Monitoring Data Record

Project Title: R-2248D – Charlotte Outer Loop COE Action ID: 200131321
Stream Name: Trib. to Dixon Branch (Site 16) DWQ Number: 011231
City, County and other Location Information: Mecklenburg County, Charlotte Outer Loop, R-2248D Right of Project Station 13+50 Ramp 2D
Date Construction Completed: February 2005 Monitoring Year: (1) of 5
Ecoregion: _____ 8 digit HUC unit 03050103
USGS Quad Name and Coordinates: _____
Rosgen Classification: Proposed C4 stream type classification
Length of Project: 548 ft. Urban or Rural: Urban 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 **1**

The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period or through two documented bankfull flow events. Reference photos; plant survival (i.e. identify specific problem areas (missing, stressed, damaged or dead plantings), estimated causes, and proposed/required remedial action);visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. The permittee shall submit the monitoring reports to the USACE, Raleigh Regulatory Field Office Project Manager, within sixty days after completing the monitoring. If less than two bankfull events occur during the first 5 years, the permittee 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 five-year monitoring period, the USACE, in consultation with the resource agencies, may determine that further monitoring is not required. It is suggested that all bankfull occurrences be monitored and reported through the required monitoring period. The permittee shall perform and submit photo documentation twice each year (summer and winter) for the 5-year monitoring period, and for any subsequently required monitoring period.

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 2 photo point locations.
Dates reference photos have been taken at this site: 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):
The buffer area plantings were minimal.

Estimated causes, and proposed/required remedial action: NCDOT proposes to replant the buffer area in 2010.

ADDITIONAL COMMENTS: Vegetation is dormant at this time. Streambank reforestation consisted of Type 1: Black Willow and Silky Dogwood and Type 2: Willow Oak, Black Gum, 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.

UT to Dixon Branch (Site 16) stream relocation has experienced some instability prior to the Year 1 Winter evaluation. A headcut was noted at Sta. 13+30 Ramp 2D which is downstream of Photo Point #2's location. There is some bank erosion on the left and right banks due to the head cut that has formed upstream. This bank erosion is at Sta. 13+20 Ramp 2D (Photo Point #3 Up and Downstream Photos). NCDOT will continue to monitor this stream relocation to see if any remedial action is warranted.

Date 2/23/09	Station 13+30 Ramp 2D	Station 13+20 Ramp 2D	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?	Head cut				
Bank or scour erosion present?		Bank erosion on left and right bank			
Other problems noted?					

UT to Dixon Branch

Site 16

Photo Point #1 (Upstream)

Photo Point #1 (Downstream)

Photo Point #2 (Upstream)

Photo Point #2 (Downstream)

Photo Point #3 (Upstream)

Photo Point #3 (Downstream)

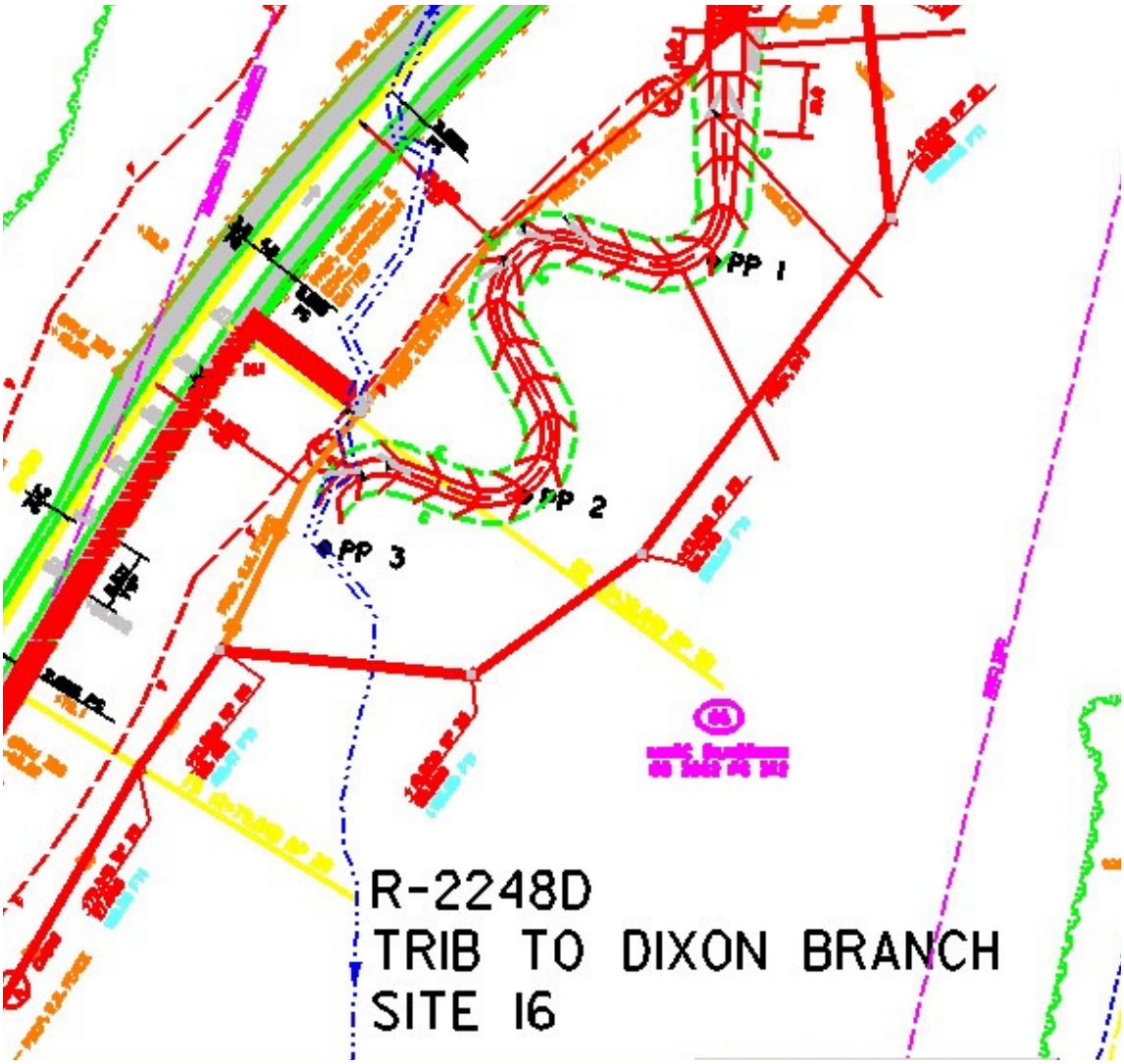
Year 1 Winter- February 2009

UT to Dixon Branch

Site 16

(Additional Photo of headcut downstream of Photo Point #2)

Year 1 Winter- February 2009


PP 1
PP 2
PP 3
R-2248D
TRIB TO DIXON BRANCH
SITE 16