



Quaternary Resource Investigations, LLC  
 13588 Florida Blvd  
 Baton Rouge, LA 70819  
 Telephone: 225-292-1400  
 Fax: 225-292-1404

**BORING NUMBER 13-B116**

CLIENT \_\_\_\_\_ PROJECT NAME Peggy Lake Placement Area  
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas  
 DATE STARTED 4/14/2013 2:30:00 PM COMPLETED 4/15/2013 2:15:00 PM GROUND ELEVATION 19.0346 ft HOLE SIZE 8.25 inches  
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13837473.45 ft EASTING 3215605.094 ft  
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform  
 LOGGED BY Terri Russin TOTAL DEPTH 60 ft GROUND WATER LEVEL \_\_\_\_\_  
 WEATHER partly cloudy, 60s - 70s, windy AT TIME OF DRILLING 8.00 ft / Elev 11.03 ft 4/14/2013 3:14:00 PM

COPY OF PEGG - GEOTECH BH - PEGGY LAKE TEMPLATE GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\TRL\KTOP\PEGGY LAKE PLACEMENT AREA.3, 9-27-13.GPJ

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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 (%)	ATTERBERG LIMITS				COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)			
	CL	Silty CLAY, light brown, slightly moist, medium to high plasticity	0	ST	7		2.5										
	SP	SAND, light brown, no plasticity, slightly moist, with rootlets		ST	17		0.9/3.0			33							
	CL	Silty CLAY, yellow orange to olive gray, slightly moist to slightly dry, medium plasticity, with caliche	5	ST	10		>4.5		98	26	95	26	69	95	3.59	2.2	0
				ST	12		2.0			27							
		SAND, light brown/yellow orange, wet, medium grained, no plasticity, with shell fragments	10	SS	18	5-10-19-22 (29)	1.3			26				49			
	SP	laminations, rootlets, a piece of decaying wood	15	SS	14	6-6-4-6 (10)	0.75			19							
				SS	15	0-1-2-3 (3)	0.75			33				89			
	CL	Silty CLAY, yellow orange, very moist, medium to high plasticity with caliche	20	ST	17		0.5			38							
				ST	21		0.4/1.1		91	32	73	24	49	95			
	ML	Clayey SILT, olive gray, very moist, medium plasticity		ST	18		0/0.2	0.3/3.8		58							
	CH	CLAY, olive gray to black, very moist, medium to high plasticity, hydrocarbon odor, silt-lined crack	25	ST	21		0/0.5	2.5/--	55	71							
				ST	21		0/0.8	0.2/--		43							
	CL	Silty CLAY, yellow orange, moist, medium to high plasticity, with caliche with shell fragments and light gray mottles	30	ST	19		0.6/1.0		96	27				0.61	2.7	7.1	
				ST	20		0.7/0	--/2.5	83	27	113	33	80	66	0.35	1.5	0
	CH	CLAY, olive gray, moist, soft, medium to high plasticity		ST	21		0.4/0.5			35							
	SP	SAND, olive gray very fine grained, moist, no plasticity, with small bits of decaying wood															
	ML		35			0-0-0-4											

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CLIENT \_\_\_\_\_ PROJECT NAME Peggy Lake Placement Area  
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas

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)		
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX							
ML		Clayey SAND and clayey SILT, olive gray, wet to very moist, little to no plasticity, with silt-lined cracks, cracks easily, laminated (continued)	35	SS	24	(0)	0	0.8												
				ST	20			0.2	1.5		25				38					
				ST	21			0	0.8											
			40	SS	24	2-4-3-4 (7)	0	1.8		24										
				ST	21			0	0.4		27									
			45	ST	13			0	0.6											
				ST	21			0	2.0		35					85				
				ST	21			0	1.5		27									
			50	ST	20			0	1.3											
				ST	21			0	1.0	102	27									
			55	ST	5			0	0.2		24									
				SS	24	2-2-1-5 (3)	0	0.1		22										
	SS	20	1-4-5 (9)	0	0															
			60	Bottom of borehole at 60.0 feet.																

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