



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B166

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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 1/8/2014 10:50:00 AM COMPLETED 1/9/2014 8:45:00 AM	GROUND ELEVATION 16.7448 ft HOLE SIZE 8.25 inches
DRILLING CONTRACTOR QRI	NORTHING 13876792.87 ft EASTING 3575432.848 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 20.20 ft / Elev -3.46 ft
WEATHER cloudy to partly cloudy, windy, 40s to 50s	 15 MINUTES AFTER DRILLING 16.90 ft / Elev -0.16 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 (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	CH	Fat CLAY, light brown and greenish gray mottled, stiff, with shell fragments 8'-13'	0	ST	7		2.2			35							
		less sand, light brown		ST	5		1.6		87	31	89	28	61				
		dark gray and greenish gray, soft, with sand seams and cracks 4'-6'	5	ST	11		1.0		82	37				84	0.36	2	
				ST	17		1.4			33							
		dark gray		ST	17		3.2		63	64	70	23	47	78	0.44	3	8
			10	NR													
		light brown and greenish gray mottled, firm, with organics 13'-15'		SS	12	2-2-3 (5)	1.1			39							
		more sand, with sand seams 15'-18' and cracks 15'-18', stiff	15	ST	19		2.0		82	41							
				NR													
		less sand, with ferrous nodules and shell fragments 18'-23', firm		ST	17		1.25			37							
	CL	greenish gray and dark gray, stiff, with sand seams and cracks 20'-23'	20	ST	20		2.5			37							
				NR													
		Fat CLAY with SAND, dark gray, firm, slight organic odor 23'-25'	25	ST	17		1.0		88	34	46	18	28	76			
				NR													
		dark gray and greenish gray mottled, stiff		ST	14		2.0			30							
			30	NR													
		more sand, greenish gray, soft, with sand seams 33'-35' and cracks 33'-35'		ST	9		1.5		105	21					0.48	7	
			35														

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	SM	SAND with SILT, fine grained, light brown, loose	35	SS	10	1-2-3 (5)				25				23			
				NR													
		Lean CLAY with SAND, light brown, stiff, with sand seams 38'-40'	40	SS	21	3-7-6 (13)	2.4			32							
		light brown and greenish gray mottled, firm		ST	19		1.25		93	32							
				NR													
			45	ST	19		1.5		91	31				99	0.95	8	25
				NR													
	CL	stiff	50	ST	19		1.9			31							
				NR													
			55	ST	19		2.6										
				NR													
	CH	Fat CLAY, light brown and greenish gray mottled, stiff	60	ST	19		2.0		71	53				100	1.46	11	
				NR													
		dark gray, with shell fragments 63'-70'	65	ST	20		1.6			34							
				NR													
			70	ST	20		2.5										

Bottom of borehole at 70.0 feet.