

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 B1-B		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT -L-		BORING LOCATION 11+41.000		OFFSET 5.00m RT		24 HR N/A						
COLLAR ELEV 495.19m		TOTAL DEPTH 6.60m		START DATE 9/13/00		COMPLETION DATE 09/13/00						
DRILL MACHINE CME-550			DRILL METHOD CORE BORING/CORE			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH 0.50m			DEPTH TO ROCK 0.73m			Log B1-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			
495.69												Surface Water
												Ground Surface
495.00											SAT	ALLUVIUM: BROWN-TAN-GREY GRAVEL & COBBLES.
											CORE 1	F.-CSE. GRAINED, FRESH-V. SLI. WEATHERED, MIGMATITIC HORNBLLENDE-BIO.-GRANITIC GNEISS. REC: 98% RQD: 85%
493.00											CORE 2	SLI. GN, BRN, WH-LGT. GREY, HARD-V. HARD, MIGMATITIC HORNBLLENDE-BIO.-GRANITIC GNEISS. REC: 91% RQD: 77%
											RSS-11 CORE 3	MIGMATITIC HB.-BIO.-GRANITIC GNEISS WITH SOME AMPHIBOLITE AND HORNFELS. REC: 97% RQD: 88%
491.00											RS-2 CORE 4	GN-DK BRN & WH-BLK-GREY, FRESH, HARD, MIGMATITIC BIO.-GRANITIC GNEISS W/ SOME HORNFELS & AMPHIBOLITE. REC: 91% RQD: 73%
489.00												BORING TERMINATED IN ROCK (MIGMATITIC BIOTITE-GRANITIC GNEISS) @ ELEV. 488.59 M.
488.59												

CORE BORING REPORT							DATE 10/30/00
PROJECT: 8.2860401		I. D. NO: B-2583		BORING NO: B1-B		GEOLOGIST: TREADWAY, M.A.	
DESCRIPTION: BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER							
COUNTY: MADISON		COLLAR ELEVATION: 495.19 m		TOTAL DEPTH: 6.60 m			
ELEV. (m)	DEPTH (m)	DRILL RATE MIN./3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
494.46	0.73		1.40	1.37	1.19		GN, BRN, WH-LGT. GREY, F.-CSE. GRAINED, FRESH-V. SLI. WEATHERED, PREPONDERANTLY MOD. FRAC.-SOUND, HARD-V. HARD, MIGMATITIC HORNBLLENDE-BIOTITE-GRANITIC GNEISS. OCCAS. PITS & VUGS W/MINOR MINERALIZATION (QZ.). JOINTS ARE BASICALLY ALONG CLEARLY DEFINED FOLIATION.
493.06	2.13			98	85		
493.06	2.13		1.49	1.35	1.15		3 JOINTS @ 5-15° ADS: 83.8cm ADT: 1mm
				91	77		8 JOINTS @ 15-25° ADS: 28.2cm ADT: 3mm
491.57	3.62					RSS-11	10 JOINTS @ 30-40° ADS: 34.5 cm ADT: 5mm
491.57	3.62		1.49	1.45	1.31		4 JOINTS @ 40-50° ADS: 60.2cm(erratic spacing) ADT: 3mm
				97	88		STRATA REC: 95% STRATA RQD: 82%
490.08	5.11					RS-2	[4.71m]
490.08	5.11		1.49	1.35	1.09		BLK-GREY, F.-MED. GRAINED, FRESH, SOUND, HARD HORNFELS W/SOME AMPHIBOLITE. OCCAS. PORPHYROBLASTS. 1 JNT. @ 21-25° ADT: <2mm
				91	73		STRATA REC: 100% STRATA RQD: 100% [5.635m]
488.59	6.60						DK BRN & WH-LGT. GREY, F.-CSE. GRAINED, FRESH, EXTR.-SLI. FRAC., HARD, WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC GNEISS. SPORADIC V. SMALL HEALED FRACTURES W/CALCITE ALTERATION.
488.59	6.60						3 JNTS. @ 0-10° ADS: 9.5cm ADT: 6mm
							2 JNTS. @ 15-25° ADS: 69cm ADT: INDISCERNIBLE
							4 JNTS. @ 30-40° ADS: 15.3cm ADT: 4mm
							1 JNT. @ 50-52° ADT: 3mm
							STRATA REC: 85% STRATA RQD: 59% *END STRATA @ [6.60m]*
CORING TERMINATED AT ELEVATION 488.59 m							
DRILLER: W.A. GOSNELL		CORE SIZE: NXWL		EQUIPMENT: CME-550			