

Monitoring Data Record

Project Title: R-2408A COE Action ID: SAW-2009-00860
Stream Name: UT to Little Tennessee River DWQ Number: 20090451
City, County and other Location Information: Macon County, Intersection of Riverview St. and Woodland Hills Drive Sta. 28+00-L- RT. Monitoring Year: (1) of 3
Date Construction Completed: Site planted on 2/10/12 & water turned into stream on 6/28/12
Ecoregion: _____ 8 digit HUC unit 06010202
USGS Quad Name and Coordinates: Franklin N 35.19442 W 83.38632

Rosgen Classification: A Type channel transitioning into a B Type channel

Length of Project: 190' Urban or Rural: Rural Watershed Size: _____

Monitoring DATA collected by: M. Green and J. Lancaster Date: 8/21/12

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: 4 photos were taken from 2 photo point locations and 1 overview photo

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

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 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):

The UT to Little Tennessee River stream restoration site had missing planted vegetation within the buffer.

Estimated causes, and proposed/required remedial action: NCDOT will perform a supplemental planting at the UT to Little Tennessee River stream restoration site between Nov. 15, 2012 to March 15, 2013 to increase the plant survival within the buffer.

ADDITIONAL COMMENTS: The planted vegetation is surviving and consisted of black willow and silky dogwood live stakes and tulip poplar, sycamore, and river birch bareroot seedlings. Other vegetation noted included briars, sumac, red maple, japanese knotweed, and various grasses. NCDOT will continue to monitor plant survival at the UT to Little Tennessee River stream restoration site.

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 1 evaluation for the UT to Little Tennessee River stream restoration site. The channel is stable at this time but water is piping under some of the cross vanes due to low water flow. NCDOT will continue to monitor channel stability at the UT to Little Tennessee River stream restoration site.

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 Little Tennessee River stream mitigation site was used for the R-2408A project to compensate for unavoidable stream impacts.

UT Little Tennessee River



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Overview Photo

Year 1 – August 2012

