SEBAGO TECHNICS, INC.		TEST BORING REPORT												BORING NO. B1 Page 1 of 1							
PROJECT LOCATION CLIENT CONTRAC DRILLER	N	TRAFFIC SIGNAL MAST ARM SUPPORT U. S. ROUTE ONE AT MAINE STREET, BRUNSWICK, MAINE MAINE DEPARTMENT OF TRANSPORTATION GEO LOGIC-EARTH EXPLORATION, INC., NORFOLK, MA DATE STARTED C. O' DONNELL STI JOB NO. PROJECT MGR. PREJECT MGR. PIELD REP. DATE STARTED DATE FINISHED										K. 4/1	398 SAW	WYER STEPHENSON 010							
Elevation		ft.	Datum			Location	See Plan							_		_					
Item		Casing		er Core Ba	arrel Rig Mal		_	CME LC 60		lammer Type	Dril	_	Mud	_			ng Adv				
Type Inside Diam	-40= (in)	HW 4.0	SS 1.37:	_			_	☐ Cat-Head ✓ Winch		=			ntonit ymer		_	ype M Drive	lethod	i Dep	oth		
Hammer W	. ,	300	1.37					Roller Bit			☐ ☑	Nor	-	ľ	H w.	Dive	1/0.0				
Hammer Fa		30	30		Skid			Cutting Head		ling Notes:				_	_	_	_	_			
Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	(density/consistency,	al-Manual Identificat color, GROUP NAME 8 moisture, optional descr	& SYMBOL, ma	aximum particle size*,	% Coarse	avel 8 Line	1 1	% Medium		% Fines	Dilatancy Toughness	Plasticity Leading			
0 -	3 3 5	S1	0.0			SM	Loose, brown silty SA brick, damp	ND with gravel (SM), 1	mps = 1.0 in.	, roots, trace	5	5	10	30	35	15					
	- 5 4	18	2.0		2.0			-FILL-			+	+	\vdash		\dashv	\rightarrow	+	+	+		
	6	S2	2.0		} <u>-</u>	SW	Medium dense, brown	well-graded SAND wit	th gravel (SW)), mps = 1.1 in.,	10	30	40	10	5_	<u>-t-</u>	†::	· -j			
	7						damp							\Box	\Box		\perp	Ţ			
	7	2	4.0			-		-FILL-			\vdash	\vdash	\dashv	+	\dashv	+	+	+			
ŀ	4	S3	4.0		4.5	SW	Medium dense, brown well-graded SAND with grave), mps = 1.1 in.,	5	10	30	40	10	5	+	+	+		
_ 5 _	6						damp	-FILL	L-								工	丄			
_ , _	7					CL	Stiff, gray-brown mott								\Box	100	N N	4 M	i 📗		
	5	16 S4	6.0			CL	Stiff, gray-brown mott	-MARINE DEP		wet	+	\vdash	\vdash	\dashv	+	100	N N	1 M	+		
	4	34	0.0			CL	Still, gray-orown mon	-MARINE DEP		, wei	+		\vdash	\dashv	+	100	14 14	1 172	+		
	6								0222					耳	\exists	\Box	士	\perp			
	7	14	8.0				- 100 1 1 1 1 1 1 1 1 1		1	L	Ц		\dashv	- 20		1	Щ				
	5	S5	8.0			CL	Stiff, gray-brown mott	led lean CLAY (CL), v	wet		+	\vdash	\vdash	\dashv	+	100	N N	1 M	+		
	6							-MARINE DEP	OSITS-			t		コ	o	\exists	士	士			
10	7	24	10.0					177 (07)					\Box		\rightrightarrows		Ι.	I.	Д		
	- 8 - 7	S6	10.0			CL	Stiff, gray-brown mott		+	\vdash	\vdash		+	100	N N	4 M	i				
	6										+	\vdash	\vdash	\dashv	+	\rightarrow	+	+	+		
	6	24	12.0					-MARINE DEP	OSITS-						\exists		#	\downarrow			
					12.0				1	L	Ц		\dashv	\Box	4	\downarrow	\perp				
					13.0	}						۲.	}-¦	+	{-	+		+	-		
											+		\Box	\exists	\exists	\exists	\pm	\pm	+		
Ī	2	S7	14.0			CL	Medium stiff, gray-bro		Y (CL), freque	nt brown sand					5	95	N N	1 M	í		
— 15 —	2						partings, mps = 0.02 i	n., wet			1	lacksquare	Ц	\dashv	\dashv	\dashv	4	7	\perp		
	3	24	16.0						+		\vdash	\dashv	+	\rightarrow	+	+	+				
