

NEUSE RIVER BASIN

02087701 LAKE BENSON AT DAM NEAR GARNER, NC

LOCATION.--Lat 35°39'44", long 78°36'52", Wake County, Hydrologic Unit 03020201, at dam 1.5 mi below Reedy Branch, and 3.3 mi south of Garner.

DRAINAGE AREA.--67.0 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1990 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in October 1994 and April 1995. Results may be obtained from the District office in Raleigh. 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 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET) (000003)	SPECIFIC CONDUCTANCE (US/CM) (000095)	PH WATER FIELD (STANDARD) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT) (00080)	BAROMETRIC PRESSURE (MM HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, SATURATION (PERCENT) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)
DEC 06...	0945	1.00	64	6.9	13.0	25	745	0.95	9.2	89	18
MAY 01...	1400	1.00	75	7.1	22.0	25	747	1.10	7.3	85	22
JUN 16...	1100	1.00	53	6.5	23.5	120	758	0.45	4.3	51	16

DATE	CALCIUM DISSOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DISSOLVED (MG/L AS Mg) (00925)	SODIUM, DISSOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (99440)	ALKALINITY, CARBONATE (MG/L - CAC03) (99430)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
DEC 06...	4.1	1.9	4.3	30	0.4	3.2	22	18	4.5	5.0	<0.10
MAY 01...	5.2	2.1	4.4	28	0.4	2.3	28	23	3.3	5.2	<0.10
JUN 16...	3.9	1.5	2.9	25	0.3	2.1	16	14	3.7	3.4	<0.10

DATE	SILICA, DISSOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DISSOLVED (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
DEC 06...	4.7	50	<0.010	<0.050	<0.015	0.40	--	0.40	0.20	0.40	0.020
MAY 01...	2.4	48	<0.010	<0.050	<0.015	0.50	--	0.50	0.40	0.50	0.020
JUN 16...	5.4	50	<0.010	<0.050	0.020	0.58	0.38	0.60	0.40	0.60	0.060

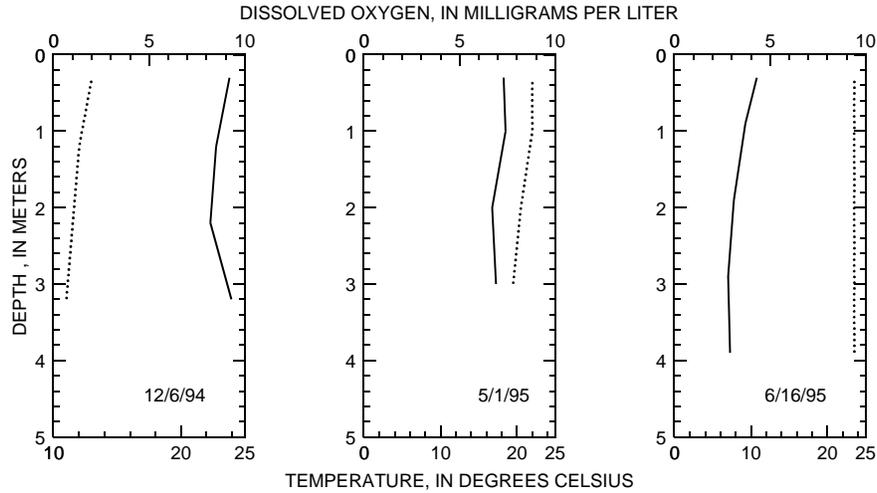
NEUSE RIVER BASIN

02087701 LAKE BENSON AT DAM NEAR GARNER, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	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 TOTAL RECOV- ERABLE (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)
DEC 06...	<0.010	<0.010	5.20	<0.100	100	<1	<1	<1	<1	4
MAY 01...	0.010	<0.010	6.70	0.300	90	<1	<1	<1	<1	2
JUN 16...	<0.010	0.020	11.0	0.800	310	<1	<1	<1	<1	2

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
DEC 06...	330	<1	70	<0.10	<1	<1	<1	<1	<10	7.5
MAY 01...	430	<1	70	<0.10	<1	1	<1	<1	<10	8.4
JUN 16...	870	<1	120	<0.10	<1	<1	<1	<1	<10	11



EXPLANATION  
 ——— DISSOLVED OXYGEN      ..... WATER TEMPERATURE