

LOG OF BORING B-8

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 29.61198 W 95.01122 SURFACE ELEVATION: 14.38 ft	DRILLING METHOD: Dry Augered: 0 to 20 Wash Bored: 20 to 120	(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
				MATERIAL DESCRIPTION												
0				Tan SILTY SAND & CRUSHED LIMESTONE "FILL"				20								
				Tan SANDY LEAN CLAY "FILL"												
10	5			Very stiff to hard reddish brown & gray LEAN CLAY "FILL" w/ sand pockets & ferrous nodules		(P)4.50		17								
				-very stiff, gray & tan @ 6'-8'		(P)3.00		27								
5	10			Very stiff gray FAT CLAY (CH) w/ ferrous nodules		(P)3.50		26	97	77	55	2.48	5 *		88	
				-firm reddish brown & tan @ 12'-14'		(P)1.50 (T).325		33	89			0.57	5 *	8		
0	15			w/ silt pockets, ferrous & calcareous nodules @ 15' 17'		(P)3.00		24	102	70	47					
-5	20			Very stiff reddish brown LEAN CLAY (CL)				24							96	
				-stiff @ 23'-25'		(P)2.25				37	18					
-10	25															
						(P)3.25		31								
-15	30															
-20	35			Very stiff reddish brown FAT CLAY (CH) -slickensided & w/ ferrous nodules		(P)3.50		29	92							

COMPLETION DEPTH: 120 ft
DATE BORING STARTED: 11-10-09
DATE BORING COMPLETED: 11-10-09
LOGGER: S. Cortinas
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											
				Very stiff reddish brown FAT CLAY (CH)											
	-25	40		Firm to stiff reddish brown LEAN CLAY (CL)	(P)1.25		25	99	47	28	1.35	12	22	98	
	-30	45		-stiff & w/ ferrous nodules @ 43'-45'	(P)2.00										
	-35	50		Very stiff reddish brown FAT CLAY (CH) -slickensided & w/ ferrous nodules	(P)3.50		31	91			1.72	3 *			
	-40	55		-stiff to very stiff @ 48'-50'	(P)4.50		32	91							
	-45	60		Very stiff gray SANDY FAT CLAY (CH) w/ ferrous nodules & sand pockets	(P)3.50										
	-50	65		-very stiff to hard gray & reddish brown w/ calcareous nodules @ 63'-65'	(P)4.50		20	107	61	40	2.50	9	36	68	
	-55	70		Very dense gray POORLY GRADED SAND w/ SILT (SP-SM)		50/5"									
						17/6"	21							11	

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			SURFACE ELEVATION: 14.38 ft											
			MATERIAL DESCRIPTION											
-60 75	X	[Symbol]	Very dense gray POORLY GRADED SAND w/ SILT (SP-SM)		20/6" 50/2"									
-65 80	X	[Symbol]	-dense & w/ sandstone @ 78.5'-80'		20/6" 20/6" 12/6"									
-70 85	[Symbol]	[Symbol]	Stiff gray & tan SANDY LEAN CLAY (CL) w/ ferrous nodules	(P)2.25										
-75 90	[Symbol]	[Symbol]	-soft to stiff @ 88'-90'	(P)2.50		19	110						64	Cons
-80 95	[Symbol]	[Symbol]	-very stiff, light gray & tan @ 93'-95'	(P)3.75										
-85 100	[Symbol]	[Symbol]	Very stiff to hard gray & tan LEAN CLAY (CL) w/ ferrous nodules & sand pockets	(P)4.50		22								
-90 105	[Symbol]	[Symbol]	Very stiff to hard gray & tan FAT CLAY (CH) slickensided w/ ferrous nodules	(P)4.50										
-95 110	[Symbol]	[Symbol]	Very stiff gray & tan SANDY SILTY CLAY (CL- ML) w/ ferrous nodules	(P)3.50										

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