



PROJECT NO. 34424.1.1	ID. R-2404A	COUNTY Bertie	GEOLOGIST M. Lear
SITE DESCRIPTION Dual Structures on US 17 (Windsor Bypass) over Cashie River (MACTEC Proj. No. 6468-04-0808)			GROUND WATER (ft)
BORING NO. MB-20			0 HR. Water
COLLAR ELEV. 0.1 ft	NORTHING 830,377	EASTING 2,607,627	24 HR. Boring
TOTAL DEPTH 100.6 ft	DRILL MACHINE CME 45 on Buggy	DRILL METHOD Mud Rotary	HAMMER TYPE 140-lb Manual
DATE STARTED 10/26/04	COMPLETED 10/26/04	SURFACE WATER DEPTH 0.50	

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	
0.1	0.0	woh	woh	woh	Mud Line									
0.1	0.0				0							0.1	Alluvium: Muck	0.0
-4.9	5.0	2	1	2								-2.9	Alluvium: Gray brown, silty CLAY (A-7-6) with trace organics and wood frags	3.0
-9.0	9.1	1	1	1								-12.4	Alluvium: Gray, f. to cse. SAND (A-3) with trace organics	12.5
-14.1	14.2	3	9	12								-17.4	Alluvium: Gray brown, micaceous, clayey SILT (A-4) with trace organics	17.5
-19.0	19.1	2	3	4								-21.9	Alluvium: Gray green and brown, f. sandy, silty CLAY (A-7-6) with trace to little organics	22.0
-24.0	24.1	2	3	4								-36.9	CPU: Light gray-green, thinly interbedded, f. to cse. SAND (A-3) and CLAY (A-6) [Sand sampled]	37.0
-29.0	29.1	2	3	5								-42.4	CPU: Light gray-green, f. sandy, clayey SILT (A-4) with trace organics	42.5
-34.0	34.1	3	4	5								-47.4	CPU: Gray, f. to cse. SAND (A-3) with trace gravel	47.5
-39.0	39.1	4	6	4								-57.4	Yorktown Fm: Dark green, glauconitic, clayey, silty f. to cse. SAND (A-2-4) with trace to little shell frags	57.5
-44.0	44.1	3	3	5								-61.9	Yorktown Fm: Dark green, glauconitic, f. to cse. sandy, clayey SILT (A-4)	62.0
-49.0	49.1	12	22	26								-67.4	Yorktown Fm: Dark green and white, glauconitic, silty, clayey, f. to cse. SAND (A-2-6) with thinly bedded, indurated, calcite cemented sandstone layers and shell fragments	67.5
-54.0	54.1	14	18	21										
-59.0	59.1	1	1	2										
-64.0	64.1	5	7	9										
-69.0	69.1	33	49	51/0.3										
-74.0	74.1													

NCDOT BORE SINGLE 0808.GPJ NC DOT.GDT 10/27/04



MACTEC

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		0.5ft	0.5ft	0.5ft	0	20	40	60	80			
-74.7					Continued from previous page							
-79.0	79.1	21	20	29							W	77.0 Yorktown Fm: Dark green, glauconitic, silty, f. to cse. SAND (A-2-4) with trace to little shell frags
-84.0	84.1	23	26	28							W	
-89.0	89.1	13	15	16							W	
-94.0	94.1	11	16	18							W	93.0 Yorktown Fm: Dark green, glauconitic, f. sandy SILT (A-4) with trace shell frags
-99.0	99.1	12	9	10							W	
		13	11	21							W	100.6 Boring terminated at 100.6 ft (Elev. -100.5 ft) in Yorktown Fm: Hard, f. sandy SILT (A-4) with trace shell frags Bits Used: 0.3' Roller Cone Drilling Fluid Properties: 8.9 lbs/gal