

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 B2-B		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT -L-		BORING LOCATION 11+59.000		OFFSET 5.00m RT		24 HR N/A						
COLLAR ELEV 494.65m		TOTAL DEPTH 6.80m		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 0.55m			DEPTH TO ROCK 0.98m			Log B2-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			
495.20												Surface Water
												Ground Surface
494.00											SAT	ALLUVIUM: BROWN-TAN-GREY GRAVEL & COBBLES.
											CORE 1	DK BRN & WH-LGT. GREY, MIGMATITIC BIOTITE-GRANITIC GNEISS. REC: 96% RQD: 86%
492.00											CORE 2	FRESH-SLI. WEATHERED, HARD-V. HARD, F.-CSE. GRAINED, MIGMATITIC BIOTITE-TO-GRANITIC GNEISS. REC: 97% RQD: 93%
											RSS-10	FRESH-V. SLI. WEATHERED, MIGMATITIC BIOTITE-GRANITIC GNEISS. REC: 93% RQD: 65%
490.00											CORE 3	BRN-WH-LGT. GREY, HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIO.-GRANITIC GNEISS. REC: 98% RQD: 80%
											CORE 4	
488.88												BORING TERMINATED IN ROCK (MIGMATITIC BIOTITE-GRANITIC GNEISS) @ ELEV. 487.85 M.

CORE BORING REPORT

DATE 10/31/00

PROJECT: 8.2860401 I. D. NO: B-2583 BORING NO: B2-B GEOLOGIST: TREADWAY, M.A.
 DESCRIPTION: BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER
 COUNTY: MADISON COLLAR ELEVATION: 494.65 m TOTAL DEPTH: 6.80 m

ELEV. (m)	DEPTH (m)	DRILL RATE MIN./3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
493.67	0.98		1.35	1.30	1.16	RS-5	DARK BROWN & WHITE-LIGHT GREY, FINE TO COARSE-GRAINED, FRESH TO SLIGHTLY WEATHERED, DOMINANTLY SLIGHTLY FRACTURED & SOUND, HARD TO VERY HARD, WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC GNEISS WITH A TRACE OF PYRITE & HORNBLLENDE. SOME KINK BANDS & CRENULATIONS. VERY SMALL SHEAR ZONE (2.18-2.22m). JOINTS USUALLY
492.32	2.33			96	86		CONTAIN SLIGHT TO MODERATE IRON (FE) STAINS.
492.32	2.33			1.45	1.39		4 JNTS. @ 20-30° ADS: 46.8cm(erratic spacing) ADT: 4mm
				97	93		2 JNTS. @ 35-45° ADS: 2.5cm ADT: 3mm
490.83	3.82			1.49		RSS-10	4 JNTS. @ 50-60° ADS: 39.1cm ADT: 2mm
							STRATA REC: 97% STRATA RQD: 90% [3.82m]
490.83	3.82			1.38	0.97		BRN-WH-LGT. GREY, F.-CSE. GRAINED, FRESH-V. SLI. WEATHERED, EXTR. FRAC.-SOUND, HARD-V. HARD, MIGMATITIC BIOTITE-GRANITIC GNEISS W/ TRACE PYRITE, PITS & HORNBLLENDE. JOINTS CHIEFLY ALONG WELL-
				93	65		DEVELOPED FOLIATION. 1 JNT. @ 0-10° ADT: 3mm
489.34	5.31						3 JNTS. @ 20-30° ADS: 7.8cm ADT: INDISCERNIBLE
489.34	5.31			1.46	1.19		12 JNTS. @ 35-45° ADS: 21cm ADT: 4mm
				98	80		2 JNTS. @ 55-65° ADS: 6cm ADT: 2mm
							1 LONG IRREGULAR FRAC.(75-88°) EXTENDS FROM ~(4.485-4.955m). HAS VERY SLI. FE STAINS & MINOR CALCITE ALTERATION.
487.85	6.80						STRATA REC: 95% STRATA RQD: 73% [6.80m]
487.85	6.80						

CORING TERMINATED AT ELEVATION 487.85 m

DRILLER: W.A. GOSNELL CORE SIZE: NXWL EQUIPMENT: CME-550