

PROJECT	TRAFFIC SIGNAL MAST ARM SUPPORT	STI JOB NO.	09398
LOCATION	U. S. ROUTE ONE AT MAINE STREET, BRUNSWICK, MAINE	PROJECT MGR.	S. SAWYER
CLIENT	MAINE DEPARTMENT OF TRANSPORTATION	FIELD REP.	K. B. STEPHENSON
CONTRACTOR	GEO LOGIC-EARTH EXPLORATION, INC., NORFOLK, MA	DATE STARTED	4/12/2010
DRILLER	C. O' DONNELL	DATE FINISHED	4/13/2010

Elevation	ft.	Datum	Boring Location	See Plan					
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME LC 60	Hammer Type	Drilling Mud	Casing Advance	
Type	HW	SS		<input type="checkbox"/> Truck <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Track <input type="checkbox"/> Skid	<input type="checkbox"/> Tripod <input type="checkbox"/> Geoprobe <input type="checkbox"/> Air Track <input type="checkbox"/>	<input type="checkbox"/> Cat-Head <input checked="" type="checkbox"/> Winch <input checked="" type="checkbox"/> Roller Bit <input type="checkbox"/> Cutting Head	<input type="checkbox"/> Safety <input type="checkbox"/> Doughnut <input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input checked="" type="checkbox"/> None	Type Method Depth HW/Driven/24.0
Inside Diameter (in.)	4.0	1.375							
Hammer Weight (lb.)	300	140							
Hammer Fall (in.)	30	30							

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength				
0	WOH	S1	0.0			SM	Loose, brown silty SAND (SM), mps = 0.4 in., roots, trace bituminous concrete, damp		5		20	60	15								
2							-FILL-														
4							-FILL-														
7	10		2.0		2.0	SW	Medium dense, brown well-graded SAND with gravel (SW), mps = 1.3 in., trace silt, damp	10	10	20	40	20									
9		S2	2.0				-FILL-														
9							-FILL-														
6							-FILL-														
3	18		4.0		4.0	SW	Medium dense, gray-brown well-graded SAND with gravel (SW), mps = 1.3 in., wet	15	10	30	30	10	5								
8		S3	4.0				-FILL-														
7							-FILL-														
5	4		6.0		6.0	SW	Loose, brown well-graded SAND with gravel (SW), mps = 1.2 in., wet	10	10	30	35	15									
8		S4	6.0				-FILL-														
6							-FILL-														
4							-FILL-														
7	10		8.0				-FILL-														
6		S5	8.0				Note: 1.3 in. gravel, trace sand, probable wash sample														
3							-FILL-														
3							-FILL-														
2	1		10.0				-FILL-														
10	1	S6	10.0			SW	Very loose, brown well-graded SAND with gravel (SW), mps = 1.2 in., wet (probably pushing gravel with spoon)	10	10	30	35	15									
1							-FILL-														
2					11.5		-FILL-														
1	3		12.0			SM	Very loose, brown silty SAND (SM), mps = 0.4 in., wet	10	10	10	50	20									
							-FILL-														
					13.0		-FILL-														
							-FILL-														
15	14	S7	14.0			SM	Medium dense, brown silty SAND with gravel (SW), mps = 0.4 in., wet	10	30	30	15	15									
9							-FILL-														
5							-FILL-														
31	10		16.0				Note: advanced roller bit through probable boulders to 18.0 ft.														
					18.0		-FILL-														
							-FILL-														
20	3	S8	19.0			CL	Stiff, olive mottled lean CLAY (CL), wet						100	N	M	M					
3							-MARINE DEPOSITS-														
4							-MARINE DEPOSITS-														
4	24		21.0				-MARINE DEPOSITS-														
							-MARINE DEPOSITS-														
							-MARINE DEPOSITS-														
25	1	S9	24.0			CL	Medium stiff, olive-gray lean CLAY (CL), wet						100	N	M	M					
1							-MARINE DEPOSITS-														
1							-MARINE DEPOSITS-														
2	24		26.0				-MARINE DEPOSITS-														
							Bottom of exploration at 26.0 ft. below ground surface No refusal														

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe FV Field Vane	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input checked="" type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Seal	Overburden (Linear ft.) _____ 26.0 Rock Cored (Linear ft.) _____ -- Number of Samples _____ 9S
			Bottom of Casing	Bottom of Hole	Water			
4/13/2010	0715	--	14.0	14.0	Dry			
4/13/2010	0910	--	--	19.5	19.0			

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Sebago Technics, Inc.