	-							-MARINE DEP	OSITS-		1_				コ	\exists	士	士	\Box		
															\exists		工	工			
					18.0						\perp	\vdash	\sqcup	\dashv	+	\rightarrow	+	+	\perp		
ŀ					18.0	}	+				+	⊢-	}-¦	+	{-	+		+	╌┝╌		
													\exists	\exists	士	士	\pm				
	3	S8	19.0			SM	Medium dense, gray-brown silty SAND (SM), frequ			v varves, mps =				5	70	25		Ţ			
_ 20 _	9				20.1		0.1 in., wet	-MARINE DEP	CEITE		+	-	\sqcup		\dashv	\rightarrow	+	+	+		
	20/.2	20	20.7		20.1	SM	Medium dense, brown								40	15	+	+	+		
							spoon), wet	-GLACIAL TILL DI		aver m			20	25			土	丄			
					22.5			o probable weathered b					П		_		\Box	Ţ	T		
					22.5	 	-	Probable WEATHERE	ED BEDRUCK		+	 	\vdash	\dashv	+	\dashv	+	+	+		
							Roller bit refusal at 22	.5 ft.				l			\exists		士	士			
							Bottom of exploration		nd surface						\Box			Ţ			
											+	\vdash	\vdash	\dashv	+		+	+	\perp		
25											+	-	\vdash	\dashv	+	\rightarrow	+	+	+		
															\Box		\perp				
											_	H	\Box	\dashv	\dashv	\dashv	\dashv	7	\bot		
											+	\vdash	\vdash	\dashv	+	-	+	+	+		
															_		\pm	1			
															\Box			\perp			
													\vdash		-	-	-	+	+		
20															\dashv		+	+	+		
30												L	Ш		\Box		丄	丄			
		Water Lo	evel Data	epth in feet	to:		Sample ID	Well Diag	-			Sı	umm	ary							
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	0 T	Open End Rod Thin Wall Tube Riser Pipe Screen Filter Sand			Overburden (Linear ft.) Rock Cored (Linear ft.)					20.7						
4/12/2010	1120		-	22.5	2.0	U S	Undisturbed Sample	Crout	S	Number of Sample	S					8S			_		
4/13/2010 4/13/2010		-	6.0	22.0	2.0	G	Split Spoon Sample Geoprobe	☐ Grout ☐ Concrete	te	BORING NO.									_		
						FV	Field Vane	Bentonit	te Seal						В1						
Field	Tests	Dilatancy: Toughness			w N - None ım H - High		Plasticity:	N - Nonplas N - None L - Low		M - Medium H			•								
		rougnness					ermined by direct ob				very	пıgı			—		—	—			
							nanual methods of th			•	, Inc.										

SEBAGO TECHNIO		TEST BORING REPORT													BORING NO. $\bf B2$							
PROJECT LOCATION CLIENT CONTRAC DRILLER		TRAFFIC SIGNAL MAST ARM SUPPORT U. S. ROUTE ONE AT MAINE STREET, BRUNSWICK, MAINE MAINE DEPARTMENT OF TRANSPORTATION GEO LOGIC-EARTH EXPLORATION, INC., NORFOLK, MA DATE STARTED C. O' DONNELL STI JOB NO. PROJECT MGR. FIELD REP. DATE STARTED DATE FINISHED										98 AW	WYER STEPHENSON 010									
Elevation			Datum			Location	See Plan									_		Ì				
Item		Casing		er Core Ba	arrel Rig Ma			CME LC 60 Cat-Head	Hammer Type	Dril	ling l		1		ing A			٦				
Type Inside Diam	eter (in.)	HW 4.0	SS 1.37:	5	☐ Tru		Safety [Doughnut [Ben	tonite mer		Type W/Driv			Depth	4						
Hammer Weight (lb.)		300 140			☑ Tra	_			Non		L											
Hammer Fa	immer Fall (in.)		30		Ski	d [Roller Bit Cutting Head	Drilling Notes:			_						Ì				
Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	(density/consistency,	al-Manual Identification & I color, GROUP NAME & SYMB moisture, optional descriptions,	OL, maximum particle size*,	% Coarse	wel %		and Wedium %	% Fines	Dilatancy	SS	Plasticity Strength					
