

**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: B3-B	BORING LOCATION (STA): 17+77.23		OFFSET: 19 RT
COLLAR ELEV: 408.36	DRILL MACHINE: CME-550		CORE SIZE: NXWL
TOTAL DEPTH: 33.95	DRILL EQUIP: NXWL/NXCAS/		DATE STARTED: 08/22/02
TOTAL RUN: 28.85			DATE COMPLETED: 08/22/02

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 B3-B		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT L		BORING LOCATION 17+77.230		OFFSET 19.00ft RT		24 HR N/A						
COLLAR ELEV 408.36ft		TOTAL DEPTH 33.95ft		START DATE 8/22/02		COMPLETION DATE 08/22/02						
DRILL MACHINE CME-550			DRILL METHOD NW CAS/NXWL			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH N/A			DEPTH TO ROCK 5.10ft			Log B3-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			
408.36												Ground Surface
	4.70	100			0.4							0-4.1' ALLUVIUM
400.00												4.1' TO 4.7' WEATHERED ROCK. SPT REFUSAL AT BASE
												4.7' - 5.1' ROCK, TRICONE REFUSAL AT BASE
												5.1' - 33.95' ROCK
390.00												
380.00												
374.41												TRI-CONE REFUSAL AT 5.1' CORE TO END OF HOLE AT 33.95'

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
403.26	5.1	4.2	1	68%	7.0%		5.1 to 10.1 Hard, moderately weathered, very close fractured crystalline rock. Joints with dips of 90, 70, and 45 degrees were seen. Relict bedding is dipping in opposition to the joints. Fractures are iron stained. Rock has the relict bedding of metamorphosed silt
398.26	10.1	3.29	2	92.7%	55.6%		10.1 to 27' Very hard, very slightly weathered, very close fractured crystalline rock. Joints with dips of 90, 45, 45 and 70 degrees were seen. Fractures are iron stained. Rock has relict bedding of variable dip.
393.41	14.95	2.99	3	77.6%	52.4%		
388.26	20.1	2.75	4	76%	22%		
383.26	25.1	4.27	5	98.8%	80.8%		27' to 33.95', Very hard, fresh, pyritic, close fractured crystalline rock with relict bedding characteristic of metamorphosed sediment. Joint dips of 70, 45, 45, and 80 to 90 degrees were seen.
378.81	29.55	7.95	6	100%	100%		
374.41	33.95						

NOTES