

LOG OF BORING B-16

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 29.61188 W 94.99751 SURFACE ELEVATION: 12.95 ft DRILLING METHOD: Dry Augered: 0 to 22 Wash Bored: 22 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		Very stiff brown SANDY LEAN CLAY "FILL"	(P)3.25		16								
10		-very stiff to hard & w/ ferrous nodules @ 3'-5'	(P)4.50		24	103							
5		Very stiff to hard gray FAT CLAY (CH) slickensided w/ ferrous nodules	(P)4.50		22								
5		-stiff to very stiff, light gray & brown @ 9'-17'	(P)3.50		27	97	80	57	1.82	1 *		97	
10		-very stiff @ 13'-18'	(P)3.75		25								
0		-w/ silt pockets @ 15'-17'	(P)4.00		21	105			1.84	3 *			
15		-very stiff to hard, reddish brown @ 18'-20'	(P)4.50									98	
-5													
20													
-10		Medium dense tan & reddish brown SILTY SAND (SM)		4/6" 8/6" 9/6"									
-15		-reddish brown @ 28.5'-30'		4/6" 7/6" 9/6"	25								
30													
-20		Very stiff reddish brown FAT CLAY (CH)	(P)3.25				79	56					
35													

COMPLETION DEPTH: 120 ft
DATE BORING STARTED: 11-16-09
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.

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		DRILLING METHOD: Dry Augered: 0 to 22 Wash Bored: 22 to 120												MATERIAL DESCRIPTION
-25		Very stiff reddish brown FAT CLAY (CH) -stiff to very stiff, slickensided, w/ ferrous nodules @ 38'-40'	(P)2.75		30	93			2.33	8				
-40														
-30		-slickensided & w/ ferrous nodules @ 43'-68'	(P)3.75		23									
-45														
-35				(P)3.75		30	93			2.52	6 *			
-50														
-40				(P)4.00		27								
-55														
-45				(P)3.50				78	54					
-60														
-50		-stiff to very stiff @ 63'-65'	(P)3.50		34	88			1.93	3 *				
-65														
-55		Very stiff gray LEAN CLAY (CL)	(P)3.25		24	101								
-70														
-60		-gray & tan, w/ sand pockets, ferrous &	(P)3.75		26									

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		MATERIAL DESCRIPTION											
75		calcareous nodules @ 73.5'-75' Very stiff gray LEAN CLAY (CL)											
-65		Very dense gray POORLY GRADED SAND w/ SILT SAND (SP-SM)		19/6" 27/6" 34/6"								9	
-80				26/6" 34/6" 50/2"									
-85		Soft to stiff gray FAT CLAY (CH) -slickensided & w/ ferrous nodules	(P)2.50		34	87							
-90													
-80		Very stiff to hard gray SANDY LEAN CLAY (CL) w/ ferrous & calcareous nodules	(P)4.50										
-95		Stiff to very stiff gray FAT CLAY (CH) w/ ferrous nodules & sand pockets	(P)3.50		27	95			1.97	6			
-100													
-90		Very stiff to hard gray SANDY LEAN CLAY (CL)	(P)4.50		19	110							
-105		-very soft & slickensided @ 108'-110'	(P)4.50		20	108							
-95													
-110													

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			SURFACE ELEVATION: 12.95 ft											
DRILLING METHOD: Dry Augered: 0 to 22 Wash Bored: 22 to 120														
MATERIAL DESCRIPTION														
-100	X		Very stiff to hard gray SANDY LEAN CLAY (CL)											
-115			Very stiff to hard gray FAT CLAY w/ SAND (CH)		10/6" 32/6" 30/6"	29								
-105					18/6" 20/6" 38/6"	25								
-120	X		Bottom @ 120'											
-110														
-125														
-115														
-130														
-120														
-135														
-140														
-130														
-145														
-135														

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