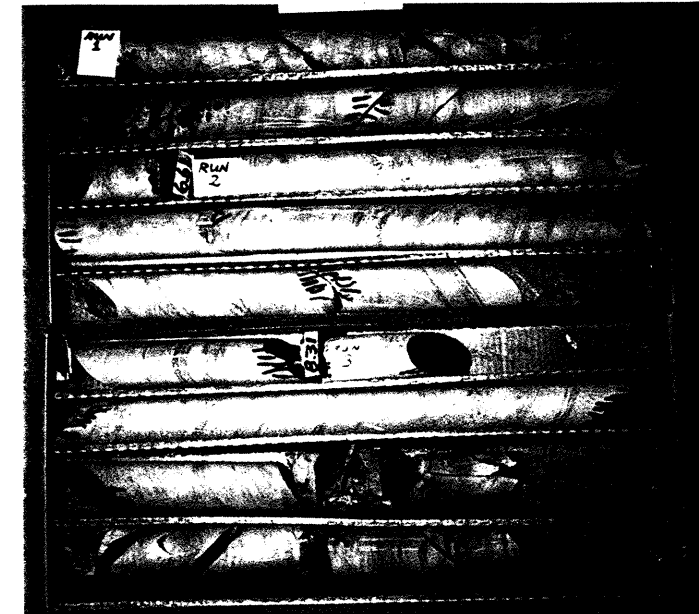


NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG

PROJECT NO: 8.1910203 (R-977A)
 CHEROKEE COUNTY
 BRIDGE 4

PROJECT NO 8.1910203	ID R-977A	COUNTY CHEROKEE	GEOLOGIST T.P. SHELTON
SITE DESCRIPTION BRIDGE ON US 64 OVER HIWASSEE RIVER AT PEACHTREE			GND WATER
BORING NO WBL EB1-A	NORTHING 0.00	EASTING 0.00	0 HR N/A
ALIGNMENT -L-REV	BORING LOCATION 67+45.000	OFFSET 17.00m LT	24 HR N/A
COLLAR ELEV 476.59m	TOTAL DEPTH 9.83m	START DATE 11/13/97	COMPLETION DATE 11/13/97
DRILL MACHINE CME 550	DRILL METHOD SPT CAS ADV NXWL	HAMMER TYPE AUTOMATIC	
SURFACE WATER DEPTH		DEPTH TO ROCK 5.27m	Log WBL EB1-A, 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				
476.59														
476.00	0.71	1	1	1	0.3	X							W	ALLUVIUM: BROWN, VERY LOOSE SILTY SAND
474.00	2.23	1	1	2	0.3	X							W	BROWN, VERY LOOSE SAND AND GRAVEL
472.00	3.76	20	100	0	0.0					100	X		M	OLIVE GRAY, SILTY SOFT WEATHERED ROCK
470.00													COR 1	SLIGHTLY WEATHERED, FRACTURED PHYLLITE REC=85% RQD=22%
468.00													COR 2	FRESH, SOUND PHYLLITE WITH 20CM FRACTURED ZONE NEAR BASE REC=95% RQD=81%
466.76													COR 3	
BORING TERMINATED AT ELEVATION 466.764 METERS IN ROCK														



WBL EB1-A

COR 1: 5.27-6.61	REC=90%	RQD=49%
COR 2: 6.61-8.31	REC=98%	RQD=98%
COR 3: 8.31-9.83	REC=98%	RQD=63%

LAYER 1: 5.27-6.08 Moderately hard, slightly to moderately weathered, moderately fractured, gray and brown, banded phyllite. 14 pieces, longest piece 17cm. Foliation dips 50°. 9 joints on foliation, ADS=7cm, ADT=0.01cm, smooth to moderately rough, with Fe and Mn oxide coating. 1 joint at 60°, t=0.01cm, smooth with Fe and Mn oxide coating. 1 joint at 20°, moderately rough, with Fe and Mn oxide. REC= 85% RQD=22%

LAYER 2: 6.08-9.83 Moderately hard, fresh, sound, gray phyllite, slightly weathered, extremely fractured in 10cm seam near base. 19 pieces, longest piece 83cm. Foliation dips 48°. 9 joints on foliation, ADS=34cm, ADT=0.01cm, smooth to moderately rough, with Fe and Mn stain on few. 3 joints at 43°, ADS=91cm, ADT=0.01cm, smooth to moderately rough, clean. 7 joints at 19°, ADS=7cm, ADT=0.01cm, smooth to moderately rough, with Fe and Mn oxide stain. REC=95° RQD=81°