



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B137

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CLIENT USACE-Galveston District
PROJECT NUMBER W912HY-13-D-0001-DY05
DATE STARTED 1/21/2014 7:45:00 AM **COMPLETED** 1/21/2014 3:45:00 PM
DRILLING CONTRACTOR QRI
DRILLING METHOD Hollow Stem Auger
LOGGED BY Pete Herold **TOTAL DEPTH** 80 ft
WEATHER clear, windy, 50s

PROJECT NAME Sabine Neches Placement Area 8
PROJECT LOCATION Port Arthur, TX
GROUND ELEVATION 18.0233 ft **HOLE SIZE** 8.25 inches
NORTHING 13871345.93 ft **EASTING** 3574153.38 ft
DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform
GROUND WATER LEVEL **AT TIME OF DRILLING** 37.40 ft / Elev -19.38 ft
 15 MINUTES AFTER DRILLING 25.60 ft / Elev -7.58 ft

COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 7/15/14 13:08 - 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)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					
	CH	Fat CLAY, light brown and dark gray mottled, sandy, with shell fragments 0' to 11.5', stiff	0	ST	12		2.25		100	25								
		less sand, dark gray, with cracks at 2' - 6', soft		ST	18		3.4		90	30			71	0.48	4			
		hard	5	ST	10		>4.5			20								
		stiff		ST	9		1.5		111	18			72	1.81	6	6		
			10	ST	16		1.4		86	31								
				NR														
			15	ST	19		1.4			63	89	31	58					
				ST	19		1.0		78	44	94	34	60	98				
			20	ST	18		1.3			63								
				NR														
	CL	Lean CLAY with SAND, dark gray, with sand seams and cracks 17' - 21.5', trace of organics, soft firm		NR														
				ST	18					63								
		light brown and greenish gray mottled		NR														
			25	ST	18		1.9		97	30			92	0.94	8			
		▮ with cracks 25' - 28', stiff		ST	19		2.25		104	24								
		NR																
	CH	CLAY, light brown, greenish gray and dark gray mottled, firm, with shell fragments 28'-43'	30	ST	16		1.8			25								
				NR														
		light brown and greenish gray mottled, stiff	35	ST	15		2.5		102	25	53	17	36	97	1.94	8	25	

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CLIENT USACE-Galveston District

PROJECT NAME Sabine Neches Placement Area 8

PROJECT NUMBER W912HY-13-D-0001-DY05

PROJECT LOCATION Port Arthur, TX

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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, greenish gray and dark gray mottled, firm, with shell fragments 28'-43' (continued)	35	○ NR													
			40	■ ST	17		2.7			21							
				○ NR													
	CL	Lean CLAY, light brown and greenish gray mottled, stiff, with sand seams and cracks 43'-58'	45	■ ST	19		2.4		94	29							
				○ NR													
				firm													
			50	■ ST	19		2.75		93	30				99	0.94	3	
				○ NR													
			55	■ ST	18		2.9			30							
				○ NR													
	CH	Fat CLAY, dark gray and light brown mottled, stiff, with iron staining dark gray, with sand seams and cracks 60'-73'	60	■ ST	17		2.2		80	42							
				■ ST	19		1.8			45							
				○ NR													
			65	■ ST	18		1.7			54							
				○ NR													
			70	■ ST	14		1.8		78	38	102	33	69	92	1.54	6	
				○ NR													
			75	■ ST	16		1.75			38							

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											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX				
	CH	Fat CLAY, dark gray and light brown mottled, stiff, with iron staining (<i>continued</i>)	75	○ NR													
		greenish gray, very stiff	80	■ ST	19		3.0			25							

Bottom of borehole at 80.0 feet.