APPENDIX A

TEST BORING LOGS, ROCK PHOTOGRAPHS, AND TEST PROBE DATA



BINGHAM, MAINE

TYPE

HW

SS

NQ2

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

CORE BARREL:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T1
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	10/29/2013
DATE FINISH:	10/30/2013
ELEVATION:	1526' ±
SWC REP .:	PJO
WATER LEVEL INFOR	MATION
WATER AT 8.7' ON 10	/30/2013

WATER AT 14' ON 11/4/2013

040010										
BLOWS		SAN	MPLE	ПЕРТН	SAM	PLER BI	LOWS F	PER 6"	DEPTH	STRATA & TEST DATA
FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24		
HW										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE WITH SOME
										CALCITE BANDS, MODERATELY HARD, SLIGHTLY WEATHERED, IRON OXIDE
										STAINING ON FRACTORE SURFACES, LOW ANGLE FRACTORES. 10-20 DEGREES
	R1	4.4'	4.2'	4.9'						RQD = 85% GOOD
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 30-40, 60 DEGREES
•										
	R2	5.2'	5.2'	10.1'					1	RQD = 79% GOOD
										LOW ANGLE TO HIGH ANGLE FRACTURES: 20-30, 80 DEGREES
	D 2	0.7	0.7	40.01					-	
	R3	3.7	3.7	13.8						RQD = 55% FAIR
									1	
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 40, 80-85 DEGREES
									-	
	R4 P5	5.1'	5.1'	18.9'					-	RQD = 55% FAIR BECOMING MODERATELY WEATHERED
	NJ	1.1	1.1	20.0					1	
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 40, 65-70 DEGREES
	De	5.0'	5 O'	25.01						
	NU	5.0	5.0	25.0					1	
									-	
										BECOMING SLIGHTLY TO MODERATELY WEATHERED
		1.01	4.01	00.01					-	
	R7	4.9	4.9	29.9					1	RQD = 77% GOOD
										HIGH ANGLE FRACTURES: 70-80 DEGREES
									-	
	R8	4.8'	4.8'	34.7'					1	RQD = 63% FAIR
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 50-60. 75-80 DEGREES
	R9	3.8'	3.8'	38.5'					-	RQD = 84% GOOD
									40.0'	
SAMPL	ES:			SOIL C	LASSI	FIED BY	<i>(</i> :		REMAR	KS:
					יסס					WATER INTRODUCED DURING DRILLING
ט = 5Pl C = 3" ?	HELBY	/ TUBF		X	SOI	LLER - L TECH	VISI	_∟ ĭ JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5	SHEL	BY TUB	E		LAB	ORATO	ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T1



BINGHAM, MAINE

TYPE

HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T1
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	10/29/2013
DATE FINISH:	10/30/2013
ELEVATION:	1526' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 8.7' ON 10/30/2013 WATER AT 14' ON 11/4/2013

CORE BARREL: NQ2

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS		SAM	IPLE		SAMPLER BLOWS PER 6"					
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE
	R10	4.5'	4.5'	43.0'						RQD = 100% EXCELLENT
										SLIGHTLY WEATHERED
	R11	4.7'	4.7'	47.7'						RQD = 98% EXCELLENT
										LOW ANGLE TO HIGH ANGLE FRACTURES: 20-40, 80 DEGREES
	R12	4.8'	4.8'	52.5'						RQD = 88% GOOD
										LOW ANGLE TO MODERATELY DIPPING FRACTURES: 20-40, 80 DEGREES
	R13	3.5'	3.5'	56.0'					56.0'	RQD = 86% GOOD
										BOTTOM OF EXPLORATION AT 56.0'
SAMPLI	ES:			SOIL C	LASSI	-IED B\	(:		REMAR	KS: WATER INTRODUCED DURING DRILLING
D = SPL				V	DRI					STRATIFICATION LINES REPRESENT THE
C = 3" SHELBY TUBE X U = 3.5" SHELBY TUBE				LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T1	



B-T1, R1 TO R6 (0.5'-21.1')



B-T1, R6 TO R9 (21.1'-38.5')





B-T1, R10 TO R13 (38.5'-56.0)





BINGHAM, MAINE

BLUE SKY WEST WIND POWER PROJECT

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION:

DRILLING FIRM:

U = 3.5" SHELBY TUBE

LABORATORY TEST

CLIENT :

BORING LOG

MIKE NADEAU

DRILLER:

BORING NO .:	B-T2
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	10/29/2013
DATE FINISH:	10/29/2013
ELEVATION:	1495' ±
SWC REP.:	PJO
	MATION

			T١	/PE	SIZE	I.D.	HAMM	ER WT	. HAMMEF	R FALL SWC REP.: PJO
CASING: SAMPLER:		SSA	/ HW	4	1"	140	LBS.	30'	WATER LEVEL INFORMATION	
			5	SS	13	3/8"	140 LBS.		30'	" WATER AT 13' ON 10/29/2013
CORE B	ARREI		N	Q2	2	2"				WATER AT 11.5' ON 11/4/2013
CASING BLOWS		SAN	SAMPLE SAMPLER BLOWS PER 6"		DEPTH	STRATA & TEST DATA				
PER FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24		
HW				0.000						MOSS / SURFACE BOULDERS (CAP ROCK)
1									2.0'	DARK BROWN SANDY SILT
										BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL) ~DENSE~
	1D	24"	20"	7.0'	12	15	17	19		
									7.3	
•										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE
										SLIGHT TO MODERATELY WEATHERED, BECOMING
										MODERATELY HARD TO HARD
	R1	3.4'	3.4'	11.9'					F	ROD = 61% FAIR
		0	0							
										LOW ANGLE TO MODERATELY DIPPING FRACTURES: 20-30, 50 DEGREES
	DO	0.7	0.7	45.01						
	R2	3.7	3.7	15.6					-	QD = 97% EXCELLENT
									-	
									-	A FEW NEARLY VERTICAL FRACTORES. 65 DEGREES
									-	
	D2	5.0'	5 O'	20.6'						
	кэ	5.0	5.0	20.6						QD = 54% FAIR
									-	
									-	
									-	MODERATEET DIFFING TO HIGH ANGLE TRACTORES. 40-70 DEGREES
	D/	5.2'	5 2'	25.8'						
	114	0.2	5.2	23.0					1	
										LOW ANGLE TO HIGH ANGLE FRACTURES: 30, 60-85 DEGREES
									=	
	R5	5.0'	5.0'	30.8'					F	RQD = 50% POOR / FAIR
									=	LOW ANGLE TO MODERATELY DIPPING FRACTURES: 20-40 DEGREES
	R6	5.0'	5.0'	35.8'					I F	RQD = 84% GOOD
	-									
										LOW ANGLE TO HIGH ANGLE FRACTURES: 20-40, 70 DEGREES
									1	
									40.0'	
0.0.0	-0	L	1	00" -			,	1		
SAMPLE	:5:			SOILC	LASSI	-IED BJ	r:		REMARK	
יםפ – ח					ייסח		//ופו ואי	IV		
ט = טרב ה = ז" פ	HEIRV			Y	SOI		- \/IQI		~	
					501	01			· · ·	

AND THE TRANSITION MAY BE GRADUAL.

