



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B198

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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
DATE STARTED 12/7/2013 7:30:00 AM **COMPLETED** 12/7/2013 2:15:00 PM **GROUND ELEVATION** 3.2983 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13889947.84 ft **EASTING** 3577212.63 ft
DRILLING METHOD Hollow Stem Auger **DRILLING RIG MAKE/MODEL** Mobile B57 on Gemco Articulated Platform
LOGGED BY Pete Herold **TOTAL DEPTH** 50 ft **GROUND WATER LEVEL** ▽ AT TIME OF DRILLING 10.00 ft / Elev -6.70 ft
WEATHER cloudy, 30s, windy **▽ 15 MINUTES AFTER DRILLING** 5.80 ft / Elev -2.50 ft

COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 7/15/14 13:13 - 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 (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)	COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	CH	Fat CLAY, light brown, firm, with shell fragments 0'-4'	0	ST	7		3.5			18							
		more sand		ST	10		>4.5		106	19	60	19	41	59	0.84	5	
		less sand	5	ST	6		3.5			19							
		▽ greenish gray and light brown mottled		ST	18		2.5			31							
		more sand	10	ST	10		2.2		104	22	58	16	42	82	0.78	14	8
		▽		ST	8		0.8			23							
				ST	8		1.1		101	26							
		less sand, stiff	15	ST	16		2.2			34							
				ST	20		2.1		101	23				84	1.87	9	
		with ferrous nodules		ST	19		2.7			23							
		light brown	20	ST	19		1.9			22							
				ST	19		1.6			27							
	CL	CLAY with sand, light brown, stiff, with sand seams 24'-26'		ST	16		1.6										
		light brown and greenish gray, firm, with cracks 24'-26'	25	ST	18		1.4										
		light brown		ST	18		0.8		99	27	29	20	9	87			
		less sand, stiff, with cracks 28'-30'	30	ST	19		2.5			35							
				ST	19		2.6			30							
		firm		ST	19		1.4										
		with cracks 34'-36'	35														

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			35												
		CLAY with sand, light brown, stiff, with sand seams 24'-26' (continued)		ST	19		1.4								
		stiff													
		firm		ST	19		1.75			32					
	CL														
		light brown and greenish gray mottled, stiff	40	ST	15		1.1								
		dark gray and light brown mottled, firm		ST	19		1.5								
				ST	19		1.1								
		Fat CLAY, dark gray, firm	45	ST	16		1.4		76	48		100			
		stiff		ST	19		1.7								
	CH														
		firm		ST	19		1.4								
			50												

Bottom of borehole at 50.0 feet.