

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°06'54", long 78°52'09", Durham County, Hydrologic Unit 03020201, at dam 7.5 mi below State Highway 501, and 4.0 mi south of Bahama.

DRAINAGE AREA.--97.7 mi².

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sam-pling depth, meters (00098)	Trans-parency Secchi disc, meters (00078)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
25...	0915	9	20	1.0	.80	755	4.6	50	6.7	90	19.6	27	6.39
25...	0920	9	--	11.0	--	755	4.7	52	6.7	85	19.6	--	--
25...	0925	9	--	20.0	--	755	.3	3	7.7	220	15.1	--	--
APR													
14...	0930	9	38	1.0	.90	754	9.5	95	7.3	72	14.9	24	5.59
14...	0935	9	--	12.0	--	754	4.6	39	6.5	75	7.8	--	--
14...	0940	9	--	22.0	--	754	4.6	39	6.4	77	7.3	--	--
JUN													
23...	1030	9	30	1.0	.90	759	6.8	81	7.1	87	23.9	26	6.05
23...	1035	9	--	11.0	--	759	1.1	12	6.4	90	19.6	--	--
23...	1040	9	--	22.0	--	759	.1	1	6.4	113	8.8	--	--
AUG													
11...	1130	9	20	1.0	.90	751	4.5	59	6.8	88	28.3	26	6.26
11...	1131	R	--	1.0	.90	751	4.5	59	6.8	88	28.3	--	--
11...	1132	R	--	1.0	.90	751	4.5	59	6.8	88	28.3	--	--
11...	1133	R	--	1.0	.90	751	4.5	59	6.8	88	28.3	--	--
11...	1134	R	--	1.0	.90	751	4.5	59	6.8	88	28.3	--	--
11...	1135	9	--	11.0	--	751	.1	2	6.6	104	26.1	--	--
11...	1140	9	--	21.0	--	751	.2	2	6.9	163	9.7	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, titr., mg/L as CaCO3 (00419)	Bicar-bonate, wat unfltrd, titr., mg/L (00450)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
OCT													
25...	2.61	2.21	5.11	24	30	5.95	E.1	9.52	3.4	73	.43	.031	.183
25...	--	--	--	--	--	--	--	--	--	--	.45	.033	.189
25...	--	--	--	--	--	--	--	--	--	--	.59	.154	.121
APR													
14...	2.35	1.52	4.87	19	24	5.73	E.1	8.65	5.5	55	E.66	<.010	.152
14...	--	--	--	--	--	--	--	--	--	--	E.41	E.005	.376
14...	--	--	--	--	--	--	--	--	--	--	E.86	.071	.402
JUN													
23...	2.53	1.65	5.09	22	27	6.04	E.1	7.77	4.6	65	.58	E.009	E.013
23...	--	--	--	--	--	--	--	--	--	--	.53	.100	.107
23...	--	--	--	--	--	--	--	--	--	--	.87	.399	.134
AUG													
11...	2.62	1.67	5.22	26	32	5.94	E.1	5.94	3.6	63	.50	.038	<.032
11...	--	--	--	26	--	--	--	--	--	--	--	--	--
11...	--	--	--	26	--	--	--	--	--	--	--	--	--
11...	--	--	--	26	--	--	--	--	--	--	--	--	--
11...	--	--	--	26	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	.43	<.010	<.016
11...	--	--	--	--	--	--	--	--	--	--	1.3	.865	<.032

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT 25...	.002	<.006	.023	9.9	E1.2	<.1	23	<2	<.04	<.8	.143	.9	140
25...	.002	<.006	.023	--	--	--	--	--	--	--	--	--	150
25...	.004	<.006	.027	--	--	--	--	--	--	--	--	--	310
APR 14...	.004	<.006	.043	9.0	2.8	<.1	89	<2	<.04	<.8	.149	1.5	370
14...	E.001	<.006	.034	--	--	--	--	--	--	--	--	--	500
14...	.002	E.005	.060	--	--	--	--	--	--	--	--	--	1,020
JUN 23...	.003	<.02	.037	7.4	10.2	<.1	--	--	--	--	--	--	130
23...	.020	<.02	.019	--	--	--	--	--	--	--	--	--	170
23...	.022	<.02	.078	--	--	--	--	--	--	--	--	--	1,750
AUG 11...	<.004	<.012	.030	7.0	5.1	<.1	14	<2	<.04	<.8	.108	1.2	100
11...	--	--	--	--	5.2	<.1	--	--	--	--	--	--	--
11...	--	--	--	--	6.1	<.1	--	--	--	--	--	--	--
11...	--	--	--	--	3.2	<.1	--	--	--	--	--	--	--
11...	--	--	--	--	7.0	<.1	--	--	--	--	--	--	--
11...	<.002	<.04	.020	--	--	--	--	--	--	--	--	--	130
11...	E.002	<.012	.039	--	--	--	--	--	--	--	--	--	4,300

Date	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molybdenum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT 25...	.07	261	.03	E.1	.32	.8	<.16	E2
25...	--	267	--	--	--	--	--	--
25...	--	731	--	--	--	--	--	--
APR 14...	.19	34	.01	<.2	.39	.6	<.16	E2
14...	--	98.5	--	--	--	--	--	--
14...	--	656	--	--	--	--	--	--
JUN 23...	--	109	--	--	--	--	--	--
23...	--	241	--	--	--	--	--	--
23...	--	4,480	--	--	--	--	--	--
AUG 11...	<.06	300	--	E.1	.23	.7	<.16	E1
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	429	--	--	--	--	--	--
11...	--	7,100	--	--	--	--	--	--

Remark codes used in this table:
 < -- Less than.
 E -- Estimated.

Medium codes used in this table:
 9 -- Surface water sample.
 R -- Quality-control sample, surface water.

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