BORING NO .:

B-T2



BORING LOG

BORING NO .:	B-T2
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	10/29/2013
DATE FINISH:	10/29/2013
ELEVATION:	1495' ±
SWC REP .:	PJO
WATER LEVEL INFOR	MATION
WATER AT 13' ON 10/	29/2013

	10	10/23/2013	

WATER AT 11.5' ON 11/4/2013

PROJECT:	BLUE SKY WEST WIND POWER PROJECT										
CLIENT :	REED & REED	REED & REED, INC.									
LOCATION:	BINGHAM, MA	INGHAM, MAINE									
DRILLING FIRM:	NORTHERN T	ORTHERN TEST BORINGS, INC. DRILLER: MIKE NADEAU									
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL							
CASING:	SSA / HW	4"	140 LBS.	30"							
SAMPLER:	SS	1 3/8"	140 LBS.	30"							
CORE BARREL:	NQ2	2"									

CASING BLOWS PER		SAN	1PLE	DEPTH	SAMF	PLER BI	_OWS P	'ER 6"	DEPTH	STRATA & TEST DATA
FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24		
	R7	5.0'	5.0'	40.8'					-	RQD = 82% GOOD INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE SLIGHTLY WEATHERED, MODERATELY HARD
									-	NO IRON OXIDE STAINING ON FRACTURE SURFACES LOW ANGLE TO HIGH ANGLE FRACTURES: 20-40, 70 DEGREES
	R8	5.0'	5.0'	45.8'					-	RQD = 62% FAIR
									-	LOW ANGLE TO HIGH ANGLE FRACTURES: 5-15, 60-80 DEGREES
	R9	5.2'	5.2'	51.0'					-	RQD = 88% GOOD
									-	MODERATELY DIPPING FRACTURES: 40-50 DEGREES
	R10	5.0'	5.0'	56.0'					56.0'	RQD = 91% GOOD
										BOTTOM OF EXPLORATION AT 56.0'
									•	
									- - -	
									-	
									-	
SAMPLI	ES:			SOIL C	LASSIF	FIED BY	/:	1	REMAR	KS:
D = SPL C = 3" S U = 3.5"	IT SPC HELBY SHELE	ON TUBE BY TUB	E	X	DRII SOII LAB	LLER - L TECH ORATC	VISUAL I VISU DRY TE:	.LY JALLY ST		WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T2



B-T2, R1 TO R4 (8.5'-25.8')



B-T2, R5 TO R8 (25.8'-45.8')





B-T2, R9 TO R10 (45.8'-56.0')





BINGHAM, MAINE

TYPE

SSA/HW/NW

SS

NQ2

BLUE SKY WEST WIND POWER PROJECT

4" / 3"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T3
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	10/28/2013
DATE FINISH:	10/29/2013
ELEVATION:	1440' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 8.3' 10/29/2013

WATER AT 13' 11/4/2013

CASING					SAM	PLER BI	_OWS P	'ER 6"		
PER	NO.	PEN.	REC.	DEPTH @ POT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
HW				@ DUT					1.0'	FOREST DUFF / DARK BROWN SANDY SILT WITH ROOTLETS
1	1D	24"	12"	2.0'	1	5	3	8		BROWN SAND AND SILT
•									3.1'	WITH ROOTLETS AND BEDROCK FRAGMENTS ~LOOSE~
NW										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 3.8'
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE BECOMING
										MODERATELY WEATHERED, MODERATELY HARD BECOMING
										IRON OXIDE STAINING ON MOST FRACTURE SURFACES
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 40-70 DEGREES
	R1	4.7	4.7	8.5						
	D2	2 0'	2.6'	11.0'						LOW ANGLE TO HIGH ANGLE FRACTURES: 30, 70-80 DEGREES
•	R2 R3	2.0	2.0	11.0						ROD = 50% POOR / FAIR
	N3	0.0	0.0	11.0						
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 50, 70-80 DEGREES
									1	
	R4	5.2'	4.5'	16.8'						RQD = 86% GOOD
										SLIGHTLY WEATHERED, MODERATELY HARD TO HARD
	R5	4.8'	4.8'	21.6'						RQD = 96% EXCELLENT
										GRAY PELITIC SCHIST
	R6	5.0'	5.0'	26.6'						RQD = 84% GOOD
										MODERATELY TO SLIGHTLY WEATHERED, MODERATELY HARD
										IRON OXIDE STAINING ON MOST FRACTURE SURFACES
										HIGH ANGLE FRACTURES: 60-80 DEGREES
	R7	5.0'	5.0'	31.6'						RQD = 88% GOOD
										HIGH ANGLE FRACTURES: 60-75 DEGREES
	R8	5 2'	5 2'	36.8'						
	110	0.2	0.2	00.0						HIGH ANGLE FRACTURES: 60-75 DEGREES
									40.0'	
	=Q·			SOIL C			/·			
	_0.				27001	ום סבו				WATER INTRODUCED DURING DRILLING
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE		Х	SOI	L TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE				LAB	ORATC	ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T3	



BINGHAM, MAINE

TYPE

SSA/HW/NW

SS

NQ2

BLUE SKY WEST WIND POWER PROJECT

4" / 3"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T3							
SHEET:	2 OF 2							
PROJECT NO .:	10-0014.3							
DATE START:	10/28/2013							
DATE FINISH:	10/29/2013							
ELEVATION:	1440' ±							
SWC REP.:	PJO							

WATER LEVEL INFORMATION

WATER AT 8.3' 10/29/2013	

WATER AT 13' 11/4/2013

CASING	ING SAMPLE		SAMPLER BLOWS PER 6"								
PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA	
	R9	4.7'	4.7'	41.5'						GRAY PELITIC SCHIST BECOMING RQD = 31% POOR SLIGHTLY WEATHERED, PITTING ON CORE SURFACE LOW ANGLE TO VERTICAL FRACTURES: 20-35, 65, 90 DEGREES DEGREES	
	R10 R11 R12	5.0'	5.0'	46.5' 51.5' 55.5'					55.5'	RQD = 84% GOOD INTERBEDDED PELITIC SCHIST AND METASANDSTONE MODERATELY HARD MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 50-70 DEGREES CALCITE BANDS LESS THAN 1/2" THICK RQD = 66% FAIR PITTING ON CORE SURFACE IRON OXIDE STAINING ON FRACTURES AND CORE SURFACE MODERATELY DIPPING FRACTURES: 35-50 DEGREES RQD = 62% FAIR	
									55.5'	BOTTOM OF EXPLORATION AT 55.5'	
SAMPLES: SOIL CLASSIFIED BY: I D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE X SOIL TECH VISUALLY U = 3.5" SHELBY TUBE LABORATORY TEST					FIED BY LLER - L TECH ORATC	/: VISUAL I VISU DRY TES	.LY JALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.:: B-T3		



B-T3, R1 TO R5 (3.5'-21.6')

10-0014.3 Read & Read Bingham, ME B-T3 RI (35- 8.2') R=4.7' R2 (8.2 - 11.) R= 2.6' 3.5 - (RI) -10/28/13 - RZ HER MIS' RA 8.2 R3 (11- 11.6) R=.6' R.4 (11.6-16.8) R= 5.2' cont. (2) 168 - RS R5 (16.8-21.6') R=4.8'

B-T3, R6 TO R9 (21.6'-41.5')





B-T3, R10 TO R12 (41.5'-55.5')





BINGHAM, MAINE

TYPE

HW

SS

NQ2

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

CORE BARREL:

U = 3.5" SHELBY TUBE

LABORATORY TEST

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T4							
SHEET:	1 OF 2							
PROJECT NO .:	10-0014.3							
DATE START:	10/28/2013							
DATE FINISH:	10/28/2013							
ELEVATION:	1468' ±							
SWC REP .:	PJO							
WATER LEVEL INFORMATION								

WATER AT 13.9' ON 10/28/2013

WAI	ER AI	31.3	ON	11/4/20	13

BORING NO .:

