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**BORING NUMBER 13-B118**

CLIENT \_\_\_\_\_ PROJECT NAME Peggy Lake Placement Area  
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas  
 DATE STARTED 3/28/2013 10:03:00 AM COMPLETED 3/28/2013 5:55:00 PM GROUND ELEVATION 15.0635 ft HOLE SIZE 8.25 inches  
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13837546.44 ft EASTING 3216396.463 ft  
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Geoprobe 6610DT  
 LOGGED BY Terri Russin TOTAL DEPTH 30 ft GROUND WATER LEVEL \_\_\_\_\_  
 WEATHER cloudy, humid, warm, 60s - 70s, breezy to windy AT TIME OF DRILLING 8.00 ft / Elev 7.06 ft 3/28/2013 11:10:00 AM

.E GEOTECH BH - PEGGY LAKE TEMPLATE GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\TRL\...  
 .JKT0PEGGY 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				COMPRESSION STRENGTH (tsf)	FAILURE STRAIN (%)	CONFINING PRESSURE (psi)
											LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	MINUS #200 SIEVE CONTENT (%)			
	CL	Silty CLAY, light brown to yellow orange, dry at top then slightly moist, medium plasticity, black muck smears on outside of samples	0	ST	12		1.75/1.15			40				84			
	CH	CLAY, light brown, moist, high plasticity		ST	20		0.4/0.2	--/0.2									
	CL	Silty CLAY, yellow orange coated with black mucky CLAY, moist, medium to high plasticity respectively, grading into light brown silty CLAY, moist, medium to high plasticity	5	ST	18		0/0.5	0.8/--		46							
	CH	CLAY, olive gray to black, moist, medium to high plasticity		ST	14		0/0.8	1.2/--		41	91	29	62	86			
	CL	SAND, yellow orange, moist, no plasticity, medium grained, with rootlets and shells	10	SS	11		0/0.8	0.3/--		20				41			
	CH	Silty CLAY, olive gray (with black staining), moist, medium to high plasticity		ST	21		0/0.4	1.0/--		61							
	CL	CLAY, dark gray to black, moist, high plasticity		ST	17		0/1.5			27				92			
	CH	Sandy CLAY, light brown, wet, with black stain		ST	17		0/1.5			27				92			
	CL	Silty CLAY, light brown, moist, medium plasticity	15	ST	21		1.1/2.3			18							
	CL	CLAY, light brown to olive gray, moist, high plasticity		ST	22		0/0.75	0.3/--		28							
	CL	Sandy CLAY, light gray CLAY, moist, high plasticity, mixed with light brown SAND, medium grained (size decreasing with depth), moist, with shells		ST	10		0/0.7	0.2/--		25	31	12	19	18			
	SP	Sandy CLAY, mix of SAND (light brown, wet) and CLAY (yellow orange, moist), with shell fragments, with some black staining and hydrocarbon odor	20	ST	22		0/1.45			23							
	CH	Sandy CLAY, mix of light brown/light gray SAND (medium grained, wet) and yellow orange/greenish gray CLAY (moist, high plasticity)		ST	16		2.0										
	CH	SAND, light brown, wet, no plasticity, with shell material	25	ST	21		1.0/0	--/0.6		56							
	CH	CLAY, yellow orange/light gray, moist, medium to high plasticity		ST	21		0	0.4		57							
	CL	CLAY, black, moist, high plasticity, hydrocarbon odor		ST	19		0/0	1.0/0.7									
	CL	Silty/Sandy CLAY, dark gray, moist, medium to high plasticity, cracks easily, hydrocarbon odor	30	ST	19		0/0	1.0/0.7									

Bottom of borehole at 30.0 feet.

COPY OF PEGG