

# BORING LOG NO. B-7

CLIENT: **United States Army Corps of Engineers  
Galveston, Texas**

PROJECT: **Contract W912HY-09-D-0021  
Addicks and Barker Dams, TO-14**

BORING LOCATION: **N: 13844640.008  
E: 3027732.552**

SITE: **Addicks and Barker Reservoirs  
Houston, Texas**

Graphic Log	DESCRIPTION	DEPTH, FEET	SAMPLES							TESTS								
			USCS SYMBOL	TYPE	RECOVERY, IN	SPT, BLOWS/FT	CALIBRATED HAND PENETROM., TSF	TORVANE, TSF	MOISTURE CONTENT, %	DRY DENSITY, PCF	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	MINUS #200 SIEVE, %	COMPRESSIVE STRENGTH, TSF	FAILURE STRAIN, %	CONFINING PRESSURE, PSI	
<b>Approx. Surface Elevation: 81.8 feet</b>																		
	<b>SANDY FAT CLAY</b> dark gray, light gray, and tan, medium stiff to very stiff, high plasticity, dry, with calcareous nodules  - with ferrous stains 6 to 12 feet	1	CH	ST	15		2.75		18	108	57	20	37					
		2																
		3		ST	14		3.0		8									
		4																
		5		ST	11		3.25		13	121				53				
		6																
		7		ST	12		2.5		18									
		8																
		9		ST	13		1.25				53	14	39					
		10																
	69.8	▽ 12.0	11		ST	13		1.0		16								
	<b>CLAYEY SAND</b> gray and tan, loose, medium plasticity, fine-grained, uniform, wet, with clay pockets	12	SC	ST	15		0.5		21									
	67.8	▽ 14.0	13															
	<b>SILTY SAND</b> light gray and tan, medium dense to very dense, non-plastic, fine-grained, uniform, wet - with clay seams 14 to 16 feet	14	SM	SS	12	11			19				37					
		15																
	63.8	18.0	17		SS	9	50/3"		18				13					
			18															
	<b>LEAN CLAY w/ SAND</b> reddish brown and light gray, medium stiff to hard, medium plasticity, moist - with sand seams and calcareous nodules 18 to 20 feet - with silt seams and calcareous nodules 20 to 26 feet	19	CL	SS	15	58			22									
		20																
		21		ST	7		1.0											
		22																
		23		ST	13		3.0		21									
		24																
		25		ST	15		1.75											
	26																	

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STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES. IN SITU, THE TRANSITION BETWEEN STRATA MAY BE MORE GRADUAL.

REMARKS: Dry augered to 14 feet; wet rotary thereafter.

WATER LEVEL OBSERVATIONS			
▽ 14 ft	WD	▽ 12 ft	at 5 min
▽ 11.5 ft	at 10 min	▽ 11 ft	at 15 min



DATE DRILLED  
7/6/2012

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92125125

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EXHIBIT A-33

