



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B172

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CLIENT USACE-Galveston District
PROJECT NUMBER W912HY-13-D-0001-DY05
DATE STARTED 12/6/2013 1:30:00 PM **COMPLETED** 12/6/2013 5:00:00 PM
DRILLING CONTRACTOR QRI
DRILLING METHOD Hollow Stem Auger
LOGGED BY Pete Herold **TOTAL DEPTH** 40 ft
WEATHER cloudy, 40s, windy

PROJECT NAME Sabine Neches Placement Area 8
PROJECT LOCATION Port Arthur, TX
GROUND ELEVATION 12.7846 ft **HOLE SIZE** 8.25 inches
NORTHING 13890648.87 ft **EASTING** 3575766.47 ft
DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
GROUND WATER LEVEL **AT TIME OF DRILLING** 13.40 ft / Elev -0.62 ft
15 MINUTES AFTER DRILLING 9.60 ft / Elev 3.18 ft

COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 7/15/14 13:11 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\SABINE NECHES PA 8 FINAL EDITED.GPJ

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 (%)	COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
			0												
		Fat CLAY, light brown, firm, with roots and shell fragments		ST	8		1.2			34					
		very soft, with sand seams and cracks 2'-4'		ST	6		0	0.9	78	39					
		dark gray and light brown mottled, soft	5	ST	7		1.0			35					
		dark gray, with shell fragments 6'-18'		ST	16		1.0		78	44		84	0.39	3	
		very soft		ST	19		0	1.4		96					
		dark gray and greenish gray	10	ST	20		0	1.5	52	83		98	0.18	3	
		dark gray		ST	17		0	1.4		89					
	CH		15	ST	18		0	1.0							
				ST	19		0	1.6	48	96	128	31	97	99	
			20	ST	19		0	1.7							
		dark gray and greenish gray mottled, soft		ST	16		0.7	1.3							
		greenish gray and light brown mottled, firm		ST	19		2.3		84	39	63	17	46	95	0.93
		stiff	25	ST	19		2.5								
		very stiff		ST	19		3.2								
		more sand, firm, with sand seams and cracks 28'-30'		ST	13		1.0		105	26					
			30												
	CL	Lean CLAY with SAND, fine grained, light brown, stiff, with clay seams			SS	18	8-14-16 (30)	1.5		25		75			
					NR										
	CH	CLAY, light brown, stiff, with sand seams 33.5'-40'			SS	18	5-6-10 (16)	2.2							
			35												

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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 (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	CH	CLAY, light brown, stiff, with sand seams 33.5'-40' (continued) firm	35	○ NR													
				ST	18		2.0		33								
				ST	19		1.0										
			40														

Bottom of borehole at 40.0 feet.