LOG OF BORING B-8

STARVATION COVE MARSH RESTORATION (TUBE EXTENSION)
GALVESTON, TEXAS

TYPE OF BORING: AIR BOAT MOUNTED RIG

PSI Project No.: 286-271

COORDINATE (X) OR EASTING: 3265430.54
COORDINATE (Y) OR NORTHING: 13655435.53
APPROXIMATE SURFACE ELEVATION: -0.75 feet
LATITUDE: 29° 14' 04.97 N
LONGITUDE: 94° 55' 56.84 W

DEPTH, FT.	SOIL TYPE	USCS SYMBOL	SAMPLES	SOIL DESCRIPTION	N-BLOWS/FT.	% PASSING No. 200 SIEVE	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTICITY INDEX (PI)	MOISTURE CONTENT (%)	SHEAR STRENGTH (tons/square foot) ○HP ●UC △TV ▲UU 0.0 0.5 1.0 1.5 2.0 2.5	UNIT WEIGHT (pcf)
		SP		SAND (SP), VERY LOOSE, GRAY	WOH					21		
					WOH	3				21		
5					WOH					22		
					WOH	4				21		
					WOH					23		
10												
15												
20												
25												
30												
35												
40												
45												
50												

DEPTH OF BORING: 10 FEET

DATE DRILLED: 3/26/10

NOTES:

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

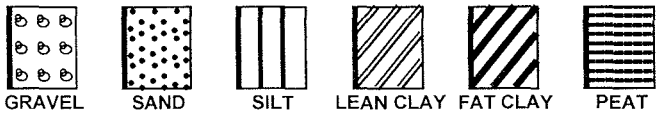
psi Information To Build On Engineering • Consulting • Testing
Geotechnical Consulting Services
1714 Memorial Drive
Houston, Texas 77007

PLATE NO: 10 (Page 1 of 1)

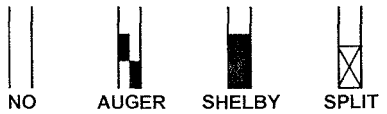
BORINGLOG_HOUSTON - PSIHOUSTON.GDT - 4/29/10 17:49 - P:\286 REPORTS\286 2010 REPORTS\286-271 STARVATION GAP MARSH RESTORATION, GALVESTON, TX\286-271 LOGS - TUBE EXTENSION.GPJ

KEY TO TERMS AND SYMBOLS USED ON LOGS

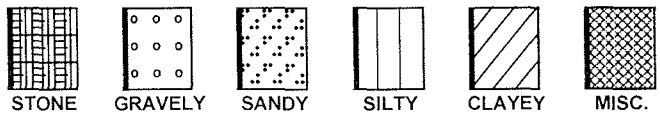
SOIL TYPE



SAMPLER TYPE

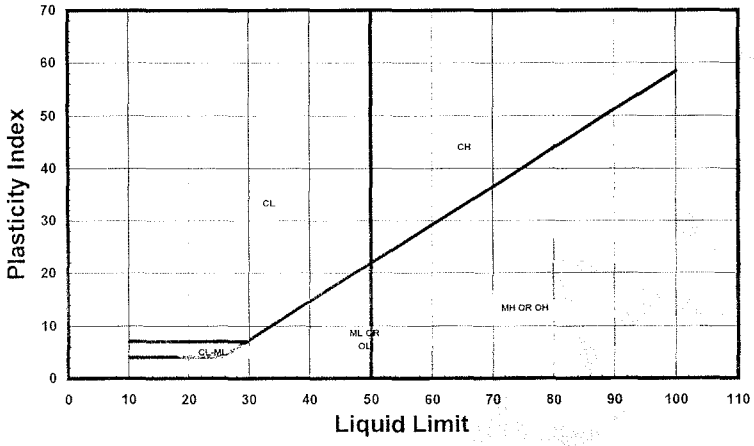


MODIFIERS



(SEE TEXT ON LOG)

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
TV - TORVANE
MV - MINIATURE VANE
UC - UNCONFINED COMPRESSION TEST
UU - UNCONSOLIDATED UNDRAINED TRIAXIAL
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 / 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

STRATIGRAPHY & GW - A SIZE - PSIHOUSTON.GDT - 4/29/10 17:01 - P:\286 REPORTS\286 2010 REPORTS\286-271 STARVATION GAP MARSH RESTORATION, GALVESTON, TX\286-271 LOGS - TUBE E