– 0 –	6	S1	0.5		0.5			-BITUMINOUS CONCRE	TE-				-	-	\vdash		\vdash	-				
	18					SW	Medium dense, gray-bi	own to brown well-graded SA		15	10	20	20 3	5	\Box	П	\top	٦				
	12	12	1.5				(SW), mps = 1.3 in.,			\perp			_		\Box	\blacksquare	\perp					
	13	S2	2.0		2.5	SW	Medium dense, similar	-FILL- to S1 to 2.5 ftFILL-		15	10	20	20 3	5	_	\vdash	+	4				
	14	02	2.0		2.5 SW			well-graded SAND (SW), mp	s = 0.75 in., trace	1			30 1		\top	T	\top	٦				
	16						silt, damp									П						
	21	19 S3	4.0			SW	Madiana danaa haasaa	-MARINE DEPOSITS-		+	_	50	20 1	_	\perp	\vdash	+	4				
-	14 11	53	4.0			SW	silt, damp	well-graded SAND (SW), mp	s = 0.75 m., trace		5	50	30 1	-	+	\leftarrow	-	-				
_ 5 _	11				5.8		, _F	-MARINE DEPOSITS-		+			_			\neg	_	-				
	9	12	6.0		5.8 6.0	ML		vn mottled SILT with sand (M		I ::				0 80		L	L	1				
	7	S4	6.0			CL		ed lean CLAY (CL), frequent	sand partings, mps	\Box			T	95	N	M	M	_				
-	6						= 0.02 in., damp			+			-		+	\vdash	+	4				
	6	15	8.0												+		+	-				
							-MARINE DEPOSITS-															
																П						
-	5	S5	9.0			CL	Stiff, gray-brown mottl	ed lean CLAY (CL), wet		+		_	-	100	N	M	M	4				
10	6							-MARINE DEPOSITS-		+			+		_	\vdash	+	-				
	7	24	11.0																			
	6	S6	11.0			CL	Stiff, olive-gray mottle						100	N	M	M						
-	6														-	H	\dashv	_				
	5	24	13.0					-MARINE DEPOSITS-		+			-		+	\dashv	+	-				
			15.0													\dashv	7					
														100	N	M	M					
	1	S7	14.0			CL	Medium stiff, olive lea	n CLAY (CL), wet		-			_		\perp	\vdash	+	4				
— 15 —	2														-		+	4				
	3	24	16.0							+					1	\dashv	_	-				
								-MARINE DEPOSITS-														
															\blacksquare	\Box	\perp					
					18.0										+	\vdash	+	4				
					18.0	} - 				+	┝╌	- —¦-	·-+·		1-1	/• †		-				
																d						
	WOR	S8	19.0			CL	Soft, gray lean CLAY						100	N	M	M						
_ 20 _	WOR WOR								+			-		+	\vdash	+	4					
-	2	24	21.0					•	+			+		+	\vdash	+	۲					
•																	\neg	٦				
																П						
										+			_			\vdash	-	4				
-															-		-	4				
																\Box	\neg	٦				
	WOH	0.01 in.						(CL), wet, occasional sand pa	rtings, mps =					100	N	M	M					
_ 25 _	WOH														H	\perp	_					
	WOH	24	26.0					-MARINE DEPOSITS-		+			_		-		-	_				
•			20.0				 			†-	-		-+		1-t	广十		-				
								at 26.0 ft. below ground surface	ce									Į				
-							No refusal			-						\vdash	\perp	4				
-										+			-		-	\vdash	+	4				
-																	\dashv	٦				
30										-						\vdash	\perp	4				
		Water Le	evel Data				Sample ID	Well Diagram			Su	ımma	arv		ш	_	<u> </u>	٦				
		114101 21		epth in feet	to:		Campio iz	Riser Pipe					,					7				
Date	Time	Elapsed	Bottom of	Bottom of		0	Open End Rod	Screen	Overburden (Linear		_			26.0)							
