

# ALEXANDER ISLAND BORING SUMMARY SHEET

<b>BORING ID:</b>	<u>13-B13</u>
<b>BORING TYPE:</b>	<u>Borrow Source</u>
<b>DEPTH:</b>	<u>60'</u>
<b>ELEVATION:</b>	<u>26.39'</u>
<b>X (US SURVEY FT):</b>	<u>3225136.04</u>
<b>Y (US SURVEY FT):</b>	<u>13831406.95</u>
<b>DEPTH TO WATER:</b>	<u>2.85'</u>

Client: USACE-Galveston District Boring: 13-B13  
 Date/Time Drilling Begun: 12.10.13/1238 Date/Time Drilling Ended: 12.12.13/1230  
 Driller: J. New Logger: E. Fickr. Designated X (Easting):  
 Drill Rig: Mobile B57 Designated Y (Northing): Z (Elevation):  
 Total depth: 60 Initial Water Encounter (Depth, date/time): 35 ft 12.10.13/1253 Water Depth (15 min.): 2.85

1238

Wedge spoil

40 23

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	SM	0-2	16	ST	1B	-	-	Silty SAND (FC) Light Grayish Brown to Light Gray, Moist, Loose
2-4	SM	2-4	7	SS	1B	-	-	S.A.A. Wet
4-6		4-6						
6-8		6-8						
8-10	CH	8-10	11	SS	1B	-	-	Silty Clay, Dark Gray, Moist, High Plast., Common Woody debris
10-12	CH	10-12	14	ST	1T	1.0	-	S.A.A. Turning Mixed w/ Silty SAND (FC) Light Grayish Brown, Moist, High Plast, Sandy (SC) @ 11'9"
12-13.5	SC	12-13.5						
13.5-15	SC	13.5-15	12	SS	1B	-	-	Alternating Clayey SAND, Moist, Light Gray, V. loose, Silty SAND, Wet, Light Gray, V. loose, (FC)
15-18.5	SC	15-18.5						
18.5-20	SC/CH	18.5-20	14	SS	1B	-	-	S.A.A. Alternating SC & CH, CH is Gray CLAY, Moist, High Plast STIFF.

Weather: Sunny, Breezy, ~40°F  
 Comments: FC = fine to coarse grained

SA = SAND Plast. = plasticity  
 S.A.A = Same as above V. = very

USCS Log Legend:



US Army Corps of Engineers, Southwestern Division  
 Galveston District  
 2000 Fort Point Road/P.O. Box 1229  
 Galveston, TX 77553-1229

Alexander Island  
 Houston Ship Channel  
 Baytown, TX



Quaternary Resource Investigations, L.L.C.  
 Government & Industry in Harmony with the Environment  
 13588 Florida Boulevard, Baton Rouge, Louisiana 70819

Client: USACE-Galveston District

Boring: 13-B3

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STOP  
START  
1525  
12.11.13  
Base  
9' soil  
23'  
STOP  
START  
12.12.13  
2800

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.)
20	SC/CH	20-22	15	ST	1 <sub>D</sub>	-	-	(F-C), GRAY. Mixed clay is high plast., soft to stiff V-Clayey SAND; Wet, Loose; A
23	CH/SH	23-25	13	SS WOR-1	1 <sub>B</sub>	0	0.3	CLAY, Gray to Dark Gray, Moist, High Plast., U. soft
25	OH	25-27	19	ST	1 <sub>T</sub>	0	0.3	SAA, Black
27	OH	27-29	18	ST	1 <sub>T</sub>	0	0.3	SAA, Black
29	CH/OH	29-31	20	ST	1 <sub>T</sub>	0	0.2	SAD; Common <sup>orange</sup> Brown Lams
31	CH/SH	31-33	12	ST	1 <sub>T</sub>	0	0.2	SAD; Common Light Gray Lams turning Gray to Dark Gray
33	OH	33-35	20	ST	1 <sub>T</sub>	0	0.1	SAA; Moist to Wet, Black
35	CH/OH	35-37	16	ST	1 <sub>T</sub>	0	0.15	SAA Dark Gray to Black
37	CH/SH	37-39	20	ST	2 1 <sub>B</sub> 1 <sub>T</sub>	0.25	-	SAA to 38' turning brown & containing lots of roots & woody debris & becoming sandy V. Silty, clayey SAND, Light Gray, Moist, Loose, Common roots
38	SC/SM	38-40	10	SS WOR-4	1 <sub>B</sub>	-	-	SAA, Wet Common roots, Gray

(Top Soil) 38'

Weather: Sunny, Breezy, ~40°F (12.10.13) / Overcast, 45°F, calm (12.11.13) / Partly Cloudy, ~40°F, Breezy (12.12.13)

USCS Log Legend

S.A.A = same as above Lams = laminations Plast. = plasticity (F-C) = Fine to coarse grained V. = Very



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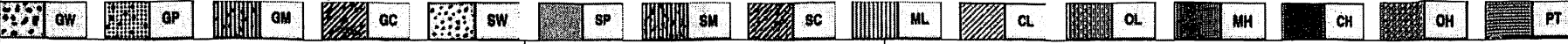
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Client: USACE-Galveston District Boring: 13-B13 DY06' Page 3 of 3

Total depth: 60.0 Date/Time Drilling Ended: 12.12.13 / 1235

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.)
40								
43.5-45	SM	18	SS WOR-1	18	-	-	V. Silty SAND, Gray, Wet, slightly clayey, V. Loose,	
45								
48.5-50	SM	18	SS WOR-1-2	18	-	-	S.A.A., occasional shell frags	
50								
53.5-55	SM	18	SS 2-2-2	18	-	-	S.A.A., SA is F-C	
55								
58.5-60	SM/SC	18	SS 1-1-2	18	-	-	SAA, Common Gray Silty Clay Lamr.	

1235 END Weather: Partly Cloudy, ~40°F, Breezy (12.12.13) Comments: F-M = Fine to med. Grained F-C = Fine to coarse Grained V. = Very  
 USCS Log Legend: S.A.A. = same as above Lamr = laminations frags = fragments



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