

Monitoring Data Record

Project Title: R-967CA (NC 24/27) COE Action ID: 200331135
Stream Name: UT Big Meadow Creek (Site 1) DWQ Number: 030891
City, County and other Location Information: Locust, Stanley County, NC 24/27 (Sta. 17+00 - L-)
Date Construction Completed: 7-30-04 Monitoring Year: (2) of 5
Ecoregion: _____ 8 digit HUC unit 03040105
USGS Quad Name and Coordinates: _____

Rosen Classification: B Stream Type

Length of Project: 318' Urban or Rural: Rural Watershed Size: _____
Monitoring DATA collected by: M. Green and J. Young Date: 2/23/09

Applicant Information:

Name: NCDOT - Roadside Environmental Unit
Address: 1425 Rock Quarry Rd., Raleigh, NC , 27610
Telephone Number: (919) 861- 3772 Email address: mlgreen@ncdot.gov

Consultant Information:

Name: _____
Address: _____
Telephone Number: _____ Email address: _____

Project Status: _____

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 2

Permit States: The permittee shall monitor the completed stream relocation in accordance with Monitoring Level 2 of the US Army Corps of Engineers, Wilmington District, Stream Mitigation Guidelines of April 2003. The monitoring reports, including reference photographs, plant survival data and visual inspection notes identifying specific problem areas, will be submitted to the Corps of Engineers, Asheville Regulatory Field Office within 60 days of completion of the monitoring. The monitoring report will also include a discussion of any deviations to channel stability. The success of the stream relocation as project mitigation will be evaluated based on those success criteria listed in the reference Stream Mitigation Guidelines.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 4 photo point locations with 2 photos looking upstream and downstream at each location.

Dates reference photos have been taken at this site: 3/4/08, 9/4/08, 2/23/09

Individual from whom additional photos can be obtained (name, address, phone): _____

Other Information relative to site photo reference: A site map with photo point locations is attached to this report.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action: _____

ADDITIONAL COMMENTS: _____ The initial planting for the UT to Big Meadow Creek took place in 2004. Replanting took place on 3/4/08 with the following plant species: Type I - Silky Dogwood, Black Willow. Type II – Willow Oak, Tulip Poplar, and Water Oak. Other vegetation noted included fennel, pine, sweetgum, *Scripus* sp., baccharis, briars, lespedeza, mimosa, white oak, blackgum, and various grasses.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

UT to Big Meadow Creek is stabilized for the Year 2 Winter evaluation, except for, a crossvane at Sta. 16+40 (PP#4 Upstream) which has water piping under the crossvane and a slight headcut has formed. NCDOT will continue to monitor this stream relocation for stability. Remedial action is not warranted at this time.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
2/23/09	16+40 (PP#4 Upstream)				
Structure Type	Crossvane				
Is water piping through or around structure?	Water is piping under crossvane				
Head cut or down cut present?	slight headcut				
Bank or scour erosion present?					
Other problems noted?					

UT Big Meadow Creek



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)
Year 2 Winter – February 2009



Photo Point #3 (Downstream)

UT Big Meadow Creek



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)

Year 2 Winter – February 2009

R-967CA UT BIG MEADOW CREEK
 PHOTO POINT LOCATIONS

