

353110077330901 TILE DRAIN (MS4-T1) MIDDLE SWAMP TRIBUTARY NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'09.6", long 77°33'08.9", Greene County, Hydrologic Unit 03020203, approximately 0.25 mi east of Secondary Road 1345 and 1.1 mi west-northwest of Willow Green.

DRAINAGE AREA.-- Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001, February 2003 to September 2003.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources to examine nutrient loadings from subsurface tile drains as part of the Lizzie research site water-quality monitoring project.

WATER-QUALITY DATA, FEBRUARY TO SEPTEMBER 2003

Date	Time	Flow rate, instantaneous gal/min (00059)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
FEB 08...	1805	3.2	768	11.0	93	4.5	190	--	8.5	52	14.3	3.88	2.47
MAR 07...	1820	22.4	762	8.3	72	4.8	201	--	10.4	64	17.6	4.89	3.74
MAR 21...	1740	34.1	756	9.2	86	4.0	222	--	12.2	--	--	--	--
APR 08...	1440	4.1	773	10.1	96	4.5	200	10.5	13.8	54	14.9	4.00	2.62
MAY 06...	1545	18.8	766	9.6	97	4.8	240	29.0	15.6	69	18.8	5.31	5.10
MAY 20...	1645	15.6	771	7.4	77	5.1	209	29.0	17.4	--	--	--	--
JUN 04...	1925	5.7	760	7.4	77	5.0	222	25.0	17.6	62	17.2	4.65	4.03
AUG 22...	1440	5.2	767	7.3	75	4.8	262	34.0	16.9	64	17.8	4.83	4.61

Date	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Total nitrogen, water, fltrd, mg/L (00602)	Organic carbon, water, fltrd, mg/L (00681)
FEB 08...	5.71	--	15.8	--	22.9	0.10	<0.04	8.40	<0.008	<0.02	<0.004	8.5	--
MAR 07...	4.36	<2	19.4	--	29.9	0.17	<0.04	10.5	<0.008	<0.02	E.003	11	1.2
MAR 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 08...	5.74	--	15.7	--	22.9	0.17	<0.04	8.43	<0.008	<0.02	<0.004	8.6	--
MAY 06...	4.31	--	22.3	7.1	25.9	0.26	<0.04	10.2	<0.008	<0.02	E.004	10	--
MAY 20...	--	--	--	--	--	--	--	11.4	--	--	--	--	--
JUN 04...	5.02	--	18.6	--	22.5	0.12	<0.04	11.1	<0.008	--	<0.004	11	1.1
AUG 22...	4.63	--	18.0	--	25.9	0.22	<0.04	10.1	<0.008	<0.02	E.003	10	--

Date
Iron, water, fltrd, ug/L (01046)

FEB 08...	<10
MAR 07...	E7
MAR 21...	--
APR 08...	<10
MAY 06...	<10
MAY 20...	--
JUN 04...	<8
AUG 22...	E7