

Monitoring Data Record

Project Title: R-2408B COE Action ID: SAW-2009-00860

Stream Name: UT to Rocky Branch DWQ Number: 20090451

City, County and other Location Information: Macon County, NC 28 (Bryson City Road) just north of Lee Talent Rd. Sta. 100+00 to 104+00-L- LT.

Date Construction Completed: Site planted on 1/27/12 Monitoring Year: (2) of 3

Ecoregion: _____ 8 digit HUC unit 06010202

USGS Quad Name and Coordinates: Franklin N 35.21016 W 83.40010

Rosgen Classification: C5

Length of Project: 393' Urban or Rural: Rural Watershed Size: _____

Monitoring DATA collected by: M. Green and J. Young Date: 8/20/13

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 1 2 3

The permittee shall visually monitor the vegetative plantings to access and ensure complete stabilization of the mitigation stream segments. The monitoring shall be conducted annually for a minimum of 3 years after final planting. Photo documentation shall be utilized to document the success of the riparian vegetation and submitted to NCDWQ in a final report within sixty days after completing monitoring. After 3 years the NCDOT shall contact the NCDWQ to schedule a site visit to "close out" the mitigation site.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 6 photos were taken from 3 photo point locations and 1 overview photo of the site

Dates reference photos have been taken at this site: 8/21/12, 8/20/13

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

Other Information relative to site photo reference: A site map with approximate photo point locations is included with 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 planted vegetation is surviving and consisted of black willow and silky dogwood live stakes and tulip poplar, sycamore, black cherry, and river birch bareroot seedlings. Other vegetation noted included horse-nettle, lespedeza, sedge, alder, tear-thumb, jewelweed, *Juncus* sp., sumac, mimosa, multi-flora rose, walnut, and various grasses. NCDOT completed a supplemental planting of the buffer on 1/8/13 due to missing planted vegetation note within the buffer the previous year. The planted buffer has been fenced out next to the adjacent property owner to prevent encroachments. NCDOT will continue to monitor plant survival at the UT to Rocky Branch stream relocation.

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.

This is the Year 2 evaluation for the UT to Rocky Branch stream relocation and the stream is stable at this time. A headcut at Sta. 101+70 -L- LT. noted during the Year 1 monitoring evaluation has stabilized and is not an area of concern at this time. Debris deposited onto the floodplain indicated that a bankfull event has recently occurred. NCDOT will continue to monitor channel stability at the UT to Rocky Branch stream relocation. A meeting was held onsite with NCDOT and Regulatory Agencies in attendance on April 10, 2013.

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?					

Section 4. DEBIT LEDGER

The entire UT to Rocky Branch stream relocation site was used for the R-2408B project to compensate for unavoidable stream impacts.

UT to Rocky Branch



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

UT to Rocky Branch



Overview Photo

Year 2 – August 2013

