

Water-Data Report 2008

0208701500 LEDGE CREEK AT SECONDARY ROAD 1215 NEAR STEM, NC (L-3)

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°10'33", long 78°42'51" referenced to North American Datum of 1983, Granville County, NC, Hydrologic Unit 03020201, 1.74 mi south of Stem.

DRAINAGE AREA.--3.28 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2005, December 2005, February 2008 to April 2008.

COOPERATION.--Station operated in cooperation with the U.S. Army Corps of Engineers to characterize water-quality conditions upstream from Lake Rogers.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
[Remark codes: <, less than.]

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Total nitrogen, wat unf by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L as P (00665)	Suspended sediment concentration, mg/L (80154)
Sep 07...	1050	.00	.3	3	6.9	155	19.5	1.13	<.080	4.06	<.030	.43	74

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 1 of 2
[Remark codes: E, estimated.]

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Total nitrogen, wat unf by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L as P (00665)	Suspended sediment concentration, mg/L (80154)
Dec 05...	1130	27	9.9	85	6.9	108	8.4	E.007	.276	1.11	E.028	.159	67

0208701500 LEDGE CREEK AT SECONDARY ROAD 1215 NEAR STEM, NC (L-3)—Continued

**WATER-QUALITY
DATA
WATER YEAR
OCTOBER 2005 TO
SEPTEMBER 2006**

Part 2 of 2

[Remark codes:
E, estimated.]

Date	Suspended sediment discharge, tons/d (80155)
Dec 05...	4.9

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 2

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)
Feb									
14...	1245	Surface water, regular	1.8	11.4	92	6.4	128	6.0	<.020
Mar									
05...	1045	Surface water, regular	19	9.7	90	6.2	79	11.5	.027
05...	1050	QC - Surface water, replicate	--	9.7	90	6.2	79	11.5	.028
Apr									
28...	1435	QC - Artificial, blank	--	--	--	--	--	--	<.020
28...	1515	Surface water, regular	16	8.0	85	6.6	73	18.1	.054

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 2

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Nitrate + nitrite water flt'd, mg/L as N (00631)	Total nitro- gen, wat unf by anal ysis, mg/L (62855)	Ortho- phos- phate, water, flt'd, mg/L as P (00671)	Phos- phorus, water, unflt'd mg/L as P (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	Data base number	Medium code
Feb								
14...	.32	.74	E.005	.02	7	.03	01	WS
Mar								
05...	.50	1.47	.013	.10	44	2.2	01	WS
05...	.53	1.49	.014	.11	50	--	04	WSQ
Apr								
28...	<.04	<.06	<.006	<.02	--	--	04	OAQ
28...	.10	1.22	.027	.15	69	3.0	01	WS