



Quaternary Resource Investigations, LLC
13588 Florida Boulevard
Baton Rouge, LA 70820
Telephone: 225-292-1400
Fax: 225-292-1404

BORING NUMBER 13-B147

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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 2/16/2014 7:45:00 AM **COMPLETED** 2/16/2014 2:30:00 PM **GROUND ELEVATION** 20.0944 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13886485.53 ft **EASTING** 3568960.593 ft
DRILLING METHOD Hollow Stem Auger **DRILLING RIG MAKE/MODEL** Mobile B57 on Gemco Articulated Platform
LOGGED BY Pete Herold **TOTAL DEPTH** 70 ft **GROUND WATER LEVEL** ▽ AT TIME OF DRILLING 23.90 ft / Elev -3.81 ft
WEATHER cloudy to clear, light wind to windy, 50s to 70s **▽ 15 MINUTES AFTER DRILLING** 22.60 ft / Elev -2.51 ft

COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 7/15/14 13:09 - 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												
	CH	Fat CLAY, light brown, stiff		ST	8		2.75			30					
				ST	13		2.75		95	26		91	1.33	5	
		light brown and dark gray mottled, firm	5	ST	10		1.8		96	29	55	20	35	89	0.99
		very stiff		ST	16		3.25			31					
			10	ST	12		3.1		90	28					
				○	NR										
		firm		ST	16		2.1		88	35		92	0.52	4	
			15	○	NR										
				○	NR										
			20	○	NR										
	CL	Lean CLAY with SAND, greenish gray, firm, with sand seams 20'-33'		ST	14		1.1		99	22	33	19	14	89	
				○	NR										
				ST	10		1.0			23					
		very soft	25	ST	20		1.4		87	35		73	0.23	13	20
				○	NR										
	SM	SAND with SILT, greenish gray, loose		ST	17		1.75		106	22					
			30	○	NR										
				ST	17		1.25		101	25		46	0.51	4	
			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)
	SM	SAND with SILT, greenish gray, loose (continued)	35	○ NR													
		greenish gray and light brown mottled	40	■ ST	18		1.8		105	22							
				○ NR													
		with cracks 43'-48'	45	■ ST	18		0.8			23							
	CL			○ NR													
		Lean CLAY with SAND, greenish gray, firm	50	■ ST	17		1.4			23	30	16	14	84			
				○ NR													
	CH		55	■ ST	18		1.5			24							
				○ NR													
		CLAY, greenish gray, stiff	60	■ ST	19		2.2		99	26				89	1.50	4	
		firm	65	■ ST	18		1.4		92	32							
	SP-SC	SAND, fine grained, greenish gray, very loose, with some clay	70	⊗ SS	20	2-1-2 (3)	1.25			25				8			

Bottom of borehole at 70.0 feet.