

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 B9-B		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT -L-		BORING LOCATION 12+85.000		OFFSET 5.00m RT		24 HR N/A						
COLLAR ELEV 495.08m		TOTAL DEPTH 6.88m		START DATE 9/19/00		COMPLETION DATE 09/19/00						
DRILL MACHINE CME-550			DRILL METHOD CORE BORING/CORE			HAMMER TYPE AUTOHAMMER						
SURFACE WATER DEPTH 0.39m			DEPTH TO ROCK 1.66m			Log B9-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			
495.47												Surface Water
495.00												Ground Surface
												ALLUVIUM: BROWN-TAN-GREY GRAVEL & COBBLES.
										CORE 1		SLI.-MOD. WEATHERED, MIGMATITIC BIOTITE GNEISS. REC: 91% RQD: 33%
										CORE 2		F.-CSE. GRAINED, HARD-MOD. HARD, MIGMATITIC BIOTITE GNEISS. REC: 97% RQD: 43%
										RSS-2 CORE 3		FRESH, HARD-V. HARD, MIGMATITIC BIO.-HORNBLLENDE GNEISS W/ SOME BIO.-GRANITIC GNEISS. REC: 95% RQD: 92%
										CORE 4		WH-GREY & BRN-GN, F.-CSE. GRAINED, MIGMATITIC BIO.-HB. GNEISS W/ SOME BIO.-GRANITIC GNEISS. REC: 97% RQD: 97%
												BORING TERMINATED IN ROCK (MIGMATITIC BIOTITE-HORNBLLENDE GNEISS W/ SOME BIOTITE-GRANITIC GNEISS) @ ELEV. 488.20 M.

DATE 11/1/00

CORE BORING REPORT

PROJECT: 8.2860401 I. D. NO: B-2583 BORING NO: B9-B GEOLOGIST: TREADWAY, M.A.

DESCRIPTION: BRIDGE NO. 328 ON SR-1001 OVER FRENCH BROAD RIVER

COUNTY: MADISON COLLAR ELEVATION: 495.08 m TOTAL DEPTH: 6.88 m

ELEV. (m)	DEPTH (m)	DRILL RATE MIN./3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
493.42	1.66		0.75	0.68	0.25		F.-CSE. GRAINED, SLI.-MOD. WEATHERED, EXTR.-SLI. FRAC., HARD-MOD. HARD, WELL-FOLIATED, MIGMATITIC BIO. GNEISS W/ TRACE OF PYRITE, HORNBLLENDE & EPIDOTE. OCCAS. PARTIALLY HEALED FRACTURES. FRAG. ZONES W/ NOTABLE RUBBLE & MISSING MATERIAL @ (2.295-2.410m) & (3.12-3.345m). MOST JOINTS HAVE MODERATE-TO-HEAVY IRON STAINS.
492.67	2.41			1.45	0.64		10 JNTS. @ 0-15° ADS: 22.7cm ADT: INDETERMINABLE
492.67	2.41			1.49			7 JNTS. @ 15-25° ADS: 22.8cm ADT: INDETERMINABLE
491.18	3.90			97	43		13 JNTS. @ 25-35° ADS: 16.4cm ADT: INDETERMINABLE
491.18	3.90					RSS-2	8 JNTS. @ 35-45° ADS: 13.4cm ADT: 2mm **{STRATA REC: 95%}
491.18	3.90						2 JNTS. @ 50-60° ADS: 21.5cm ADT: 2mm **{STRATA RQD: 39%}
489.69	5.39			1.42	1.38		2 JNTS. @ 70-80° ADS: 99.3cm ADT: 1mm
489.69	5.39			1.49	92		2 JNTS. @ 80-90° ADS: 52cm ADT: INDETERMINABLE *END STRATA @ [3.90m]
489.69	5.39			1.45	1.44		WH-GREY & BRN-GN, F.-CSE. GRAINED, FRESH, MAINLY SLI. FRAC.-SOUND, HARD-V. HARD, SLI. MASSIVE TO MOSTLY WELL-FOLIATED, MIGMATITIC BIO.-HORNBLLENDE GNEISS W/ SOME BIO.-GRANITIC GNEISS. SPORADIC PARTIALLY HEALED & HEALED FRACS. ACCESSORY PYRITE & EPIDOTE.
488.20	6.88			97	97		2 JNTS. @ 0-15° ADS: 32.4cm ADT: 5mm
488.20	6.88						2 JNTS. @ 15-25° ADS: 1.171m ADT: INDISCERNIBLE
488.20	6.88						2 JNTS. @ 35-45° ADS: 32.4cm ADT: INDISCERNIBLE
488.20	6.88						STRATA REC: 96% STRATA RQD: 95% *END STRATA @ [6.88m]

CORING TERMINATED AT  
ELEVATION 488.20 m

DRILLER: E.R. BAILEY CORE SIZE: NXWL EQUIPMENT: CME-550