

NEUSE RIVER BASIN

0208703650 FALLS LAKE AT STATE HIGHWAY 50 NEAR SANDY PLAIN, NC

LOCATION.--Lat 36°00'54", long 78°41'29", Wake County, Hydrologic Unit 03020201, at bridge on State Highway 50, and 3.3 mi south of Sandy Plain.

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/GID 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) (000003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESURE (MM OF HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (MG/L) (00301)	HARDNESS TOTAL AS CALCO3 (MG/L) (00900)
OCT 17...	1215	1.00	132	7.8	18.5	28	758	0.35	9.5	102	29
MAY 17...	1045	1.00	95	8.0	24.5	27	746	0.85	8.5	105	26
JUL 12...	0900	1.00	76	6.9	29.0	92	754	0.75	7.2	95	20

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 PERCENT (00932)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (99440)	ALKALINITY, CARBONATE (MG/L AS 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...	6.9	2.8	15	51	1	2.5	46	38	13	11	0.20
MAY 17...	6.3	2.4	7.4	36	0.6	2.2	24	20	9.4	6.8	<0.10
JUL 12...	5.0	1.9	5.6	35	0.5	2.2	23	19	6.4	5.0	<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, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 17...	5.2	82	<0.010	<0.050	<0.015	0.60	0.60	0.30	0.60	0.010
MAY 17...	3.9	54	<0.010	<0.050	<0.015	0.50	0.50	0.40	0.50	<0.010
JUL 12...	5.9	62	<0.010	<0.050	<0.015	0.70	0.70	0.40	0.70	0.020

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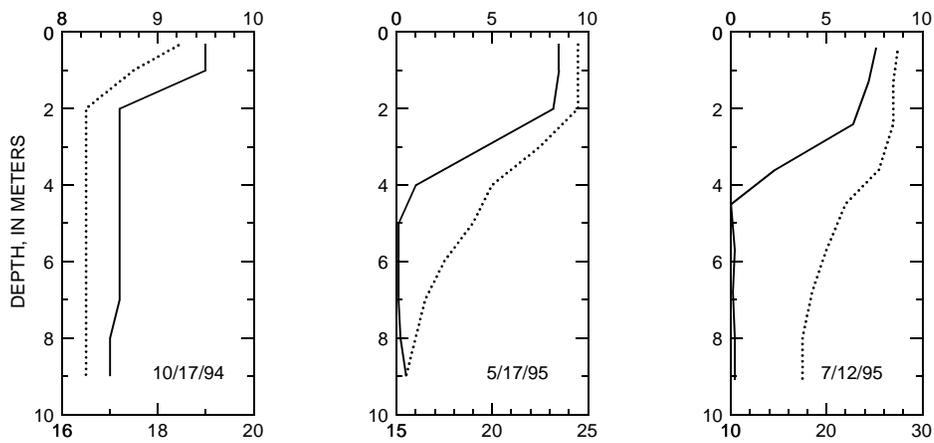
0208703650 FALLS LAKE AT STATE HIGHWAY 50 NEAR SANDY PLAIN, NC--Continued

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)
OCT 17...	<0.010	<0.010	19.0	1.60	140	1	<1	<1	<1	<1
MAY 17...	0.010	<0.010	34.0	0.600	50	<1	<1	<1	<1	2
JUL 12...	<0.010	<0.010	10.0	0.900	60	<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)
OCT 17...	370	<1	250	<0.10	1	1	<1	<1	<10	7.8
MAY 17...	180	<1	60	<0.10	<1	<1	<1	1	<10	4.3
JUL 12...	320	<1	110	<0.10	<1	<1	<2	<1	<10	12

DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER



TEMPERATURE, IN DEGREES CELSIUS

EXPLANATION

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