



Quaternary Resource Investigations, LLC
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BORING NUMBER 13-B120

CLIENT _____ PROJECT NAME Peggy Lake Placement Area
 PROJECT NUMBER W912HY-13-D-0001; Task Order 0002 PROJECT LOCATION La Porte, Texas
 DATE STARTED 3/25/2013 2:30:00 PM COMPLETED 3/26/2013 5:00:00 PM GROUND ELEVATION 15.3684 ft HOLE SIZE 8.25 inches
 DRILLING CONTRACTOR Quaternary Resource Investigations, LLC NORTHING 13837029.95 ft EASTING 3217724.783 ft
 DRILLING METHOD Hollow Stem Auger DRILLING RIG MAKE/MODEL Geoprobe 6610DT
 LOGGED BY Terri Russin TOTAL DEPTH 20 ft GROUND WATER LEVEL _____
 WEATHER sunny, cool, 60s - 50s, very windy AT TIME OF DRILLING -- No Water 3/25/2013 5:10:00 PM

COPY OF PEGG... E GEOTECH BH - PEGGY LAKE TEMPLATE.GDT - 10/2/13 10:39 - C:\DOCUMENTS AND SETTINGS\TRL... JKT01PEGGY 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, moist, medium plasticity, sand in cracks, with rootlets	0	ST	13		0.95										
	CH	CLAY, light brown and yellow orange, moist, medium plasticity, with sand and wood inclusions		ST	15		>4.5/0	--/3.0		48							
	CL	Sandy CLAY, light brown SAND and dark gray CLAY (mixed), clay medium to high plasticity, soft, with rootlets	5	ST	18		2.2/0	--/1.3	67	64			87	0.2	6.4	0	
	CH	CLAY, black, soft, moist, medium to high plasticity, with hydrocarbon odor		ST	21		0/0	1.1/0.9									
	CL	Silty CLAY, yellow orange, moist, medium plasticity															
	CH	CLAY, black, soft, moist, medium to high plasticity, with hydrocarbon odor		ST	22		0/0.7	0.8/--	82	40	70	25	45	91			
	CH	SILT/SAND, light brown silt/sand mix, moist, low plasticity	10	ST	20		0.5/.45			54							
	CL	CLAY, yellow orange, moist, high plasticity															
	SP	SAND, light brown, slightly moist, no plasticity		ST	21		0/0.8	0.7/--		17			6				
	CH	Silty CLAY, olive gray, slightly moist, medium plasticity															
	CH	SAND, olive gray, moist, no plasticity	15	ST	24		0.0	--/2.3		28							
	CL	CLAY, yellow orange/light brown grading to light brown/black, moist, high plasticity		ST	21		<0.25/<0.25	2.3/2.4		82							
	CH	Silty CLAY, olive gray and black, moist, medium plasticity, some sand inclusions															
	CH	CLAY, light brown and black, moist, high plasticity		ST	21		1.05/0	--/1.0		24							
	SP	SAND, light brown, moist, no plasticity	20														

Refusal at 20.0 feet.
 Bottom of borehole at 20.0 feet.