

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-1		BORING LOCATION		OFFSET		ALIGNMENT							
COLLAR ELEV. 4.6 ft		NORTHING 995,766 US ft		EASTING 2,878,156 US ft		0 HR. 3.9							
TOTAL DEPTH 38.9 ft		DRILL MACHINE CME-45, Trailer		DRILL METHOD Mud Rotary		HAMMER TYPE 140 lb Manual							
DATE STARTED 11/20/03		COMPLETED 11/20/03		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
4.6	0.0	2	3	2	Ground Surface							4.6	Artificial Fill: Brown, black, tan, and gray, silty, f. to cse. SAND (A-2-4) w/ roots and trace gravel
1.3	3.3	3	5	5								-1.4	Alluvium: Black and gray, f. to cse. SAND (A-3) w/ wood frags-blow counts invalid due to large wood fragments
-2.9	7.5	2	10	16								-6.4	GPU: Gray to yellowish gray, silty, f. SAND (A-3)
-7.8	12.4	7	14	14								-11.0	GPU: Gray to yellowish gray, silty, f. SAND (A-3)
-12.8	17.4	6	5	4								-15.9	GPU: Gray, micaceous, f. sandy SILT (A-4)
-17.8	22.4	4	7	7								-20.9	GPU: Gray, silty, f. to cse. SAND (A-3) w/ little shell fragments
-22.8	27.4	12	28	41								-25.5	GPU: Gray, silty, f. to cse. SAND (A-3) w/ trace organic debris
-27.8	32.4	8	6	5								-31.4	Yorktown Fm: Dark green, f. sandy, silty CLAY (A-7-6) w/ trace shell fragments
-32.8	37.4	3	3	3								-34.3	Yorktown Fm: Dark green, f. sandy, silty CLAY (A-7-6) w/ trace shell fragments
Boring terminated at 38.9ft (Elev.-34.3ft) 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 E. KNOTTS.GPJ NC DOT.GDT 1/16/04

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SITE DESCRIPTION Currituck and Knotts Island Ferry Basins (MACTEC Proj. No. 6468-03-0470)						GROUND WATER (ft)							
BORING NO. BH-2		BORING LOCATION		OFFSET		ALIGNMENT							
COLLAR ELEV. 4.4 ft		NORTHING 995,772 US ft		EASTING 2,878,246 US ft		0 HR. 3.7							
TOTAL DEPTH 38.9 ft		DRILL MACHINE CME-45, Trailer		DRILL METHOD Mud Rotary		HAMMER TYPE 140 lb Manual							
DATE STARTED 11/19/03		COMPLETED 11/20/03		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
4.4	0.0	2	2	3	Ground Surface							4.4	Artificial Fill: Brown and tan, silty, f. to cse. SAND (A-2-4) w/ roots and organic debris
1.0	3.4	2	2	2								-1.1	Alluvium: Brownish gray, f. to cse. SAND (A-3)
-3.0	7.4	5	5	4								-8.1	GPU: Gray to yellowish gray, silty, f. SAND (A-3) w/ trace organic debris
-8.0	12.4	5	5	8								-10.5	GPU: Gray, micaceous, f. sandy SILT (A-4)
-13.0	17.4	5	6	6								-16.6	GPU: Gray, silty, f. to cse. SAND (A-3) w/ trace to little shell fragments
-18.0	22.4	3	5	5								-20.6	GPU: Gray, silty, f. to cse. SAND (A-3) w/ trace to little shell fragments
-23.0	27.4	12	14	15								-25.0	Yorktown Fm: Dark green, f. sandy, silty CLAY (A-7-6) w/ trace shell fragments
-28.0	32.4	8	6	6								-31.6	Yorktown Fm: Dark green, f. sandy, silty CLAY (A-7-6) w/ trace shell fragments
-33.0	37.4	2	2	3								-34.5	Yorktown Fm: Dark green, f. sandy, silty CLAY (A-7-6) w/ trace shell fragments
Boring terminated at 38.9ft (Elev.-34.5ft) 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