

353125077332501 TILE DRAIN (MS4-T2) MIDDLE SWAMP TRIBUTARY NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'25.2", long 77°33'24.5", Greene County, Hydrologic Unit 03020203, approximately 0.1 mi west of Secondary Road 1345 and 1.5 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 unfiltered 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...	1230	13.0	768	10.5	88	4.0	690	--	8.0	140	34.8	13.0	26.7
18...	1500	38.5	--	9.7	80	4.2	632	--	7.6	--	--	--	--
MAR													
07...	1615	44.5	772	8.6	69	4.7	526	--	6.4	110	27.6	10.2	32.1
21...	1555	109	756	5.7	54	4.5	414	--	12.3	--	--	--	--
APR													
08...	1145	6.7	775	9.2	86	4.3	582	8.0	13.2	110	28.2	10.5	33.6
MAY													
06...	1135	50.9	763	7.6	77	4.5	554	27.0	15.2	96	24.1	8.70	43.2
20...	1505	11.0	772	7.2	72	4.6	558	28.0	15.3	--	--	--	--
JUN													
04...	1430	5.8	763	7.1	74	4.7	570	27.0	17.0	120	30.7	11.5	29.2
JUL													
02...	1520	113	763	6.3	71	4.6	659	27.0	21.2	--	--	--	--
AUG													
22...	0900	9.5	767	3.1	35	4.4	538	28.5	22.9	100	25.0	10.1	31.6

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)	Organic nitrogen, water, fltrd, mg/L (00607)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)
FEB													
08...	27.1	--	74.1	--	15.7	0.42	0.13	42.5	<0.008	0.29	--	E.01	0.014
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
07...	21.7	<2	57.9	--	18.6	0.66	0.07	33.9	<0.008	0.59	0.058	0.02	0.031
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
08...	25.3	--	61.4	--	15.6	0.79	0.19	34.8	E.006	0.59	0.064	0.02	0.036
MAY													
06...	22.0	--	51.1	5.6	16.1	0.83	0.08	38.2	<0.008	0.75	--	<0.09	0.047
20...	--	--	--	--	--	--	--	39.1	--	--	--	--	--
JUN													
04...	22.6	--	58.1	--	14.7	0.35	<0.04	36.8	<0.008	--	--	--	0.013
JUL													
02...	--	--	--	--	--	0.82	<0.04	45.7	<0.008	--	--	<0.09	0.027
AUG													
22...	19.0	--	51.4	--	17.9	0.42	<0.04	31.6	<0.008	--	--	E.02	0.023

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WATER-QUALITY DATA, FEBRUARY TO SEPTEMBER 2003

Date	Total nitro- gen, water, fltrd, mg/L (00602)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, ug/L (01046)
FEB			
08...	43	--	<10
18...	--	--	--
MAR			
07...	35	3.6	16
21...	--	--	--
APR			
08...	36	--	E10
MAY			
06...	39	--	18
20...	--	--	--
JUN			
04...	37	2.0	E8
JUL			
02...	46	--	--
AUG			
22...	32	--	34