

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 mi<sup>2</sup>.

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 2003 TO SEPTEMBER 2004

Date	Time	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)	Magnes-ium, water, fltrd, mg/L (00925)
OCT													
29...	1030	62	1.0	1.40	750	4.5	48	6.8	70	17.8	23	5.58	2.21
29...	1035	--	13.0	--	750	4.5	49	6.8	70	17.8	--	--	--
29...	1040	--	23.0	--	750	.2	2	7.5	212	10.1	--	--	--
APR													
07...	1215	25	1.0	1.00	745	9.9	99	7.5	82	13.9	28	6.55	2.72
07...	1220	--	11.0	--	745	6.8	59	6.6	79	8.2	--	--	--
07...	1225	--	21.7	--	745	5.6	48	6.5	80	7.4	--	--	--
JUN													
29...	1115	25	1.0	1.10	757	6.2	77	7.2	90	25.8	27	6.64	2.60
29...	1120	--	11.0	--	757	.1	2	6.8	96	22.5	--	--	--
29...	1125	--	20.8	--	757	.3	2	6.9	125	8.6	--	--	--
AUG													
18...	1045	25	1.0	1.00	753	3.8	47	6.9	88	25.7	27	6.90	2.47
18...	1050	--	11.0	--	753	1.0	13	6.8	83	24.0	--	--	--
18...	1055	--	22.0	--	753	.2	2	7.4	392	10.2	--	--	--

Date	Potas-sium, 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)	Nitrite water, fltrd, mg/L as N (00613)
OCT													
29...	2.27	3.48	22	26	3.98	<.2	10.1	3.1	58	.46	.048	.286	E.001
29...	--	--	--	--	--	--	--	--	--	.54	.145	.238	.002
29...	--	--	--	--	--	--	--	--	--	5.8	3.72	E.015	.010
APR													
07...	1.67	5.89	23	28	7.45	<.2	7.03	3.7	66	.37	.023	.220	.003
07...	--	--	--	--	--	--	--	--	--	.35	.024	.371	<.002
07...	--	--	--	--	--	--	--	--	--	.48	.107	.369	<.002
JUN													
29...	1.62	5.87	27	33	7.42	<.2	7.15	4.5	63	.42	E.009	E.009	<.002
29...	--	--	--	--	--	--	--	--	--	.42	.111	<.016	<.002
29...	--	--	--	--	--	--	--	--	--	1.2	.734	.028	.002
AUG													
18...	1.69	5.01	28	34	6.62	<.2	8.01	3.7	53	.48	.038	.079	.053
18...	--	--	--	--	--	--	--	--	--	2.6	2.05	<.016	.005
18...	--	--	--	--	--	--	--	--	--	.59	.129	.090	.033

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

Date	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)	Lead, water, unfltrd recover-able, ug/L (01051)
OCT													
29...	<.006	.030	7.3	1.6	<.1	67	<2	<.04	<.8	.207	1.2	340	.22
29...	<.006	.031	--	--	--	--	--	--	--	--	--	380	--
29...	.007	.45	--	--	--	--	--	--	--	--	--	32,800	--
APR													
07...	<.006	.021	6.1	2.9	<.1	42	<2	<.04	<.8	.098	.9	230	.06
07...	<.006	.024	--	--	--	--	--	--	--	--	--	390	--
07...	<.006	.039	--	--	--	--	--	--	--	--	--	930	--
JUN													
29...	<.006	.024	5.9	--	--	--	--	--	--	--	--	90	--
29...	<.006	.018	--	--	--	--	--	--	--	--	--	90	--
29...	.012	.055	--	--	--	--	--	--	--	--	--	2,300	--
AUG													
18...	<.006	.025	6.2	E5.7	E.7	--	--	--	--	--	--	180	--
18...	E.003	.035	--	--	--	--	--	--	--	--	--	360	--
18...	E.003	.028	--	--	--	--	--	--	--	--	--	8,120	--

Date	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)
OCT						
29...	348	<.02	E.1	E.46	E.2	<.16
29...	1,110	--	--	--	--	--
29...	15,300	--	--	--	--	--
APR						
07...	27.8	.29	<.2	.25	<.4	<.16
07...	123	--	--	--	--	--
07...	593	--	--	--	--	--
JUN						
29...	176	--	--	--	--	--
29...	908	--	--	--	--	--
29...	6,220	--	--	--	--	--
AUG						
18...	480	--	--	--	--	--
18...	871	--	--	--	--	--
18...	14,600	--	--	--	--	--

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

