MACTEC

N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

SHEET 1 OF 2

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. B-3	BORING LOCATION	OFFSET	ALIGNMENT	0 HR. Water
COLLAR ELEV. -6.9 ft	NORTHING 995,729 US ft	EASTING 2,878,341 US ft	24 HR. Boring
TOTAL DEPTH 77.5 ft	DRILL MACHINE CME-45, Barge	DRILL METHOD Mud Rotary	HAMMER TYPE 140 lb Manual
DATE STARTED 12/10/03	COMPLETED 12/11/03	SURFACE WATER DEPTH 6.9 ft	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-6.9					Mudline				
-6.9	0.0	WOH	WOH	WOH	WOH		Sat.		-6.9 / 0.0 Alluvium: Muck-No recovery after 3 attempts
-9.9	3.0	WOH	1	1	2		Sat.		-8.9 / 2.0 Alluvium: Dark gray, silty, f. to cse. SAND (A-2-4) w/ trace organic debris
-13.4	6.5	2	4	6	10		Sat.		-12.4 / 5.5 CPU: Gray, silty, f. to cse. SAND (A-3) w/ trace gravel
-18.7	11.8	3	3	3	6		Sat.		
-23.7	16.8	18	27	58	85		W		-22.4 / 15.5 CPU: Light gray, f. to cse. SAND (A-3) w/ trace shell fragments
-27.9	21.0	5	6	6	12		Sat.		-26.9 / 20.0 CPU: Grayish green, silty, f. SAND (A-2-4) w/ trace to little shell fragments
-32.9	26.0	2	2	2	4		W		-31.9 / 25.0 Yorktown Fm: Dark green to blue-gray, f. sandy, silty CLAY (A-7-6) w/ trace shell fragments
-37.9	31.0	2	2	2	4		W		
-42.9	36.0	2	2	3	5		W		
-47.9	41.0	2	2	3	5		W		
-52.9	46.0	2	2	3	5		W		
-57.9	51.0	2	3	3	6		W		
-62.9	56.0	2	3	4	7		W		
-67.9	61.0	2	3	4	7		W		
-72.9	66.0	4	4	5	9		W		
-77.9	71.0	4	8	9	17		W		-80.9 / 74.0

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

MACTEC

SHEET 16 of 48

N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

SHEET 2 OF 2

PROJECT NO. 36722.1.1	ID. F-4700	COUNTY Currituck	GEOLOGIST M. Lear
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COLLAR ELEV. -6.9 ft	NORTHING 995,729 US ft	EASTING 2,878,341 US ft	24 HR. Boring
TOTAL DEPTH 77.5 ft	DRILL MACHINE CME-45, Barge	DRILL METHOD Mud Rotary	HAMMER TYPE 140 lb Manual
DATE STARTED 12/10/03	COMPLETED 12/11/03	SURFACE WATER DEPTH 6.9 ft	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-81.7					Continued from previous page				
-82.9	76.0	11	10	12	22		W		Yorktown Fm: Gray-green, f. sandy, SILT (A-4) *(continued)*
									-84.4 / 77.5 Boring terminated at 77.5ft (Elev:-84.4ft) in Yorktown Fm: Very stiff, f. sandy SILT (A-4)

Bits Used: 2.5" finger bit

Drilling Fluid Properties: 9.1 lbs/gal

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