

**APALACHICOLA RIVER BASIN
2004 Water Year**

02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA

LOCATION.—Lat 33°46'46", long 84°19'59" referenced to North American Datum (NAD) of 1927, DeKalb County, Hydrologic Unit Code 03130001, at culvert on LULLWATER Parkway, 0.7 miles upstream of Peavine Creek, 0.4 miles northeast of US 23, GA 8, and 0.7 miles east of the DeKalb County line.

DRAINAGE AREA.—6.48 square miles.

COOPERATION.—City of Atlanta.

PERIODIC WATER-QUALITY RECORDS

PERIOD OF RECORD.—September 4, 2003 to current year.

REMARKS.—Medium code 9 indicates a surface water sample. Medium code 1 indicates a suspended sediment sample. Samples without a medium code are surface water samples. Hydrologic event 9 indicates a routine sample while J designates a storm event sample. Laboratory chemical analyses with analyzing agency code 80020 are by the U.S. Geological Survey, National Water Quality Laboratory. Laboratory chemical analyses with analyzing code 81345 are by the U.S. Geological Survey, Panola Mountain Laboratory. Laboratory sediment analyses with analyzing code 81350 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.

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**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

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

Date	Time	End time	Medium code	Hydro-logic event	Agency analyzing sample, code (00028)	Gage height, feet (00065)	Dis-charge, cfs (00060)	Instan-taneous dis-charge, cfs (00061)	Turb-idity, IR LED light, det ang 90 deg, FNU (63680)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)
OCT													
16...	1120	--	9	9	81345	3.45	--	1.3	1.9	742	9.3	91	7.3
16...	1140	--	9	9	81345	3.45	--	1.3	1.9	742	9.3	91	7.3
JAN													
05...	1010	--	9	9	81345	3.54	--	2.4	5.5	--	9.6	95	6.8
05...	1025	--	9	9	81345	3.54	--	2.4	3.8	--	9.6	95	6.8
21...	1545	--	9	9	81345	3.55	--	.89	1.1	744	13.4	116	7.5
21...	1615	--	9	9	81345	3.55	--	.89	2.4	744	13.3	115	7.5
FEB													
02...	1125	--	9	9	81345	3.46	--	1.7	1.7	739	12.4	105	7.2
02...	1150	--	9	9	81345	3.46	--	1.7	1.3	739	12.4	105	7.2
MAR													
02...	1200	--	9	9	81345	--	--	1.2	3.2	754	13.8	138	8.1
02...	1215	--	9	9	81345	--	--	1.2	4.2	754	14.0	141	8.1
23...	1330	--	9	9	81345	3.47	--	1.0	2.9	759	13.9	134	8.6
23...	1345	--	9	9	81345	3.47	--	1.0	2.7	759	13.9	134	8.7
APR													
07...	0940	--	9	9	81345	3.46	--	.96	2.4	742	11.5	115	7.5
07...	0955	--	9	9	81345	3.46	--	.96	2.4	742	11.5	115	7.5
MAY													
04...	1230	--	9	9	81345	3.47	--	1.0	3.3	746	9.6	96	7.3
04...	1245	--	9	9	81345	3.47	--	1.0	3.0	746	9.5	95	7.3
17...	0815	--	9	9	81345	3.39	--	.84	1.9	752	8.1	89	7.1
17...	0830	--	9	9	81345	3.39	--	.84	1.7	752	7.9	87	7.1
JUN													
07...	1015	--	9	9	81345	3.45	--	.57	3.3	747	7.8	89	7.3
07...	1020	--	9	9	81345	3.45	--	.57	6.1	747	7.9	91	7.3
JUL													
13...	0940	--	9	9	81345	3.43	--	.54	9.2	744	8.1	97	7.3
13...	0945	--	9	9	81345	3.43	--	.54	9.2	744	8.1	97	7.3
AUG													
06...	0755	--	9	J	81345	3.40	--	.59	23	743	7.1	84	6.9
06...	0800	--	9	J	81345	3.40	--	.59	22	746	7.0	83	6.1
SEP													
16-16	1245	1250	9	J	81345	3.79	17	--	150	--	7.1	--	6.6
16-16	1315	1320	9	J	81345	4.43	43	--	140	--	7.6	--	6.7
16-16	1445	1450	9	J	81345	4.54	49	--	120	--	7.7	--	6.7
SEP													
16-16	1545	1550	9	J	81345	5.61	175	--	--	--	8.2	--	6.5
22...	1030	--	9	9	81345	3.45	--	.60	1.9	743	8.6	92	7.3

