

# ALEXANDER ISLAND BORING SUMMARY SHEET

<b>BORING ID:</b>	<u>13-B14</u>
<b>BORING TYPE:</b>	<u>Borrow Source</u>
<b>DEPTH:</b>	<u>15'</u>
<b>ELEVATION:</b>	<u>28.30'</u>
<b>X (US SURVEY FT):</b>	<u>3225382.99</u>
<b>Y (US SURVEY FT):</b>	<u>13831732.99</u>
<b>DEPTH TO WATER:</b>	<u>2.3'</u>

Client: USACE-Galveston District Boring: 13-B14 Page 1 of 1  
 Date/Time Drilling Begun: 12.21.13/0750 Date/Time Drilling Ended: 12.21.13/9:10  
 Driller: Jason New Logger: Eddie Fickel Designated X (Easting): 3225326  
 Drill Rig: Mobile B57 Designated Y (Northing): 13831726 Z (Elevation):  
 Total depth: 15 Initial Water Encounter (Depth, date/time): 3.7 ft, 12.21.13/808 Water Depth (15 min.): 2.3 ft

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	13	ST	1 <sub>B</sub>	-	-	Silty SAND (F-c), v. Light orange Brown, Moist, v. loose turning Gray @ 0.6"
2-4								
5	SM/CL	3.5-5 4-6	12	SS 5-5-4	1 <sub>B</sub>	-	-	S. Clayey/v. Silty SAND (F-c), Gray Loose, Wet
6-8								
8-10	OH/CH	8-10	13	SS WOR-WOR-WOR	1 <sub>B</sub>	Ø	0.1	CLAY, Black to Dark Gray, Moist, High Plast, v. Soft } From 8'-10'3"
10-12	SM SP	10-12	20	ST	1 <sub>B</sub>	-	-	10.5" SAND ← 10-11 - SM F-c, silty sand } Gray, Wet, v. loose 11-12 - SP Fine SAND }
12.5-15.0	SP	12.5-15.0	11	SS F-T-1	1 <sub>B</sub>	-	-	SAA (SP)
15								
20								

Weather: Rainy ~ 60°F

Comments: (F-c) = Fine to coarse grained v=very plast=plasticity B=bag, T=tube

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

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-B14**

**CLIENT** USACE-Galveston District **PROJECT NAME** Alexander Island  
**PROJECT NUMBER** W912HY-13-D-0001-DY06 **PROJECT LOCATION** Alexander Island, Baytown, TX  
**DATE STARTED** 12/21/2013 7:50:00 AM **COMPLETED** 12/21/2013 9:10:00 AM **GROUND ELEVATION** 28.3 ft **HOLE SIZE** 8.25 inches  
**DRILLING CONTRACTOR** QRI **NORTHING** 13831727 ft **EASTING** 3225326 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 3.70 ft / Elev 24.60 ft  
**WEATHER** raining, 60 **24 HOURS AFTER DRILLING** ▽ 2.30 ft / Elev 26.00 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					
	SP-SC	SAND with CLAY; fine to coarse grained, very light orangish brown (top 0.5') to gray (0.5-3.5'), moist, very loose	0	ST	13		-			16					8			
				NR	0													
	SP-SM	SAND with SILT; very silty SAND, fine to coarse grained, gray, wet, loose	5	SS	12	5-5-4 (9)	-			29					12			
				NR	0													
	CH	CLAY; black to dark gray, moist, high plasticity, very soft	10	SS	13	0-0-0 (0)	0	0.1		72	89	25	64					
	SM	Very silty SAND; fine to coarse grained, gray, wet, very loose		ST	20		-			20								
	SP	SAND; fine grained, gray, wet, very loose		NR	0													
				SS	11	1-1-1 (2)	-			21								

Bottom of borehole at 15.0 feet.