Date	1	Time (hr.)	Casing	Hole	Water	Т	Thin Wall Tube	Filter Sand	Rock Cored (Linear		-											
4/12/2010	1430		24.0	26.0	4.0	U S	Undisturbed Sample Split Spoon Sample	Cuttings Grout	Number of Samples	6	-			9S		—	_					
4/12/2010				14.0	2.0	Ğ	Geoprobe	△▼ Concrete	BORING NO.				_					٦				
						FV	Field Vane	Bentonite Seal						32								
Field	Tests	Dilatancy:			w N - None		Plasticity:	N - Nonplastic L N - None L - Low M - N	- Low M - Medium H -													
		Toughness			m H - High			servation within the limita		ery i	nigri							4				
								e USCS system as practic		Inc.						_		٦				

SEBAGO TECHNICS, INC.		TEST BORING REPORT													BORING NO. B3 Page 1 of 1						
PROJECT LOCATION CLIENT CONTRAC DRILLER	1	TRAFFIC SIGNAL MAST ARM SUPPORT U. S. ROUTE ONE AT MAINE STREET, BRUNSWICK, MAINE MAINE DEPARTMENT OF TRANSPORTATION GEO LOGIC-EARTH EXPLORATION, INC., NORFOLK, MA C. O' DONNELL STI JOB NO. PROJECT MGR. FIELD REP. DATE STARTED DATE FINISHED										K. I	98 AW 3. ST 2/201	WYER STEPHENSON 010							
Elevation		ft. Datum Boring Location See Plan																_			
Item		Casing		er Core Ba	arrel Rig Mal			CME LC 60		Hammer Type	ling		_			ng Adv					
Type Inside Diameter (in.)		HW SS 4.0 1.375			Truck Tripod Cat-Head					Safety [Doughnut [\exists	Ben Poly	tonite			•	lethod n/24.0	_	th		
Hammer Weight (lb.)		300 140			☐ ATV ☐ Geoprobe ☑ Winch ☑ Track ☐ Air Track ☑ Roller Bit						→	Non		ľ	1 W/L	Jrivei	1/24.0				
Hammer Fa	• ,	30 30			Skid		i			lling Notes:				_	_	_	_	_			
Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	(density/consistency	color, GROUP N	tification & Description & SYMBOL, mil descriptions, geological	aximum particle size*,	% Coarse	% Fine		Medium %	% Fine	% Fines	Dilatancy Toughness aid	Plasticity Dis			
0	WOH 2	S1	0.0			SM	Loose, brown silty SA concrete, damp			ce bituminous		5		20	60	15	+	Ŧ			
	7	10	2.0		2.0		-FILL-				+	Н	\dashv	\dashv	+	+	+	+	+		
ľ	9	S2	2.0		} <u>-</u>	SW	Medium dense, brown well-graded SAND with grave), mps = 1.3 in.,	10	20	40	20	-1	<u>-t-</u>	†:-	· -]			
	9						trace silt, damp							\Box	\Box	\Box	工	丰			
	3	18	4.0		4.0		-FILL-				+	Н	\dashv	+	+	+	+	+	+		
•	8	S3	4.0			SW	Medium dense, gray-b	rown well-graded	d SAND with grave	l (SW), mps =	15	10	30	30	10	5		+	: ⊢†		
_ 5 _	7						1.3 in., wet		-	. (0),				Ì	Ì	Ì	士	\pm	\Box		
_ , _	5							-I	FILL-		\perp			\exists	\exists	\Box	4	∓	\Box		
•	7 8	4 \$4	6.0		6.0	SW	Loose, brown well-gra	dad SAND with	gravel (SW) mns =	- 1 2 in wet	∔	10	30	35	15	-		4	-		
	6	54	0.0			511	Loose, brown wen and	den sum mim	graver (3 m), mpo	= 1.2 III., wet	10	10	20	35	15	+	+	+	+		
10	4							-I	FILL-					\exists	\blacksquare	\Box	ユ	I			
	7	10	8.0				in the control of	1 annhah	T. Samuela		1			\dashv	4	\dashv	\dashv	\downarrow	$\downarrow \downarrow$		
	3	S5	8.0				Note: 1.3 in. gravel, to	ace sand, probac	ole wash sampte	+	\vdash	\exists	+	+	+	+	+	+			
	3							-I	FILL-		+			+	+	+	+	+	+		
