

BORING LOG NO. B-11

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

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

BORING LOCATION: **N: 13844756.907
E: 3029881.451**

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		
<p>Approx. Surface Elevation: 82.9 feet</p>	<p>SANDY LEAN CLAY gray, light gray, and tan, stiff to very stiff, medium plasticity, dry</p> <p>- with calcareous nodules and ferrous stains 4 to 10 feet</p>	1	CL	ST	13		4.5		13										
		2																	
		3		ST	8		1.5		15										
		4																	
		5		ST	13		4.5		10	31	12	19	53						
		6																	
		7		ST	14		2.75		14										
		8																	
		9		ST	12		2.0		16										
		72.9	10.0	10															
<p>CLAYEY SAND light gray and tan, medium dense, medium plasticity, fine-grained, dry, with ferrous stains and clay pockets</p> <p>SILTY SAND light gray and tan, medium dense to dense, non-plastic, fine-grained, uniform, wet</p> <p>- with clay seams 17 to 18 feet</p>		11	SC	ST	14		2.75		17	112	30	16	14	30					
		12																	
		13		SM	SS	16	20			16					16				
		14																	
		15			SS	12	33			20									
		16																	
		17			SS	15	22												
		18																	
		19		ST	13					23									
		20																	
70.9	12.0	21																	
<p>LEAN CLAY w/ SAND reddish brown, medium stiff to very stiff, medium plasticity, moist, with silt pockets</p> <p>- with calcareous nodules below 24 feet</p>		21	CL	SS	14	28													
		22																	
		23		ST	23		0.75		25										
		24																	
		25		ST	15		1.5												
61.9	21.0	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	▽ 13 ft	at 5 min
▽ 12.5 ft	at 10 min	▽ 12.5 ft	at 15 min



DATE DRILLED

7/6/2012

PROJECT NUMBER

92125125

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EXHIBIT A-37

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Approx. Surface Elevation: 82.9 feet																
LEAN CLAY w/ SAND reddish brown, medium stiff to very stiff, medium plasticity, moist, with silt pockets	52.9	30.0	27	ST	10	3.0	26									
			28													
			29	ST	9	4.0										
			30													
	Boring terminated at 30 feet.															

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