

LOCATION.--Lat 36°09'02", long 78°49'49", Durham County, Hydrologic Unit 03020201, at dam 3.0 mi southeast of Bahama.

DRAINAGE AREA.--167 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 2001 TO SEPTEMBER 2002

Date	Time	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SAMPLING DEPTH (M) (00098)	TRANSPAR-ENCY (SECCHI DISK) (M) (00078)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (MG/L) (00301)	PH WATER FIELD (STAND-ARD UNITS) (00400)	SPE-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE (DEG C) (00010)	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV													
05...	1100	30	1.0	.60	766	8.5	86	8.0	65	16.5	22	5.03	2.23
05...	1105	--	5.0	--	766	4.2	41	6.8	66	15.0	--	--	--
05...	1110	--	9.5	--	766	1.7	15	6.8	90	10.0	--	--	--
APR													
23...	1030	25	1.0	1.30	766	8.3	96	7.6	84	22.9	24	5.73	2.47
23...	1035	--	6.0	--	766	4.0	38	6.3	84	13.1	--	--	--
23...	1040	--	12.5	--	766	2.8	24	6.2	84	8.4	--	--	--
JUN													
19...	0930	20	1.0	1.20	760	5.3	66	7.2	93	26.2	26	5.95	2.69
19...	0935	--	5.0	--	760	.1	0	6.4	94	15.2	--	--	--
19...	0940	--	9.0	--	760	.2	1	6.4	90	9.5	--	--	--
AUG													
15...	0900	35	1.0	.40	762	7.2	90	8.3	90	26.6	27	6.05	2.82
15...	0905	--	3.0	--	762	.1	1	6.4	101	16.7	--	--	--
15...	0910	--	6.0	--	762	.2	1	6.3	97	8.9	--	--	--

Date	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	BICAR-BONATE (MG/L AS HCO3) (99440)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00613)
NOV													
05...	2.41	4.09	36	44	4.26	<.1	8.2	3.4	58	<.015	.63	<.013	<.002
05...	--	--	--	--	--	--	--	--	--	<.015	.60	<.013	<.002
05...	--	--	--	--	--	--	--	--	--	.793	1.4	<.013	E.002
APR													
23...	1.92	6.24	19	23	7.13	<.1	8.2	6.9	42	E.010	.47	E.012	E.002
23...	--	--	--	--	--	--	--	--	--	.064	.42	.138	E.002
23...	--	--	--	--	--	--	--	--	--	.018	.35	.517	<.002
JUN													
19...	2.05	6.34	22	27	7.19	E.1	8.4	6.0	67	<.015	.45	<.013	<.002
19...	--	--	--	--	--	--	--	--	--	.020	.42	<.013	<.002
19...	--	--	--	--	--	--	--	--	--	.105	.45	.391	.011
AUG													
15...	2.39	6.55	23	28	6.85	E.1	9.6	5.7	51	<.015	.97	<.013	<.002
15...	--	--	--	--	--	--	--	--	--	E.012	.85	<.013	<.002
15...	--	--	--	--	--	--	--	--	--	.364	.83	.067	.020

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
NOV													
05...	<.007	<.06	9.6	29.8	<.1	30	<4	<.1	<.8	<2.0	E1.0	230	<1
05...	<.007	<.06	--	--	--	--	--	--	--	--	--	270	--
05...	.008	E.05	--	--	--	--	--	--	--	--	--	5770	--
APR													
23...	<.007	<.06	8.1	4.2	<.1	40	<2	<.1	<.8	<2.0	1.7	190	<1
23...	<.007	<.06	--	--	--	--	--	--	--	--	--	290	--
23...	<.007	<.06	--	--	--	--	--	--	--	--	--	490	--
JUN													
19...	<.007	<.06	8.0	3.0	<.1	--	--	--	--	--	--	100	--
19...	<.007	<.06	--	--	--	--	--	--	--	--	--	390	--
19...	<.007	E.04	--	--	--	--	--	--	--	--	--	1100	--
AUG													
15...	<.007	--	9.5	E21.6	<.1	--	--	--	--	--	--	M	--
15...	<.007	--	--	--	--	--	--	--	--	--	--	210	--
15...	E.005	--	--	--	--	--	--	--	--	--	--	1690	--

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	MANGA-NESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL RECOVERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
NOV 05...	68.0	.01	<2	<2.0	<4	<.3	<20
NOV 05...	98.5	--	--	--	--	--	--
NOV 05...	1520	--	--	--	--	--	--
APR 23...	17.9	E.01	<2	<2.0	<2	<.3	<20
APR 23...	43.7	--	--	--	--	--	--
APR 23...	233	--	--	--	--	--	--
JUN 19...	46.4	--	--	--	--	--	--
JUN 19...	578	--	--	--	--	--	--
JUN 19...	520	--	--	--	--	--	--
AUG 15...	E2.8	--	--	--	--	--	--
AUG 15...	392	--	--	--	--	--	--
AUG 15...	1140	--	--	--	--	--	--

Remark codes used in this report:  
 < -- Less than  
 E -- Estimated value  
 M -- Presence verified, not quantified

