

**APALACHICOLA RIVER BASIN
2004 Water Year**

02334578 LEVEL CREEK AT SUWANEE DAM ROAD, NEAR SUWANEE, GA

LOCATION.—Lat 34°05'47", long 84°04'47", referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit Code 03130001, on upstream side of culvert on Suwanee Dam Road, 4.0 miles East of GA 141. Suwanee Dam Road near Buford, GA, 5.0 miles North of Level Creek, and 7.0 miles South of Buford Dam.

DRAINAGE AREA.—5.04 square miles.

COOPERATION.—Gwinnett County Department of Public Utilities.

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 corrctd NTRU (63676)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, high level, water, unfltrd mg/L (00340)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Calcium water, fltrd, mg/L (00915)	Hardness, water, mg/L as CaCO3 (00900)
OCT													
03...	1025	--	9	81213	3.4	3.52	--	4.7	--	--	120	--	--
NOV													
17-17	0745	0755	J	81213	64	4.49	--	600	--	--	16000	--	--
DEC													
09...	1000	--	9	81213	4.9	3.54	--	5.7	--	--	--	--	--
FEB													
12-12	0840	0850	J	81213	56	4.43	--	310	--	--	2400	--	--
MAR													
09...	1000	--	9	81213	5.3	3.55	--	7.3	--	--	200	--	--
23...	1410	--	9	81213	6.3	3.57	--	3.9	--	--	39	--	--
APR													
26-26	0920	0930	J	81213	13	3.73	--	82	--	--	2400	--	--
MAY													
25...	0845	--	9	81213	3.8	3.49	--	11	--	--	530	--	--
JUL													
08...	1020	--	9	81213	3.4	3.50	--	9.8	.7	<5	--	6.10	22
JUL													
14-14	1805	1835	J	81213	5.8	3.55	--	110	3.2	<5	28000	5.30	19
AUG													
05-05	1515	1715	J	80855	--	--	220	240	6.7	E18	25000	5.50	25
AUG													
12-12	0540	0930	J	80855	--	--	560	830	8.3	E15	58000	2.50	16

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—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, 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)
OCT 03...	--	--	--	54	5	3	.30	.310	A.015	<.20	<.02	<.02	--
NOV 17-17	--	--	--	40	512	81	.40	.400	A.073	2.5	<.02	.41	--
DEC 09...	--	--	--	52	4	2	.44	.440	.038	<.20	<.02	<.02	--
FEB 12-12	--	--	--	28	192	29	.39	.390	A.117	1.0	.04	.25	--
MAR 09...	--	--	--	57	3	2	.32	.350	A.011	<.20	<.02	<.02	--
MAR 23...	--	--	--	57	5	1	.64	.640	A.039	<.20	<.02	.03	--
APR 26-26	--	--	--	58	87	16	.46	.460	A.144	.80	<.02	.12	--
MAY 25...	--	--	--	60	7	<1	.34	.340	A.052	.30	<.02	.02	--
JUL 08...	1.60	--	--	59	4	1	.21	.300	A.044	<.20	<.02	<.02	<.5
JUL 14-14	1.30	--	--	56	130	20	.36	.320	A.128	.70	<.02	.09	<.5
AUG 05-05	1.20	2.3	48	98	220	140	.430	.690	.190	.95	E.049	.130	<5
AUG 12-12	.67	1.4	--	82	1000	140	.670	.300	.170	2.0	.056	.370	<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 <.063mm percent (70331)	Sus-pended sedi-ment concentration mg/L (80154)
OCT 03...	--	--	--	--	--	1.2	--	4
NOV 17-17	--	--	--	--	--	5.2	36	619
DEC 09...	--	--	--	--	--	.9	--	3
FEB 12-12	--	--	--	--	--	6.3	75	276
MAR 09...	--	--	--	--	--	.8	--	4
MAR 23...	--	--	--	--	--	.9	--	2
APR 26-26	--	--	--	--	--	3.1	60	106
MAY 25...	--	--	--	--	--	1.6	--	7
JUL 08...	<1	<2	<2	233	3	2.3	--	6
JUL 14-14	3	4	3	551	18	2.9	61	20
AUG 05-05	10	M	M	310	40	--	88	24
AUG 12-12	E5	M	M	760	50	--	53	1900

