

Monitoring Data Record

Project Title: NC 16 in Lucia (R-2206A) COE Action ID: 200031430
Stream Name: Unnamed tributary to the Catawba River DWQ Number: 001232
City, County and other Location Information: Sta. 6+60 Ramp CA RT on NC 16 in Lucia
Date Construction Completed: N/A Monitoring Year: (2) of 5
Ecoregion: _____ 8 digit HUC unit 03050101
USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 738' Urban or Rural: Rural Watershed Size: _____
Monitoring DATA collected by: M. Green, J. Wait, D. Jenkins Date: 5/23/05
Applicant Information:

Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Road Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us

Consultant Information:

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

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 1 ~~2~~ ~~3~~

Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Attach site map showing the location and angle of all reference photos with a site designation (name, number, letter, etc.) assigned to each reference photo location. Photos should be provided for all structures and cross section locations, should show both banks and include an upstream and downstream view. Photos taken to document physical stability should be taken in winter. Photos taken to document vegetation should be taken in summer (at representative locations). Attach photos and a description of each reference photo or location. We recommend the use of a photo identification board in each photo to identify location.

Total number of reference photo locations at this site: 4 reference points, 2 photos at each
Dates reference photos have been taken at this site: 5/20/04, 11/2/04, 5/23/05

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

Other Information relative to site photo reference: _____

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):

There is very little vegetation noted on the right streambank between Sta. 6+70 and 6+86.

Estimated causes, and proposed/required remedial action: This streambank segment will be replanted this winter.

ADDITIONAL COMMENTS: Stream is highly vegetated with switch grass, alder, black willow, *Juncus* sp., lespedeza, *Panicum* sp., sweetgum, fennel, and various grasses. Trees are doing well, 2 to 4 feet in height which included northern red oak, sycamore, and river birch.

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.

There is some minor bank erosion between Sta. 6+70 and 6+86 due to the lack of woody vegetation on the streambank. Other than that the stream is highly stabilized for the second year summer evaluation.

Date Inspected	Station Number				
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

R-2206A



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6

R-2206A



Photo 7



Photo 8