

ALEXANDER ISLAND BORING SUMMARY SHEET

BORING ID:	<u>13-B18</u>
BORING TYPE:	<u>Borrow Source</u>
DEPTH:	<u>15'</u>
ELEVATION:	<u>29.49'</u>
X (US SURVEY FT):	<u>3224819.95</u>
Y (US SURVEY FT):	<u>13832313.05</u>
DEPTH TO WATER:	<u>2.5'</u>

Client: USACE Galveston District Boring: 13-B18
 Date/Time Drilling Begun: 12.9.13/1005 Date/Time Drilling Ended: 12.9.13/1125
 Driller: J. New Logger: E Fickler Designated X (Easting): 3224820
 Drill Rig: Mobile B57 Designated Y (Northing): 13832313 Z (Elevation):
 Total depth: Initial Water Encounter (Depth, date/time): 3.15 12.9.13/1017 Water Depth (15 min.): 2.5

100
 Pledge Soil
 1125

Feet	USCS Log	Sample Interval (ft)	Amount Material Obtained (in)	Sample Type Blow Counts	Number of Tubes	Pocket Pene. (tsf)	Shear Strength (tsf)	Description (SOIL TYPE, color, moisture, plasticity, consistency, density, inclusions, etc.)
0-2	SM	0-2	18	ST	1B	-	-	Silty (F-C) SAND, Light Gray, Moist, Loose Roots common to 6" slightly clayey common oyster shells at surface
2.4-3.5	SM	0-2 2.4-3.5	12	SS	1B	-	-	S.A.A., Dark Gray, Wet,
4-6		3.5-5.0 4-6						
6-8	SM	3.5-5.0 6-8						
8-10	OH	8-10	11	SS	1B	-	-	SAA, Dark Gray, Wet to 9'6", Common Carbonaceous frags. 9'6"
10-12		10-12	13	ST	1T	0	0.1	Slightly sandy CLAY Dark Gray, Wet, V. Soft, common Woody debris SA is Fine to Black
12-13.5	SC	12-13.5	10	ST	1B	0	0.1	Mixed SAND with V. clayey SAND (F-C) Wet Dark Gray common Wood debris
13.5-15	SM	13.5-15	11	SS	1B	-	-	Silty SAND (F-C), Wet, Light Grayish Brown,
15-20								

9'6"
 12
 13'6"
 15

Weather: Light Rain, ~35°F
 Comments:

USCS Log Legend:

Frags = Fragments (F-C) = fine to coarse grained

V. = very SA = SAND



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Alexander Island
 Houston Ship Channel
 Baytown, TX



Quaternary Resource Investigations, L.L.C.
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COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE GDT - 4/4/14 15:03 - F:\QRI DATA\TECHNICAL\JOBS (CURRENT)\AGE - GALVESTON\2012-12-20 GEOTECHNICAL CONTRACT\TASK ORDER DY06 2013-09-10 ALEXANDER ISLAND\DELIVERABLES\ALEX



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BORING NUMBER 13-B18

CLIENT USACE-Galveston District **PROJECT NAME** Alexander Island
PROJECT NUMBER W912HY-13-D-0001-DY06 **PROJECT LOCATION** Alexander Island, Baytown, TX
DATE STARTED 12/9/2013 10:05:00 AM **COMPLETED** 12/9/2013 11:25:00 AM **GROUND ELEVATION** 29.4891 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13832313 ft **EASTING** 3224820 ft
DRILLING METHOD Hollow Stem Auger **DRILLING RIG MAKE/MODEL** Mobile B57 on Gemco Articulated Platform
LOGGED BY Eddie Ficker **TOTAL DEPTH** 15 ft **GROUND WATER LEVEL** ∇ AT TIME OF DRILLING 3.15 ft / Elev 26.34 ft
WEATHER light rain, mid 30s **24 HOURS AFTER DRILLING** ∇ 2.50 ft / Elev 26.99 ft

GRAPHIC LOG	USCS SYMBOL	MATERIAL DESCRIPTION	DEPTH (ft)	SAMPLE TYPE	RECOVERY (in)	SPT BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	FIELD TORVANE (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			MINUS #200 SIEVE CONTENT (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX				
	SM	Silty SAND; fine to coarse grained, light gray, moist, loose, slightly clayey, with roots (common to 6") and common oyster shells at surface	0	ST	18		-			13				16			
				NR	0												
	SP-SM	dark gray, wet SAND with SILT; fine to coarse grained, light gray, moist, loose, slightly clayey, with roots (common to 6") and common oyster shells at surface	5	SS	12	5-5-5 (10)	-			19				6			
				NR	0												
	CH	common carbonaceous fragments CLAY; dark gray to black, wet, very soft, with fine grained sand and common woody debris	10	SS	11	2-1-1 (2)	-			50							
				ST	13			0	0.1		70	109	29	80	92		
	SM	with fine to coarse grained sand, wet, dark gray, with common wood debris Silty SAND; fine to coarse grained, wet, light grayish brown		ST	10		0	0.1		83	98	29	69	93			
				SS	11	1-1-1 (2)	-			20							

Bottom of borehole at 15.0 feet.