10	2	1	10.0								Ţ			\rightrightarrows	\exists	\Box	工	I	\square		
	1	S6	10.0			SW	Very loose, brown wel	-		nps = 1.2 in.,	10	10	30	35	15	\dashv	+	+	+		
	2				11.5		wet (probably pushing		on) FILL-			\vdash	\dashv	+	+	+	+	+	+		
	1	3	12.0		·	SM	Very loose, brown silt				†::	10	10	10	50	20	_[-	1	-		
									FILL-					\Box		\Box	1	1			
-					13.0	ļ.—	F				4	Ļ۰¦		+	.	+	<u>-</u> -	4	-		
											+	\vdash	\dashv	+	+	+	+	+	+		
	14	S7	14.0			SM	Medium dense, brown	silty SAND with	n gravel (SW), mps	= 0.4 in., wet	†_	10	30	30	15	15	t	+	\top		
15	9													\exists	\exists	\Box	\perp	\mp			
	5	10	16.0					-I	FILL-		1	Ш	_	\dashv	4	\dashv	\perp	4	Ш		
	31	10	16.0								+	\vdash	\dashv	+	+	+	+	+	+		
							Note: advanced roller	ote: advanced roller bit through probable boulders to 18.0					\exists	\dashv	+	+	+	+	+		
									FILL-					\Box	ユ	\Box	\perp	I			
-					18.0						┺	Ц		4	ユ	4	4	丰	L		
-											\vdash	\dashv	+	+	\dashv	+	+	+			
ŀ	3	S8	19.0			CL	Stiff, olive mottled lea	n CLAY (CL), w	vet						-	100	N M	и м	[
20	3						our, onve monted real CLAT (CL), wet							\perp	\perp		土	土			
	4	74	21.0					-MARINE	E DEPOSITS-		lacksquare	Щ		\dashv	4	\dashv	4	1	\square		
	4	24	21.0						+	\vdash	\exists	+	+	+	+	+	+				
									+			+	+	+	+	+	+				
								_						\Box	ユ	\Box	\perp	I			
											1	Ш		\dashv	4	\dashv	\dashv	1	\square		
											+	\vdash	\exists	\dashv	+	+	+	+	+		
ľ	1	S9	24.0			CL	Medium stifft, olive-gr	ay lean CLAY (0	CL), wet					\exists	1	100	N M	и м	1		
_ 25 _	1														\Box		1	I			
_ <u>-</u>	2	24	26.0					-MARINE	E DEPOSITS-		-	Ш		\dashv	+	\dashv	+	+	\perp		
•	- 4	24	20.0				 				+-	-1	¦	-+		-+	-+	+-	·⊢÷		
							Bottom of exploration	at 26.0 ft. below	ground surface					\exists	\top	\exists	\pm	\perp			
							No refusal				1			\dashv	\Box	\Box	4	1			
-											+	Н	\exists	\dashv	+	\dashv	+	+	\perp		
ŀ											+			+	+	\dashv	+	+	+		
														\Box	\blacksquare	\Box					
_ 30 _											-	Ш		\dashv	+	\dashv	+	+	\perp		
1		Water Le	evel Data				Sample ID	We	ell Diagram	I		Su	ımm	ary		_		—	Щ		
		1		epth in feet	to:		oump.c .2		iser Pipe	 				a.,							
Date	Time	Elapsed	Bottom of	Bottom of		0	Open End Rod		creen	Overburden (Linear						26.0			_		
		Time (hr.)	Casing	Hole	Water	T U	Thin Wall Tube Undisturbed Sample		Iter Sand uttings	Rock Cored (Linear Number of Samples						 9S		—	-		
4/13/2010	0715		14.0	14.0	Dry	S	Split Spoon Sample		rout	Number of Gampio.	5				_	93		_	-		
4/13/2010			-	19.5	19.0	G	Geoprobe	△▼ Co	oncrete	BORING NO.					В3						
Sield		D:1-4000#	D Do	.1 C Clos	N. None		Field Vane		entonite Seal	M Madium H	' liak										
Field		Dilatancy: Toughness			w N - None m H - High		Plasticity: Dry Strength:			w M - Medium H · ım H - High V - \											
							ermined by direct of							_	_	_		_	\equiv		
			NOTE: So	il identificati	ons based or	n visual-n	nanual methods of th	ne USCS system	m as practiced by	/ Sebago Technics,	Inc.										