

GEOTECHNICAL UNIT FIELD SCOUR REPORT

PROJECT: 33321.1.1 ID: B-3877 COUNTY: Nash

DESCRIPTION(1): Bridge No. 52 over Turkey Creek on SR 1101 (Claude Lewis Road)

INFORMATION ON EXISTING BRIDGES Information obtained from: x field inspection microfilm(Reel: Pos: ) other

COUNTY BRIDGE NO. 52 BRIDGE LENGTH 121ft NO. BENTS IN: CHANNEL 2 FLOOD PLAIN 4

FOUNDATION TYPE: Timber piles

EVIDENCE OF SCOUR(2):

ABUTMENTS OR END BENT SLOPES: Minor scour around wingwalls; 5 ft dia. scour pocket near End Bent 2

INTERIOR BENTS: Minor scour pockets around Bent 1; none observed at Bent 2; secondary channel between

End Bent 1 and Bent 1

CHANNEL BED: None observed

CHANNEL BANKS: Trees down along banks

EXISTING SCOUR PROTECTION:

TYPE(3): Timber wingwall

EXTENT(4): To the limits of embankment

EFFECTIVENESS(5): Good

OBSTRUCTIONS(6) (DAMS, DEBRIS, ETC.): Many trees of various sizes down in and around creek

DESIGN INFORMATION

CHANNEL BED MATERIAL(7) (SAMPLE RESULTS ATTACHED): A-1-a, A-1-b, A-2-4, A-6

CHANNEL BANK MATERIAL(8) (SAMPLE RESULTS ATTACHED): A-6

FOUNDATION BEARING MATERIAL(9): Meta-Argillite

CHANNEL BANK COVER(10): Grasses, shrubs and trees

FLOOD PLAIN WIDTH(11): 500±

FLOOD PLAIN COVER(12): Trees, grasses and shrubs

DESIGN INFORMATION CONT.

STREAM IS x DEGRADING AGGRADING (13)

OTHER OBSERVATIONS AND COMMENTS:

CHANNEL MIGRATION TENDENCY (14): Northwest

REPORTED BY: Elizabeth C. Howey DATE: 10/28/2004 Froehling & Robertson, Inc.

GEOTECHNICALLY ADJUSTED SCOUR ELEVATION (15):

Table with 4 columns: Boring, 100 yr, 200 yr. Rows include B1-A, B1-B, B2-A, B2-B with corresponding elevation values.

REPORTED BY: Bradley W. W... DATE: 12-14-04 NCDOT GEOTECHNICAL UNIT INSTRUCTIONS

- (1) GIVE THE DESCRIPTION OF THE SPECIFIC SITE GIVING ROUTE NUMBER AND BODY OF WATER CROSSED. (2) NOTE ANY EVIDENCE OF SCOUR AT THE EXISTING END BENTS OR ABUTMENTS (UNDERMINING, SLOUGHING, SCOUR LOCATIONS, DEGRADATIONS, ETC.)