

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

LOCATION.--Lat 35°31'19", long 77°33'20", 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 current year.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources and the U.S. Environmental Protection Agency to examine nutrient loadings from field drainage ditches as part of the Lizzie research site water-quality monitoring project.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 03...	1235	3.0	772	5.4	59	4.7	554	18.0	19.9	--	--	--	--
FEB 11...	1000	6.2	770	8.6	73	4.1	546	10.5	8.5	120	32.3	10.1	16.4
AUG 15...	1505	250	768	5.7	64	5.6	154	21.5	22.0	26	6.57	2.40	17.0
AUG 17...	1335	19.4	--	4.4	--	4.2	560	--	22.0	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	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)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT 03...	--	--	--	--	--	.39	.48	<.04	29.0	<.008	.02	.032	.043
FEB 11...	23.9	--	65.3	28.8	--	.31	.27	<.04	28.6	<.008	E.01	.012	.019
AUG 15...	5.89	8	16.7	6.0	89	1.5	1.8	E.03	6.46	.008	.33	.37	.70
AUG 17...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	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)
OCT 03...	29	29	--	--
FEB 11...	29	29	1.7	15
AUG 15...	7.9	8.3	--	126
AUG 17...	--	--	--	--