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 B3-A	**NORTHING** 0.00	**EASTING** 0.00		**0 HR** 0.31m
ALIGNMENT -L-	**BORING LOCATION** 11+77.000	**OFFSET** 5.00m LT		**24 HR** 0.30m
COLLAR ELEV 495.52m	**TOTAL DEPTH** 7.00m	**START DATE** 9/26/00	**COMPLETION DATE** 09/26/00	
DRILL MACHINE CME-550	**DRILL METHOD** SPT CORE BORING		**HAMMER TYPE** AUTOMATIC	
SURFACE WATER DEPTH N/A	**DEPTH TO ROCK** 2.19m		**Log B3-A, Page 1 of 1**	

ELEV	DEPTH	BLOW CT 15cm	15cm	15cm	PEN (m)	BLOWS PER 30cm 0 25 50 75 100	SAMPLE NO	MOI	LOG	SOIL AND ROCK DESCRIPTION
495.52						Ground Surface				
495.00	1.22	18	24	21	0.30	45		W		ALLUVIUM: BROWN-TAN & GREY, SLIGHTLY MICACEOUS, SILTY (COARSE) SAND & GRAVEL W/ BASAL BOULDERS (BLDRS. CORED IN CORE 1).
							CORE 1			
493.00							CORE 2			MOSTLY GNEISS. HARD ROCK REC: 91% HARD RK. RQD: 91%
							RS-6			MIGMATITIC AMPHIBOLITE, BIO.-GRANITIC & BIO.-HB. GNEISS. REC: 99% RQD: 82%
491.00							CORE 3			F.-CSE. GRAINED, FRESH, MIGMATITIC AMPHIBOLITE, BIO.-GRANITIC & BIO.-HB. GNEISS. REC: 96% RQD: 88%
							CORE 4			HARD-V. HARD, WELL-FOLIATED, MIGMATITIC AMPHIBOLITE, BIOTITE-GRANITIC & BIOTITE-HORNBLENDE GNEISS. REC: 98% RQD: 97%
489.00										
488.52						BORING TERMINATED IN ROCK (MIGMATITIC BIO.-GRANITIC & BIO.-HORNBLENDE GNEISS W/ AMPHIBOLITE) @ ELEV. 488.52 M				

DATE 10/31/00

CORE BORING REPORT

PROJECT: 8.2860401 I. D. NO: B-2583 BORING NO: B3-A GEOLOGIST: TREADWAY, M.A.

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

COUNTY: MADISON COLLAR ELEVATION: 495.52 m TOTAL DEPTH: 7.00 m

ELEV. (m)	DEPTH (m)	DRILL RATE MIN./.3 m	RUN (m)	REC. METERS / %	RQD. METERS / %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
493.64	1.88		0.65	0.31 / 47	0.31 / 47		CORED ALLUVIAL BOULDERS FROM (1.88-2.19m). HARD ROCK @ 2.19m. HARD ROCK REC (2.19-2.53m): 91% HARD ROCK RQD (2.19-2.53m): 91%
492.99	2.53		1.49	1.47 / 99	1.23 / 82	RS-6	HETEROGENEOUS, BROWN-GREY-GREEN & WHITE-LIGHT GREY, FINE TO COARSE-GRAINED, FRESH, MOSTLY SLIGHTLY FRACTURED TO SOUND, HARD TO VERY HARD, INTERLAYERED, MIGMATITIC BIOTITE-GRANITIC GNEISS & BIOTITE-HORNBLENDE GNEISS WITH AMPHIBOLITE. TRACE OF PYRITE, SLIGHT CALCITE ALTERATION & AN OCCASIONAL PARTIALLY HEALED FRACTURE. JOINTS ARE MAINLY ALONG WELL-DEVELOPED FOLIATION.
491.50	4.02		1.49	1.43 / 96	1.32 / 88		1 JOINT @ 0-10° ADT: 4mm 1 JOINT @ 10-20° ADT: 1mm 6 JOINTS @ 35-45° ADS: 70.4cm ADT: NOT ASCERTAINABLE 2 JOINTS @ 45-55° ADS:1.347m ADT: NOT ASCERTAINABLE 4 JOINTS @ 60-70° ADS: 52.3cm ADT: NOT ASCERTAINABLE
490.01	5.51		1.49	1.46 / 98	1.45 / 97		STRATA REC: 97% STRATA RQD: 89%
488.52	7.00						[7.00m]

CORING TERMINATED AT ELEVATION 488.52 m

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