

LOG OF BORING B-9

PROJECT: Wharves 2 & 6 - Bayport Terminal Complex
Port of Houston Authority

CLIENT: CH2M Hill
Houston, Texas

ELEVATION (FT) DEPTH (FT)	SAMPLE TYPE SYMBOL	COORDINATES: N 29.61208 W 95.01041	(P) POCKET PEN (tsf) (T) TORVANE (tsf)	STD. PENETRATION TEST BLOW/COUNT	MOISTURE CONTENT (%)	DRY UNIT WEIGHT (pcf)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)	PASSING #200 SIEVE (%)	OTHER TESTS PERFORMED
		SURFACE ELEVATION: -6.20 ft											
		DRILLING METHOD: Dry Augered: to Wash Bored: 0 to 120											
		MATERIAL DESCRIPTION											
0		Very soft reddish brown & tan LEAN CLAY (CL) w/ silty sand pockets	(T)0.09										
-10		-soft to firm @ 3'-5'	(P)1.00 (T)0.22		23	110	29	9				88	
5		-firm, w/ silt seams & silt pockets @ 6'-11'	(P)1.25		27								
-15			(T)0.09		27	102							
10													
-20		Stiff reddish brown & tan FAT CLAY (CH) w/ ferrous nodules	(P)2.25		31	92							
15		-stiff to very stiff, w/ silt pockets & seams @ 15'-20'	(P)3.00		29								
-25		-slicesided @ 18'-20' -reddish brown below 18'	(P)3.75		31	91	70	47	1.11	2 *		99	
20													
-30		-firm to stiff, w/ silt layers @ 23'-25'	(P)1.00		27	99			1.18	16	13		
25													
-35		-slicesided @ 28'-30' w/ ferrous nodules @ 28'-40'	(P)2.00		34	90			1.22	2 *			
30													
-40		-very stiff @ 33'-35'	(P)3.25		31	92			2.23	7	19		
35													

COMPLETION DEPTH: 120 ft
DATE BORING STARTED: 11-10-09
DATE BORING COMPLETED: 11-11-09
LOGGER: S. Cortinas
PROJECT NO.: 09.14.037

NOTES: Boring backfilled with cement bentonite grout upon completion of sampling.

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		MATERIAL DESCRIPTION											
-45 40		Stiff reddish brown & tan FAT CLAY (CH)		5/6" 3/6" 6/6"									
-50 45		Very dense gray & tan SILTY SAND (SM) w/ clay pockets		13/6" 37/6" 40/6"									
-55 50		-medium dense & tan @ 48.5'-50'		4/6" 5/6" 6/6"	20							14	
-60 55		-dense @ 53.5'-55'		4/6" 13/6" 19/6"									
-65 60		-medium dense @ 58.5'-60'		3/6" 4/6" 7/6"									
-70 65		Very stiff to hard gray & tan SANDY FAT CLAY (CH) w/ sand pockets & ferrous nodules		7/6" 16/6" 17/6"	28								
-75 70		-firm to very stiff @ 68'-70'	(P)3.25 (T)0.30		20	108						70	
-80				10/6"	18								

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		SURFACE ELEVATION: -6.20 ft											
		DRILLING METHOD: Dry Augered: to Wash Bored: 0 to 120											
		MATERIAL DESCRIPTION											
75	X	Very stiff gray & tan SANDY FAT CLAY (CH)		12/6" 18/6"									
-85	X		(P)3.00		24	99			3.06	7			
-90	X	Very stiff to hard gray & tan FAT CLAY (CH) w/ sand pockets & ferrous nodules		6/6" 9/6" 20/6"	27							96	
-95	X			16/6" 14/6" 17/6"	26		57	38					
-100	X	Dense gray CLAYEY SAND (SC)		26/6" 19/6" 13/6"									
-105	X			10/6" 17/8" 26/6"	28								
-110	X	Very stiff to hard tan FAT CLAY (CH) w/ ferrous nodules		20/6" 23/6" 29/6"	19								
-115	X	-stiff, tan & reddish brown @ 108'-110'	(P)2.00		21	108			1.49	15	63		

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		SURFACE ELEVATION: -6.20 ft											
MATERIAL DESCRIPTION													
-120	115	Very stiff to hard tan FAT CLAY (CH) -reddish brown & gray, w/ calcareous nodules @ 113'-115'	(P)4.50+		25	101			2.56	4			
-125	120	Very stiff to hard gray & reddish brown LEAN CLAY (CL) Bottom @ 120'		11/6" 14/6" 20/6"			40	22				95	
-130	125												
-135	130												
-140	135												
-145	140												
-150	145												

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