

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

PROJECT NO 8.2860401		ID B-2583		COUNTY MADISON		GEOLOGIST SHELTON, T.P.								
SITE DESCRIPTION BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER							GND WATER							
BORING NO B5-B		NORTHING 0.00		EASTING 0.00		0 HR N/A								
ALIGNMENT -L-		BORING LOCATION 12+13.000		OFFSET 5.00m RT		24 HR N/A								
COLLAR ELEV 495.42m		TOTAL DEPTH 8.63m		START DATE 8/31/00		COMPLETION DATE 08/31/00								
DRILL MACHINE CME-550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC								
SURFACE WATER DEPTH 0.18m			DEPTH TO ROCK 1.99m			Log B5-B, Page 1 of 1								
ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm					SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm		0	25	50	75	100				
495.60														Surface Water Ground Surface
495.00	1.54	100		0.06					100					ALLUVIUM: BROWN-TAN-GREY GRAVEL & COBBLES W/ SOME SLIGHTLY MICACEOUS, SILTY (COARSE) SAND.
493.00														SWR/HWR: GREY, SL. SD.
491.00														BIO.-GRANITIC/ MINOR BIO.-HB. GNEISS. REC: 95% RQD: 53%
489.00														MIGMATITIC BIO.-GRANITIC GNEISS W/ MINOR BIO.-HB. GNEISS. REC: 98% RQD: 96%
487.99														FRESH-SLI. WEATHERED, MIGMATITIC BIO.-GRANITIC/ MINOR BIO.-HORNBLLENDE GNEISS. REC: 94% RQD: 83%
486.79														F.-CSE. GRAINED, MIGMATITIC BIO.-HB. & BIO.-GRANITIC GNEISS W/ SOME AMPHIBOLITE. REC: 96% RQD: 69%
														FRESH, V. HARD-HARD, MOD. WELL FOLIATED, MIGMATITIC AMPHIBOLITE & BIOTITE-HORNBLLENDE GNEISS. REC: 97% RQD: 82%
BORING TERMINATED IN ROCK (MIGMATITIC BIO.-HORNBLLENDE GNEISS & AMPHIBOLITE) @ ELEV 486.79 M.														

CORE BORING REPORT									
PROJECT: 8.2860401		I. D. NO: B-2583		BORING NO: B5-B		GEOLOGIST: TREADWAY, M.A.			
DESCRIPTION: BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER									
COUNTY: MADISON		COLLAR ELEVATION: 495.42 m			TOTAL DEPTH: 8.63 m				
ELEV. (m)	DEPTH (m)	DRILL RATE MIN/3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS		
493.43	1.99		0.68	0.65 95	0.36 53		SLIGHTLY GREEN-BROWN & WHITE-GREY, FINE TO COARSE-GRAINED, FRESH TO SLIGHTLY WEATHERED, EXTREMELY FRACTURED TO SOUND, HARD TO VERY HARD, WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC GNEISS W/ MINOR INTERLAYERED BIOTITE-HORNBLLENDE GNEISS. TRACE OF PYRITE; SPORADIC PITS & PARTIALLY HEALED TO HEALED FRACTURES.		
492.75	2.67			1.46 98	1.43 96		1 JNT. @ 5-15° ADT: 3mm 10 JNTS. @ 15-25° ADS: 32.7cm ADT: NOT ASCERTAINABLE 11 JNTS. (including 2 conjugate jnts.) @ 25-35° ADS: 38.3cm ADT: 5mm		
491.26	4.16			1.41 94	1.24 83		5 JNTS. @ 35-45° ADS: 56.8cm ADT: 3mm 7 JNTS. @ 50-60° ADS: 37.1cm ADT: 2mm		
489.77	5.65			1.43 96	1.03 69		STRATA REC: 95% STRATA RQD: 83%		
488.28	7.14			1.45 97	1.23 82	RS-9	[6.56m] SLIGHTLY BROWN, WHITE-GREY-GREEN, FINE TO COARSE-GRAINED, FRESH, EXTREMELY FRACTURED TO MAINLY SOUND, VERY HARD-HARD, MODERATELY WELL FOLIATED, MIGMATITIC BIOTITE-HORNBLLENDE GNEISS & AMPHIBOLITE.		
486.79	8.63					RSS-1	3 JNTS. @ 0-15° ADS: 44.2cm ADT: INDETERMINABLE 2 JNTS. @ 15-25° ADS: 2.2cm ADT: 1mm 4 JNTS. @ 35-45° ADS: 66.7cm(erratic spacing) ADT: 3mm STRATA REC: 98% STRATA RQD: 83% *END STRATA @ [8.63m]		
CORING TERMINATED AT ELEVATION 486.79 m									
DRILLER: W.A. GOSNELL			CORE SIZE: NXWL			EQUIPMENT: CME-550			

Updated 7/28/95