



DEPTH, FT	WATER LEVEL SYMBOL	SAMPLES	BLOWS PER FOOT	LOCATION: See Plate 2 COORDINATES: 29° 43' 34" N 95° 03' 20" W SURFACE EL.: 7.5'	STRATUM DEPTH, FT	CLASSIFICATION						SHEAR STRENGTH				
				STRATUM DESCRIPTION		UNIT DRY WT, POF	PASSING NO. 200 SIEVE, %	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX (PI)	KIPS PER SQ FT				
												□ Penetrometer Unconfined ▼ ◇ Torvane Triaxial ● ○ Remolded Miniature Vane ▲ M.Vane				
												0.5	1.0	1.5	2.0	2.5
			6	SANDY CLAY, firm, dark brown, with roots	2.0											
				CLAY, firm to stiff, dark brown, with roots												
5				- with wood and shell fragments at 6'		103		22	61	14	47					
10																
				SANDY CLAY, soft, black	11.0	99		25	66	15	51					
15							49	34	23	13	10					
20			25	SAND, medium dense, fine-grained, dark brown, with silt seams	18.5		13									
25			17													
30			17				6									
35			14	- medium-grained, gray below 34.5'												
			26	CLAY, very stiff, gray and brown	38.5											

NOTES:

1. ∇: Water First Noticed. ▼: Depth To Water after 15 minutes.
2. Terms and symbols defined on Plates A-32a and A-32b.
3. Coordinates obtained from handheld GPS.

DATE: March 18, 2011

TOTAL DEPTH: 75'

CAVED DEPTH: Not Applicable

DRY AUGER: Surface to 12'

WET ROTARY: Below 12'

BACKFILL: Cement-Bentonite Grout

LOGGER: C. Alvarado

R:041202011 PROJECTS\0001-0099\0412-11-0003\DRAWING\0412-11-0003.GPJ FUGRO_SO (LAB DATA)_INDUSTRIAL (W/R_MV) 6/2/2011

LOG OF BORING NO. B-23

DOCKS, BRIDGE, AND BARNES ISLAND IMPROVEMENTS
BATTLEGROUND OIL SPECIALTY TERMINAL COMPANY
HARRIS COUNTY, TEXAS

PLATE A-14a





DEPTH, FT	WATER LEVEL SYMBOL	SAMPLES	BLOWS PER FOOT	LOCATION: See Plate 2 COORDINATES: 29° 43' 34" N 95° 03' 20" W SURFACE EL.: 7.5'	STRATUM DEPTH, FT	CLASSIFICATION						SHEAR STRENGTH				
				STRATUM DESCRIPTION		UNIT DRY WT, POF	PASSING NO. 200 SIEVE, %	WATER CONTENT, %	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX (PI)	KIPS PER SQ FT				
				CLAY, very stiff, gray and brown												
45						114		16								3.3
50																
55				- with calcareous nodules at 53'		113		17	35	14	21					3.6
60				- with fine-grained sand pockets at 58'												
65			56				92									
70			35					30								
75			32		75.0											

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