



Quaternary Resource Investigations, LLC  
 13588 Florida Blvd  
 Baton Rouge, LA 70819  
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# BORING NUMBER 13-B127

CLIENT \_\_\_\_\_ PROJECT NAME Peggy Lake Placement Area  
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas  
 DATE STARTED 4/12/2013 10:00:00 AM COMPLETED 4/12/2013 5:00:00 PM GROUND ELEVATION 19.025 ft HOLE SIZE 8.25 inches  
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13833998.51 ft EASTING 3219581.22 ft  
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Mobile B57 on Gemco Articulated Platform  
 LOGGED BY Lamar Melder TOTAL DEPTH 60 ft GROUND WATER LEVEL \_\_\_\_\_  
 WEATHER sunny, warm, 60s - 70s, breezy ∇ AT TIME OF DRILLING 10.00 ft / Elev 9.03 ft 4/12/2013 10:25:00 AM

COPY OF PEGG E GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\RL\j\KTO\PEGGY LAKE PLACEMENT AREA.3.9-27-13.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)	
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX						
	CL	Silty CLAY, light brown, damp, medium plasticity, with tan SAND layers and pockets, with rootlets	0	ST	13		1.25			25									
				ST	10		1.25		100	24	52	16	36	88	1.01	7.7	0		
	SM	SAND, light brown, loose, dry, with rootlets, levee material  light gray  some black layers	5	ST	8					22									
				ST	8					12									
				ST	12						18								
			10	ST	6														
				SS	18	4-7-12 (19)					17				13				
	CH	CLAY, light brown and gray, soft, wet, medium plasticity	15	SS	18	4-8-8 (16)				19									
				SS	9	3-3-5 (8)	1.5			28									
	CH	CLAY, light gray, brown and yellow orange mottled, soft, wet, plastic, crumbly	20	ST	13		1.25		93	30	75	22	53	88					
				ST	12		2.0		99	24									
				ST	14		1.5			26									
				ST	18		1.0		64	60	105	29	76	98	0.53	3.4	0		
				ST	16		1.25				31								
				ST	16		1.0				32								
	ML	SILT, light gray, wet, loose, strong hydrocarbon odor and staining, laminated at the top of the interval	25	ST	14		1.5			26									
				ST	18		1.0		64	60	105	29	76	98	0.53	3.4	0		
	CL	Silty CLAY, dark gray and black, soft, wet, plastic	30	ST	16		1.25			31									
				ST	16		1.0			32									
	ML	Clayey SILT, light gray with black stains, wet		ST	16		1.0	2.25		31									
			35																

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.KTOPIPEGGY LAKE PLACEMENT AREA 3. 9-27-13.GPJ  
 .E GEOTECH 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								
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)	COMPRESSIVE STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)		
	ML	Clayey SILT, light gray with black stains, wet (continued)  with bivalves and fish ear bones	35	ST	16			0.75	104	23									
					ST	15			0.5		27								
					40	ST	15			1.0		24							
	CL	Silty CLAY, dark gray, medium stiff, damp, low plasticity, with small bivalves and other inclusions  no bivalves, white inclusions		ST	14		2.0			23									
					ST	12		2.0		106	22	45	14	31	78	0.46	13.8	10.1	
					45	ST	15		3.0			19							
	CL	Silty CLAY, light gray, dry, stiff, low plasticity, with iron oxide stains		ST	12		3.25			18									
					ST	13		3.0			18								
	CL	Sandy CLAY, yellow orange and greenish gray fine, damp, medium plasticity, medium stiff	50	ST	16		2.5		109	19									
	CL-ML	Silty CLAY, yellow orange, gray and greenish gray, damp, medium plasticity, soft to very stiff		ST	16		1.0/>4.5			19									
	CH	CLAY, reddish brown and light gray, mottled, damp, plastic, stiff to very stiff	55	ST	15		3.75/4.5			20									
					ST	15		3.0											
					60	ST	21		4.0										

Bottom of borehole at 60.0 feet.