

LOG OF BORING B-5

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 29.61220 W 95.01198	(P) POCKET PEN (tsf) (T) TORVANE (tsf)	STD. PENETRATION TEST BLOWCOUNT	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: 15.06 ft											
		DRILLING METHOD: Dry Augered: 0 to 20 Wash Bored: 20 to 120											
		MATERIAL DESCRIPTION											
15 0		Stiff gray & tan LEAN CLAY "FILL" w/ ferrous nodules	(P)1.50										
10 5		Very stiff gray FAT CLAY "FILL" w/ ferrous nodules	(P)4.00		26	95							
5 10		Stiff gray & tan FAT CLAY (CH) w/ ferrous nodules	(P)2.00		30								
		-firm to stiff & gray @ 9'-11'	(P)2.00		28	92	79	55	0.86	1 *			
		-gray & reddish brown, slickensided @ 12'-14'	(P)2.25		26								
0 15		-very stiff & reddish brown w/ silt pockets & calcareous nodules @ 15'-17'	(P)3.75		22	103							
-5 20			(P)1.50										
-10 25		Soft to firm reddish brown LAEN CLAY (CL)	(P)1.25 (T)0.19		29	99	28	8					
-15 30		Stiff reddish brown FAT CLAY (CH) -slickensided, w/ ferrous nodules & silt pockets	(P)2.75		32								
-20 35			(P)2.50		29	92	58	36	1.29	4 *			

COMPLETION DEPTH: 120 ft
DATE BORING STARTED: 11-12-09
DATE BORING COMPLETED: 11-16-09
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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		SURFACE ELEVATION: 15.06 ft											
		DRILLING METHOD: Dry Augered: 0 to 20 Wash Bored: 20 to 120											
		MATERIAL DESCRIPTION											
-25	40	Stiff reddish brown FAT CLAY (CH)	(P)2.25		23	100			1.10	8			
-30	45		(P)2.75		24		59	38					
-35	50	-very stiff @ 48'-50'	(P)3.50										
-40	55	-stiff to very stiff, reddish brown & gray @ 53'-55'	(P)3.25		29	92			1.60	2 *			
-45	60	Very stiff gray SANDY LEAN CLAY (CL) w/ ferrous nodules & sand pockets	(P)3.00										
-50	65	w/ calcareous nodules @ 63'-65'	(P)3.50		19	110			2.54	7	39		
-55	70	Dense gray SILTY SAND (SM)		20/6" 20/6" 26/6"								23	
		-gray & tan @ 73.5'-80'		21/6"									

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		DRILLING METHOD: Dry Augered: 0 to 20 Wash Bored: 20 to 120											
-60 75		-very dense below 73.5' Very dense gray & tan SILTY SAND (SM)		40/6" 37/6"									
-65 80				19/6" 20/6" 37/6"									
-70 85		Stiff gray LEAN CLAY (CL) w/ ferrous nodules	(P)2.00		25	101	43	23				93	Cons
-75 90		-soft to firm & light gray @ 88'-95'	(P)4.50 (T)0.19		19	104							
-80 95		-very stiff to hard, light gray & tan @ 93'-95'	(P)4.50										
-85 100		Very stiff to hard gray FAT CLAY (CH) -slickensided, w/ ferrous nodules	(P)4.50		21	106	59	39	2.57	3 *			
-90 105		-light gray & tan @ 103'-105'	(P)4.50		20	109							
-95 110		Very stiff to hard light gray SANDY LEAN CLAY (CL) w/ ferrous nodules	(P)4.50		19	110							

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			SURFACE ELEVATION: 15.06 ft											
			MATERIAL DESCRIPTION											
-100	115		Very stiff to hard light gray SANDY LEAN CLAY (CL) -stiff, light gray & tan @ 113'-120'	(P)2.50		18	108			1.18	11	66		
-105	120		Bottom @ 120'		5/6" 5/6" 8/6"								58	
-110	125													
-115	130													
-120	135													
-125	140													
-130	145													

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