



Water-Data Report 2008

**0208701550 LEDGE CREEK NEAR BUTNER, NC (L-5)**

Neuse Basin  
Upper Neuse Subbasin

LOCATION.--Lat 36°09'07", long 78°42'27" referenced to North American Datum of 1983, Granville County, NC, Hydrologic Unit 03020201, .5 mi west of Secondary Road 1127 and 3.4 mi northeast of Butner.

DRAINAGE AREA.--5.77 mi<sup>2</sup>.

**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 unfltrd, $\mu$ S/cm 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 unfltrd, 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...	1240	.00	2.2	26	7.0	202	23.8	.946	<.080	2.45	<.030	.19	112

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
Part 1 of 2  
[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 unfltrd, $\mu$ S/cm 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 unfltrd, 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...	1045	2.3	5.2	46	6.7	142	9.3	.021	<.016	.89	<.030	.055	16

## 0208701550 LEDGE CREEK NEAR BUTNER, NC (L-5)—Continued

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

Part 2 of 2

[Remark codes:  
<, less than.]

Date	Sus- pended sedi- ment dis- charge, tons/d (80155)
Dec 05...	.10

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

[Remark codes: &lt;, less than; E, estimated.]

Date	Time	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, deg C water, (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Total nitro- gen, wat unf by anal mg/L (62855)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L as P (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)
Feb 14...	1515	9.6	84	6.4	190	9.3	.069	E.02	.91	<.006	.04	8
Mar 05...	1430	8.4	84	6.2	84	14.5	<.020	.33	1.47	.008	.11	37
Apr 28...	1800	5.4	63	6.7	98	21.5	.047	<.04	1.38	.033	.12	12