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**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Date	Specif. conduc- tance, wat unf 25 degC (00095)	Temper- ature, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Noncarb hard- ness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, fltrd, percent (00932)	Alka- linity, wat flt Gran, lab, mg/L as CaCO3 (29803)	Bromide water, fltrd, mg/L (71870)	Chlor- ide, water, fltrd, mg/L (00940)
OCT													
16...	170	14.0	56	13	15.1	4.46	3.22	.5	8.78	24	43.5	.1	11.2
16...	171	14.5	55	12	14.9	4.38	3.12	.5	8.74	24	43.4	M	11.0
JAN													
05...	169	15.0	82	13	23.6	5.49	3.92	.7	14.2	26	68.6	M	16.5
05...	172	15.0	56	7	16.5	3.59	2.85	.6	10.6	28	49.0	M	12.1
21...	163	8.0	79	15	22.7	5.37	3.81	.7	14.0	27	63.8	.1	14.8
21...	166	8.0	82	82	23.5	5.52	3.88	.7	14.3	26	- .2	M	16.4
FEB													
02...	166	7.0	54	14	14.2	4.50	2.44	.5	7.72	23	39.7	<.02	11.2
02...	164	7.0	54	15	14.3	4.54	2.49	.5	7.97	23	39.7	<.02	11.1
MAR													
02...	160	15.0	62	24	16.7	4.77	2.66	.4	7.85	21	37.6	<.02	12.7
02...	160	15.1	61	23	17.1	4.30	2.82	.5	8.41	22	37.6	<.02	11.8
23...	156	13.5	55	18	15.0	4.29	2.59	.5	8.74	25	36.8	<.02	13.1
23...	158	13.5	54	17	14.7	4.14	2.63	.5	8.89	25	36.8	<.02	13.2
APR													
07...	162	14.0	53	12	14.1	4.21	2.56	.5	8.67	25	40.3	.1	11.6
07...	162	14.0	52	12	13.8	4.15	2.56	.5	8.54	25	39.8	.1	11.7
MAY													
04...	165	14.5	56	16	15.3	4.35	3.03	.4	7.22	21	40.1	.1	11.7
04...	161	14.5	49	10	13.5	3.77	2.91	.5	7.27	23	39.9	.1	11.5
17...	165	19.5	51	12	13.8	4.10	2.92	.5	8.42	25	39.0	.1	11.5
17...	165	19.5	64	25	18.1	4.53	3.54	.6	11.8	27	39.3	.1	11.5
JUN													
07...	354	20.5	51	8	14.6	3.44	3.80	2	39.0	60	42.7	<.02	59.8
07...	354	21.0	58	15	16.5	3.91	3.98	2	41.3	59	42.7	<.02	61.7
JUL													
13...	192	23.0	52	12	14.6	3.80	2.99	.6	9.56	27	39.8	.1	12.5
13...	193	23.0	53	13	14.6	3.90	3.00	.6	9.32	26	39.8	.1	12.5
AUG													
06...	152	22.5	42	10	12.9	2.32	4.08	.6	9.58	31	31.6	<.01	15.5
06...	153	22.8	44	--	13.6	2.42	3.98	.6	9.71	30	.0	<.01	15.6
SEP													
16-16	102	22.0	--	--	--	--	--	--	--	--	25.0	<.02	4.80
SEP													
16-16	61	22.5	--	--	--	--	--	--	--	--	18.2	<.02	3.07
SEP													
16-16	50	23.0	--	--	--	--	--	--	--	--	11.7	<.02	1.27
SEP													
16-16	--	22.5	--	--	--	--	--	--	--	--	13.0	<.02	.90
22...	179	17.5	--	--	--	--	--	--	--	--	45.5	.1	8.25

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**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	E coli, Defined Substr. Tech., MPN/ 100 mL (50468)
OCT													
16...	23.4	13.9	114	.15	--	<.020	1.65	<.020	--	<.100	<.10	1.93	--
16...	22.2	13.5	111	.15	--	<.020	1.60	<.020	--	<.100	<.10	1.81	290
JAN													
05...	20.7	26.7	158	.21	--	<.020	1.15	<.020	--	<.100	<.10	1.47	9400
05...	23.1	18.6	122	.17	--	<.020	1.18	<.020	--	<.100	<.10	1.80	--
21...	20.8	28.6	153	.21	--	<.020	1.05	<.020	--	<.100	<.10	1.89	1400
21...	19.9	26.4	115	.16	--	<.020	1.14	<.020	--	<.100	.21	1.95	--
FEB													
02...	18.3	14.0	104	.14	--	<.020	1.73	<.020	--	<.100	<.10	1.94	780
02...	18.4	14.2	105	.14	--	<.020	1.70	<.020	--	<.100	<.10	2.00	--
MAR													
02...	11.6	14.9	101	.14	.05	.040	1.53	<.020	--	<.100	<.10	1.76	--
02...	17.6	12.0	103	.14	--	<.020	1.39	<.020	--	<.100	<.10	1.51	860
23...	18.3	14.4	105	.14	--	<.020	1.46	<.020	--	<.100	<.10	1.46	2200
23...	18.0	14.6	105	.14	--	<.020	1.47	<.020	--	<.100	<.10	1.48	--
APR													
07...	18.2	14.6	104	.14	.03	.020	1.20	.020	--	<.100	<.10	1.07	280
07...	18.6	14.7	104	.14	.04	.033	1.21	.030	--	<.100	<.10	1.49	--
MAY													
04...	21.9	16.0	110	.15	--	<.020	1.51	<.020	--	<.100	<.10	3.06	--
04...	19.3	15.4	104	.14	.07	.054	1.46	<.020	--	<.100	<.10	1.73	7300
17...	20.5	13.7	105	.14	.04	.030	1.39	.030	--	<.100	<.10	1.71	--
17...	29.1	13.7	122	.17	.05	.038	1.39	.020	--	<.100	<.10	1.75	830
JUN													
07...	16.3	15.6	185	.25	.15	.120	1.45	<.020	--	<.100	.10	3.50	490
07...	17.9	15.2	193	.26	.19	.150	1.44	<.020	--	<.100	<.10	3.38	--
JUL													
13...	17.8	13.4	105	.14	.03	.020	1.33	<.010	--	<.050	<.050	--	--
13...	18.5	13.4	105	.14	.03	.020	1.34	<.010	--	<.050	<.050	--	1200
AUG													
06...	11.6	7.9	86	.12	--	--	.72	<.010	--	--	--	--	--
06...	12.0	8.2	--	--	--	--	.82	<.010	--	--	--	--	11000
SEP													
16-16	--	9.2	--	--	.06	.050	.56	.030	--	<.100	<.10	--	140000
16-16	--	6.5	--	--	--	<.020	.42	<.020	--	<.100	<.10	--	88000
16-16	--	4.5	--	--	.03	.020	.35	.020	2.61	.850	1.03	--	46000k@
SEP													
16-16	--	2.7	--	--	--	<.020	.30	<.020	--	<.100	<.10	--	50000
22...	--	9.8	--	--	.18	.140	.62	<.020	--	<.100	<.10	--	580