B-T4

CASING BLOWS		SAN	IPLE		SAMPLER BLOWS PER 6"					STRATA & TEST DATA
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									0.2	MOSS
									-	INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE VERY SLIGHTLY WEATHERED, MODERATELY HARD
	R1	4.5'	4.5'	5.3'					-	RQD = 93% EXCELLENT
									-	A FEW HIGH ANGLE TO VERTICAL FRACTURES: 70-90 DEGREES
	R2	5.0'	5.0'	10.3'					-	RQD = 90% EXCELLENT / GOOD
	R3	2.8'	2.8'	13.1'					-	RQD = 100% EXCELLENT
	R4	3.9'	3.8'	17.0'					-	MODERATELY DIPPING TO NEARLY VERTICAL FRACTURES: 35-50, 80-85 DEGREES RQD = 58% FAIR
									-	SLIGHT IRON OXIDE STAINING ON FRACTURES
	R5	5.0'	5.0'	22.0'					-	RQD = 80% GOOD
									-	MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 40-60, 80 DEGREES
	R6	4.8'	4.8'	26.8'					-	RQD = 98% EXCELLENT
									-	LOW ANGLE TO HIGH ANGLE FRACTURES: 20, 60-70 DEGREES HIGHLY FRACTURED 30.5' TO 30.9'
	R7	5.2'	5.2'	32.0'					-	RQD = 88% GOOD
	R8	4.3'	4.3'	36.3'					•	RQD = 97% EXCELLENT
										A FEW LOW ANGLE TO MODERATELY DIPPING FRACTURES: 25-30, 55 DEGREES
	R9	3.7'	3.7'	40.0'					40.0'	RQD = 97% EXCELLENT
SAMPLES: SOIL CLASSIFIED BY: D = SPLIT SPOON DRILLER - VISUALLY						LLER -	(: VISUAL	.LY	REMAR	RKS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE ())
C = 3" S	HELBY	' TUBE		X SOIL TECH VISUALLY						APPROXIMATE BOUNDARY BETWEEN SOIL TYPES

AND THE TRANSITION MAY BE GRADUAL.



BORING LOG

BORING NO .:	B-T4							
SHEET:	2 OF 2							
PROJECT NO .:	10-0014.3							
DATE START:	10/28/2013							
DATE FINISH:	10/28/2013							
ELEVATION:	1468' ±							
SWC REP .:	PJO							
WATER LEVEL INFORMATION								

WATER AT 13.9' ON 10/28/2013

WATER	AT 31	3' ON	11/4/201	13

BLUE SKY WEST WIND POWER PROJECT											
REED & REED, INC.											
BINGHAM, MA	BINGHAM, MAINE										
NORTHERN T	EST BORING	S, INC.	DRILLER:	MIKE NADEAU							
TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL		_						
HW	4"	140 LBS.	30"								
SS	1 3/8"	140 LBS.	30"								
NQ2	2"										
	BLUE SKY WE REED & REED BINGHAM, MA NORTHERN T TYPE HW SS NQ2	BLUE SKY WEST WIND PC REED & REED, INC. BINGHAM, MAINE NORTHERN TEST BORING TYPE SIZE I.D. HW 4" SS 1 3/8" NQ2 2"	BLUE SKY WEST WIND POWER PROJECT REED & REED, INC. BINGHAM, MAINE NORTHERN TEST BORINGS, INC. TYPE SIZE I.D. HAMMER WT. HW 4" 140 LBS. SS 1 3/8" 140 LBS. NQ2 2"	BLUE SKY WEST WIND POWER PROJECT REED & REED, INC. BINGHAM, MAINE NORTHERN TEST BORINGS, INC. DRILLER: TYPE SIZE I.D. HAMMER WT. HAMMER FALL HW 4" 140 LBS. 30" SS 1 3/8" 140 LBS. 30"	BLUE SKY WEST WIND POWER PROJECT REED & REED, INC. BINGHAM, MAINE NORTHERN TEST BORINGS, INC. DRILLER: MIKE NADEAU TYPE SIZE I.D. HAMMER WT. HAMMER FALL HW 4" 140 LBS. 30" SS 1 3/8" 140 LBS. 30" NQ2 2"						

CASING BLOWS		SAN	IPLE		SAMPLER BLOWS PER 6"					STRATA & TEST DATA	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA	
	R10	4.5'	4.5'	44.5'						INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE VERY SLIGHTLY WEATHERED, MODERATELY HARD A FEW HIGH ANGLE FRACTURES: 70-80 DEGREES RQD = 94% FXCELLENT	
										IRON OXIDE STAINING ON FRACTURES	
	R11	5.1'	5.1'	49.6'						RQD = 100% EXCELLENT	
	R12 R13	4.0'	4.0'	53.6' 55.1'					55.1'	RQD = 83% GOOD MODERATELY DIPPING FRACTURES: 35, 50-55 DEGREES RQD = 76% GOOD	
										BOTTOM OF EXPLORATION AT 55.1'	
SAMPLES: SOIL CLASSIFIED BY: D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE X U = 3.5" SHELBY TUBE LABORATORY TEST					FIED BY LLER - T L TECH ORATO	/: VISUAL I VISU DRY TE:	LY JALLY ST	REMAR	Image: Constraint of the state of the s		



B-T4, R1 TO R4 (0.8'-17.0')



B-T4, R5 TO R8 (17.0'-36.3')





B-T4, R9 TO R13 (36.3'-55.1')





BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ2

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION:

DRILLING FIRM:

CORE BARREL:

CLIENT :

CASING:

SAMPLER:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

 BORING NO.:
 B-T6

 SHEET:
 1 OF 2

 PROJECT NO.:
 10-0014.3

 DATE START:
 10/30/2013

 DATE FINISH:
 10/30/2013

 ELEVATION:
 1469' ±

 SWC REP.:
 PJO

WATER LEVEL INFORMATION

WATER AT 12.1' ON 10/30; WATER AT 13' ON 11/1

WATER AT 13.2' ON 11/4/2013

CAS	ASING SAMPLE SAMPLER I		PLER BI	LOWS F	OWS PER 6"						
PE FO	R OT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	SIRATA & TEST DATA
HV	V										FOREST DUFF / DARK BROWN SANDY SILT
		1D	24"	20"	2.0'	2	2	3	10	1.5	WITH ROOTLETS ~LOOSE~
						-					
						-				-	BROWN SILT AND SAND, SOME GRAVEL
		0.0	0"	0"	5 5	45	05/01				WITH WEATHERED BEDROCK FRAGMENTS ~MEDIUM DENSE~
•		2D	6	6	5.5	15	25/0"			5.5	
										-	HIGHLY FRACTURED
										-	HIGH ANGLE FRACTURES: 70-80 DEGREES
		R1	5.0'	3.4'	10.5'					1	RQD = 9% VERY POOR
				-							IRON OXIDE STAINING ON FRACTURES, PITTING ON CORE SURFACE
										-	HIGH ANGLE TO VERTICAL FRACTURES: 70-90 DEGREES
		R2	4.0'	3.7'	14.5'						RQD = 10% VERY POOR
										_	HIGH ANGLE FRACTURES: 65-80 DEGREES
										-	
		R3	5.0'	5.0'	19.5'					-	RQD = 44% POOR
										-	SLIGHTLY TO MODERATELY WEATHERED, MODERATELY HARD
										-	LOW ANGLE TO HIGH ANGLE FRACTORES. 20-30, 70 DEGREES
		R4	5.0'	5 2'	24.5'					-	
		114	0.0	0.2	24.0					1	
										-	MODERATELY DIPPING TO NEARLY VERTICAL FRACTURES: 40, 65-80 DEGREES
										-	
		R5	5.0'	5.0'	29.5'						RQD = 87% GOOD
										_	FRACTURE ANGLES AT 50 TO 70 DEGREES
										-	
										-	
		R6	5.1'	5.1'	34.6'					4	RQD = 90% GOOD / EXCELLENT
						-				-	
											FRACTURE ANGLES AT 70 TO 80 DEGREES
						-				-	
		D7	5 O'	5 O'	20.6'					40.0'	
		Π/	5.0	5.0	39.0		I			40.0	
SAN	1PLE	S:			SOIL C	LASSI	FIED B	<i>(</i> :		REMAR	2KS:
	0 - 1		<u></u>								WATER INTRODUCED DURING DRILLING
U =	SPL 2" C				V		LLER -				
U = 1	ত তা 3.5"	SHELDY		F				RY TE	ST		AND THE TRANSITION MAY BE GRADUAL PROVIDENCE TO THE TRANSITION MAY BE GRADUAL
	5.5			-			5.0.10		~ '	1	IBORING NO.: B-16



