

353111077334901 TILE DRAIN (SR5-T1) TO TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'11.2", long 77°33'48.7", Greene County, Hydrologic Unit 03020203, approximately 0.25 mi north of Secondary Road 1335 and approximately 1.8 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...	1645	8.9	768	10.3	87	4.2	535	--	8.4	120	30.9	10.2	14.6	
18...	1730	17.3	--	9.2	--	4.4	442	--	7.6	--	--	--	--	
MAR														
07...	1235	16.9	772	9.0	71	4.7	405	--	6.0	89	23.0	7.71	15.1	
21...	1410	41.7	756	7.2	68	4.4	257	--	13.0	--	--	--	--	
APR														
08...	1610	10.4	772	8.8	84	4.4	495	8.0	13.6	110	27.5	9.09	18.3	
MAY														
06...	1410	39.4	764	7.8	79	4.4	527	32.0	16.2	100	25.2	8.96	40.9	
20...	1040	21.0	772	6.1	63	4.7	531	25.5	16.7	--	--	--	--	
JUN														
04...	1215	9.2	763	7.8	80	4.6	603	26.0	16.5	140	35.8	11.9	27.3	
JUL														
02...	1740	5.6	762	7.7	89	4.7	579	26.0	22.0	--	--	--	--	
AUG														
22...	1240	7.8	766	4.8	56	4.5	602	33.5	23.3	130	33.8	11.7	28.0	
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...	23.8	--	62.7	--	27.4	0.21	<0.04	27.9	<0.008	--	--	<0.02	0.004	
18...	--	--	--	--	--	--	--	--	--	--	--	--	--	
MAR														
07...	17.8	<2	43.1	--	28.8	0.39	<0.04	20.9	<0.008	--	--	<0.02	0.011	
21...	--	--	--	--	--	--	--	--	--	--	--	--	--	
APR														
08...	21.7	--	53.2	--	27.0	0.30	<0.04	26.0	<0.008	--	--	<0.02	0.007	
MAY														
06...	18.1	--	52.7	5.2	24.4	0.66	0.09	28.7	0.009	0.56	0.074	0.02	0.033	
20...	--	--	--	--	--	--	--	35.5	--	--	--	--	--	
JUN														
04...	22.7	--	61.6	--	25.1	0.26	<0.04	33.4	<0.008	--	--	--	0.010	
JUL														
02...	--	--	--	--	--	0.38	<0.04	35.4	<0.008	--	--	<0.09	0.014	
AUG														
22...	21.9	--	61.3	--	26.3	0.30	<0.04	34.0	<0.008	--	--	<0.02	0.011	

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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...	28	--	<10
18...	--	--	--
MAR			
07...	21	2.4	15
21...	--	--	--
APR			
08...	26	--	11
MAY			
06...	29	--	E8
20...	--	--	--
JUN			
04...	34	1.6	12
JUL			
02...	36	--	--
AUG			
22...	34	--	20