454 NEUSE RIVER BASIN

## 02091814 NEUSE RIVER NEAR FORT BARNWELL, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 - 60, 1999 to September 2002 (discontinued).

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: September 1954 to September 1960.

WATER TEMPERATURE: September 1954 to September 1960.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS). Daily records of specific conductance for September 1954 to September 1960 are available in the files of the District Office in Raleigh, NC. Sample in September 1999 collected during flooding from Hurricane Floyd.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 673 microsiemens, Aug. 21, 1955; minimum daily, 39 microsiemens, Nov. 2, 1959.

WATER TEMPERATURE: Maximum daily, 35.0°C, June 28, 29, 1959; minimum daily, 0.0°C Jan. 13, 1955, Dec. 11, 1958.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT													
30 DEC	0805	691	778	9.8	90	7.1	171	12.4					E.30
19 FEB	0815	1080	767	10.5	97	6.9	137	12.2	16.3	8.4	9.9	E.03	.38
21 APR	0815	2430	765	9.8	89	6.3	117	11.0	13.3	5.5	10.5	E.04	.43
08	1205	8990		6.9		5.9	83	15.3	8.78	5.2	6.8	E.02	.46
JUN 27	0845	353	767	6.5	85	7.1	222	29.4	23.6	5.3	17.7	<.04	.37
JUL 25	0845	687	765	6.3	81	7.4	192	28.3	20.1	6.3	16.0	E.02	.35
AUG 22	0915	659	770	5.9	76	7.3	220	28.6	24.9	3.5	20.9	.08	.38
SEP 19	0845	1120	766	6.0	72	7.0	171	25.3	16.7	8.8	16.8	.05	.48
Date	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
OCT	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	GEN DIS- SOLVED (MG/L AS N)	GEN, NITRATE DIS- SOLVED (MG/L AS N)	GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS NO2)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, ORGANIC DIS- SOLVED (MG/L AS N)	GEN, ORGANIC TOTAL (MG/L AS N)	GEN, TOTAL (MG/L AS N)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHORUS DIS- SOLVED (MG/L AS P) (00666)
OCT 30 DEC	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	GEN DIS- SOLVED (MG/L AS N) (00602)	GEN, NITRATE DIS- SOLVED (MG/L AS N)	GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, ORGANIC DIS- SOLVED (MG/L AS N)	GEN, ORGANIC TOTAL (MG/L AS N)	GEN, TOTAL (MG/L AS N) (00600)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	PHORUS DIS- SOLVED (MG/L AS P) (00666)
OCT 30	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	GEN DIS- SOLVED (MG/L AS N)	GEN, NITRATE DIS- SOLVED (MG/L AS N)	GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS NO2)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, ORGANIC DIS- SOLVED (MG/L AS N)	GEN, ORGANIC TOTAL (MG/L AS N)	GEN, TOTAL (MG/L AS N)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHORUS DIS- SOLVED (MG/L AS P) (00666)
OCT 30 DEC 19 FEB 21	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	GEN DIS- SOLVED (MG/L AS N) (00602)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, TOTAL (MG/L AS N) (00600)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	PHORUS DIS- SOLVED (MG/L AS P) (00666)
OCT 30 DEC 19 FEB 21 APR 08	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)  E.30	GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	GEN DIS- SOLVED (MG/L AS N) (00602)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, TOTAL (MG/L AS N) (00600)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.04
OCT 30 DEC 19 FEB 21 APR 08 JUN 27	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)  E.30 .49 .53	GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	GEN DIS- SOLVED (MG/L AS N) (00602)	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)55	GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, TOTAL (MG/L AS N) (00600)	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.04 .072
OCT 30 DEC 19 FEB 21 APR 08 JUN 27 JUL 25	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)  E.30 .49 .53 .60	GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	GEN DIS- SOLVED (MG/L AS N) (00602)92 1.1	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 55 .69	GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)  E.005 <.008	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, TOTAL (MG/L AS N) (00600)  1.0 1.2	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)  .159 .058	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.04 .072 .035
OCT 30 DEC 19 FEB 21 APR 08 JUN 27 JUL JUL	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)  E.30 .49 .53 .60 .47	GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	GEN DIS- SOLVED (MG/L AS N) (00602) 92 1.1 .70 .58	GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 55 .69 .23	GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)  E.005 <.008 <.008	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, TOTAL (MG/L AS N) (00600)  1.0 1.2 .84	PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)  .159 .058	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.04 .072 .035 .050

## 455 NEUSE RIVER BASIN

## 02091814 NEUSE RIVER NEAR FORT BARNWELL, NC--Continued

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

Date	DIS- SOLVED (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	DIS- SOLVED (UG/L AS FE)
OCT			
30 DEC		E.10	
19	.05	.136	505
FEB			
21 APR	.02	.073	391
08	.03	.100	552
JUN 27	.07	.131	120
25	.07	.146	174
AUG 22 SEP	.07	.102	124
19	.09	.166	888