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**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
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Date	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Total coli- form, Defined Tech., MPN/ 100 mL (50569)	Barium, water, fltrd, ug/L (01005)	Iron, water, fltrd, ug/L (01046)	Stront- ium, water, fltrd, ug/L (01080)	Di- chlor- vos, water fltrd, ug/L (38775)
OCT						
16...	--	--	69.0	<100	70	--
16...	250k	19700	69.2	<100	70	--
JAN						
05...	E5100k	20500	38.3	130	110	--
05...	--	--	31.7	120	90	--
21...	390	8000	39.9	130	110	--
21...	--	--	52.8	130	110	--
FEB						
02...	320	3100	41.2	<100	70	--
02...	--	--	58.4	<100	70	--
MAR						
02...	--	--	22.6	<100	80	--
02...	460	4300	53.1	<100	80	--
23...	210	8000	48.7	<100	80	--
23...	--	--	45.6	<100	80	--
APR						
07...	360	7600	55.6	<100	70	--
07...	--	--	47.5	<100	70	--
MAY						
04...	--	--	46.9	<100	80	--
04...	5200	61000	36.8	<100	70	--
17...	--	--	48.4	<100	70	--
17...	590	18000	69.5	<100	90	--
JUN						
07...	540	24000	56.3	<100	80	--
07...	--	--	73.8	<100	90	--
JUL						
13...	--	--	--	<50	70	--
13...	930	23000	--	<50	70	--
AUG						
06...	--	--	--	<50	50	--
06...	29000	>240000k	--	<50	60	--
SEP						
16-16	250000	9800000	--	--	--	--
SEP						
16-16	220000k	7700000	--	--	--	--
SEP						
16-16	60000k@	2400000k@	--	--	--	--
SEP						
16-16	110000k	6900000	--	--	--	--
22...	370	24000	--	--	--	--u

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**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Date	Time	Hydro-logic event	Agency analyzing sample, code (00028)	Gage height, feet (00065)	Dis-charge, cfs (00060)	Instan-taneous dis-charge, cfs (00061)	Turb-idity, IR LED light, det ang 90 deg, FNU (63680)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf 25 degC (00095)	Temper-ature, water, deg C (00010)	Alum-inum, water, fltrd, ug/L (01106)
OCT													
16...	1121	9	80020	3.45	--	1.3	1.9	742	9.3	7.3	170	14.0	2
16...	1141	9	80020	3.45	--	1.3	1.9	742	9.3	7.3	171	14.5	2
JAN													
05...	1011	9	80020	3.54	--	2.4	5.5	--	9.6	6.8	169	15.0	2
05...	1026	9	80020	3.54	--	2.4	3.8	--	9.6	6.8	172	15.0	3
21...	1546	9	80020	3.55	--	.89	1.1	744	13.4	7.5	163	8.0	3
21...	1616	9	80020	3.55	--	.89	2.4	744	13.3	7.5	166	8.0	3
FEB													
02...	1126	9	80020	3.46	--	1.7	1.7	739	12.4	7.2	166	7.0	3
02...	1151	9	80020	3.46	--	1.7	1.3	739	12.4	7.2	164	7.0	3
MAR													
02...	1201	9	80020	--	--	1.2	3.2	754	13.8	8.1	160	15.0	6
02...	1216	9	80020	--	--	1.2	4.2	754	14.0	8.1	160	15.1	6
23...	1331	9	80020	3.47	--	1.0	2.9	759	13.9	8.6	156	13.5	5
23...	1346	9	80020	3.47	--	1.0	2.7	759	13.9	8.7	158	13.5	6
APR													
07...	0941	9	80020	3.46	--	.96	2.4	742	11.5	7.5	162	14.0	3
07...	0956	9	80020	3.46	--	.96	2.4	742	11.5	7.5	162	14.0	3
MAY													
04...	1231	9	80020	3.47	--	1.0	3.3	746	9.6	7.3	165	14.5	3
04...	1246	9	80020	3.47	--	1.0	3.0	746	9.5	7.3	161	14.5	3
17...	0816	9	80020	3.39	--	.84	1.9	752	8.1	7.1	165	19.5	4
17...	0831	9	80020	3.39	--	.84	1.7	752	7.9	7.1	165	19.5	3
JUN													
07...	1016	9	80020	3.45	--	.57	3.3	747	7.8	7.3	354	20.5	5
07...	1021	9	80020	3.45	--	.57	6.1	747	7.9	7.3	354	21.0	5
JUL													
13...	0941	9	80020	3.43	--	.54	9.2	744	8.1	7.3	192	23.0	3
13...	0946	9	80020	3.43	--	.54	9.2	744	8.1	7.3	193	23.0	3
AUG													
06...	0756	J	80020	3.40	--	.59	23	744	7.1	6.1	152	22.6	9
06...	0801	J	80020	3.40	--	.59	22	747	7.0	6.1	153	22.9	12
SEP													
16-16	1246	J	80020	3.79	17	--	150	--	7.1	6.6	102	22.0	114
SEP													
16-16	1316	J	80020	4.43	43	--	140	--	7.6	6.7	61	22.5	84
SEP													
16-16	1446	J	80020	4.54	49	--	120	--	7.7	6.7	50	23.0	120
SEP													
16-16	1546	J	80020	5.61	175	--	--	--	8.2	6.5	--	22.5	190
22...	1031	9	80020	3.45	--	--	1.9	743	8.6	7.3	179	17.5	2

