

LOG OF BORING B-1

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 29.61223 W 95.01292 SURFACE ELEVATION: 15.57 ft DRILLING METHOD: Dry Augered: 0 to 20 Wash Bored: 20 to 120	(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
		MATERIAL DESCRIPTION											
0		Tan & brown SANDY LEAN CLAY "FILL" w/ clay pockets			17								
5		Very stiff brown & tan FAT CLAY w/ SAND "FILL" w/ gravel	(P)3.50		16	104							
10		-firm, gray & tan @ 6'-8'	(P)0.75		32		64	42				83	
15		Stiff gray FAT CLAY (CH) w/ ferrous nodules	(P)2.75		26								
20			(P)2.50		26		70	48					
25		-gray & reddish brown @ 15'-17'	(P)2.00		26	95			1.50	7			
30		Firm reddish brown SANDY LEAN CLAY (CL) w/ ferrous nodules & silt pockets	(P)1.25		21	103			0.83	12	11		
35		-firm to stiff @ 23'-33'	(P)1.75 (T)0.25		27								
40			(P)2.25 (T)0.31		29	96							
45		Stiff to very stiff reddish brown FAT CLAY (CH) w/ ferrous nodules & silt pockets	(P)4.00		29	94	69	45	1.76	6 *			
50		-slickensided @ 33'-35'											

COMPLETION DEPTH: 120 ft
DATE BORING STARTED: 11-11-09
DATE BORING COMPLETED: 11-11-09
LOGGER: G. Singleton
PROJECT NO.: 09.14.037

NOTES: Boring backfilled with cement bentonite grout upon completion of sampling.
Cons: One dimensional consolidation test.

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		MATERIAL DESCRIPTION											
40		Stiff to very stiff reddish brown FAT CLAY (CH) -stiff @ 38'-48'	(P)1.75		24	99			1.57	11	22		
45			(P)2.25 (T)0.63		28	96							
50		-stiff to very stiff & slickensided @ 48'-50'	(P)3.75		31	92			1.29	4			
55		-very stiff to hard @ 53'-55'	(P)4.50		28	94							
60		Very stiff gray & tan SANDY LEAN CLAY (CL) w/ ferrous nodules	(P)3.00		17								
65		Dense light gray & tan SILTY SAND (SM) -medium dense @ 68.5'-70'		25/6" 22/6" 26/6"								21	
70				7/6" 10/6" 10/6"									
				13/6"	33							6	

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		MATERIAL DESCRIPTION											
-60	75	Dense gray POORLY GRADED SAND w/ SILT (SP-SM)		15/6" 23/6"									
-65	80	Very stiff gray FAT CLAY (CL)		12/6" 8/6" 9/6"	52		87	62				93	
-70	85	Dense gray SILTY SAND (SM)		25/6" 21/6" 13/6"	24							12	
-75	90	Stiff to very stiff gray LEAN CLAY w/ SAND (CL)	(P)3.50		17	108	34	16	1.33	5			
-80	95	-very stiff to hard, gray & brown @ 93'-95' -w/ ferrous nodules @ 93'-98'	(P)4.50									85	
-85	100	Very stiff light gray & tan SANDY LEAN CLAY (CL)	(P)3.75		18	109			2.26	11	57		
-90	105	-very stiff to hard @ 103'-105'	(P)4.50										
-95	110		(P)3.25										

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			SURFACE ELEVATION: 15.57 ft											
DRILLING METHOD: Dry Augered: 0 to 20 Wash Bored: 20 to 120														
MATERIAL DESCRIPTION														
-100	115		Very stiff light gray & tan SANDY LEAN CLAY (CL)	(P)2.00		19	109			0.67	6	66		Cons
			-firm to stiff below 113'											
-105	120		-gray @ 118'-120'	(P)2.00		15	108	27	10				56	
Bottom @ 120'														
-110	125													
-115	130													
-120	135													
-125	140													
-130	145													

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