

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 EB1-B		NORTHING 0.00		EASTING 0.00		0 HR N/A							
ALIGNMENT -L-		BORING LOCATION 11+28.000		OFFSET 5.00m RT		24 HR N/A							
COLLAR ELEV 502.66m		TOTAL DEPTH 15.05m		START DATE 9/27/00		COMPLETION DATE 09/27/00							
DRILL MACHINE CME-550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC							
SURFACE WATER DEPTH			DEPTH TO ROCK 9.09m			Log EB1-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
502.66													
502.00	1.49	3	4	1	0.30	5							EMBANKMENT: GREY-BLACK & BROWN-TAN, SLIGHTLY MICACEOUS, SILTY SAND W/ SOME ROCK FRAGMENTS.
500.00	3.01	8	2	1	0.30	3							
498.00	4.53	10	2	12	0.30	14							
496.00	6.05	24	80	20	0.17				100				EMBANKMENT: GREY-BROWN-TAN ROCK FRAGMENTS.
494.00	7.57	15	12	18	0.30	30							ALLUVIUM: BROWN-TAN, SLIGHTLY MICACEOUS, SILTY SAND WITH SOME GRAVEL.
													SWR/HWR: GREY, SL. SD.
													F.-CSE. GRAINED, HARD-V. HARD, MIGMATITIC BIOTITE-TO-GRANITIC GNEISS. REC: 29% RQD: 17%
													SLI. GN, BRN & WH-GREY, FRESH-SLI. WEATHERED, MIGMATITIC BIOTITE-GRANITIC GNEISS. REC: 66% RQD: 49%
													MIGMATITIC BIO.-GRANITIC GNEISS W/ BIOTITE GNEISS & V. MINOR AMPHIBOLITE HORNFELS. REC: 99% RQD: 98%
													MIGMATITIC BIOTITE-GRANITIC GNEISS W/ BIO. GNEISS & VERY MINOR AMPHIBOLITE HORNFELS. HARD-V. HARD. REC: 98% RQD: 98%
488.00													BORING TERMINATED IN ROCK (MIGMATITIC BIO.-GRANITIC GNEISS) @ ELEV. 487.61 M.
487.61													

CORE BORING REPORT

PROJECT: 8.2860401 I. D. NO: B-2583 BORING NO: EB1-B GEOLOGIST: TREADWAY, M.A.

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

COUNTY: MADISON COLLAR ELEVATION: 502.66 m TOTAL DEPTH: 15.05 m

ELEV. (m)	DEPTH (m)	DRILL RATE MIN./3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
493.57	9.09		1.49	0.44	0.25		F.-CSE. GRAINED, FRESH-SLI. WEATHERED, EXTR. FRAC.-SOUND, HARD-V. HARD, WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC GNEISS. FRACTURE ZONES W/ NOTABLE MISSING MATERIAL & RUBBLE @ (9.335-10.780m) & (10.925-11.225m). TRACE PYRITE & SPORADIC PARTIALLY HEALED FRAC.
492.08	10.58			29	17		5 JNTS. @ 15-25° ESTIMATED ADS: 23.8cm ADT: INDETERMINABLE
492.08	10.58		1.49	0.99	0.73		5 JNTS. @ 25-35° ESTIMATED ADS: 40cm ADT: INDETERMINABLE
				66	49		2 JNTS. @ 35-45° ESTIMATED ADS: 81.7cm ADT: INDETERMINABLE
							2 JNTS. @ 45-55° ESTIMATED ADS: 67.8cm ADT: INDETERMINABLE
490.59	12.07						1 JNT. @ 55-65° ADT: 4mm *(MOST JNTS. HAVE SLI.-HEAVY FE STAINS).
							STRATA REC: 48% STRATA RQD: 33% [12.07m]
490.59	12.07		1.49	1.48	1.46		PINK, GN, BRN, WH-GREY, F.-CSE. GRAINED, FRESH-V. SLI. WEATHERED, EXTR. FRAC.-MOSTLY SOUND, HARD-V. HARD, MOSTLY WELL-FOLIATED, MIGMATITIC BIOTITE-GRANITIC GNEISS W/ INTERLAYERED BIOTITE GNEISS & VERY MINOR AMPHIBOLITE HORNFELS. TRACE OF PYRITE.
489.10	13.56			99	98		
489.10	13.56		1.49	1.47	1.45		1 JNT. @ 0-10° ADT: INDETERMINABLE
				98	98		2 JNTS. @ 15-25° ADS: 84.3cm ADT: 1mm
							2 JNTS. @ 25-35° ADS: 1.40cm ADT: 6mm
487.61	15.05						2 JNTS. @ 35-45° ADS: 43.1cm ADT: 2mm
							STRATA REC: 99% STRATA RQD: 98% [15.05m]
487.61	15.05						

CORING TERMINATED AT ELEVATION 487.61 m

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