Professional Service Industries, Inc.
1714 Memorial Drive
Houston, Texas 77007
Telephone: 7132242047
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SUBSURFACE DIAGRAM

PROJECT NAME: STARVATION COVE MARSH RESTORATION (TUBE EXTENSION)

PROJECT NUMBER: 286-271

PROJECT LOCATION: GALVESTON, TEXAS

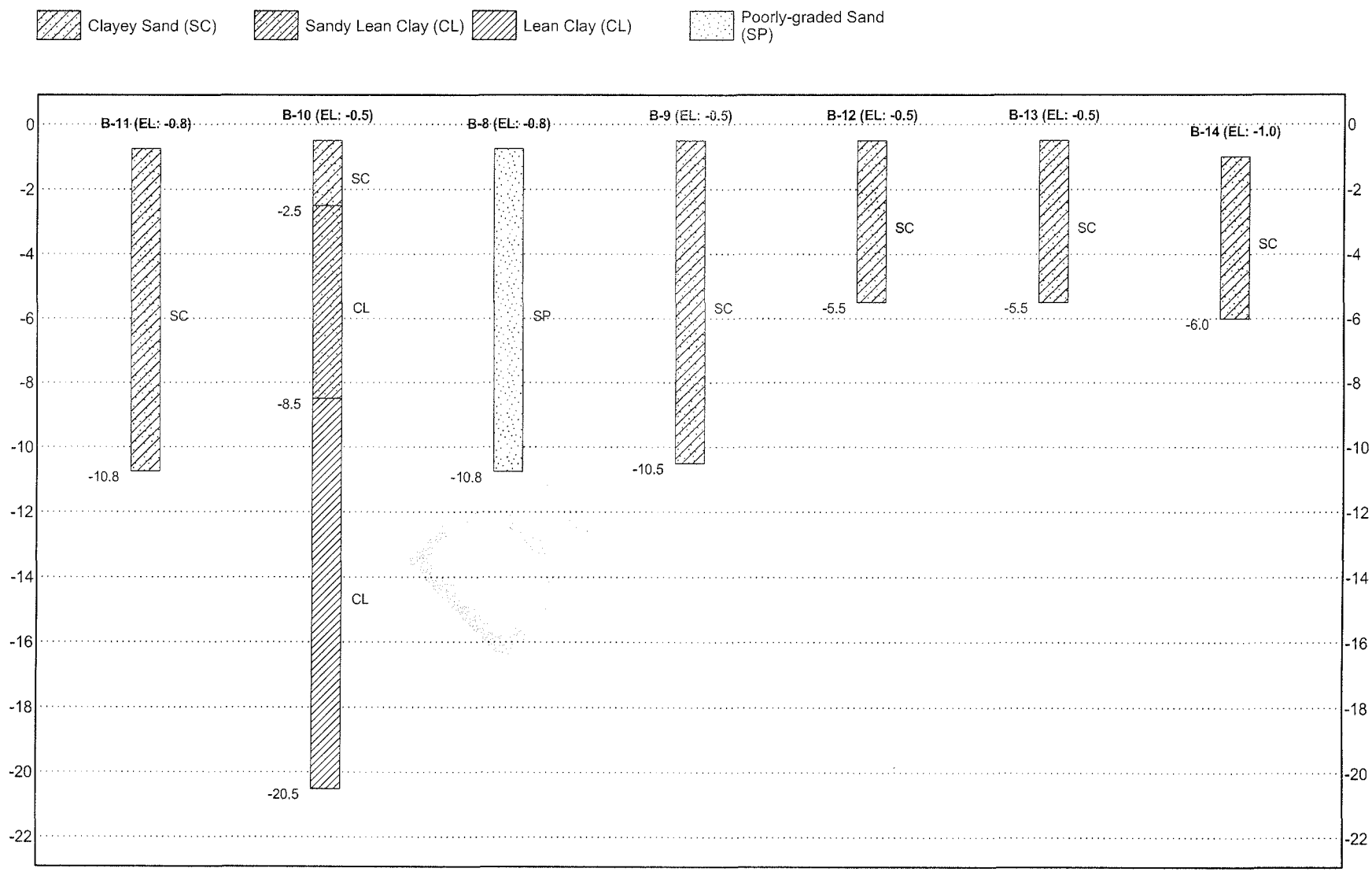

PLATE 24B