

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

PROJECT NO 8.2761001		ID B-3266		COUNTY WILKES		GEOLOGIST L.LACKER							
SITE DESCRIPTION BR. 264 ON SR-1567 OVER N. FORK REDDIES RIVER							GND WATER						
BORING NO B3-B		NORTHING 0.00		EASTING 0.00		0 HR 1.30m							
ALIGNMENT -L-		BORING LOCATION 12+61.300		OFFSET 4.70m RT		24 HR N/A							
COLLAR ELEV 389.15m		TOTAL DEPTH 10.77m		START DATE 10/29/03		COMPLETION DATE 10/29/03							
DRILL MACHINE CME 550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC							
SURFACE WATER DEPTH			DEPTH TO ROCK 4.15m			Log B3-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
389.15													
388.00	1.20	17	15	17	0.30								ALLUVIUM: COARSE SAND, GRAVEL AND BOULDERS
	2.37	100			0.05								
386.00	3.89	40	60		0.25								SAPROLITE: BROWN, MICACEOUS SILTY SAND WEATHERED ROCK
384.00													HARD ROCK: SLI. TO MOD. SEV. WEATHERED BIOTITE GNEISS, MICA SCHIST, AND GRANITE REC=88 RQD=29
382.00													
380.00													HARD ROCK: SLI. WEATHERED BIOTITE GNEISS AND GRANITE REC=84 RQD=51
378.38													TERMINATED BORING IN HARD ROCK AT ELEVATION 378.38 METERS.

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WILKES COUNTY

CORE BORING REPORT

B3-B

CORE 1: 4.15 – 5.21	REC=98% RQD=50%
CORE 2: 5.21 – 6.73	REC=73% RQD=11%
CORE 3: 6.73 – 8.25	REC=90% RQD=33%
CORE 4: 8.25 – 9.71	REC=98% RQD=53%
CORE 5: 9.71 – 10.77	REC=66% RQD=35%

LAYER 1: 4.15 – 8.74 Medium hard to hard, moderately severely to slightly weathered biotite gneiss, mica schist, and granite sills in layers about 0.5 meters thick. Very close to close fractured, >100 pieces, longest piece 17 cm. Numerous joints on foliation at 10-20 degrees, smooth. At least 6 joints at 30-40 degrees, moderately rough. 5 joints at 60-80 degrees, moderately rough. Joints coated with Fe-oxide and some with Mn-oxide or with alum. REC=88% RQD=29%

LAYER 2: 8.74 – 10.77 Hard, slightly weathered biotite gneiss interlayered with granite sills, becoming all granite below 9.71 meters depth. Close fractured, 19 pieces, longest piece 27 cm. 7 joints on foliation at 10-20 degrees, smooth, coated with Fe-oxide or with white mica. 2 joints on chlorite veins at 20-40 degrees, smooth. 1 joint at 80 degrees, rough, coated with Fe-oxide. A few unopened joints at 70-90 degrees in granite. REC=84% RQD=51%