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**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Date	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)	Copper, water, fltrd, ug/L (01040)	Lead, water, fltrd, ug/L (01049)	Mangan- ese, water, fltrd, ug/L (01056)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)
OCT								
16...	<.04	E.5n	1.2	<.08	7.4	.51	<.2	6.1
16...	<.04	<.8	1.3	E.05n	6.7	.53	<.2	7.6
JAN								
05...	<.04	<.8	1.1	.08	41.8	.70	<.2	7.3
05...	<.04	<.8	1.2	E.07n	42.8	.76	<.2	11.7
21...	<.04	<.8	1.2	.09	25.0	.59	<.2	8.0
21...	<.04	<.8	1.1	.09	23.4	.59	<.2	7.8
FEB								
02...	<.04	<.8	1.9	.10	36.9	.61	<.2	9.9
02...	<.04	<.8	1.2	.09	37.1	.63	<.2	10.2
MAR								
02...	<.04	<.8	1.5	.10	22.6	.64	<.2	4.6
02...	<.04	<.8	1.4	.10	24.9	.64	<.2	4.7
23...	<.04	<.8	1.4	.11	13.0	.83	<.2	5.9
23...	<.04	<.8	1.3	.12	12.3	.48	<.2	3.4
APR								
07...	<.04	<.8	1.3	.10	21.1	.50	<.2	5.3
07...	<.04	<.8	1.2	.11	20.5	.51	<.2	5.9
MAY								
04...	<.04	<.8	1.4	.15	18.2	.63	<.2	6.9
04...	<.04	<.8	1.3	.14	21.0	.64	<.2	7.0
17...	<.04	<.8	1.4	.13	14.6	.64	<.2	5.5
17...	<.04	<.8	1.4	.11	14.7	.60	<.2	5.6
JUN								
07...	<.04	E.4n	2.1	.13	9.7	.56	<.2	5.0
07...	<.04	<.8	2.0	.10	8.6	.54	<.2	4.8
JUL								
13...	<.04	<.8	1.5	<.08	9.3	.46	<.2	6.3
13...	<.04	<.8	2.1	.13	9.9	.54	<.2	5.9
AUG								
06...	<.04	E.4n	4.8	.27	9.1	.72	<.2	10.7
06...	E.02n	E.7n	4.9	.32	8.5	.72	<.2	9.8
SEP								
16-16	.07	.8	14.0	2.93	127	1.44	<.2	31.9
SEP								
16-16	.04	E.7n	7.9	1.94	70.2	.90	<.2	19.0
SEP								
16-16	.04	.9	5.9	1.75	24.9	.56	<.2	12.4
SEP								
16-16	E.02n	.9	5.1	1.27	20.9	.50	<.2	8.2
22...	<.04	<.8	1.1	<.08	18.5	.45	<.2	6.4

**APALACHICOLA RIVER BASIN
2004 Water Year**

**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Date	Time	End time	Agency analyzing sample, code (00028)	Gage height, feet (00065)	Dis-charge, cfs (00060)	Instan-taneous dis-charge, cfs (00061)	Turb-idity, IR LED light, det ang 90 deg, FNU (63680)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std (00400)	Specif. conduc-tance, wat unf 25 degC (00095)	Temper-ature, water, deg C (00010)	
OCT	16...	1141	--	80020	3.45	--	1.3	1.9	742	9.3	91	7.3	171	14.5
JAN	05...	1011	--	80020	3.54	--	2.4	5.5	--	9.6	95	6.8	169	15.0
	21...	1546	--	80020	3.55	--	.89	1.1	744	13.4	116	7.5	163	8.0
FEB	02...	1126	--	80020	3.46	--	1.7	1.7	739	12.4	105	7.2	166	7.0
MAR	02...	1216	--	80020	--	--	1.2	4.2	754	14.0	141	8.1	160	15.1
	23...	1331	--	80020	3.47	--	1.0	2.9	759	13.9	134	8.6	156	13.5
APR	07...	0941	--	80020	3.46	--	.96	2.4	742	11.5	115	7.5	162	14.0
MAY	04...	1246	--	80020	3.47	--	1.0	3.0	746	9.5	95	7.3	161	14.5
	17...	0831	--	80020	3.39	--	.84	1.7	752	7.9	87	7.1	165	19.5
JUN	07...	1016	--	80020	3.45	--	.57	3.3	747	7.8	89	7.3	354	20.5
JUL	13...	0946	--	80020	3.43	--	.54	9.2	744	8.1	97	7.3	193	23.0
AUG	06...	0801	--	80020	3.40	--	.59	22	747	7.0	83	6.1	153	22.9
SEP	16-16	1246	1251	80020	3.79	17	--	150	--	7.1	--	6.6	102	22.0
SEP	16-16	1316	1321	80020	4.43	43	--	140	--	7.6	--	6.7	61	22.5
SEP	16-16	1446	1451	80020	4.54	49	--	120	--	7.7	--	6.7	50	23.0
SEP	16-16	1546	1551	80020	5.61	175	--	--	--	8.2	--	6.5	--	22.5
	22...	1031	--	80020	3.45	--	.60	1.9	743	8.6	92	7.3	179	17.5

