

Monitoring Data Record

Project Title: U-2524AC (Greensboro Western Urban Loop) COE Action ID: 200321137

Stream Name: Long Branch (Site 2BA) DWQ Number: 030909

City, County and other Location Information: Greensboro Western Loop, Guilford Co.
(Remediation Plans Sta. 10+00 to 29+86)

Date Construction Completed: 2-29-08 Monitoring Year: (5) of 5

Ecoregion: _____ 8 digit HUC unit 03030002

USGS Quad Name and Coordinates: _____

Rosgen Classification: Proposed reach is a E5 stream type

Length of Project: 1,986' Urban or Rural: Urban Watershed Size: _____

Monitoring DATA collected by: M. Green and J. Young Date: 6/26/12

Applicant Information:

Name: NCDOT Roadside Environmental Unit

Address: 1425 Rock Quarry Road Raleigh, NC 27610

Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov

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)

Total number of reference photo locations at this site: There are a total of 10 photo points, 2 photos at each photo point location and an additional 2 overview photos were taken.

Dates reference photos have been taken at this site: 3/12/08, 7/15/08, 2/9/09, 7/27/09, 2/17/10, 8/30/10, 1/24/11, 9/1/11, 2/15/12, 6/26/12

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

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

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: Long Branch streambank reforestation was completed on 2-29-08. The planting consisted of black willow and silky dogwood live stakes and green ash, river birch, tulip poplar, water oak, and willow oak bareroot seedlings. The planted vegetation noted onsite is surviving and is providing a nice canopy over the stream relocation. Other vegetation noted: lespedeza, mimosa, pokeberry, goldenrod, sycamore, cottonwood, pine, briars, red maple, sweetgum, kudzu, jewelweed, and various grasses. There were two small areas of kudzu noted during the monitoring evaluation. These areas will be treated with herbicide this summer. NCDOT proposes to discontinue plant survival monitoring.

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.

The Long Branch stream relocation is stable for the Year 5 Summer evaluation, except for, some minor bank scouring that still exist with little or no change since the last evaluation at the station numbers noted below. A bankfull event has occurred since the last evaluation. A site visit was conducted on August 2, 2011 with the regulatory agencies and NCDOT personnel present. It was agreed to continue to monitor this stream relocation throughout the 5-year monitoring period. NCDOT proposes to discontinue channel stability monitoring.

6/26/12	Sta. 11+50 PP#1 Downstream Photo	Sta. 17+50	Sta. 20+00 PP#5 Downstream Photo	Sta. 23+00	Sta. 27+00 PP#9 Upstream and Downstream Photo
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?	Minor bank scouring on left bank downstream of boulder protection	Minor bank scouring on right bank	Minor bank scouring on left bank downstream of boulder protection	Minor bank scouring on left bank downstream of boulder protection	Minor bank scouring on right and left bank (vertical banks)

Section 4. DEBIT LEDGER

The entire Long Branch (Site 2BA) stream relocation site was used for the U-2524BA project to compensate for unavoidable stream impacts.

Long Branch



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)

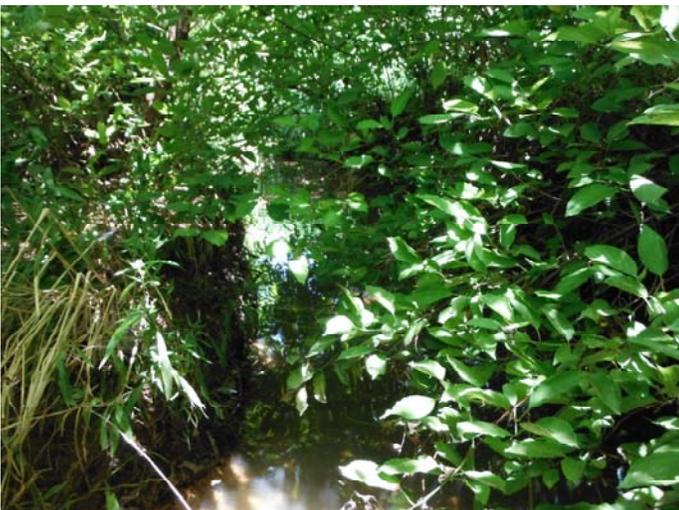


Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

Long Branch



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

Long Branch



Photo Point #7 (Upstream)



Photo Point #7 (Downstream)



Photo Point #8 (Upstream)

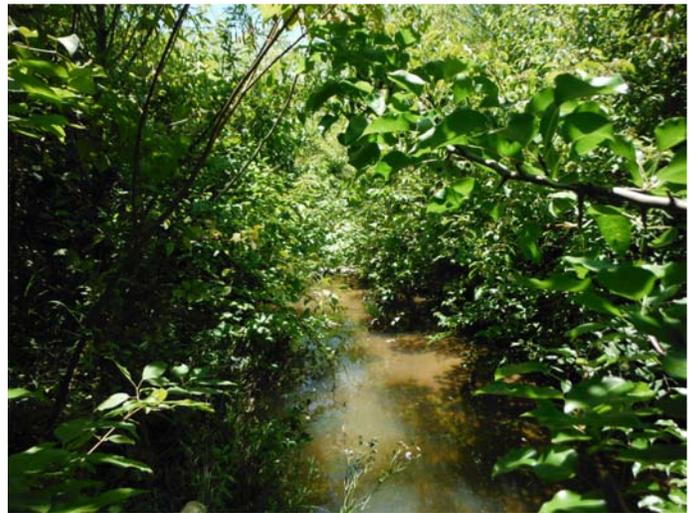


Photo Point #8 (Downstream)



Photo Point #9 (Upstream)



Photo Point #9 (Downstream)

Long Branch



Photo Point #10 (Upstream)



Photo Point #10 (Downstream)

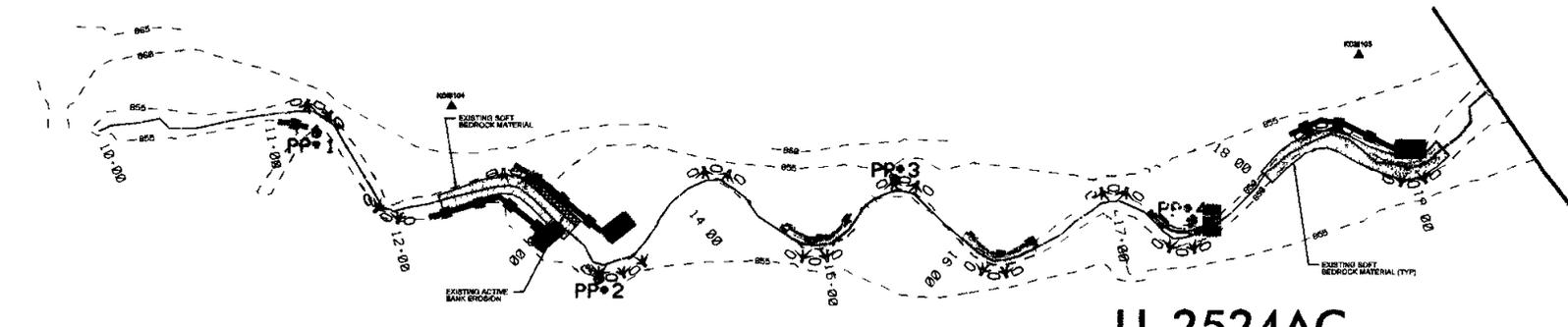


Overview Photo Looking Upstream



Overview Photo Looking Downstream

Year 5 Summer – June 2012



⊕ PHOTO POINT LOCATIONS

U-2524AC
 Long Branch
 Site 2BA
 Guilford County

