



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B150

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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 11/12/2013 11:40:00 AM **COMPLETED** 11/12/2013 5:00:00 PM **GROUND ELEVATION** 7.5096 ft **HOLE SIZE** 8.25 inches
DRILLING CONTRACTOR QRI **NORTHING** 13890177.13 ft **EASTING** 3571932.495 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** 10.60 ft / Elev -3.09 ft
WEATHER partly cloudy, 50s, windy to very windy **15 MINUTES AFTER DRILLING** 10.60 ft / Elev -3.09 ft

COPY OF PEGGY LAKE GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 7/15/14 13:10 - 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 (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
	CH	Fat CLAY, light brown, soft, with trace of roots	0	ST	10		0.7	3.0	93	28							
		with cracks 2'-4', firm		ST	17.5		1.0		83	40					0.64	5	
			5	ST	12		0	3.0	90	32	67	22	45	91	0.86	12	4
		with a trace of shells 6'-8'		ST	12		1.0		79	42							
		less sand, dark gray, with iron nodules, very soft		ST	21		0	0.7	48	95	116	33	83	99			
		with slight organic odor 10'-12'	10	ST	23		0	0.6		73							
					NR												
		more sand, greenish gray, soft		ST	22		0.5	2.3		39							
		with caliche, stiff	15	ST	17		1.0		98	26	68	19	49	97	1.21	15	11
					NR												
	CL-ML		20	ST	18		2.4			25							
					NR												
		more sand, with sand seams 23'-25' and cracks 23'-28'		ST	19		2.0			26							
			25	ST	20		1.75		97	26				60	0.46	4	
					NR												
		less sand, stiff		ST	20.5		1.7			28							
			30	ST	19		1.6		92	30							
					NR												
			35	ST	21		1.9			30							

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	CL-ML	CLAY with SILT, light brown, soft (continued)	35	○ NR											
		Fat CLAY with SILT, light brown, very stiff	40	■ ST	19		1.7		90	31		99	2.82	4	
				○ NR											
			45	■ ST	21		3.0			40					
				○ NR											
		dark gray, stiff		■ ST	19		2.6		79	43					
		greenish gray	50	■ ST	18		1.8			45					
				○ NR											
	CH		55	■ ST	20		1.7		79	42		1.26	6		
				○ NR											
		with a trace of shell fragments 58'-60'	60	■ ST	20		1.6			29					
				○ NR											
		very stiff	65	■ ST	19		3.2								
				○ NR											
			70	■ ST	21		3.75			19					

Bottom of borehole at 70.0 feet.