BINGHAM, MAINE

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T6
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	10/30/2013
DATE FINISH:	10/30/2013
ELEVATION:	1469' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 12.1' ON 10/30; WATER AT 13' ON 11/1 WATER AT 13.2' ON 11/4/2013

CORE BARREL: NQ2

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS	G SAMPLE SAMPLER BLOWS PER 6"				LOWS P	PER 6"		STDΑΤΑ 2 ΤΕST DΑΤΑ		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEFIN	STRATA & TEST DATA
	R8	5.0'	5.0'	44.6'						GRAY PELITIC SCHIST VERY SLIGHTLY WEATHERED, MODERATELY HARD MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 50-80 DEGREES CALCITE BANDS UP TO 1/4" THICK RQD = 100% EXCELLENT LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES
										A FEW HIGH ANGLE FRACTURES: 70-80 DEGREES
	R9	5.0'	5.0'	49.6'						RQD = 94% EXCELLENT
										A FEW MODERATELY DIPPING FRACTURES: 35-50 DEGREES
										BOTTOM OF EXPLORATION AT 54.8'
SAMPLI D = SPL C = 3" S U = 3.5"	LIT SPC BHELBY	OON TUBE 3Y TUB	E	SOIL C	DRI SOI LAB	FIED BY LLER - L TECH ORATO	/: VISUAL I VISU DRY TE:	LY JALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.



B-T6, R1 TO R4 (5.5'-24.5')



B-T6, R5 TO R8 (24.5'-44.6')

10-0014.3 Ford & Reed B-T6 Bingham, ME R5 (24.5-29.5) R= 5.0' B-T6 10/30/13 126 (295-34.6) R=5.1' 24.5 RS R7 (34.6-39.6) R=5.0' 295 (R.6) 346 R8 (39.6-44.6) R= 5.0' (RT) 29.6 (R-8) 44.6



B-T6, R9 TO R10 (44.6'-54.8')





BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ2

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

CORE BARREL:

U = 3.5" SHELBY TUBE

LABORATORY TEST

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T7				
SHEET:	1 OF 2				
PROJECT NO .:	10-0014.3				
DATE START:	10/31/2013				
DATE FINISH:	10/31/2013				
ELEVATION:	1491' ±				
SWC REP .:	PJO				
R LEVEL INFOR					

WATE

WATER AT 21.3' ON 10/31/2013

WATER AT 20.5' ON 11/4/2013

BORING NO .:

B-T7

CASING	ING SAMPLE SAMPLER BLOWS PER 6"										
PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEF	DEPTH SIRAIA & IESI DAIA	
HW				0 - 0 -							FOREST DUFF / BROWN SANDY SILT
	1D	24"	20"	2.0'	2	4	4	11	\sim	1.5'	WITH ROOTLETS ~LOOSE~
										2.5'	BROWN SILT AND SAND, SOME GRAVEL (GLACIAL TILL) ~MEDIUM DENSE~
											ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 6.0'
▼											INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE
											SEVERELY WEATHERED, SOFT TO MODERATELY HARD BECOMING
	R1	2.0'	2.0'	8.0'							RQD = 0% VERY POOR
											HIGHLY FRACTURED, IRON STAINING ON FRACTURES
	R2	1.8'	1.4'	9.8'							RQD = 0% VERY POOR
											MODERATELY DIPPING TO NEAR VERTICAL FRACTURES: 50-60, 70-85 DEGREES
	R3	1.5'	1.5'	11.3'							RQD = 0% VERY POOR
											HIGH ANGLE TO NEARLY VERTICAL FRACTURES: 60, 70-85 DEGREES
	R4	2.7'	2.7'	14.0'							RQD = 0% VERY POOR
	R5	2.0'	2.0'	16.0'							RQD = 0% VERY POOR
											HIGH ANGLE TO NEARLY VERTICAL FRACTURES: 65-85 DEGREES
			~ =	10.01					-		
	R6	3.0	2.7	19.0'					-		RQD = 44% POOR
	R/	1.0	0.8	20.0							
	Do	1.5'	1.5'	21.5'					-		HIGH ANGLE TO NEARLY VERTICAL FRACTORES. 75-65 DEGREES
	ΝO	1.5	1.5	21.5							RQD = 22% VERT FOOR
	R9	1 7'	1.5'	23.2'							
				20.2					-		HIGHLY FRACTURED IRON STAINING ON FRACTURES
											HIGH ANGLE TO NEARLY VERTICAL FRACTURES: 60-85 DEGREES
	R10	3.8'	3.8'	27.0'							ROD = 28% POOR
	-			-							
											MODERATELY WEATHERED, MODERATELY HARD TO HARD
											CALCITE BANDS UP TO 1/2" THICK
											LOW ANGLE TO HIGH ANGLE FRACTURES: 20-30, 70-80 DEGREES
	R11	5.0'	5.0'	32.0'							RQD = 76% GOOD
											LOW ANGLE TO NEARLY VERTICAL FRACTURES: 30-40, 75-85 DEGREES
	R12	5.0'	5.0'	37.0'					-		RQD = 70% FAIR
	.										PITTED CALCITE BAND: 33.0' - 34.0'
	R13	2.0'	1.8'	39.0'						0.01	RQD = 28% POOR
									4	0.0'	MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 50, 75-80 DEGREES
SAMPLE	ES:			SOIL C	LASSIF	FIED BY	/:		REN	ЛAR	KS:
											WATER INTRODUCED DURING DRILLING
D = SPL	IT SPC	ON			DRI	LER -	VISUAL	LY			STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBF		- X	SOII	_ TECH	VISI	JALLY	1		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES

AND THE TRANSITION MAY BE GRADUAL.



