



**CATLIN**  
ENGINEERS and SCIENTISTS

NCDOT  
BORING LOG

SHEET 1 OF 1

PROJECT NO. 8.1442601		ID. U-0620		COUNTY CUMBERLAND		GEOLOGIST Charles Ray							
SITE DESCRIPTION Bridge on Hope Mills Bypass (-L-) over Beaver Creek						GROUND WATER (ft)							
BORING NO. B1-C		BORING LOCATION 31+86		OFFSET 0ft CL		ALIGNMENT -L-							
COLLAR ELEV. 121.2 ft		NORTHING 456,005		EASTING 2,006,381		0 HR. 2.9							
TOTAL DEPTH 34.0 ft		DRILL MACHINE D-50		DRILL METHOD Mud Rotary		HAMMER TYPE Manual							
DATE STARTED 6/25/01		COMPLETED 6/25/01		SURFACE WATER DEPTH									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
121.2	0.0												Ground Surface
118.7	2.5	2	8	8									Tan, gray, moderately sorted, SILTY, v.f. to f. SAND with wood and asphalt frags. ROADWAY EMBANKMENT
		2	3	2									Black SILT. ALLUVIUM
113.7	7.5												Tan, f. to cse. SAND with gravels up to 2mm. Grades into a silty gravel with qtz. gravels up to 5mm.
108.7	12.5	12	23	14									
103.7	17.5	1	8	12									
98.7	22.5	5	10	11									Tan to light gray, white, SILTY/CLAYEY, v.f. to f./cse. SAND with mica, trace cse. grains, and interbedded clay layers. (v.sev. weathered LS.) CAPE FEAR FORMATION
93.7	27.5	6	17	16									
88.7	32.5	7	12	13									
		7	10	9									
													Boring Terminated at Elevation 87.2 ft in light gray, SILTY/CLAYEY, v.f. to f./cse. SAND w/trace cse. grains. Cape Fear Formation



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SITE DESCRIPTION Bridge on Hope Mills Bypass (-L-) over Beaver Creek						GROUND WATER (ft)							
BORING NO. B1-B		BORING LOCATION 31+96		OFFSET 55ft RT		ALIGNMENT -L-							
COLLAR ELEV. 122.9 ft		NORTHING 455,957		EASTING 2,006,354		0 HR. 4.6							
TOTAL DEPTH 50.0 ft		DRILL MACHINE CME45B ATV		DRILL METHOD Mud Rotary		HAMMER TYPE Manual							
DATE STARTED 6/19/01		COMPLETED 6/19/01		SURFACE WATER DEPTH									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
122.9	0.0												Ground Surface
		1	1	2									Brown, SILTY, well sorted v.f. to f. SAND with roots. ALLUVIUM
118.4	4.5												Gray to light gray, moderately sorted, v.f. to f./cse. SAND with trace cse. grains. Grades into a well sorted, f./cse. to cse. SAND.
116.9	6.0	1	2	2									
114.4	8.5	5	8	7									
		3	3	5									
109.4	13.5												
		4	4	5									
104.4	18.5												
		5	7	7									
99.4	23.5												Light gray-white to gray, SILTY/CLAYEY, v.f. to cse. SAND with mica, and interbedded sandy clay layers. (v.sev. weathered LS.) CAPE FEAR FORMATION
94.4	28.5												
		6	6	9									
89.4	33.5												
		8	8	9									
		8	14	23									
84.4	38.5												
		13	16	22									
79.4	43.5												
		33	50	50/3									
74.4	48.5												
		21	26	33									
													Boring Terminated at Elevation 72.9 ft in reddish gray, hard, SILTY CLAY with f./cse. qtz. grains. Cape Fear Formation

NCDOT BORE DOUBLE 201-075-671 NC DOT GDT 8/15/01