

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG**

1433

SHEET 1 OF 1

**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	BORING LOCATION (STA): 16+65	DRILLER: R.S. HINSON	
BORING NO: B1-A	PERSONNEL: DH RSH,JKS,	CORE SIZE: NXWL	
COLLAR ELEV: 409.98	DRILL MACHINE: CME-550	DATE STARTED: 08/14/02	
TOTAL DEPTH: 27.9	DRILL EQUIP: NXWL/NXCAS/	DATE COMPLETED: 08/14/02	
TOTAL RUN: 20.7			

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-A		NORTHING 0.00		EASTING 0.00		0 HR 1.80ft						
ALIGNMENT L		BORING LOCATION 16+65.000		OFFSET 6.00ft LT		24 HR 5.70ft						
COLLAR ELEV 409.98ft		TOTAL DEPTH 28.50ft		START DATE 8/14/02		COMPLETION DATE 08/14/02						
DRILL MACHINE CME-550			DRILL METHOD NW CAS/NXWL			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH			DEPTH TO ROCK 7.80ft			Log B1-A, 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			
409.98												Ground Surface
	5.70	5	41	40	1.0					81		0-3.0 ALLUVIUM, A-4
400.00												3' - 7.6' RESIDUAL TAN GRAY, DRY, FINE, HARD SANDY SILT
												7.6' - 7.8' WEATHERED ROCK AUGER REFUSAL AT BASE.
												7.8' - 28.5' ROCK.
390.00												
377.48												AUGER REFUSAL AT 7.8' CORE TO END OF BORING AT 28.5'

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
402.18	7.8	1.7	1	71%	60%		7.8'to 9.7' Hard, very slightly weathered, close to very close fractured, crystalline rock. Joints dipping at 65 degrees may be cleavage set. Light green mafic meta dyke
400.28	9.7	1.73	2	97.8%	97.8%		9.7' to 14.4' Hard, very slightly weathered mod close fractured, crystalline rock. Rare joints dipping at 70 degrees. 9.7' to 12', meta seds. 12' to 15.2' meta mafic dyke Jonts uncommon, but dips at 80, 70 and 20 degrees
395.58	14.4	9.28	3	93.1%	86.2%		14.4' to 20.2' Very hard, fresh, mod close fractured crystalline rock. Joints uncommon but with dips of 70,20, 45 and 60, all with similar strike. 15.2' to end of boring, silicified finegrained metaseds with variable remnant bedding.
389.78	20.2	9.34	4	97.8%	76.6%		20.2' to 24.9' Very hard, fresh mod close fractured crystalline rock. Joints uncommn, but dips were seen at 70,60,40 and 45 all with similar strike. Silicified metamorphosed sediments
385.08	24.9	70.0	5	100%	86.6%		24.9' to 27.9' Very hard, fresh, mod close fractured, crystalline rock. Joints are at 70, 45 and 20
382.08	27.9						27.9' is end of boring.

NOTES