

353119077332001 MIDDLE DRAINAGE DITCH (MS4-D3) NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'18.7", long 77°33'20.0", Greene County, Hydrologic Unit 03020203, east of Secondary Road 1345 and 1.4 mi west-northwest of Willow Green.

DRAINAGE AREA.-- Indeterminate.

PERIOD OF RECORD.--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 field drainage ditches 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...	1435	14.3	768	8.9	75	3.9	590	--	8.3	130	34.6	10.7	19.6
18...	1620	39.3	--	7.8	--	4.7	522	--	8.2	--	--	--	--
MAR													
07...	1500	46.0	772	9.0	67	5.3	427	--	3.7	96	25.0	8.21	1.40
21...	1500	115	756	5.5	57	5.5	256	--	17.0	--	--	--	--
APR													
08...	1340	11.7	774	7.4	70	4.4	523	11.0	13.3	110	29.4	8.95	21.6
MAY													
06...	1610	40.8	765	8.3	78	4.8	568	26.5	12.1	100	26.1	8.33	32.9
20...	1420	12.9	772	6.3	64	4.6	487	27.0	16.8	--	--	--	--
JUN													
04...	1630	12.7	762	6.5	68	4.7	540	26.5	17.4	110	29.7	9.78	21.0
JUL													
02...	1430	109	763	5.5	64	5.3	339	23.5	22.0	--	--	--	--
AUG													
22...	1045	14.5	767	3.5	40	4.7	498	30.0	23.2	120	29.2	10.3	20.6
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 + org-N, water, unfltrd mg/L as N (00625)	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)	Organic nitrogen, water, unfltrd mg/L (00605)	Orthophosphate, water, fltrd, mg/L (00660)
FEB													
08...	25.7	--	73.0	--	18.6	0.49	0.43	0.14	32.4	<0.008	0.34	0.29	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
07...	15.9	<20	48.6	--	16.5	0.60	1.1	0.05	22.1	<0.008	0.55	1.0	0.086
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
08...	21.9	--	61.0	--	18.8	0.47	0.56	0.09	29.4	E.005	0.39	0.47	--
MAY													
06...	21.6	<2	52.1	5.9	15.8	0.78	1.3	0.06	30.5	E.004	0.72	1.3	0.196
20...	--	--	--	--	--	--	--	--	31.9	--	--	--	--
JUN													
04...	22.4	--	--	--	--	0.37	0.47	<4.10	E35.4	<0.800	--	--	--
JUL													
02...	--	--	--	--	--	1.4	1.7	0.07	20.5	0.008	1.3	1.6	--
AUG													
22...	19.6	--	55.8	--	17.5	0.45	0.61	0.05	27.4	E.005	0.40	0.55	0.110

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WATER-QUALITY DATA, FEBRUARY TO SEPTEMBER 2003

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, ug/L (01046)
FEB							
08...	E.01	0.015	0.023	33	33	--	20
18...	--	--	--	--	--	--	--
MAR							
07...	0.03	0.054	0.24	23	23	3.8	29
21...	--	--	--	--	--	--	--
APR							
08...	<0.02	0.015	0.044	30	30	--	57
MAY							
06...	0.06	0.109	0.33	31	32	--	31
20...	--	--	--	--	--	--	--
JUN							
04...	--	0.021	0.032	--	--	2.0	72
JUL							
02...	<0.09	0.087	0.35	22	22	--	--
AUG							
22...	0.04	0.056	0.107	28	28	--	80