

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG**

PROJECT NO 34357.1.1		ID R-0977A		COUNTY CHEROKEE		GEOLOGIST TB DANIEL								
SITE DESCRIPTION US 64 EBL OVER HIWASSEE RIVER AT -LC1B- 16+02.3 POT							GND WATER							
BORING NO EB2-B		NORTHING 0.00		EASTING 0.00		0 HR N/A								
ALIGNMENT -LC1B-		BORING LOCATION 17+07.655		OFFSET 10.29m RT		24 HR 0.71m								
COLLAR ELEV 464.53m		TOTAL DEPTH 9.14m		START DATE 2/03/04		COMPLETION DATE 02/03/04								
DRILL MACHINE CME-550			DRILL METHOD CORE BORING			HAMMER TYPE AUTOMATIC								
SURFACE WATER DEPTH			DEPTH TO ROCK N/A			Log EB2-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				
464.53														Ground Surface
464.00	1.59	0	0	0	0.30	0						SS-5		ALLUVIUM: BROWN FINE SANDY CLAY
462.00	3.11	66	34	0.22					100					ALLUVIUM: SAND AND BASAL GRAVEL
460.00														WEATHERED ROCK
460.00														CRYSTALLINE ROCK, TOTAL CORE RUN=5.76 TOTAL REC=96% TOTAL RQD=68%
458.00														
456.00														
455.39														CORING TERMINATED IN HARD FRESH PHYLLITE AT A DEPTH OF 9.14 METERS.

SHEET 20 OF 33
DATE 2/3/04

CORE BORING REPORT

PROJECT:	8.1910203	I. D. NO:	R-0977A	BORING NO:	EB2-B	GEOLOGIST:	TB DANIEL
DESCRIPTION:	BRIDGE ON -LC1B- (US 64) OVER -HIWASSEE RIVER 17+07.655 10.29 RT. -LCIB-						
COUNTY:	CHEROKEE	COLLAR ELEVATION:	464.53 m	TOTAL DEPTH:	9.14 m		
ELEV. (m)	DEPTH (m)	DRILL RATE MIN./3 m	RUN (m)	REC. METERS %	RQD. METERS %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
461.15	3.38		0.84	0.82	0.37		MN OXIDE DEPOSITS W/ SLICKENSIDES ON BEDDING BREAKS. 3.38 - 4.74 MODERATELY SEVERE TO MODERATELY WEATHERED. SOFT TO MEDIUM HARD. BEDDING 45 TO 50 DEGREES. PHYLLITE
460.31	4.22			98	44		
460.31	4.22			1.44	0.66		SLIGHT TO FRESH, MODERATELY HARD TO HARD. PHYLLITE 3 BREAKS ACROSS BEDDING STAINED W/ BLACK MN OXIDES. 2 BREAKS ON BEDDING, 1 WITH 2MM MN OXIDE INFILLING, SLICKENED.
458.79	5.74		1.52	95	43		
458.79	5.74		1.49	1.42	1.27		
457.30	7.23			95	85		
457.30	7.23		1.47	1.44	1.18		
455.83	8.70			98	80		
455.83	8.70		0.44	0.44	0.44		
455.39	9.14			100	100		
CORING TERMINATED AT ELEVATION 455.39 m							
DRILLER: JT WILLIAMS		CORE SIZE: NWD-4		EQUIPMENT: CME-550			

Updated 7/26/95