# Monitoring Data Record

Project Title: R-2568B (Site 4) COE Action ID: 200121280
Stream Name: UT to Rich Fork Creek DWQ Number: 3478
City, County and other Location Information: Davidson Co, NC 109 from North of I-85 Business to North of SR 1756 (Lexington Ave.) Sta. 46+60 to 47+80 -L-
Date Construction Completed: water was turned on 8/29/05, planted on 2/17/06
Monitoring Year: ( 4 ) of 5
Ecoregion: 8 digit HUC unit 03040103
USGS Quad Name and Coordinates:
**Rosgen Classification:**
Length of Project: 315' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green & J. Young Date: 8/10/09
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: 4 reference points, 2 photos at each**
**Dates reference photos have been taken at this site: 7/18/06, 2/28/07, 8/22/07, 1/23/08, 8/15/08, 1/15/09, 8/10/09**

**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 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: Planted hardwood vegetation noted onsite includes: black willow and silky dogwood live stakes. Other vegetation noted onsite includes: goldenrod, sedge, *Scripus* sp., sycamore, tulip poplar, woolgrass, red maple, sweetgum jewelweed, cattail, lespedeza, mimosa, *Juncus* sp., and various grasses. The streambank and floodplain were live staked with black willow and silky dogwood species.

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 channel is stabile throughout the entire onsite stream relocation for the Year 4 Summer evaluation. NCDOT will continue to monitor this stream relocation.

| 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? | | | | | |

**NOTE:** Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

# UT Rich Fork Creek

PP #1 (Upstream)

PP #1 (Downstream)

PP #2 (Upstream)

PP #2 (Downstream)

PP #3 (Upstream)

PP #3 (Downstream)

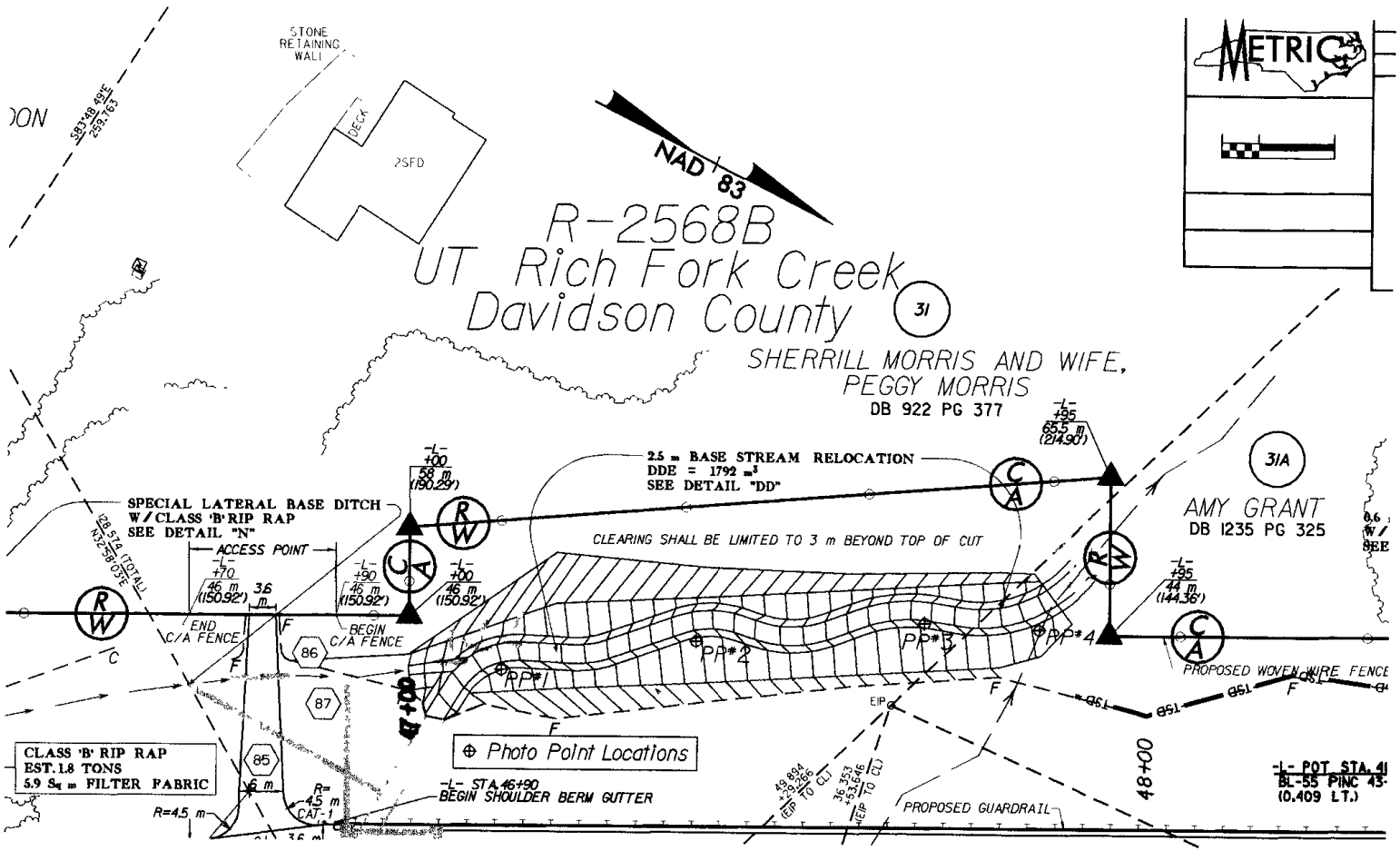
Year 4 Summer – August 2009

# UT Rich Fork Creek

PP #4 (Upstream)

PP #4 (Downstream)

Year 4 Summer – August 2009


METRIC
NAD 83
R-2568B
UT Rich Fork Creek
Davidson County
31
SHERRILL MORRIS AND WIFE,
PEGGY MORRIS
DB 922 PG 377
31A
AMY GRANT
DB 1235 PG 325
STONE RETAINING WALL
DECK
2SFD
S85°48' 49"E
259.163
2.5 m BASE STREAM RELOCATION
DDE = 1792 m³
SEE DETAIL "DD"
SPECIAL LATERAL BASE DITCH
W/CLASS 'B' RIP RAP
SEE DETAIL "N"
ACCESS POINT
CLEARING SHALL BE LIMITED TO 3 m BEYOND TOP OF CUT
-L- +00 58 m (190.29')
-L- +70 46 m (150.92')
-L- +90 46 m (150.92')
-L- +00 46 m (150.92')
-L- +95 65.5 m (214.90')
-L- +95 44 m (144.36')
3.6 m
END C/A FENCE
BEGIN C/A FENCE
86
87
85
PP#1
PP#2
PP#3
PP#4
47+00
48+00
EIP
PROPOSED WOVEN WIRE FENCE
PROPOSED GUARDRAIL
⊕ Photo Point Locations
CLASS 'B' RIP RAP
EST. 1.8 TONS
5.9 Sq m FILTER FABRIC
R=4.5 m
R= 4.5 m CAT-1
-L- STA.46+90
BEGIN SHOULDER BERM GUTTER
-L- POT STA.4
BL-55 PINC 43
(0.409 LT.)