

## BORING LOG NO. B-12

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

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

BORING LOCATION: **N: 13840522.753  
E: 3028043.626**

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: 90.8 feet																
88.8	<b>SILTY SAND</b> brown and gray, loose, low plasticity, fine-grained, dry, with clay seams and scattered roots	2.0	SM	SS	6	8			12							
84.8	<b>FAT CLAY w/ SAND</b> gray and tan, very stiff, high plasticity, dry, with sand seams	6.0	CH	ST	8		2.5		26	66	23	43	73			
80.8	<b>CLAYEY SAND</b> light gray and tan, medium dense to dense, medium plasticity, fine-grained, uniform, dry	10.0	SC	ST	11		2.5		15							
				ST	10		4.5		15	118	34	15	19	37		
				ST	13		2.25		14							
	Boring terminated at 10 feet.	10														

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

REMARKS: Dry augered to 10 feet.

**WATER LEVEL OBSERVATIONS**

▽	▽
▽	▽

FREE WATER WAS NOT OBSERVED DURING DRY DRILLING OPERATIONS



**DATE DRILLED**

7/2/2012

**PROJECT NUMBER**

92125125

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**EXHIBIT A-38**