

LOG OF BORING B-11

STARVATION COVE MARSH RESTORATION (TUBE EXTENSION)
GALVESTON, TEXAS

TYPE OF BORING: AIR BOAT MOUNTED RIG

PSI Project No.: 286-271

DEPTH, FT.	SOIL TYPE	USCS SYMBOL	SAMPLES	COORDINATE (X) OR EASTING: 3264768.4 COORDINATE (Y) OR NORTHING: 13654670.72 APPROXIMATE SURFACE ELEVATION: -0.75 feet LATITUDE: 29° 13' 57.63 N LONGITUDE: 94° 56' 04.61 W	N-BLOWS/FT.	% PASSING No. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MOISTURE CONTENT (%)	SHEAR STRENGTH (tons/square foot)						UNIT WEIGHT (pcf)		
				LL			PL	PI	○ HP ● UC △ TV ▲ UU										
									0.0		0.5	1.0	1.5	2.0	2.5				
		SC		CLAYEY SAND (SC), VERY LOOSE, BROWN AND GRAY	WOH					21									
					WOH						31								
5					- gray, 4 to 6 feet	WOH	27					29							
					- gray, 6 to 8 feet	WOH						32							
10					- gray, 8 to 10 feet	WOH						39							
15																			
20																			
25																			
30																			
35																			
40																			
45																			
50																			

DEPTH OF BORING: 10 FEET

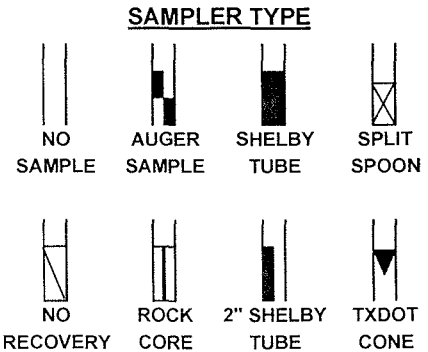
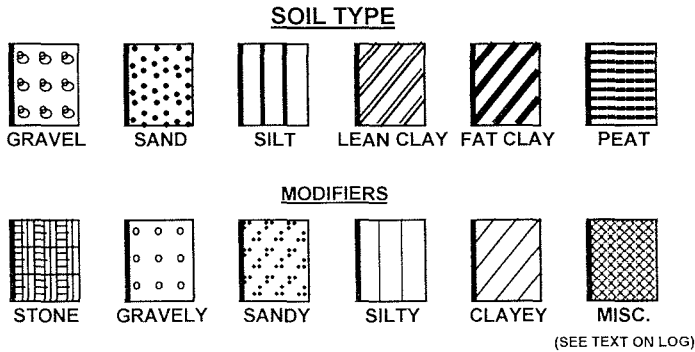
DATE DRILLED: 3/26/10

GROUND WATER DURING DRILLING (FT): 0.75 FT ABOVE MUDLINE
GROUND WATER
DELAYED GROUND WATER (FT):

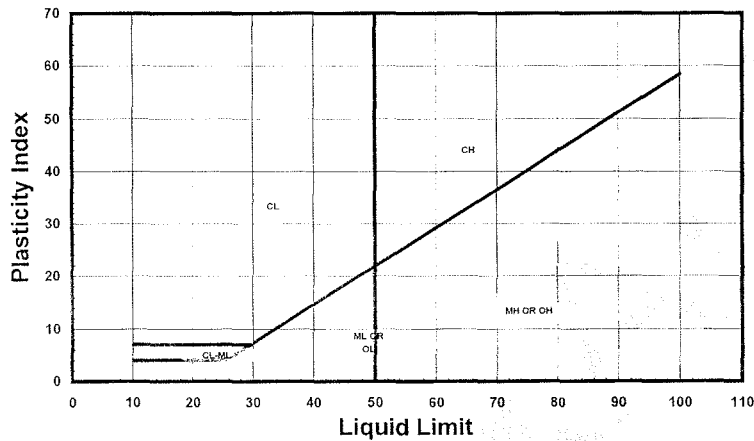
NOTES:

BORING LOG - HOUSTON - PSI HOUSTON GDT - 4/29/10 17:49 - P:\286 REPORTS\286 2010 REPORTS\286-271 STARVATION COVE MARSH RESTORATION, GALVESTON, TX\286-271 LOGS - TUBE EXTENSION.GPJ

KEY TO TERMS AND SYMBOLS USED ON LOGS



UNIFIED SOIL CLASSIFICATION SYSTEM - ASTM D 2487



CONSISTENCY OF COHESIVE SOILS

CONSISTENCY	SHEAR STRENGTH IN TONS/FT ²
VERY SOFT	0 TO 0.125
SOFT	0.125 TO 0.25
FIRM	0.25 TO 0.5
STIFF	0.5 TO 1.0
VERY STIFF	1.0 TO 2.0
HARD	> 2.0 OR 2.0+

RELATIVE DENSITY - GRANULAR SOILS

CONSISTENCY	N-VALUE (BLOWS/FOOT)
VERY LOOSE	0 TO 4
LOOSE	5 TO 9
MEDIUM DENSE	10 TO 29
DENSE	30 TO 50
VERY DENSE	> 50 OR 50+

DEGREE OF PLASTICITY OF COHESIVE SOILS

DEGREE OF PLASTICITY	PLASTICITY INDEX	SWELL POTENTIAL
NONE OR SLIGHT	0 TO 4	NONE
LOW	4 TO 20	LOW
MEDIUM	20 TO 30	MEDIUM
HIGH	30 TO 40	HIGH
VERY HIGH	> 40	VERY HIGH

MOISTURE CONDITION COHESIVE SOILS

DESCRIPTION	CONDITION
Absence of moisture, dusty, dry to touch	DRY
Damp but no visible water	MOIST
Visible free water	WET

CONSISTENCY OF COHESIVE SOILS AFTER TERZAGHI (1948)

CONSISTENCY	N-VALUE (BLOWS/FOOT)
VERY SOFT	< 2
SOFT	2 TO 4
FIRM	4 TO 8
STIFF	8 TO 15
VERY STIFF	15 TO 30
HARD	> 30

ABBREVIATIONS

HP - HAND PENETROMETER UC - UNCONFINED COMPRESSION TEST
 TV - TORVANE UU - UNCONSOLIDATED UNDRAINED TRIAXIAL
 MV - MINIATURE VANE CU - CONSOLIDATED UNDRAINED

NOTE: PLOT INDICATES SHEAR STRENGTH AS OBTAINED BY ABOVE TESTS

 FINAL GROUND WATER LEVEL
 INITIAL GROUND WATER LEVEL

CLASSIFICATION OF GRANULAR SOILS

U.S. STANDARD SIEVE SIZE(S)							
6"	3"	3/4"	4	10	40	200	
BOULDERS	COBBLES	GRAVEL		SAND			SILT OR CLAY
		COARSE	FINE	COARSE	MEDIUM	FINE	
152	76.2	19.1	4.76	2.0	0.42	0.074	0.002
GRAIN SIZE IN MM							



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SUBSURFACE DIAGRAM

PROJECT NAME: STARVATION COVE MARSH RESTORATION (TUBE EXTENSION)

PROJECT NUMBER: 286-271

PROJECT LOCATION: GALVESTON, TEXAS

