



PROJECT NO. 36722.1.1		ID. F-4700		COUNTY Currituck		GEOLOGIST M. Lear									
SITE DESCRIPTION Currituck and Knotts Island Ferry Basins (MACTEC Proj. No. 6468-03-0470)							GROUND WATER (ft)								
BORING NO. BH-3		BORING LOCATION		OFFSET		ALIGNMENT		0 HR. 3.7							
COLLAR ELEV. 4.3 ft		NORTHING 995,752		US ft		EASTING 2,878,259		US ft 24 HR. 3.7							
TOTAL DEPTH 38.7 ft		DRILL MACHINE CME-45, Trailer		DRILL METHOD Mud Rotary		HAMMER TYPE 140 lb Manual									
DATE STARTED 11/19/03		COMPLETED 11/19/03		SURFACE WATER DEPTH N/A											
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		
4.3													4.3	0.0	Ground Surface
4.3	0.0	3	3	3									SS-27	D-M	Artificial Fill: Brown, black, and tan, silty, f. to cse. SAND (A-2-4) w/ roots and trace asphalt fragments
1.3	3.0	3	2	2										M-W	
-3.0	7.3	7	4	3										Sat.	Alluvium: Brownish gray, silty, f. to cse. SAND (A-3) w/ trace shell fragments
-7.9	12.2	6	3	6										Sat.	CPU: Gray and yellowish, greenish gray, silty, f. SAND (A-3) w/ trace organic debris and shell fragments
-12.9	17.2	8	8	9									SS-28	Sat.	
-17.9	22.2	4	3	2										Sat.	CPU: Gray, f. sandy, SILT (A-4)
-22.9	27.2	10	10	8										Sat.	CPU: Gray, silty, f. to cse. SAND (A-2-4) w/ trace to little shell fragments
-27.9	32.2	7	6	6									SS-29	Sat.	
-32.9	37.2	2	2	3										W	Yorktown Fm: Dark green, f. sandy, silty CLAY (A-7-6) w/ trace shell fragments
															Boring terminated at 38.7ft (Elev.-34.4ft) in Yorktown Fm: Medium stiff, f. sandy, silty CLAY (A-7-6) with trace shell fragments
															Bits Used: 2.5" finger bit
															Drilling Fluid Properties: 8.8 lbs/gal

NCDOT BORE, E. KNOTTS.GPJ NC DOT.GDT 1/16/04



PROJECT NO. 36722.1.1		ID. F-4700		COUNTY Currituck		GEOLOGIST M. Lear									
SITE DESCRIPTION Currituck and Knotts Island Ferry Basins (MACTEC Proj. No. 6468-03-0470)							GROUND WATER (ft)								
BORING NO. BH-4		BORING LOCATION		OFFSET		ALIGNMENT		0 HR. 4.7							
COLLAR ELEV. 5.2 ft		NORTHING 995,667		US ft		EASTING 2,878,271		US ft 24 HR. FIAD							
TOTAL DEPTH 39.0 ft		DRILL MACHINE CME-45, Trailer		DRILL METHOD Mud Rotary		HAMMER TYPE 140 lb Manual									
DATE STARTED 11/21/03		COMPLETED 11/21/03		SURFACE WATER DEPTH N/A											
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		
5.2													5.2	0.0	Ground Surface
5.2	0.0	2	3	3										D-M	Artificial Fill: Brown and tan, silty, f. to cse. SAND (A-2-4) w/ roots
1.7	3.5	2	2	2										M-W	Artificial Fill: Brown and tan, silty, f. to cse. SAND (A-1-b)
-2.3	7.5	3	7	8									SS-30	Sat.	Alluvium: Brownish gray, silty, f. to cse. SAND (A-2-4) w/ trace organics
-7.3	12.5	5	6	7										Sat.	CPU: Gray to yellowish gray, locally micaceous, silty, f. to cse. SAND (A-3)
-12.3	17.5	8	9	9										Sat.	
-17.3	22.5	5	6	3										Sat.	CPU: No recovery-SILT (A-4)
-22.3	27.5	7	19	32										Sat.	CPU: Dark gray, silty, f. to cse. SAND (A-2-4) w/ trace to little shell fragments
-27.3	32.5	5	5	5										Sat.	
-32.3	37.5	1	2	3										W	Yorktown Fm: Dark green, f. sandy, silty, CLAY (A-7-6) w/ trace shell fragments
															Boring terminated at 39.0ft (Elev.-33.8ft) in Yorktown Fm: Medium stiff, f. sandy, silty CLAY (A-7-6) with trace shell fragments
															Bits Used: 2.5" finger bit
															Drilling Fluid Properties: 8.9 lbs/gal

NCDOT BORE SINGLE KNOTTS.GPJ NC DOT.GDT 1/16/04