Date	1,4-Di-chloro-benzene water, fltrd, ug/L (34572)	1-Methyl-naphth-alene, water, fltrd, ug/L (62054)	2,6-Di-methyl-naphth-alene, water, fltrd, ug/L (62055)	2-Methyl-naphth-alene, water, fltrd, ug/L (62056)	3-beta-Copros-tanol, water, fltrd, ug/L (62057)	3-Methyl-1H-indole, water, fltrd, ug/L (62058)	3-tert-Butyl-4-hy-droxy-anisole, wat flt ug/L (62059)	4-Cumyl-phenol, water, fltrd, ug/L (62060)	4-Octyl-phenol, water, fltrd, ug/L (62061)	4-Nonyl-phenol, water, fltrd, ug/L (62085)	4-tert-Octyl-phenol, water, fltrd, ug/L (62062)	5-Meth-yl-1H-benzo-tri-azole, wat flt ug/L (62063)	9,10-Anthra-quinone water, fltrd, ug/L (62066)	
OCT	16...	<.5	<.5	<.5	<.5	<2	M	<5	<1	<1	<5	<1	<2	<.5
JAN	05...	<.5	<.5	<.5	<.5	<2	M	<5	<1	<1	<5	<1	<2	E.1
	21...	E.1	<.5	<.5	<.5	<2	M	<5	<1	<1	<5	<1	<2	<.5
FEB	02...	<.5	<.5	<.5	<.5	<2	<1	<5	<1	<1	<5	<1	<2	<.5
MAR	02...	<.5	<.5	<.5	<.5	<2	<1	<5	<1	<1	<5	<1	<2	<.5
	23...	<.5	<.5	<.5	<.5	<2	<1	<5	<1	<1	<5	<1	<2	<.5
APR	07...	<.5	<.5	<.5	<.5	<2	M	<5	<1	<1	<5	<1	<2	<.5
MAY	04...	E.1	<.5	<.5	<.5	<2	M	<5	<1	<1	<5	<1	<2	<.5
	17...	<.5	<.5	<.5	<.5	<2	M	<5	<1	<1	<5	<1	<2	<.5
JUN	07...	<.5	<.5	<.5	<.5	<2	M	<5	<1	<1	E1	<1	<2	<.5
JUL	13...	<.5	<.5	<.5	<.5	<2	<1	<5	<1	<1	<5	<1	<2	<.5
AUG	06...	<.5	<.5	<.5	<.5	<2	<1	<5	<1	<1	<5	<1	<2	E.3t
SEP	16-16	<.5	<.5	<.5	<.5	E1t	<1	<5	<1	<1	E2t	<1	<2	E.2t
SEP	16-16	<.5	<.5	<.5	<.5	<2	<1	<5	<1	<1	<5	<1	<2	E.2t
SEP	16-16	<.5	<.5	<.5	<.5	<2	<1	<5	<1	<1	<5	<1	<2	E.1t
SEP	16-16	<.5	<.5	<.5	<.5	<2	<1	<5	<1	<1	<5	<1	<2	<.5
	22...	<.5mc	<.5	<.5	<.5	Mt	<1	<5mc	<1	<1	<5mc	<1	<2	<.5

