

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 GEOTECHNICAL UNIT BORING LOG

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 GEOTECHNICAL UNIT CORE BORING REPORT

PROJECT NO: 8.2572901      PROJECT ID: B-3690      COUNTY: Randolph      GEOLOGIST: J.K. STICKNEY  
 SITE DESCRIPTION: Bridge 163 over Brush Creek on SR 2641      DRILLER: R.S. HINSON  
 BORING NO: B1-B      BORING LOCATION (STA): 16+65      OFFSET: 12.3 RT  
 COLLAR ELEV: 409.05      PERSONNEL: DH RSH,JKS,      CORE SIZE: NXWL  
 TOTAL DEPTH: 34.3'      DRILL MACHINE: CME-550      DATE STARTED: 08/16/02  
 TOTAL RUN: 26.4'      DRILL EQUIP: NXWL/NXCAS/      DATE COMPLETED: 08/16/02

PROJECT NO 8.2572901		ID B-3690		COUNTY RANDOLPH		GEOLOGIST JAY K. STICKNEY						
SITE DESCRIPTION BRIDGE#163 OVER BRUSH CREEK ON SR 2641						GND WATER						
BORING NO B1-B		NORTHING 0.00		EASTING 0.00		0 HR 2.10ft						
ALIGNMENT L		BORING LOCATION 16+65.000		OFFSET 12.30ft RT		24 HR 6.00ft						
COLLAR ELEV 409.05ft		TOTAL DEPTH 34.30ft		START DATE 8/16/02		COMPLETION DATE 08/16/02						
DRILL MACHINE CME-550			DRILL METHOD NW CAS/NXWL			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH			DEPTH TO ROCK 7.90ft			Log B1-B, Page 1 of 1						
ELEV	DEPTH	BLOW CT			PEN (ft)	BLOWS PER FOOT				SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION
		6in	6in	6in		0	25	50	75			
409.05												Ground Surface
	5.40	12	51	40	1.0					91		0-3.1' ALLUVIUM
400.00												3.1' - 7.3' RESIDUAL CLAYEY FINE SANDY SILT WITH GRAVEL.
												7.3' 7.9' WEATHERED ROCK
												7.9' -34.3' ROCK
374.75												TRICONE RERUSAL AT 7.9' CORE TO END OF HOLE AT 34.3

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
401.15	7.9		1	90.9%	54.5%		0 to 23', Hard to very hard, fresh, close fractured, crystalline meta sediments with remnant bedding features. Silicified in part. Cleavage at 60 to 70 dip.
398.95	10.1	41	2	100%	78%		
393.95	15.1	4	3	100%	88.6%		
389.1	19.95	5	4	100%	63.8%		
384.4	24.65	6.1	5	100%	79.1%		23' to 30' Hard to very hard, fresh very close to close spaced fractured crystalline rock. Cleavage at 70 dip
379.6	29.45	9.27	6	100%	77.1%		28' to 30' crushed or breccia zone with sheeted jointing in upper part. Possibly variation in cleavage direction Fractures filled with light green to wht mineral.
374.75	34.3						30' -34.3' Hard to very hard gray, fresh, close fractured crystalline rock Remnant bedding features vary from 30 to 90 dip.

NOTES