

BORING LOG NO. B-4

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

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

BORING LOCATION: **N: 13845262.242
E: 3028703.597**

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, %
	Approx. Surface Elevation: 82.4 feet															
	SANDY LEAN CLAY dark gray, gray, and tan, medium stiff to stiff, medium plasticity, dry - with calcareous nodules 2 to 6 feet - with ferrous stains 6 to 8 feet	1	CL	ST	11		1.0		26							
		2														
		3		ST	11		1.25		20							
		4														
		5		ST	14		1.0		19							
		6														
		7		ST	15		1.5		17		42	14	28	63		
	74.4	8.0	8	CL												
		LEAN CLAY w/ SAND light gray and tan, very stiff, medium plasticity, dry - with ferrous stains 8 to 12 feet - with calcareous nodules 12 to 16 feet	9		ST	13		2.25		18	117			70		
		10														
		11		ST	13		3.0		16							
		12														
		13		ST	8		3.25		13							
		14														
		15		ST	13		4.25		14							
	66.4	▽ 16.0	16	SC												
	CLAYEY SAND brown and light gray, medium dense, low plasticity, fine-grained, uniform, wet	17		SS	19	20			17		25	15	10	47		
	18															
63.4	19.0	19	CL	SS	18	10			21							
	SANDY LEAN CLAY light gray and tan, stiff to very stiff, medium plasticity, moist	20														
	21		ST	7		4.5										
60.4	22.0	22	CL													
	LEAN CLAY reddish brown and light gray, very stiff, medium plasticity, moist, with calcareous nodules - soft, with silt seams 24 to 26 feet	23		ST	10		3.25		21							
	24															
	25		ST	12		0.25										
	26															

Continued Next Page

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

REMARKS: Dry augered to 16 feet; wet rotary thereafter.

WATER LEVEL OBSERVATIONS

▽ 16 ft	WD	▽ 14.5 ft	at 5 min
▽ 14 ft	at 10 min	▽ 13.5 ft	at 15 min



DATE DRILLED

7/5/2012

PROJECT NUMBER

92125125

Page 1 of 2

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EXHIBIT A-30

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	Approx. Surface Elevation: 82.4 feet																	
	LEAN CLAY reddish brown and light gray, very stiff, medium plasticity, moist, with calcareous nodules - with ferrous stains below 28 feet	27	ST	13		3.75		27										
52.4		28																
		29	ST	14		3.0												
30.0		30																
	Boring terminated at 30 feet.																	

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Page 2 of 2

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