Monitoring Data Record

Project Title: Martin Site (B-3045 WM) COE Action ID: 200632527285
Stream Name: Little Peters Creek DWQ Number: 06-869
City, County and other Location Information: The mitigation area is located approx. 0.5 mile east of the intersection of Creasy Road and NC 704 in Stokes County.
Date Construction Completed: June 20, 2007, Streambank Reforestation Completed 2-28-08
Monitoring Year: (3) of 5
Ecoregion: 8 digit HUC unit 03010103
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 750' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green and J. Young Date: 3/9/10
Applicant Information:
Name: NCDOT Roadside Environmental
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**

Permit States: The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period: 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: 4 photo points were set with 2 photos taken at each photo point except photo point #4 which only has 1 photo looking upstream.

Dates reference photos have been taken at this site: 2/28/08, 5/28/08, 1/13/09, 6/23/09, 3/9/10

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 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: Planted vegetation is surviving. Live staking and bareroot planting was completed on 2/28/08. The site was live staked with Black Willow and Silky Dogwood. The site was also planted with bareroot seedlings which consisted of Black Walnut, Cherrybark Oak, Northern Red Oak, River Birch, Willow Oak, Sycamore, and Green Ash. Other vegetation noted on site consisted of *Juncus* sp., alder, horse-nettle, privet, sedge, goldenrod, cattails, clover, and various grasses.

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.

Little Peters Creek stream restoration project is stable for the Year 3 Winter evaluation. Debris and sediment have continued to deposit onto the floodplain since the last monitoring evaluation, indicating a bankfull event has occurred. NCDOT will continue to monitor this stream restoration project.

Date Inspected	Station Number	Station Number	Station Number	Station Number	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?					

Little Peters Creek

Photo Point #1 (Upstream)

Photo Point #1 (Downstream)

Photo Point #2 (Upstream)

Photo Point #2 (Downstream)

Photo Point #3 (Upstream)

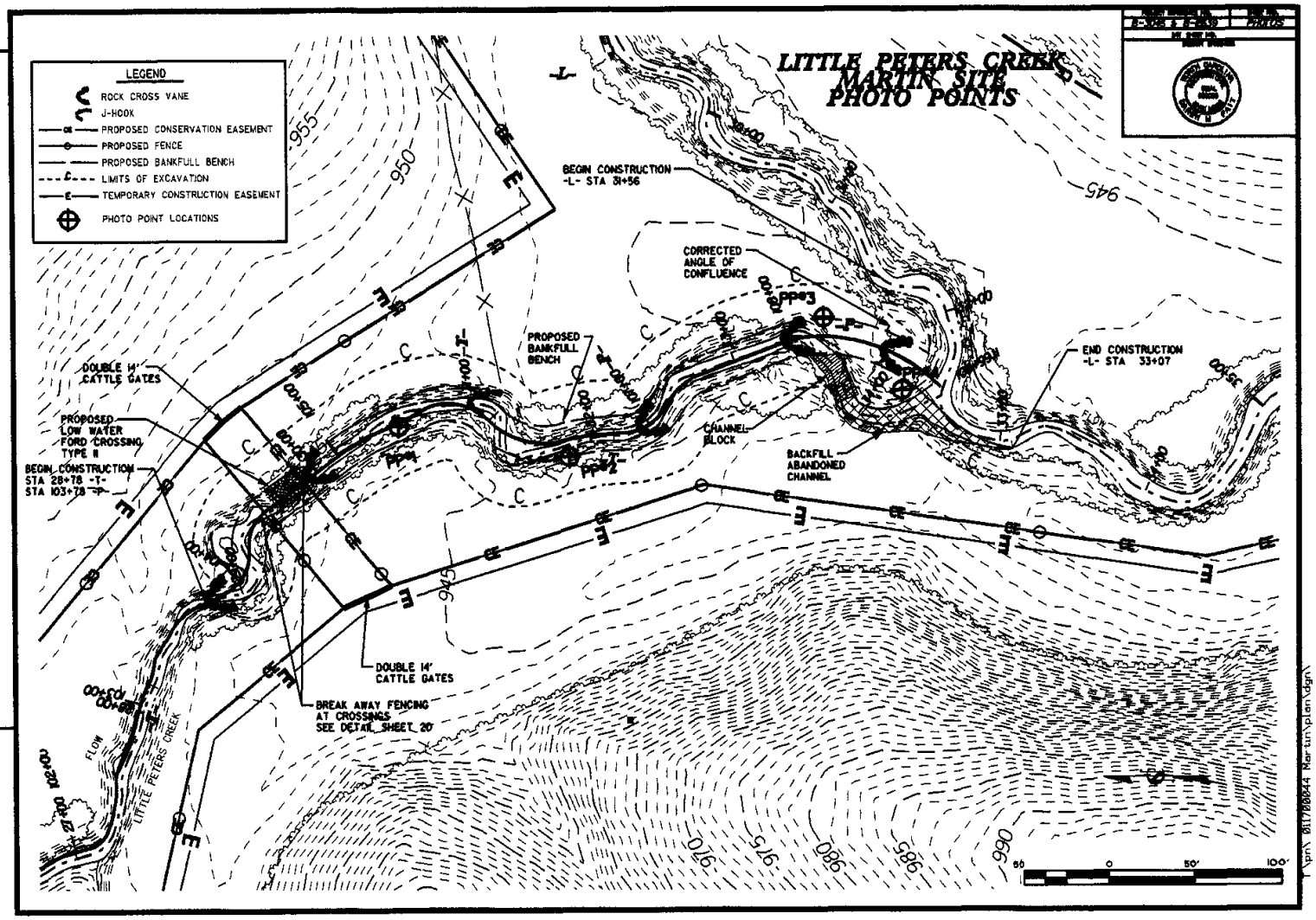
Photo Point #3 (Downstream)

Year 3 Winter – March 2010

Little Peters Creek

Photo Point # 4 (Upstream)

Year 3 Winter – March 2010


LITTLE PETERS CREEK
MARTIN SITE
PHOTO POINTS
LEGEND
ROCK CROSS VANE
J-HOOK
PROPOSED CONSERVATION EASEMENT
PROPOSED FENCE
PROPOSED BANKFULL BENCH
LIMITS OF EXCAVATION
TEMPORARY CONSTRUCTION EASEMENT
PHOTO POINT LOCATIONS
BEGIN CONSTRUCTION -L- STA 31+56
CORRECTED ANGLE OF CONFLUENCE
PROPOSED BANKFULL BENCH
END CONSTRUCTION -L- STA 33+07
DOUBLE 14' CATTLE GATES
PROPOSED LOW WATER FORD CROSSING TYPE II
BEGIN CONSTRUCTION STA 28+78 -T- STA 103+78 -P-
CHANNEL BLOCK
BACKFILL ABANDONED CHANNEL
DOUBLE 14' CATTLE GATES
BREAK AWAY FENCING AT CROSSINGS SEE DETAIL SHEET 20
FLOW
LITTLE PETERS CREEK
955
950
945
940
935
930
925
920
915
910
905
50
0
50'
100'