

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 GEOTECHNICAL UNIT BORING LOG

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 8.T540402	ID. R-2417BB	COUNTY LEE	GEOLOGIST E.C. CAMPBELL
SITE DESCRIPTION STRUCTURE NO. 1 ON -YI- (SR 1524, O'QUINN RD.) OVER -L- (SANFORD BYPASS, US 421/NC 87)			GROUND WATER
BORING NO. EBI-A	BORING LOCATION 18+88	OFFSET 19' LT	ALIGNMENT -YI-
COLLAR ELEVATION 433.4'	NORTHING 626847	EASTING 1963804	0 HR. 41.2'
TOTAL DEPTH 63.7'	DRILL MACHINE CME-45C	DRILL METHOD H.S. AUGERS	24 HR. 33.9'
START DATE 9/9/03	COMPLETION DATE 9/9/03	SURFACE WATER DEPTH N/A	DEPTH TO ROCK 63.7'

PROJECT NO. 8.T540402	ID. R-2417BB	COUNTY LEE	GEOLOGIST E.C. CAMPBELL
SITE DESCRIPTION STRUCTURE NO. 1 ON -YI- (SR 1524, O'QUINN RD.) OVER -L- (SANFORD BYPASS, US 421/NC 87)			GROUND WATER
BORING NO. EBI-B	BORING LOCATION 18+69	OFFSET 16' RT	ALIGNMENT -YI-
COLLAR ELEVATION 432.6'	NORTHING 626870	EASTING 1963772	0 HR. N/A
TOTAL DEPTH 58.3'	DRILL MACHINE CME-45C	DRILL METHOD MUD ROTARY	24 HR. 12.5'
START DATE 9/9/03	COMPLETION DATE 9/10/03	SURFACE WATER DEPTH N/A	DEPTH TO ROCK 57.5'

ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT			PEN. (FT.)	BLOWS PER FOOT				SAMPLE NUMBER	MOI.	LOG	SOIL AND ROCK DESCRIPTION
		0.5'	0.5'	0.5'		0	25	50	75				
433.4													
430.0	4.2	3	5	10	1.0							SS-1	18% COASTAL PLAIN, RED-BROWN, SILTY CLAY
425.0	9.2	4	8	8	1.0							SS-2	M ORANGE-BROWN, CLAYEY SAND
420.0	14.2	11	7	5	1.0							SS-3	M ORANGE-BROWN AND TAN, SILTY CLAY
415.0	19.2	4	6	6	1.0							SS-4	26% ORANGE-BROWN, SILTY CLAY
410.0	24.2	2	6	8	1.0							SS-5	M RESIDUAL, PINK-TAN AND LIGHT GRAY, SAPROLITIC, SILTY CLAY
405.0	29.2	5	7	6	1.0								
400.0	34.2	2	5	8	1.0								
395.0	39.2	4	9	10	1.0							SS-6	33% LIGHT GRAY, BLACK, TAN, AND ORANGE-BROWN, SAPROLITIC, SANDY SILT
390.0	44.2	13	18	35	1.0								
385.0	49.2	9	21	28	1.0							SS-7	M WEATHERED ROCK (BIOTITE GNEISS)
380.0	54.2	38	62		0.8								
375.0	59.2	23	25	25	1.0								
370.0	63.7	60			0.0								
365.0													
360.0													
355.0													

ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT			PEN. (FT.)	BLOWS PER FOOT				SAMPLE NUMBER	MOI.	LOG	SOIL AND ROCK DESCRIPTION
		0.5'	0.5'	0.5'		0	25	50	75				
432.6													
430.0	3.3	1	8	14	1.0								
425.0	8.3	7	10	12	1.0								
420.0	13.3	10	15	10	1.0							SS-8	M ORANGE-BROWN, CLAYEY SAND
415.0	18.3	6	7	7	1.0							SS-9	44% ORANGE-BROWN, SILTY CLAY
410.0	23.3	4	5	9	1.0								
405.0	28.3	2	4	6	1.0								
400.0	33.3	2	2	4	1.0								
395.0	38.3	3	5	7	1.0							SS-10	M RESIDUAL, PINK-TAN, SAPROLITIC, SILTY CLAY
390.0	43.3	3	7	10	1.0								
385.0	48.3	7	13	24	1.0								
380.0	53.3	100			0.3								
375.0	58.2	60			0.0								
370.0													
365.0													
360.0													
355.0													

AUGER REFUSAL AT ELEVATION 369.7 FEET IN CRYSTALLINE ROCK (BIOTITE GNEISS)

BORING TERMINATED AT ELEVATION 374.3 FEET IN CRYSTALLINE ROCK (BIOTITE GNEISS)