454 NEUSE RIVER BASIN

353354077343401 TILE DRAIN (MS2-T2) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC

LOCATION.--Lat 35°33′53.6", long 77°34′34.3", North American Datum of 1983, Pitt County, Hydrologic Unit 03020203, approximately 0.3 mi south of U.S. Highway 264A and 1.7 mi southeast of Marlboro.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD. -- August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
SEP 2000 29 DEC	1105	9.9	6.8	77	4.2	132	21.6	33	9.90	1.90	3.70	3.4	12.0
11	1415	5.0	9.4	85	4.4	143	10.9	38	11.0	2.60	1.90	5.2	12.0
FEB 2001 26	1108	2.3	10.5	91	4.2	148	9.5	39	11.0	2.80	1.40	6.4	12.0
APR 02	1700	13.1	9.4	86	4.3	159	11.3	44	13.0	2.70	2.70	4.9	13.0
JUN 11	1725	.28	7.3	84	4.2	161	21.7	37	11.0	2.30	2.60	5.7	14.0
JUL 09	1505	1.8	6.5	74	4.2	162	21.9	40	12.0	2.50	3.20	4.8	16.0
DATE	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)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	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-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
SEP 2000 29	DIS- SOLVED (MG/L AS SO4)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	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)	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHORUS TOTAL (MG/L AS P)	ORGANIC DIS- SOLVED (MG/L AS C)
SEP 2000 29 DEC 11	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHORUS TOTAL (MG/L AS P) (00665)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)
SEP 2000 29 DEC 11 FEB 2001 26	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	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)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHORUS TOTAL (MG/L AS P) (00665)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)
SEP 2000 29 DEC 11 FEB 2001 26 APR 02	DIS- SOLVED (MG/L AS SO4) (00945) 21.0 30.0	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .050 <.010	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, TOTAL (MG/L AS N) (00600)	PHORUS DIS- SOLVED (MG/L AS P) (00666) <.020	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010	PHORUS TOTAL (MG/L AS P) (00665) <.020	ORGANIC DIS- SOLVED (MG/L AS C) (00681)
SEP 2000 29 DEC 11 FEB 2001 26	DIS- SOLVED (MG/L AS SO4) (00945) 21.0 30.0	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .050 <.010 <.010	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .30 <.20	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .22 <.20 .30	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) 2.60 2.00	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.010 <.010	GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, TOTAL (MG/L AS N) (00600) 2.8 	PHORUS DIS- DIS- SOLVED (MG/L AS P) (00666) <.020 <.020	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.010 <.010	PHORUS TOTAL (MG/L AS P) (00665) <.020 <.020	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.8 1.4

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	(UG/L AS MN)
SEP 2000 29 DEC	30	13.0
11	M	15.0
FEB 2001 26 APR	20	16.0
02	20	17.0
JUN 11	160	25.0
09	10	16.0