



## BORING LOG NO. A-22

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

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

BORING LOCATION: **N: 13850314.514  
E: 3039191.67**

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: 80.9 feet</b>																	
50.9	<b>SILTY CLAY</b> reddish brown and light gray, soft to stiff, low plasticity, moist, with calcareous nodules and silt pockets	27	SS	10	7			25									
		28															
		29	SS	17	17			28									
		30															
	<b>FAT CLAY</b> reddish brown, brown, and light gray, very stiff, high plasticity, moist, with ferrous stains and calcareous nodules	30	CH														
		31	SS	9	11			28									
		32															
		33	ST	11		4.5		27	97								
		34															
		35	ST	14		4.25		26									
		36															
		37	ST	12		4.5		24									
		38															
		39	ST	14		3.5				58	24	34					
		40															
		41	ST	14		4.5		29									
		42															
		43	ST	14		4.0		29									
36.9	<b>LEAN CLAY</b> brown, light gray, reddish brown, and tan, stiff to very stiff, medium plasticity, moist, with ferrous stains, calcareous nodules, and sand pockets	44	CL														
		45	ST	16		4.0		29	94								
		46															
		47	ST	14		4.5		28									
		48															
		49	ST	10		4.25		31									
		50															
		51	ST	14		4.5		31									
		52															

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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 22 feet; wet rotary thereafter.

WATER LEVEL OBSERVATIONS

▽ 22 ft	WD	▽ 21 ft	at 5 min
▽ 20 ft	at 10 min	▽ 20 ft	at 15 min



DATE DRILLED

6/13/2012

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92125125

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EXHIBIT A-25

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			<b>Approx. Surface Elevation: 80.9 feet</b>														
<p><b>LEAN CLAY</b> brown, light gray, reddish brown, and tan, stiff to very stiff, medium plasticity, moist, with ferrous stains, calcareous nodules, and sand pockets</p>		53	ST	11		4.5		25									
		54															
		55	ST	10		4.5		26									
		56															
		57	ST	13		1.5		18									
		58															
		59	ST	8		1.5											
		60															
		61	ST	10		4.0		16		42	15	27	92				
		62															
		63	ST	9		4.5		17	120								
		64															
		65	ST	10		4.5		26									
		66															
		67	ST	13		4.5		25									
		68															
		69	ST	12		4.5		29									
		70															
	71	ST	13		4.5												
	72																
	73	ST	13		4.5		24										
	74																
	75	ST	11		4.5												
	76																
	77	ST	10		3.5		15		34	13	21	86					
	78																

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

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WATER LEVEL OBSERVATIONS

▽ 22 ft	WD	▽ 21 ft	at 5 min
▽ 20 ft	at 10 min	▽ 20 ft	at 15 min



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92125125

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	<b>Approx. Surface Elevation: 80.9 feet</b>																
	<b>LEAN CLAY</b> brown, light gray, reddish brown, and tan, stiff to very stiff, medium plasticity, moist, with ferrous stains, calcareous nodules, and sand pockets	79 80 81	ST		14		3.0		14		37	14	23	87			
	<b>LEAN CLAY w/ SAND</b> light gray and tan, very stiff, medium plasticity, moist, with silt pockets	82 83	CL ST		5		4.25		16		36	17	19	71			
	<b>SANDY SILT</b> light gray, brown, and reddish brown, very dense, low plasticity, wet, with calcareous nodules	84 85 86 87	ML ST SS		4				14								
	- with brown clay 91 to 92 feet	88 89 90 91 92 93 94 95 96 97 98	ST SS		5												
		99	SS		9		50/6"		20								
	<b>Boring terminated at 100 feet.</b>	100															

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∇ 22 ft	WD	∇ 21 ft	at 5 min
∇ 20 ft	at 10 min	∇ 20 ft	at 15 min



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