

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 8.2495501		ID. B-3649		COUNTY GUILFORD		GEOLOGIST J. L. LOVE	
SITE DESCRIPTION BRIDGE NO. 227 ON -L- (SR 3000) OVER BEAVER CREEK							GROUND WATER
BORING NO. BI-B		BORING LOCATION 17+09		OFFSET 17' RT		ALIGNMENT -L-	
COLLAR ELEVATION 614.2'		NORTHING 834305		EASTING 1803092		0 HR. N/A	
TOTAL DEPTH 44.6'		DRILL MACHINE BK-51		DRILL METHOD NW-CASING		HAMMER TYPE AUTOMATIC	
START DATE 05/07/03		COMPLETION DATE 05/07/03		SURFACE WATER DEPTH N/A		DEPTH TO ROCK 14.9'	

ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT			PEN. (FT.)	BLOWS PER FOOT				SAMPLE NUMBER	MOI.	LOG	SOIL AND ROCK DESCRIPTION
		0.5'	1.0'	1.5'		0	25	50	75				
614.2													ROADWAY EMBANKMENT, RED-ORANGE, SILTY CLAY
610.0	4.9	3	2	2	1.0	X 4						M	
605.0	9.9	5	2	7	1.0	X 9						M	ALLUVIAL, BROWN, SILTY SAND WEATHERED ROCK (METAMORPHOSED GRANITE)
600.0	14.9	60			0.0								CRYSTALLINE ROCK (METAMORPHOSED GRANITE AND AMPHIBOLITE)
595.0													WEATHERED ROCK (METAMORPHOSED GRANITE)
590.0												RS-1	CRYSTALLINE ROCK (AMPHIBOLITE) DARK GRAY TO BLACK, MODERATELY WEATHERED TO FRESH, HARD, MODERATELY CLOSELY TO CLOSELY FRACTURED, AMPHIBOLITE
585.0													LIGHT GRAY, FRESH, VERY HARD, MODERATELY CLOSELY FRACTURED, METAMORPHOSED GRANITE
580.0												RS-4	DARK GRAY TO BLACK, MODERATELY WEATHERED TO FRESH, HARD MODERATELY CLOSELY TO WIDELY FRACTURED, AMPHIBOLITE
575.0												RS-2	LIGHT GRAY AND WHITE, FRESH, HARD, VERY WIDELY FRACTURED, METAMORPHOSED GRANITE
570.0													DARK GRAY, FRESH, HARD, VERY WIDELY FRACTURED AMPHIBOLITE
565.0													REC = 86% ROD = 51%
560.0													
555.0													
550.0													
545.0													
540.0													
535.0													

CORING TERMINATED AT ELEVATION 569.6 FEET IN CRYSTALLINE ROCK (AMPHIBOLITE)

CORE BORING REPORT

PROJECT: 8.2495501	ID: B-3649	COUNTY: Guilford	BORING NO: B1-B
DESCRIPTION: Bridge No. 227 on -L- (SR 3000) over Beaver Creek			
LOCATION OF BORING: -L- Sta. 17+09, 17 RT		COMPLETION DATE: 5/7/03	
COLLAR or GROUND ELEVATION: 614.2 ft		CORE SIZE: NXWL	GEOLOGIST: N.T.R., J.L.L.
CORE EQUIPMENT: BK-51		DRILLER: L.B.M.	

ELEV (ft)	DEPTH (ft)	DRILL RATE (min/ft)	RUN (ft)	REC (%)	RQD (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
599.3	14.9	1:35	4.7	3.0	0.5		14.9 - 15.5; DARK GRAY, MODERATELY SEVERELY WEATHERED, MODERATELY HARD, CLOSELY FRACTURED, AMPHIBOLITE
		2:40					
		2:21					
594.6	19.6	1:32	5.0	4.7	2.5		15.5 - 16.5; LT. GRAY, MOD. WEATHERED, HARD, CLOSELY FRACT'D, METAMORPHOSED GRANITE
		1:12/0.7'					
594.6	19.6	0:57					16.5 - 17.9; DARK GRAY, MOD. WEATHERED, HARD, CLOSELY FRACTURED, AMPHIBOLITE
589.6	24.6	1:26	5.0	4.7	2.5		17.9 - 19.6; WEATHERED ROCK (METAMORPHOSED GRANITE)
		1:35					
		1:31					
589.6	24.6	2:15					19.6 - 19.9; WEATHERED ROCK (METAMORPHOSED GRANITE)
589.6	24.6	1:12	5.0	5.0	3.0	RS-1	24.6 - 28.9; DARK GRAY TO BLACK, MODERATELY WEATHERED TO FRESH, HARD, MODERATELY CLOSELY TO CLOSELY FRACTURED, AMPHIBOLITE
		1:19					
		1:30					
584.6	29.6	1:40	5.0	5.0	3.0		28.9 - 29.6; LIGHT GRAY, FRESH, VERY HARD, MODERATELY CLOSELY FRACTURED, METAMORPHOSED GRANITE
		2:08					
584.6	29.6	2:11	5.0	2.7	1.4		29.6 - 34.6; DARK GRAY TO BLACK, MODERATELY WEATHERED TO FRESH, HARD, MODERATELY CLOSELY TO CLOSELY FRACTURED, AMPHIBOLITE
		3:13					
		3:04					
579.6	34.6	2:03	5.0	5.0	3.2		
		2:04					
579.6	34.6	1:28	5.0	5.0	3.2		34.6 - 39.6; DARK GRAY TO BLACK, MODERATELY WEATHERED TO FRESH, HARD, MODERATELY CLOSELY TO CLOSELY FRACTURED, AMPHIBOLITE
		2:04					
		2:00					
574.6	39.6	2:02	5.0	5.0	5.0	RS-4	39.6 - 42.0; DARK GRAY TO BLACK, MODERATELY WEATHERED TO FRESH, HARD, MODERATELY CLOSELY TO CLOSELY FRACTURED, AMPHIBOLITE
		1:49					
574.6	39.6	2:00	5.0	5.0	5.0		42.0 - 43.7; LIGHT GRAY AND WHITE, FRESH, HARD, UNFRACTURED, METAMORPHOSED GRANITE
		2:02					
		2:03					
569.6	44.6	2:26	5.0	5.0	5.0	RS-2	43.7 - 44.6; DARK GRAY, FRESH, HARD, UNFRACTURED, AMPHIBOLITE
		3:14					

BOREHOLE TERMINATED AT ELEVATION OF 569.6 FEET, IN ROCK.