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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 concen- tration mg/L (80154)
OCT													
03...	1029	9	16.0	3.4	3.52	97	10.0	6.8	75	13.3	12	--	--
03...	1030	9	11.0	3.4	3.52	97	10.0	6.8	75	13.3	5.7	--	--
03...	1031	9	6.00	3.4	3.52	97	10.0	6.8	75	13.3	7.1	--	--
NOV													
17...	0755	J	18.0	61	4.47	90	8.9	6.3	58	15.1	760	--	--
17...	0756	J	12.0	61	4.47	90	8.9	6.3	58	15.1	700	38	629
17...	0757	J	6.00	61	4.47	91	8.9	6.3	58	15.1	710	34	609
DEC													
09...	1005	9	15.0	4.9	3.54	113	13.7	6.9	74	7.4	9.2	--	3
09...	1006	9	10.0	4.9	3.54	113	13.6	6.9	74	7.4	6.8	--	2
09...	1007	9	5.00	4.9	3.54	113	13.7	6.9	74	7.4	7.2	--	6
FEB													
12...	0851	J	15.0	53	4.40	97	11.6	5.9	41	6.4	410	71	257
12...	0852	J	10.0	53	4.39	97	11.6	5.9	41	6.4	400	66	282
12...	0853	J	5.00	52	4.39	97	11.6	6.0	41	6.4	400	75	243
MAR													
09...	1015	9	4.00	5.3	3.55	95	10.7	6.9	73	9.0	8.3	--	--
09...	1016	9	8.00	5.3	3.55	95	10.7	6.9	73	9.0	6.8	--	--
09...	1017	9	12.0	5.3	3.55	95	10.7	6.9	73	9.0	6.6	--	--
23...	1419	9	12.0	6.3	3.57	136	14.6	7.1	72	11.8	13	--	--
23...	1420	9	8.00	6.3	3.57	134	14.3	7.1	72	11.8	4.1	--	--
23...	1421	9	3.00	6.3	3.57	133	14.2	7.1	72	11.8	3.9	--	--
APR													
26...	0935	J	15.0	13	3.73	65	6.2	6.5	78	17.5	110	60	96
26...	0937	J	10.0	14	3.74	79	7.6	6.4	78	17.5	110	64	98
26...	0939	J	5.00	14	3.74	83	7.9	6.4	78	17.6	110	59	91
MAY													
25...	0849	9	5.00	3.8	3.49	89	7.9	6.2	73	19.7	15	--	--
25...	0850	9	10.0	3.8	3.49	89	7.9	6.2	73	19.7	19	--	--
25...	0851	9	15.0	3.8	3.49	89	7.9	6.2	73	19.7	22	--	--
JUL													
08...	1030	9	4.00	3.4	3.50	83	7.1	6.9	72	21.5	9.8	--	--
08...	1031	9	8.00	3.4	3.50	83	7.1	6.9	72	21.5	8.3	--	--
08...	1032	9	13.0	3.4	3.50	84	7.1	6.9	72	21.5	8.0	--	--
AUG													
05...	1709	J	15.0	12	3.69	90	7.3	7.0	68	24.0	250	--	--
05...	1710	J	10.0	12	3.69	90	7.3	7.0	68	24.0	260	--	--
05...	1711	J	5.00	12	3.69	90	7.3	7.0	68	24.0	260	--	--
12...	0854	J	4.00	195	5.53	95	8.2	6.5	34	21.3	710	--	--
12...	0855	J	10.0	195	5.53	94	8.1	6.5	34	21.3	730	--	--
12...	0856	J	16.0	195	5.53	94	8.1	6.5	34	21.3	730	--	--

Remark codes used in this table:

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