



**FROEHLING & ROBERTSON, INC.**  
 GEOTECHNICAL • ENVIRONMENTAL • MATERIALS  
 ENGINEERS • LABORATORIES  
 "OVER ONE HUNDRED YEARS OF SERVICE"

N.C.D.O.T. GEOTECHNICAL UNIT  
 BORING LOG

SHEET 1 OF 1

PROJECT NO. 33321.1.1		ID. B-3877		COUNTY Nash		GEOLOGIST C. Baldwin								
SITE DESCRIPTION Bridge No. 52 over Turkey Creek on SR 1101 (Claude Lewis Rd.)							GROUND WATER (ft)							
BORING NO. EB1-A		BORING LOCATION 24+90		OFFSET 15ft LT	ALIGNMENT -L-		0 HR. 5.0							
COLLAR ELEV. 157.3 ft		NORTHING 727,079		EASTING 2,252,281			24 HR. 5.0							
TOTAL DEPTH 22.3 ft		DRILL MACHINE CME 550		DRILL METHOD 2.25" ID HSA		HAMMER TYPE Automatic								
DATE STARTED 10/15/04		COMPLETED 10/15/04		SURFACE WATER DEPTH N/A										
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
157.3					Ground Surface							157.3	0.0	
157.3	0.0	1	2	2						SS-6	14.5%	-ROADWAY EMBANKMENT- Reddish-brown, fine to coarse sandy silty CLAY (A-6(6)).		
153.8	3.5	2	2	3									6.8	
148.8	8.5	1	1	2						SS-8	27.6%	-ALLUVIAL- Gray, silty CLAY (A-6(8)), with some fine sand & trace coarse sand.		
143.8	13.5	2	3	4							M	Gray & brown, fine to coarse sandy CLAY (A-6), with some silt.	11.8	
138.8	18.5	60/0.1'										-NON-CRYSTALLINE ROCK- Gray, META-ARGILLITE.	15.5	
135.0	22.3	60/0.0'										Boring Terminated with Standard Penetration Test Refusal at Elevation 135.0 ft in NON-CRYSTALLINE ROCK (META-ARGILLITE)	22.3	

NOTES:  
 1) Driller indicates harder drilling at a depth of 15.5' (elev. 141.8').  
 2) Auger refusal at a depth of 22.3' (elev. 135.0').

NCDOT BORE SINGLE F66-239.GPJ NC DOT.GDT 12/10/04



**FROEHLING & ROBERTSON, INC.**  
 GEOTECHNICAL • ENVIRONMENTAL • MATERIALS  
 ENGINEERS • LABORATORIES  
 "OVER ONE HUNDRED YEARS OF SERVICE"

N.C.D.O.T. GEOTECHNICAL UNIT  
 BORING LOG SHEET 13 OF 29

SHEET 1 OF 1

PROJECT NO. 33321.1.1		ID. B-3877		COUNTY Nash		GEOLOGIST C. Baldwin								
SITE DESCRIPTION Bridge No. 52 over Turkey Creek on SR 1101 (Claude Lewis Rd.)							GROUND WATER (ft)							
BORING NO. EB1-B		BORING LOCATION 24+92		OFFSET 15ft RT	ALIGNMENT -L-		0 HR. 6.0							
COLLAR ELEV. 157.2 ft		NORTHING 727,056		EASTING 2,252,262			24 HR. 6.0							
TOTAL DEPTH 24.0 ft		DRILL MACHINE CME 550		DRILL METHOD 2.25" ID HSA		HAMMER TYPE Automatic								
DATE STARTED 10/15/04		COMPLETED 10/15/04		SURFACE WATER DEPTH N/A										
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
157.2					Ground Surface							157.2	0.0	
157.2	0.0	2	3	3						M		-ROADWAY EMBANKMENT- Reddish-brown, silty CLAY (A-6), with some fine to coarse sand.		
153.7	3.5	2	1	2						M			6.8	
148.7	8.5	WOH								W		-ALLUVIAL- Gray, silty CLAY (A-6), with some fine sand & trace coarse sand.	11.8	
143.7	13.5	1	3	3						SS-4	23.8%	Gray & brown, fine sandy SILT (A-4(0)), with trace clay & coarse sand.	15.5	
138.7	18.5	60/0.1'										-NON-CRYSTALLINE ROCK- Gray, META-ARGILLITE.	22.3	
133.7	23.5	60/0.0'										Boring Terminated by Auger Refusal at Elevation 133.2 ft in NON-CRYSTALLINE ROCK (META-ARGILLITE)	24.0	

NOTES:  
 1) Driller indicates harder drilling at a depth of 15.5' (elev. 141.7').  
 2) Auger refusal at a depth of 24.0' (elev. 133.2').

NCDOT BORE SINGLE F66-239.GPJ NC DOT.GDT 12/10/04