

NEUSE RIVER BASIN

352108077490901 DRAINAGE DITCH (BC1-D1) TO BEAR CREEK NEAR SHADETOWN, NC

LOCATION.--Lat 35°21'40.6", long 77°49'08.9", North American Datum of 1983, Lenoir County, Hydrologic Unit 03020202, approximately 0.6 mi north of State Road 1501 and 1 mi northwest of Shadetown.

DRAINAGE AREA.--Indeterminate.

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 drainage ditches 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 FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS NONCARB DISSOLV LAB AS CAC03 (MG/L) (00905)	HARD- NESS TOTAL (MG/L AS CAC03) (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)
AUG 2000													
29...	1345	37.2	4.4	52	5.7	126	23.4	25	37	9.60	3.20	2.70	5.4
SEP													
25...	1405	171	3.0	34	5.3	150	22.3	37	43	11.0	3.80	3.00	5.5
OCT													
23...	1230	34.6	6.8	69	5.5	122	16.8	29	37	9.80	3.00	1.70	5.8
NOV													
14...	0935	31.6	7.3	71	5.8	126	13.5	22	37	9.40	3.30	3.10	5.7
DEC													
13...	1145	104	9.4	83	5.4	135	11.0	36	40	11.0	3.00	1.80	5.7
JAN 2001													
16...	1200	82.9	9.6	96	5.2	137	15.2	36	40	11.0	3.00	1.80	5.9
FEB													
07...	1045	81.3	10	93	5.1	137	12.6	37	40	11.0	3.10	1.80	5.9
28...	1150	64.7	10.0	96	5.0	135	13.3	34	37	10.0	2.90	1.80	5.8
APR													
04...	1100	116	9.6	90	5.1	136	13.1	37	40	11.0	3.10	1.80	5.9
MAY													
03...	1210	77.6	9.7	109	5.2	127	21.4	34	37	10.0	2.80	1.40	5.9
JUN													
12...	1500	51.8	8.9	120	5.5	125	30.3	31	36	9.80	2.70	1.50	5.9
JUL													
11...	1310	46.3	7.6	100	5.8	128	28.4	29	36	9.70	2.90	2.10	6.0
AUG													
16...	1410	66.9	7.6	98	5.6	128	28.9	30	37	9.90	3.00	2.00	5.9
DATE	ALKA- LINITY WAT.DIS FET LAB CAC03 (MG/L) (29801)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	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, NITRATE DIS- SOLVED (MG/L AS N) (00618)	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)
AUG 2000													
29...	12	14.0	19.0	61	.020	.23	.32	--	<.020	<.010	.21	.30	--
SEP													
25...	7	14.0	26.0	75	.280	.54	.91	1.58	1.60	.020	.26	.63	2.5
OCT													
23...	8	14.0	20.0	63	.020	.25	.27	--	.820	<.010	.23	.25	1.1
NOV													
14...	15	15.0	17.0	63	.030	.35	.39	--	.030	<.010	.32	.36	.42
DEC													
13...	3	13.0	25.0	72	.116	<.20	<.20	--	2.30	<.010	--	--	--
JAN 2001													
16...	4	13.0	25.0	73	.050	<.20	<.20	--	2.50	<.010	--	--	--
FEB													
07...	3	13.0	25.0	73	.060	<.20	.28	--	2.50	<.010	--	.22	2.8
28...	3	13.0	25.0	72	.082	.22	.30	--	2.50	<.010	.14	.22	2.8
APR													
04...	3	13.0	26.0	87	.046	<.20	<.20	--	5.50	<.010	--	--	--
MAY													
03...	3	13.0	24.0	67	.018	.22	.27	--	1.70	<.010	.20	.25	2.0
JUN													
12...	4	13.0	23.0	64	.038	.23	.41	--	1.20	<.010	.19	.37	1.6
JUL													
11...	7	13.0	22.0	65	.063	.20	.48	--	1.10	<.010	.14	.42	1.6
AUG													
16...	7	13.0	24.0	67	.068	<.20	.50	--	1.00	<.010	--	.43	1.5

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

DATE	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
AUG 2000						
29...	.040	.030	.110	2.5	60	36.0
SEP						
25...	.050	.050	.270	3.1	420	37.0
OCT						
23...	.020	<.010	.050	2.4	50	8.7
NOV						
14...	.030	.020	.050	2.1	30	8.0
DEC						
13...	.100	.020	.170	1.7	300	45.0
JAN 2001						
16...	.060	<.010	.180	.90	150	43.0
FEB						
07...	<.020	.020	.140	1.2	180	43.0
28...	.060	.040	.160	1.0	160	42.0
APR						
04...	.060	.060	.120	1.9	140	44.0
MAY						
03...	.050	.040	.100	2.2	30	37.0
JUN						
12...	.060	.070	.170	1.8	140	41.0
JUL						
11...	.060	.040	.160	3.6	110	42.0
AUG						
16...	.050	.040	.220	2.2	140	41.0