BINGHAM, MAINE

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T7
SHEET:	2 OF 2
PROJECT NO.:	10-0014.3
DATE START:	10/31/2013
DATE FINISH:	10/31/2013
ELEVATION:	1491' ±
SWC REP .:	PJO
WATER LEVEL INFOR	RMATION

WATER AT 21.3' ON 10/31/2013

W	/A1	FER	AT	20.5	ON	11/4	/2013	

CORE BARREL: NQ2 2			2"	-			WATER AT 20.5' ON 11/4/2013			
CASING BLOWS		SAI	MPLE	DEDTU	SAM	PLER B	LOWS PER 6"		DEPTH	STRATA & TEST DATA
FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24		
	R14	5.0'	5.0'	44.0'						INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE VERY SLIGHTLY WEATHERED, MODERATELY HARD TO HARD CALCITE BANDS UP TO 3/4" THICK RQD =88% GOOD FAINT IRON OXIDE STAINING ON FRACTURES
									-	A FEW MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 40, 75 DEGREES
	R15	4.9'	4.9'	48.9'					-	RQD = 92% EXCELLENT
	R16	3.3'	3.3'	52.2'					-	
	R17	2.4'	2.4'	56.0'					56.0'	MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 35-50, 70-85 DEGREES RQD = 75% FAIR / GOOD
										BOTTOM OF EXPLORATION AT 56.0'
SAMPLI D = SPL C = 3" S U = 3.5"	ES: LIT SPC SHELBY SHELE	DON 7 TUBE BY TUE	ε	SOIL C	LASSII DRI SOI LAB	FIED B` LLER - L TECH SORATC	Y: VISUAL I VISU DRY TE	_LY JALLY ST	REMAR	RKS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T7



B-T7, R1 TO R10 (6.0'-27.0')



B-T7, R11 TO R15 (27.0'-45.0')





B-T7, R15 TO R17 (45.0'-56.0')





BINGHAM, MAINE

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T8
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/1/2013
DATE FINISH:	11/1/2013
ELEVATION:	1528' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 11.3' ON 11/1/2013

CORE E	CORE BARREL: NO			Q2	2	2"	•			WATER AT 20.8' ON 11/4/2013			
CASING BLOWS		SAN	/IPLE		SAM	PLER BI	LOWS F	PER 6"	DEPTH	STRΔΤΔ & TEST DΔΤΔ			
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24					
HW										FOREST DUFF			
	1D	24"	18"	2.0'	1	1	2	9	1.8'	ORANGE-BROWN SAND AND SILT WITH ROOTLETS ~VERY LOOSE~			
									-				
									-	GRAY-BROWN SAND AND SILT SOME GRAVEL (GLACIAL TILL)			
_	20	2"	2"	E 0'	E0/2"				5 0'	~LOOSE~			
	20	Z	2	5.2	50/2				<u> </u>	GRAY PELITIC SCHIST			
	R1	1.0'	1.0'	7.0'						RQD = 0% VERY POOR			
									-	SEVERELY WEATHERED. SOFT TO MEDIUM HARD			
										IRON OXIDE STAINING ON FRACTURE SURFACES			
	R2	3.3'	3.2'	10.3'						RQD = 61% FAIR HIGHLY FRACTURED			
	R3	1.0'	1.0'	11.3'					-	RQD = 0% VERY POOR			
									-	HIGH ANGLE TO VERTICAL FRACTURES: 80-90 DEGREES			
	R4	2.5'	0.8'	13.8'					-	RQD = 0% VERY POOR			
	R5	1.2'	1.6'	15.0'					-	RQD = 0% VERY POOR			
	R6	0.4'	0.4'	15.4'					-	RQD = 0% VERY POOR HIGHLY FRACTURED			
	R/	1.6	1.6	17.0					-				
										HIGH ANGLE TO VERTICAL FRACTORES. 60-90 DEGREES			
										HIGHLY FRACTURED			
	R8	3.4'	3.4'	20.4'						RQD = 27% POOR			
	R9	1.6'	1.6'	22.0'						RQD = 22% VERY POOR			
									_	DARK GRAY PHYLLITE ZONES IN PELITIC SCHIST			
	R10	2.5'	2.5'	24.5'						RQD = 40% POOR			
									-	SEVERELY WEATHERED, SOFT TO MEDIUM HARD			
	D44	0.01	0.01	07.01					-				
	R11	2.8	2.8	27.3					-				
	R12	2 0'	2 0'	29.3'					-				
	1112	2.0	2.0	20.0									
	R13	2.7'	2.7'	32.0'						RQD = 52% FAIR			
									-	IRON OXIDE STAINING ON FRACTURE SURFACES			
										HIGH ANGLE FRACTURES: 80-85 DEGREES			
										MODERATE TO SEVERELY WEATHERED, SOFT TO MEDIUM HARD			
	R14	4.0'	4.0'	36.0'					-	RQD = 48% POOR			
	R15	1.4'	1.4'	37.8'	-				-	RQD = 33% POOR			
									-				
									40.0'				
									40.0				
SAMPLI	ES:			SOIL C	LASSIF	FIED B	<i>(</i> :		REMAR				
							1/101141	IV					
ט = 240 C = 3" 9				Y			VISUAL	.∟ĭ I∆I I ∨					
U = 3.5"	SHELE	BY TUB	E		LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO · R-TR			



BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ2

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T8
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/1/2013
DATE FINISH:	11/1/2013
ELEVATION:	1528' ±
SWC REP.:	PJO
	MATION

WATER LEVEL INFORMATIC

WATER AT 11.3' ON 11/1/2013

WATER AT 20.8' ON 11/4/2013

CASING SAMPLE			SAMPLER BLOWS PER 6"				DEDTU			
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
										GRAY PELITIC SCHIST WITH ZONES OF DARK GRAY PHYLLITE
	R16	3.8'	3.8'	41.6'						RQD = 55% POOR HIGHLY FRACTURED
	R17	0.9'	0.9'	42.5'						RQD = 0% VERY POOR SOFT TO MEDIUM HARD
										SEVERELY WEATHERED
	R18	2.0'	1.7'	44.5'						RQD = 47% POOR IRON OXIDE STAINING ON FRACTURES
										MODERATELY DIPPING TO VERTICAL FRACTURES: 40-50, 75-90 DEGREES
	R19	2.0'	1.9'	46.5'						RQD = 46% POOR
	R20	1.0'	1.4'	47.5'						RQD = 68% FAIR
	R21	1.5'	1.4'	49.0'						RQD = 36% POOR
	R22	1.0'	0.6'	50.0'						RQD = 0% VERY POOR
	R23	1.0'	1.0'	51.0'						RQD = 40% POOR
	R24	1.0'	1.0'	52.0'						RQD = 40% POOR
										HIGHLY FRACTURED
	R25	1.7'	1.4'	53.7'						RQD = 36% POOR
	R26	1.1'	0.9'	54.8'						RQD = 0% VERY POOR
										LOW ANGLE TO VERTICAL FRACTURES: 20-35, 80-90 DEGREES
	R27	1.6'	2.5'	56.4'						RQD = 45% POOR
	R28	1.5'	1.5'	57.9'						RQD = 28% POOR
	R29	1.0'	1.0'	58.9'					-	RQD = 42% POOR
										HIGHLY FRACTURED
	R30	2.1'	2.1'	60.0'					60.0'	RQD = 42% POOR
									-	
	-								-	BOTTOM OF EXPLORATION AT 60.0
									-	
									-	
									-	
									-	
									-	
	-									
									-	
									-	
									•	
									1	
									1	
SAMPLI	ES:			SOIL C	LASSIF	FIED BY	/ :		REMAR	KS:
										WATER INTRODUCED DURING DRILLING
D = SPL	IT SPC	ON			DRII	LER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE ()
C = 3" S	HELBY	' TUBE		Х	SOII	TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE					LAB	ORATC	RY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T8



B-T8, R1 TO R10 (6.0'-24.5')



B-T8, R11 TO R17 (24.5'-42.5')





B-T8, R18 TO R30 (42.5'-60.0')





BINGHAM, MAINE

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	В-Т9
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/2/2013
DATE FINISH:	11/3/2013
ELEVATION:	1501' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT GROUND SURFACE ON 11/1/2013

