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**BORING NUMBER 13-B123**

CLIENT \_\_\_\_\_ PROJECT NAME Peggy Lake Placement Area  
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas  
 DATE STARTED 3/19/2013 4:15:00 PM COMPLETED 3/20/2013 2:10:00 PM GROUND ELEVATION 13.3819 ft HOLE SIZE 8.25 inches  
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13835631.29 ft EASTING 3218800.123 ft  
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Geoprobe 6610DT  
 LOGGED BY Terri Russin TOTAL DEPTH 30 ft GROUND WATER LEVEL \_\_\_\_\_  
 WEATHER thunderstorm, cloudy to sunny, cool, 60s, windy AT TIME OF DRILLING 12.00 ft / Elev 1.38 ft 3/20/2013 9:40:00 AM

J:\KTOPEGGY LAKE PLACEMENT AREA 3\_9-27-13.GPJ  
 J:\GEO TECH BH - PEGGY LAKE TEMPLATE GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\TRL

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				COMPRESSIONIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)			
	CL	Silty CLAY, light brown, slightly moist grading to moist with depth, medium plasticity, cracked black stained clay mixed in with the silty clay	0	ST	10		1.9/0.8										
	SM	Silty SAND, yellow orange, moist, low plasticity		ST	19		3.1/0.9			33	98	31	67	73			
	CL	Silty CLAY, olive gray, moist, medium plasticity	5	ST	20		0/2.2	1.5/--		30							
	CH	layer of rocks CLAY, yellow orange, slightly moist, medium high plasticity, with caliche		ST	21		0/2.8	1.4/--	95	31				89	2.89	4.5	0
	CL	Silty CLAY, yellow orange clay grading to light gray, slightly moist, medium to high plasticity, with caliche and shell fragments	10	ST	10		1.6/1.05				33	12	21	57			
	SP	SAND, light gray, moist, with shell fragments		ST	12		0.5			20							
	CL	SAND and CLAY, non-uniform mix, light gray, wet, none to medium/high plasticity, with bivalves		ST	20		1.55			19							
	SS		15	SS	24		0.3/0.8			35				86			
	SP	SAND, light gray, wet, no plasticity, with wood fragments and hydrocarbon staining and odor, slightly laminated		SS	24		1.2			18							
	CH	CLAY, black, moist, high plasticity, with hydrocarbon odor		SS	24		0.8/1.6			22							
	CH	SAND, light brown, wet, no plasticity		ST	19		0.25/0	0.6/2.4		36				69			
	SP-SC	CLAY, black, moist, high plasticity, with hydrocarbon odor		SS	24		0/2.2	2.5/--		58							
	CH	Clayey SAND, black stained light brown, wet, very fine grained, no plasticity		SS	24												
	SP	CLAY, black, moist, high plasticity, with hydrocarbon odor	25	SS	21		0.5			18							
	SP	SAND, light gray, wet, no plasticity, with occasional shell and some black hydrocarbon staining		SS	24		2.0/3.6			15							
	CL	SAND and CLAY, light brown to light gray very fine grained SAND with CLAY laminations, moist, medium plasticity	30	SS	24		1.75/0	--/2.0									

Bottom of borehole at 30.0 feet.

COPY OF PEGG