**APALACHICOLA RIVER BASIN
2004 Water Year**

**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Date	Aceto-phenone water, fltrd, ug/L (62064)	AHTN, water, fltrd, ug/L (62065)	Anthra-cene, water, fltrd, ug/L (34221)	Benzo-[a]- pyrene, water, fltrd, ug/L (34248)	Benzo-phenone water, fltrd, ug/L (62067)	beta-Sitos- terol, water, fltrd, ug/L (62068)	beta-Stigma- stanol, water, fltrd, ug/L (62086)	Bisphe-nol A, water, fltrd, ug/L (62069)	Broma-cil, water, fltrd, ug/L (04029)	Caf-feine, water, fltrd, ug/L (50305)	Camphor water, fltrd, ug/L (62070)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carba-zole, water, fltrd, ug/L (62071)
Date	Chlor-pyrifos water, fltrd, ug/L (38933)	Choles-terol, water, fltrd, ug/L (62072)	Cot-inine, water, fltrd, ug/L (62005)	DEET, water, fltrd, ug/L (62082)	Diazi-non, water, fltrd, ug/L (39572)	Di-ethoxy-nonyl- phenol, water, fltrd, ug/L (62083)	Di-ethoxy-octyl- phenol, water, fltrd, ug/L (61705)	D-Limo-nene, water, fltrd, ug/L (62073)	Ethoxy-octyl- phenol, water, fltrd, ug/L (61706)	Fluor-anthene water, fltrd, ug/L (34377)	HHCB, water, fltrd, ug/L (62075)	Indole, water, fltrd, ug/L (62076)	Isobor-neol, water, fltrd, ug/L (62077)
OCT 16...	<.5	<.5	<.5	<.5	<.5	<2	<2	<1	E.5	E.1	<.5	<1	<.5
JAN 05...	<.5	M	<.5	<.5	E.1	<2	<2	<1	<.5	E.2	M	<1	<.5
JAN 21...	<.5	M	<.5	<.5	E.1	<2	<2	<1	<.5	E.2	M	<1	<.5
FEB 02...	<.5	M	<.5	<.5	<.5	<2	<2	<1	<.5	E.3	<.5	<1	<.5
MAR 02...	<.5	<.5	<.5	<.5	<.5	<2	<2	<1	E.4	E.2	<.5	<1	<.5
MAR 23...	E.1	M	<.5	<.5	M	<2	<2	<1	<.5	E.2	<.5	<1	<.5
APR 07...	<.5	M	<.5	<.5	M	<2	<2	<1	<.5	E.2	M	<1	<.5
MAY 04...	<.5	M	<.5	<.5	<.5	<2	<2	<1	<.5	E.2	M	<1	M
MAY 17...	<.5	E.1	<.5	<.5	E.1	<2	<2	<1	<.5	E.2	E.1	<1	<.5
JUN 07...	<.5	E.1	<.5	<.5	E.1	<2	<2	<1	<.5	E.2	M	M	<.5
JUL 13...	<.5	E.1t	<.5	<.5	<.5	<2	<2	<1	E.3t	E.1t	<.5	<1	<.5
AUG 06...	<.5	<.5	<.5	<.5	<.5	<2	<2	<1	<.5	E.5t	<.5	<1	<.5
SEP 16-16	<.5	<.5	E.2t	<.5	<.5	E2t	E1t	Mt	<.5	2.8	<.5	Mt	<.5
SEP 16-16	<.5	<.5	<.5	<.5	<.5	E1t	<2	<1	<.5	1.7	<.5	Mt	<.5
SEP 16-16	<.5	<.5	<.5	<.5	<.5	Mt	<2	Mt	<.5	.6	<.5	<1	<.5
SEP 16-16	<.5	<.5	<.5	<.5	<.5	Mt	<2	Mt	<.5	<.5	<.5	Mt	<.5
SEP 22...	<.5	<.5	<.5	<.5	<.5	<2	<2	Mt	<.5	E.1t	<.5	<1mc	<.5
OCT 16...	<.5	<2	<1.00	E.2	<.5	<5	<1	<.5	<1	<.5	<.5	<.5	<.5
JAN 05...	<.5	<2	<1.00	E.1	<.5	<5	<1	<.5	<1	M	M	<.5	<.5
JAN 21...	<.5	<2	<1.00	E.1	<.5	<5	<1	<.5	<1	M	E.1	<.5	<.5
FEB 02...	<.5	<2	<1.00	E.1	<.5	<5	<1	<.5	<1	<.5	<.5	<.5	<.5
MAR 02...	<.5	<2	<1.00	E.1	<.5	<5	<1	<.5	<1	<.5	<.5	<.5	<.5
MAR 23...	<.5	<2	<1.00	M	<.5	<5	<1	<.5	<1	<.5	<.5	<.5	<.5
APR 07...	<.5	<2	<1.00	E.1	<.5	<5	<1	<.5	<1	<.5	E.1	M	<.5
MAY 04...	<.5	<2	<1.00	E.1	<.5	<5	<1	<.5	<1	M	<.5	<.5	<.5
MAY 17...	<.5	<2	<1.00	E.2	28.0	<5	<1	<.5	<1	M	<.5	<.5	<.5
JUN 07...	<.5	<2	<1.00	.6	E.1	<5	<1	<.5	<1	M	<.5	<.5	<.5
JUL 13...	<.5	<2	<1.00	E.3t	<.5	<5	<1	<.5	<1	Mt	<.5	<.5	<.5
AUG 06...	<.5	<2	<1.00	.8	<.5	<5	Mt	<.5	Mt	E.1t	<.5	<.5	<.5
SEP 16-16	<.5	E2t	<1.00	1.9	<.5	E7	Mt	<.5	Mt	E.1t	<.5	<.5	<.5
SEP 16-16	<.5	E1t	<1.00	1.9	<.5	<5	<1	E.1n	<1	<.5	<.5	<.5	<.5
SEP 16-16	<.5	Mt	<1.00	.7	<.5	E2t	<1	<.5	<1	E.1t	<.5	<.5	<.5
SEP 16-16	<.5	Mt	<1.00	E.3t	<.5	<5	<1	<.5	<1	<.5	<.5	<.5	<.5
SEP 22...	<.5	Mt	<1.00	E.3t	<.5	<5mc	Mtmc	E.1mnc	<1mc	<.5	<.5	<.5	<.5

**APALACHICOLA RIVER BASIN
2004 Water Year**

**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Date	Iso-phorone water, fltrd, ug/L (34409)	Iso-propyl- benzene water, fltrd, ug/L (62078)	Iso-quin- oline, water, fltrd, ug/L (62079)	Menthol water, fltrd, ug/L (62080)	Meta- laxyl, water, fltrd, ug/L (50359)	Methyl salicy- late, water, fltrd, ug/L (62081)	Metola- chlor, water, fltrd, ug/L (39415)	Naphth- alene, water, fltrd, ug/L (34443)	p- Cresol, water, fltrd, ug/L (62084)	Penta- chloro- phenol, water, fltrd, ug/L (34459)	Phenan- threne, water, fltrd, ug/L (34462)	Phenol, water, fltrd, ug/L (34466)	Prome- ton, water, fltrd, ug/L (04037)
OCT													
16...	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	M	<2	<.5	.5	<.5
JAN													
05...	<.5	<.5	<.5	E.1	<.5	<.5	<.5	<.5	M	<2	M	E.2	<.5
21...	M	<.5	<.5	<.5	<.5	<.5	<.5	<.5	M	<2	<.5	E.2	<.5
FEB													
02...	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<1	<2	<.5	<.5	<.5
MAR													
02...	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<1	<2	<.5	E.2	<.5
23...	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	M	<2	<.5	E.3	<.5
APR													
07...	<.5	<.5	<.5	M	<.5	<.5	<.5	M	M	<2	M	E.5	<.5
MAY													
04...	M	<.5	<.5	E.1	<.5	M	<.5	<.5	M	<2	<.5	E.3	<.5
17...	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	M	<2	M	E.3	<.5
JUN													
07...	E.1	<.5	<.5	E.1	.9	E.1	<.5	<.5	M	<2	M	1.0	<.5
JUL													
13...	<.5	<.5	<.5	E.1t	<.5	<.5	<.5	<.5	Mt	<2	<.5	1.2	E.2t
AUG													
06...	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<1	<2	<.5	.9	<.5
SEP													
16-16	<.5	<.5	<.5	<.5	<.5	E.1t	<.5	<.5	<1	Mt	<.5	2.9	<.5
SEP													
16-16	E.1t	<.5	<.5	<.5	<.5	<.5	<.5	<.5	Mt	Mt	<.5	.8	<.5
SEP													
16-16	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	Mt	Mt	<.5	.8	<.5
SEP													
16-16	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	Mt	Mt	<.5	1.0	<.5
22...	<.5	<.5mc	<.5	<.5	<.5	<.5	<.5	<.5	<1	<2mc	<.5	1.1	<.5

