.6	111	20.9	5.6	--
27...	0806	9	10.5	5.2	3.86	77	6.9	6.6	111	20.9	8.4	--
JUN												
22...	0740	J	8.00	4.7	3.83	79	6.9	6.8	71	22.6	26	--
22...	0741	J	16.0	4.7	3.83	79	6.8	6.8	71	22.6	21	--
22...	0742	J	24.0	4.7	3.83	79	6.8	6.8	70	22.6	19	--
JUL												
08...	1302	9	2.00	7.4	3.69	95	7.6	7.0	91	25.2	3.3	--
08...	1303	9	4.00	7.4	3.69	95	7.6	7.0	91	25.3	3.4	--
08...	1304	9	7.00	7.4	3.69	95	7.6	7.0	91	25.3	3.0	--

Remark codes used in this table:

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