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**BORING NUMBER 13-B112**

CLIENT \_\_\_\_\_ PROJECT NAME Peggy Lake Placement Area  
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas  
 DATE STARTED 3/14/2013 12:00:00 PM COMPLETED 3/14/2013 5:10:00 PM GROUND ELEVATION 10.8094 ft HOLE SIZE 8.25 inches  
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13835934.76 ft EASTING 3215998.425 ft  
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Geoprobe 6610DT  
 LOGGED BY Terri Russin TOTAL DEPTH 30 ft GROUND WATER LEVEL \_\_\_\_\_  
 WEATHER sunny, cool, 50s - 70s, windy AT TIME OF DRILLING 8.00 ft / Elev 2.81 ft 3/14/2013 12:49:00 PM

K:\TO\PEGGY LAKE PLACEMENT AREA 3\_9-27-13.GPJ

G:\GEO TECH BH - PEGGY LAKE TEMPLATE.GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\TRL

COPY OF PEGG

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					
	SM	Silty SAND, light brown, moist, no plasticity	0															
	CH	CLAY, black, very soft, moist, high plasticity, hydrocarbon odor		ST	14		<0.1	1.7										
	SM	Silty SAND, yellow orange, soft, moist, no plasticity		ST	20		0.75			32								
	SM	Silty SAND, dark gray to black, moist, soft, some clay included, hydrocarbon odor	5	ST	18		0.25	1.6		37	53	18	35	70				
	CL	SAND, mixture of dark gray to black, and CLAY, black, soft, mucky, hydrocarbon odor, moist, clay has high plasticity, sand has no plasticity		ST	19		<0.1	1.5		35								
	CL	mix of SAND, light brown very fine grained, and CLAY, black, wet, very soft, variable plasticity	10	ST	23		<0.1	0.7		42				48				
	SP	SAND, light brown very fine grained, wet, loose, wood fragments (10-12') with black hydrocarbon stain and odor		SS	24		0.6			17								
	SP			SS	24		0.7			16								
	SP		15	SS	16		0.7			27								
	CL	Sandy CLAY, black, with hydrocarbon odor, very soft, wet, occasional shell		SS	24		0			62								
	CL			ST	23		0	1.0	61	63	83	25	58	94	0.06	5	5.1	
	CH	CLAY, black, soft, wet, strong hydrocarbon odor	20	ST	22		0	0.6		89								
	CH			ST	22		0	0.6			106	27	79					
	CH		25	ST	23		0	0.5		93								
	CH			ST	22		0	0.7										
	CH			ST	26		0	0.6		93								
			30															

Bottom of borehole at 30.0 feet.