Date	Pyrene, water, fltrd, ug/L (34470)	Tetra- chloro- ethene, water, fltrd, ug/L (34476)	Tri- bromo- methane water, fltrd, ug/L (34288)	Tri- butyl phos- phate, water, fltrd, ug/L (62089)	Triclo- san, water, fltrd, ug/L (62090)	Tri- ethyl citrate water, fltrd, ug/L (62091)	Tri- phenyl phos- phate, water, fltrd, ug/L (62092)	Tris(2- butoxy- ethyl) phos- phate, wat flt ug/L (62093)	Tris(2- chloro- ethyl) phos- phate, wat flt ug/L (62087)	Tris(di- chloro- i-Pr) phos- phate, wat flt ug/L (62088)	Di- chlor- vos, water fltrd, ug/L (38775)
OCT											
16...	<.5	E.1	<.5	<.5	<1	<.5	<.5	<.5	<.5	<.5	<1.00
JAN											
05...	M	E.2	<.5	<.5	M	E.1	M	<.5	<.5	E.1	<1.00
21...	M	E.3	<.5	<.5	M	<.5	<.5	<.5	<.5	<.5	<1.00
FEB											
02...	<.5	E.2	<.5	<.5	<1	<.5	<.5	<.5	<.5	<.5	<1.00
MAR											
02...	<.5	<.5	<.5	E.1	<1	<.5	M	<.5	<.5	E.1	<1.00
23...	<.5	E.2	<.5	<.5	M	<.5	<.5	<.5	<.5	<.5	<1.00
APR											
07...	<.5	E.1	<.5	<.5	<1	<.5	<.5	<.5	<.5	<.5	<1.00
MAY											
04...	M	E.1	<.5	<.5	<1	<.5	E.1	<.5	<.5	E.1	<1.00
17...	M	E.1	<.5	<.5	<1	<.5	<.5	<.5	<.5	<.5	<1.00
JUN											
07...	M	E.1	E.1	E.3	<1	<.5	<.5	<.5	E.1	E.1	<1.00
JUL											
13...	Mt	E.1t	<.5	<.5	<1	<.5	Mt	E.2t	E.1t	<.5	<1.00
AUG											
06...	E.1t	<.5	<.5	<.5	<1	<.5	<.5	E.8	<.5	<.5	--u
SEP											
16-16	Mt	E.2t	<.5	<.5	<1	<.5	E.1n	9.6	E.2t	<.5	--u
SEP											
16-16	<.5	E.2t	<.5	<.5	<1	<.5	E.1n	E6.4	E.1t	<.5	--u
SEP											
16-16	Mt	E.1t	<.5	<.5	<1	<.5	E.1n	1.6	<.5	E.1t	--u
SEP											
16-16	<.5	Mt	<.5	<.5	<1	<.5	<.5	.6	<.5	<.5	--u
22...	<.5	E.1mtc	<.5mc	<.5	<1	<.5	<.5	<.5	<.5	<.5	--u

**APALACHICOLA RIVER BASIN
2004 Water Year**

**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Date	Time	End time	Medium code	Hydro-logic event	Agency analyzing sample, code (00028)	Gage height, feet (00065)	Dis-charge, cfs (00060)	Instan-taneous dis-charge, cfs (00061)	Turb-idity, IR LED det ang 90 deg, FNU (63680)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)
OCT													
16...	1120	--	1	9	81350	3.45	--	1.3	1.9	742	9.3	93	7.3
JAN													
05...	1035	--	1	9	81350	3.54	--	2.4	4.0	--	9.6	--	6.8
21...	1617	--	1	9	81350	3.55	--	.89	2.4	744	13.3	115	7.5
MAR													
02...	1202	--	1	9	81350	--	--	1.2	3.2	754	13.8	138	8.1
23...	1347	--	1	9	81350	3.47	--	1.0	2.7	759	13.9	134	8.7
APR													
07...	0957	--	1	9	81350	3.46	--	.96	2.4	742	11.5	115	7.5
MAY													
04...	1232	--	1	9	81350	3.47	--	1.0	3.3	746	9.6	96	7.3
17...	0817	--	1	9	81350	3.39	--	.84	1.9	752	8.1	89	7.1
JUN													
07...	1022	--	1	9	81350	3.45	--	.57	6.1	747	7.9	91	7.3
JUL													
13...	0942	--	1	9	81350	3.43	--	.54	9.2	744	8.1	97	7.3
AUG													
19...	0815	--	1	9	81350	3.45	--	--	--	--	--	--	--
SEP													
16-16	1317	1322	1	J	81350	4.43	43	--	140	--	7.6	--	6.7
16-16	1447	1452	1	J	81350	4.54	49	--	120	--	7.7	--	6.7
16-16	1547	1552	1	J	81350	5.61	175	--	--	--	8.2	--	6.5
22...	1032	--	1	9	81350	3.45	--	.60	1.9	743	8.6	92	7.3

