

NEUSE RIVER BASIN

0208718195 (revised) FALLS LAKE ABOVE DAM AT FALLS, NC

LOCATION.--Lat 35°56'28", long 78°35'02", Wake County, Hydrologic Unit 03020201, 0.05 mi above dam, and 0.5 mi northwest of Falls.

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. A GC/FID scan for trace organic compounds was performed on samples collected in October 1994 and May 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) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRES-SURE (MM OF HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)
OCT 17...	1345	1.00	105	7.0	19.0	22	758	0.75	4.8	52	28
MAY 17...	1515	1.00	87	7.1	23.5	23	745	1.05	8.0	97	22
JUN 28...	1120	1.00	88	7.9	27.0	26	750	1.35	7.9	101	23

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORPTION RATIO PERCENT (00932)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (99440)	ALKALINITY, CARBONATE (MG/L - CAC03) (99430)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	
OCT 17...	6.8	2.7	8.0	36	0.7	2.3	46	38	6.8	6.7	0.10
MAY 17...	5.3	2.2	6.6	37	0.6	2.1	22	18	9.0	6.7	0.10
JUN 28...	5.4	2.2	6.5	36	0.6	2.1	26	21	9.0	6.3	0.10

DATE	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 17...	5.3	50	<0.010	<0.050	0.260	0.34	0.24	0.60	0.50	0.60	<0.010
MAY 17...	4.9	62	<0.010	<0.050	0.030	0.37	0.37	0.40	0.40	0.40	<0.010
JUN 28...	4.2	56	<0.010	<0.050	0.030	0.47	0.27	0.50	0.30	0.50	0.010

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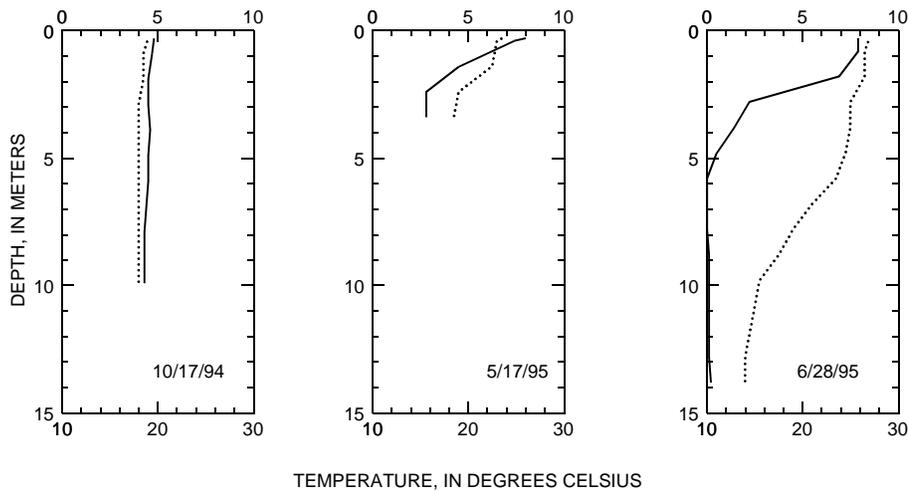
0208718195 (revised) FALLS LAKE ABOVE DAM AT FALLS, NC--Continued

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 RECOV- ERABLE (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)
OCT 17...	<0.010	<0.010	3.50	0.400	110	<1	<1	<1	<1	<1
MAY 17...	<0.010	<0.010	14.0	0.500	60	<1	<1	<1	<1	2
JUN 28...	<0.010	<0.010	15.0	0.800	30	<1	<1	<1	<1	<1

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)
OCT 17...	640	<1	1000	<0.10	<1	1	<1	<1	<10	6.1
MAY 17...	140	<1	40	<0.10	<1	<1	<1	<1	<10	9.3
JUN 28...	40	<1	<10	<0.10	<1	<1	<1	<1	<10	8.4

DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER



TEMPERATURE, IN DEGREES CELSIUS

EXPLANATION

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