	Oncourte	00107002	01111/1/201
W.	ATER AT 1	.0' ON 11/4	/2013

CORE BARREL: NQ2

CASING BLOWS		SAN	IPLE		SAM	PLER B	LOWS P	'ER 6"	DEDTU	CTDATA & TECT DATA
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	SIRATA & LESI DATA
HW										FOREST DUFF / BROWN SANDY SILT WITH ROOTLETS
	1D	24"	16"	2.0'	3	1	2	4	1.5'	~VERY LOOSE~
										BROWN SILT, SOME SAND, SOME GRAVEL (GLACIAL TILL)
	20	24"	24"	7.0'	F	6	2	4	-	WITH COBBLES
	20	24	24	7.0	5	0	3	4		~L00SE~
HOLE	3D	18"	18"	12.0'	9	14	25		-	~MEDIUM DENSE~
									15.0'	
	4D	24"	24"	17.0'	27	31	26	50	-	GRAY SANDY SILT, SOME GRAVEL WITH COBBLES
										(GLACIAL TILL)
									-	
	5D	14"	13"	21.1'	17	24	50/2"			~VERY DENSE~
									-	
	6D	6"	5"	25.5'	50					
									-	
	7D	15"	15"	31.3'	26	36	50/3"		-	
	8D	10"	8"	35.8'	27	50/4"			-	
									40.0'	
SAMPLES: SOIL CLASSIFIED BY:							Y:		REMAR	KS:
	IT SPC	NON			DBI	IIFR -	VISLIAI	IY		WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE
C = 3" S	SHELB	TUBE		Х	SOI	L TECH	I VISU	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE						ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T9



BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ2

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T9
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/2/2013
DATE FINISH:	11/3/2013
ELEVATION:	1501' ±
SWC REP .:	PJO

WATER LEVEL INFORMATION

WATER AT GROUND SURFACE ON 11/1/2013

WATER AT 1.0' ON 11/4/2013

CASING BLOWS	NG SAMPLE				SAM	PLER BI	_OWS F	PER 6"	DEPTH	STRATA & TEST DATA
PER FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24		
	9D	18"	16"	41.5'	23	27	50			GRAY GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL) ~VERY DENSE~
	10D	1"	0"	45.1'	50/1"				•	
										ADVANCED BY ROLLER CONE THROUGH GLACIAL TILL
									55.01	
									55.0	
										BOTTOM OF EXPLORATION AT 55.0'
SAMPLES: SOIL CLASSIFIED BY: F D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE X SOIL TECH VISUALLY U = 3.5" SHELBY TUBE LABORATORY TEST								LY JALLY ST	REMAR	IKS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T9



BINGHAM, MAINE

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T10									
SHEET:	1 OF 2									
PROJECT NO .:	10-0014.3									
DATE START:	11/4/2013									
DATE FINISH:	11/4/2013									
ELEVATION:	1530' ±									
SWC REP .:	PJO									
R LEVEL INFOR										

WATE

WATER AT 9.1' ON 11/4/2013 WATER AT 7.7' ON 11/6/2013

CAMPLE SAMPLE BLOWS PER ' DEPTH STRATA & TEST DATA MO PEN REC PEPTH STRATA & TEST DATA MO PEN 20 1 1 5 V 20 24" 27" 16 7 6 V 20 24" 20" 100" 6 8 13 16 V 20.0 COBBLE COBBLE COBBLE -VERY DENSE- -VERY DENSE- -VERY DENSE- MO 14" 10" 21.2 39 50.4" -VERY DENSE- -VERY DENSE- MO 24" 22" 27.0" 16 29 <	CORE BARREL:		_:	Ν	IQ	2"					WATER AT 7.7' ON 11/6/2013	
Champone SAMPLE SAMPLER BLOWS PER of 8 HOT Derrin STRATA & TEST DATA HW HV	-											
PERF N0 PEN REC DEPTH STRATA Cases Duration HW I	CASING BLOWS			SAM	MPLE		SAM	PLER B	LOWS F	PER 6"		
INV INV <td>P</td> <td>ER</td> <td>NO.</td> <td>PEN.</td> <td>REC.</td> <td>DEPTH @ BOT</td> <td>0-6</td> <td>6-12</td> <td>12-18</td> <td>18-24</td> <td>DEPTH</td> <td>SIRATA & TEST DATA</td>	P	ER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	SIRATA & TEST DATA
10 24' 15' 20' 1 1 5 6 1 1 20' 1 1 5 6 20 24' 22' 7.0' 6 7 7 6 20 24' 22' 7.0' 6 7 7 6 20 24' 22' 7.0' 6 7 7 6 40 1' 1' 15' BROWN SAND AND SLT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)	 	W W				0 001						FOREST DUFF / ORANGE-BROWN SANDY SILT
BROWN SAND AND SILT, SOME GRAVEL U D <			1D	24"	15"	2.0'	1	1	5	6	1.5	WITH ORGANICS AND ROOTLETS ~LOOSE~
Image: Solution of the second secon									-			
Image: Construction of the second s											-	BROWN SAND AND SILT, SOME GRAVEL
Image: Solution of the												WITH COBBLES (GLACIAL TILL)
Image: Property and the second seco												
Image: Construction of the second s			2D	24"	22"	7.0'	6	7	7	6		~MEDIUM DENSE~
ZDa Z4' Z0' 100' 6 8 13 18 OPEN 3D 4' 4' 10.3' 504' - <td></td>												
V 2DB 24' 20' 100' 6 8 13 18 OPEN 3D 4' 4' 103' 504' - - COBBLE ODE 3D 4' 4' 103' 504' - 20.0' - - - - - - - - - - - - - - - - 20.0' - - - - - - - - - - - - - 10' 10' 21.2' 12' 39' 5012' - - - </td <td></td>												
OPEN 30 4' 4' 10.3' 604''	`	/	2Da	24"	20"	10.0'	6	8	13	18		
HOLE VERY DENSE- 40 18' 18' 13.5' 18 32 50 40 1' 1' 15.1' 50/1'	OF	PEN	3D	4"	4"	10.3'	50/4"				-	COBBLE
3Da 18 18 32 50 VERY DENSE- 4D 1' 1' 15.01° VERY DENSE- 4D 1' 1' 15.01°	но	DLE									-	
4D 1* <td< td=""><td></td><td></td><td>3Da</td><td>18"</td><td>18"</td><td>13.5'</td><td>18</td><td>32</td><td>50</td><td></td><td>-</td><td>~VERY DENSE~</td></td<>			3Da	18"	18"	13.5'	18	32	50		-	~VERY DENSE~
4D 1" 1" 15.1' 50/1"												
40 1			40	1"	4 "	15 1'	50/1"					
SAMPLES: SOIL CLASSIFIED BY: D = SPLIT SPOON DRILLER - VISUALLY SOIL TECH - VISUALLY L = 35' SHELBY TUBE DRILLER - VISUALLY SOIL TECH - VISUALY SOIL TECH - VISUALY SOIL TECH - VISUALY SOIL TECH			4D	I	1	15.1	50/1					
Image: Solution of the second secon												
Image: Solution of the second secon											-	
SD 14* 10* 21.2 12 39 50/2* SD 14* 10* 21.2 12 39 50/2* WITH COBBLES (GLACIAL TILL) SD 14* 10* 14 10* 14*											20.0'	
5D 14* 10* 21.2* 12 39 50/2* GRAY SILT AND SAND, SOME GRAVEL WITH COBBLES (GLACIAL TILL) GRAY SILT AND SAND, SOME GRAVEL WITH COBBLES (GLACIAL TILL) GRAY SILT AND SAND, SOME GRAVEL WITH COBBLES (GLACIAL TILL) GRAY SILT AND SAND, SOME GRAVEL WITH COBBLES (GLACIAL TILL) GRAY GLACIAL TILL												
Image: Solution of the second secon			5D	14"	10"	21.2'	12	39	50/2"			GRAY SILT AND SAND, SOME GRAVEL
Image: Solution of the system Im												WITH COBBLES (GLACIAL TILL)
Image: Solution of the second secon												
Image: Construction of the system o												
6D 24" 22" 27.0' 16 29 37 55 1 1 1 1 1 1 1 1 1 1												
Image: Solution of the second seco			6D	24"	22"	27.0'	16	29	37	55		~VERY DENSE~
Image: Solution of the system of the syst											4	
Image: Constraint of the constrant of the constraint of the constraint of the constraint of the c											-	
TD 16" 16" 31.3' 22 39 50/4" I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <												
ID ID <thid< th=""> ID ID <thi< td=""><td></td><td></td><td>70</td><td>4.0"</td><td>4.0"</td><td>24.21</td><td></td><td>20</td><td>E0/4"</td><td></td><td>-</td><td></td></thi<></thid<>			70	4.0"	4.0"	24.21		20	E0/4"		-	
Image: Solution of the second state			70	16	16"	31.3	22	39	50/4		-	DARK GRAY GLACIAL TILL
Image: Solution of the second state												
BD 14" 14" 36.2' 27 49 50/2" BD 14" 14" 14" 14" 14" 14" BD 14" 14" 14" 14" 14" 14" BD 14" 14" 14" 14" 14" 14" SOIL 14" 14" 14" 14" 14" 14" 14" SOIL 14" 14" 14" 14" 14" 14" 14" 14" 14" SOIL 14" 14" 14" 14" 14"	-										-	
8D 14" 14" 36.2' 27 49 50/2" Image: Solid Classified By: Image: Solid Classified By: 40.0' SAMPLES: Solid Classified By: 40.0' D = SPLIT SPOON C = 3" SHELBY TUBE Image: Driller - VISUALLY Solid Tech VISUALLY LABORATORY TEST REMARKS: 2Da AND 3Da MADE 5' FROM BORING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO :											1	
OB OB <th< td=""><td></td><td></td><td>8D</td><td>14"</td><td>14"</td><td>36.2'</td><td>27</td><td>49</td><td>50/2"</td><td></td><td>-</td><td></td></th<>			8D	14"	14"	36.2'	27	49	50/2"		-	
SAMPLES: SOIL CLASSIFIED BY: D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE DRILLER - VISUALLY V = 3.5" SHELBY TUBE LABORATORY TEST			-					-				
SAMPLES: SOIL CLASSIFIED BY: D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE DRILLER - VISUALLY U = 3.5" SHELBY TUBE LABORATORY TEST												
SAMPLES: SOIL CLASSIFIED BY: REMARKS: D = SPLIT SPOON DRILLER - VISUALLY STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE X SOIL TECH VISUALLY U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL.	L										40.0'	
D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE X SOIL TECH VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE LABORATORY TEST	<u>م</u>		- e ·			5011 0			V·			
D = SPLIT SPOON DRILLER - VISUALLY STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE X SOIL TECH VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO.	SA		_3.			SULC	LASOI	יבט א	ι.			2Da AND 3Da MADE 5' FROM BORING
C = 3" SHELBY TUBE X SOIL TECH VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO.	D =	: SPI	IT SPC	ON				LER -	VISUAI	LY		STRATIFICATION LINES REPRESENT THE
U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL.	C =	: 3" S	HELBY	TUBE		Х	SOI		I VISU	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
	U =	3.5"	SHELE	BY TUE	ΒE		LAB	ORATO	ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T10



BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CORE BARREL:

BORING LOG

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T10									
SHEET:	2 OF 2									
PROJECT NO .:	10-0014.3									
DATE START:	11/4/2013									
DATE FINISH:	11/4/2013									
ELEVATION:	1530' ±									
SWC REP.:	PJO									

WATER LEVEL INFORMATION

WATER AT 9.1' ON 11/4/2013

WATER AT 7.7' ON 11/6/2013

CASING BLOWS PER		SAN	AMPLE SAMPLER BLOWS PER 6"		DEPTH	STRATA & TEST DATA				
FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24		
	9D	9"	5"	40.8'	45	50/3"				
					-					DARK GRAY SILT AND SAND, SOME GRAVEL
										WITH COBBLES (GLACIAL TILL)
	10D	9"	9"	45.7'	26	50/3"				~VERY DENSE~
					-				48.2'	
										GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE, TRACE QUARTZ
	R1	2 5'	1 2'	52 5'						ROD - 0% VERY POOR HIGHLY ERACTURED
	R2	0.5'	0.5'	53.0'			-			RQD = 0% VERY POOR
										LOW ANGLE TO HIGH ANGLE FRACTURES: 20-45, 75-80 DEGREES
	R3	3.0'	3.0'	56.0'					56.0'	RQD = 13% VERY POOR
										BOTTOM OF EXPLORATION AT 56.0
					-					
					-					
SAMPL	AMPLES: SOIL CLASSIFIED BY:							1	REMAR	KS:
										WATER INTRODUCED DURING DRILLING
D = SPL				V	DRI	LLER - '	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
U = 3.5'	SHELE	3Y TUB	E	_ ^	LAB		RY TE	ST		AND THE TRANSITION MAY BE GRADUAL.



B-T10, R1 TO R3 (50'-56')





REED & REED, INC. **BINGHAM, MAINE**

TYPE

SSA / HW

SS

MAINE TEST BORINGS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

BORING LOG

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T11							
SHEET:	1 OF 1							
PROJECT NO .:	10-0014.3							
DATE START:	12/9/2013							
DATE FINISH:	12/10/2013							
ELEVATION:	1474' ±							
SWC REP.:	AAS							

WAT

WATER AT 1.0' ON 12/10/13

SAMPLER: CORE BARREL:

PROJECT: CLIENT :

I OCATION. DRILLING FIRM:

CASING:

CASING SAMPLE SAMPLER BLOWS PER 6" BLOWS **STRATA & TEST DATA** DEPTH PER DEPTH NO. PEN. REC. 0-6 6-12 12-18 18-24 @ BOT FOOT HW 1.0 TOPSOIL BROWN SANDY SILT WITH GRAVEL AND COBBLES ~ LOOSE ~ 1D 24" 8" 2.0' 1 5 1 12 2.0' 2' DIAMETER BOULDER AT 2' BROWN SAND AND SILT, SOME GRAVEL AND COBBLES (GLACIAL TILL) 24" 7.0' ~ MEDIUM DENSE ~ 2D 18" 13 14 13 15 3.8' DIAMETER BOULDER AT 8.7' GRAY-BROWN GRAVELLY SILT AND SAND WITH COBBLES 3D 4" 15.3' 50/3" (GLACIAL TILL) 9" 51 ~ VERY DENSE ~ 18.0' GRAY GRAVELLY SILT AND SAND WITH COBBLES 4D 8" 8" 20.7 31 50/2" (GLACIAL TILL) ~ VERY DENSE ~ 5D 9" 25.8' 50/3" 9" 31 NUMEROUS COBBLES FROM 27' TO 29.5' 6D 2" 2" 30.2' 75/2" ~ VERY DENSE ~ GRAY GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL) 7D 50/5" 5" 5" 35.4' 36.0' WEATHERED BEDROCK 40.0' BOTTOM OF EXPLORATION AT 40.0' SAMPLES: SOIL CLASSIFIED BY: REMARKS: DUE TO THE CROOKEDNESS OF THE BOREHOLE, CAUSED BY COBBLES AND BOULDERS, MTB WAS UNABLE TO ADVANCE BEYOND 40.0' D = SPLIT SPOON **DRILLER - VISUALLY** STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE Х SOIL TECH. - VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO .: **B-T11**

WATER AT 1.0' DURING DRILLING



MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

4"

1 3/8"

2"

PROJECT:

LOCATION:

DRILLING FIRM:

CORE BARREL:

CLIENT :

CASING:

SAMPLER:

BORING LOG

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

 BORING NO.:
 B-T12(NEW)