Date	Specif. conduc-tance, uS/cm 25 degC (00095)	Temper-ature, deg C (00010)	Alum-inum, suspnd sedimnt total, percent (30221)	Anti-mony, suspnd sedimnt total, ug/g (29816)	Arsenic suspnd sedimnt total, ug/g (29818)	Barium, suspnd sedimnt total, ug/g (29820)	Beryll-ium, suspnd sedimnt total, ug/g (29822)	Cadmium suspnd sedimnt total, ug/g (29826)	Chrom-ium, suspnd sedimnt total, ug/g (29829)	Cobalt, suspnd sedimnt total, ug/g (35031)	Copper, suspnd sedimnt total, ug/g (29832)	Iron, suspnd sedimnt total, percent (30269)	Lead, suspnd sedimnt total, ug/g (29836)
OCT													
16...	170	14.0	1.3	1.2	4.7	420	M	.5	88	8	37	1.6	30
JAN													
05...	171	15.0	4.3	3.2	7.8	450	2	1.9	100	41	83	3.7	98
21...	166	8.0	3.9	6.8	3.4	1100	2	<.6	170	15	80	3.2	460
MAR													
02...	160	15.0	.930	.6	1.5	210	M	1.0	37	6	150	1.5	30
23...	158	13.5	2.3	1.3	2.9	360	2	1.2	75	16	72	2.4	69
APR													
07...	162	14.0	3.1	2.3	4.2	450	2	.4	82	18	64	3.9	73
MAY													
04...	165	14.5	6.3	1.3	8.5	430	2	1.1	--o	26	120	4.8	99
17...	165	19.5	6.0	3.7	8.1	540	2	.9	260	26	89	4.4	140
JUN													
07...	354	21.0	6.2	2.5	4.5	570	2	1.0	200	24	100	3.9	150
JUL													
13...	192	23.0	8.3	3.8	9.3	630	3	1.5	200	29	120	5.3	180
AUG													
19...	--	--	1.8	1.8	7.6	380	M	1.4	--x	--	130	3.9	83
SEP													
16-16	61	22.5	8.8	5.7	9.9	520	3	1.2	83	29	140	4.9	170
16-16	50	23.0	9.5	5.7	18	470	3	.9	87	23	120	4.8	160
16-16	--	22.5	8.3	1.9	6.9	440	2	.4	68	20	69	4.2	100
22...	179	17.5	6.2	1.3	6.6	150	2	2.3	250	24	71	3.7	52

**APALACHICOLA RIVER BASIN
2004 Water Year**

**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Date	Lithium suspnd sedimnt total, ug/g (35050)	Mangan- ese, suspnd sedimnt total, ug/g (29839)	Mercury suspnd sedimnt total, ug/g (29841)	Molyb- denum, suspnd sedimnt total, ug/g (29843)	Nickel, suspnd sedimnt total, ug/g (29845)	Selen- ium, suspnd sedimnt total, ug/g (29847)	Silver, suspnd sedimnt total, ug/g (29850)	Stront- ium, suspnd sedimnt total, ug/g (35040)	Thall- ium, suspnd sedimnt total, ug/g (49955)	Titan- ium, suspnd sedimnt total, percent (30317)	Vanad- ium, suspnd sedimnt total, ug/g (29853)	Zinc, suspnd sedimnt total, ug/g (29855)	Uranium suspnd sedimnt total, ug/g (35046)
OCT													
16...	11	1500	<.01	9	47	2	<.5	460	<50	.059	19	240	<50
JAN													
05...	15	7300	<.02	5	100	2	<1	70	<100	.210	58	820	<100
21...	13	1500	--o	5	51	1	<3	97	<300	.220	57	510	<300
MAR													
02...	5	1000	--o	4	21	2	<1	140	<100	.059	13	360	<100
23...	11	2100	--o	4	39	2	<1	60	<100	.150	42	650	<100
APR													
07...	17	2500	.39	8	44	2	<1	310	<100	.160	44	380	<100
MAY													
04...	29	1300	--o	--o	--o	2	<.5	320	<50	.320	78	300	<50
17...	15	3600	.14	23	180	3	<1	230	<100	.360	76	450	<100
JUN													
07...	29	2600	.32	22	110	2	<2	190	<150	.640	59	480	<150
JUL													
13...	31	3300	.23	16	110	2	<1	200	<100	.400	92	560	<100
AUG													
19...	12	940	--o	--x	--x	3	2	470	<100	.110	43	190	<100
SEP													
16-16	38	2600	--o	5	40	2	2	140	<200	.540	110	580	<200
SEP													
16-16	37	1500	--o	<7	42	1	<4	150	<350	.530	120	460	<350
SEP													
16-16	29	980	.11	2	36	M	<1	72	<100	.530	96	250	<100
22...	27	2100	--o	23	140	2	1	310	<50	.320	65	280	<50

Date	Suspnd. sedimnt conc, flow through cntrfug mg/L (50279)
OCT	
16...	.2
JAN	
05...	4
21...	.9
MAR	
02...	3
23...	2
APR	
07...	2
MAY	
04...	2
17...	2
JUN	
07...	3
JUL	
13...	2
AUG	
19...	1
SEP	
16-16	167
SEP	
16-16	99
SEP	
16-16	607
22...	2

**APALACHICOLA RIVER BASIN
2004 Water Year**

**02336228 LULLWATER CREEK AT LULLWATER PARKWAY, AT ATLANTA, GA—
continued.**

Remark codes used in this table:

< -- Less than
> -- Greater than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this table:

@ -- Holding time exceeded
c -- See laboratory comment
k -- Counts outside acceptable range
m -- Value is highly variable by this method
n -- Below the LRL and above the LT-MDL
t -- Below the long-term MDL

Null value qualifier codes used in this table:

o -- Insufficient amount of water
u -- Unable to determine-matrix interference
x -- Result failed quality assurance review