 SHEET:
 1 OF 2

 PROJECT NO.:
 10-0014.3

 DATE START:
 12/5/2013

 DATE FINISH:
 12/5/2013

 ELEVATION:
 1493' ±

 SWC REP.:
 AAS

WATER LEVEL INFORMATION

WATER AT 9.5' ON 12/5/13	
WATER AT 2.0' ON 12/6/13	

WATER AT 2.4' ON 12/9/13

CASING BLOWS		SAN	1PLE		SAM	PLER BI	LOWS P	PER 6"	DEDTU	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPIN	STRATA & TEST DATA
									1.0	FOREST DUFF
	1D	24"	4"	2.0'	1	1	1	1		~VERY LOOSE~
										BROWN GRAVELLY SANDY SILT WITH COBBLES
										(GLACIAL TILL)
	20	24"	24"	7.0'	6	6	Q	32	-	
	20	24	24	7.0	0	0	0	52		
							<u> </u>			
	3D	24"	20"	12.0'	1	0	30	20	-	DENSE
	50	24	20	12.0	4	3	52	23		~DEINGE~
							<u> </u>			
	4 D	2/1"	18"	17.0'	25	13	11	65	-	
	UF	27	10	17.0	25			00		
									19.0'	
						0.7 (0.7				
	5D	6"	6"	20.5	50	25/0"			-	
										GRAY GRAVELLY SILT AND SAND WITH COBBLES
										(GLACIAL TILL)
	0.0	0"	0"	05.01	00	50/0"			-	
	6D	9"	9.	25.8	60	50/3"				~ VERY DENSE ~
		0"	0"	20.9'	20	E0/2"	<u> </u>	<u> </u>		
	70	9	9	30.0	30	50/3			-	
					-	-			-	
	00	10"	11"	26.0'	60	50	<u> </u>			
	00	12	11	30.0	00	50			-	
									-	
						<u> </u>			40.0'	
SAMPLES: SOIL CLASSIFIED BY:						FIED BY	<i>ſ</i> :		REMAR	RKS:
D = SPI	IT SPC	ON			DBI	IIFR -	VISLIAI	IY		
C = 3" S	HELBY	TUBE		Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5"	SHELE	BY TUB	E		LAE	ORATC	ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T12(NEW)


MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / HW

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

4"

1 3/8"

2"

BORING LOG

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

B-T12 (NEW) BORING NO .: SHEET: 2 OF 2 PROJECT NO .: 10-0014.3 DATE START: 12/5/2013 DATE FINISH: 12/5/2013 1493' ± ELEVATION: SWC REP .: AAS WATER LEVEL INFORMATION WATER AT 9.5' ON 12/5/13 WATER AT 2.0' ON 12/6/13

SAMPLER: SS CORE BARREL: NQ

PROJECT:

LOCATION:

DRILLING FIRM:

CLIENT :

CASING:

CASIMO IPEK SAMPLE SAMPLE BLOWS PERIO Depth STRATA & TEST DATA IPEK NO PER REC 00 0 612 2138 1924 IPEK NO PER REC 0 64 612 218 1924 IPEK											WATER AT 2.4' ON 12/9/13			
PARE NO PEN REC NO PEN	CASING BLOWS		SAN	ЛРLE		SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA			
9D 7' 7' 40.6' 70 501' I <tdi< td=""> I <td< td=""><td>PER FOOT</td><td>NO.</td><td>PEN.</td><td>REC.</td><td>0EPTH @ BOT</td><td>0-6</td><td>6-12</td><td>12-18</td><td>18-24</td><td></td><td></td></td<></tdi<>	PER FOOT	NO.	PEN.	REC.	0EPTH @ BOT	0-6	6-12	12-18	18-24					
Image: Control of the control of th		9D	7"	7"	40.6'	70	50/1"			44.0'	GRAY GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL) ~ VERY DENSE ~			
BOTTOM OF EXPLORATION AT 55.0°		R1	4.8'	1.3'	50.0'					55.0'	GRAY PELITIC SCHIST SEVERE TO MODERATE WEATHERING, FOLIATION AT 85-90 DEGREES FRACTURES PRIMARILY ALONG FOLIATION PLANES AT 45-60 DEGREES. FRACTURE SURFACES IRON OXIDE STAINED RQD = 0% VERY POOR SLIGHTLY WEATHERED, MODERATELY HARD FRACTURES AT 5-10 AND 60-70 DEGREES RQD = 75% FAIR / GOOD			
SAMPLES: SOIL CLASSIFIED BY: D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE X SOIL TECH VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES											BOTTOM OF EXPLORATION AT 55.0'			
U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T12 (SAMPLES: SOIL CLASSIFIED BY: I D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE X SOIL TECH VISUALLY U = 3.5" SHELBY TUBE LABORATORY TEST					FIED BY LLER - ' L TECH BORATC	/: VISUAL I VISL DRY TE	LY JALLY ST	REMAR	STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T12 (NFW)				



B-T12, R1 TO R2 (45.2'-55.0')





BINGHAM, MAINE MAINE TEST BORINGS

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

4"

1 3/8"

BORING LOG

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T13
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	12/5/2013
DATE FINISH:	12/6/2013
ELEVATION:	1508' ±
SWC REP.:	AAS

WATER LEVEL INFORMATION

WATER	AT	GROUND	SURFACE	ON	12/5/13	

SAMPLER: CORE BARREL:

CASING:

PROJECT:

LOCATION:

DRILLING FIRM:

CLIENT :

WATER AT GROUND SURFACE ON 12/6/13 WATER AT 0.7' ON 12/9/13

CASIN	IG IS	SA	NPLE		SAM	PLER BI	_OWS F	PER 6"	DEDTU	
PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
HW				@ DO1					1.0'	TOPSOIL
	1D	24"	2"	2.0'	2	3	4	5		~LOOSE~
	_								-	
										BROWN SANDY SILT. SOME GRAVEL (GLACIAL TILL)
	2D	24"	24"	7.0'	3	7	7	6	-	
_										~MEDIUM DENSE~
									-	
	3D	24"	16"	12.0'	6	8	12	10	-	
	_								14.0'	
	4D	10"	10"	15.9'	28	50/4"				
										GRAY GRAVELLY SILT AND SAND WITH COBBLES
									-	(GLACIAL TILL)
	5D	9"	8"	20.8'	27	50/3"			-	~ VERY DENSE ~
									-	
	6D	9"	9"	25.8	43	50/3"				
	_									
	7D	23"	23"	31.9'	22	34	44	50/5"	-	
									34.0'	
										GRAY SILT AND SAND, SOME CLAY, SOME GRAVEL WITH COBBI FS
	8D	24"	24"	37.0'	16	18	22	40		(GLACIAL TILL)
										~ DENSE ~
									<u>⊿∩ ∩'</u>	
C A & 47			L	801 0				1		
SAM	LES:			SOILC	LASSI	-IED BJ	r:		REMAR	
D = S	PLIT SP	OON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3	SHELE	Y TUBE	F	Х	SOI		VISU	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE LABORATORY TES		51		AND THE TRANSTITION MAY BE GRADUAL. BORING NO.: B-T13						



MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

4"

1 3/8"

BORING LOG

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

 BORING NO.:
 B-T13

 SHEET:
 2 OF 2

 PROJECT NO.:
 10-0014.3

 DATE START:
 12/5/2013

 DATE FINISH:
 12/6/2013

 ELEVATION:
 1508' ±

 SWC REP.:
 AAS

WATER LEVEL INFORMATION

WATER AT	GROUND	SURFACE	ON 12/5/13

SAMPLER: CORE BARREL:

PROJECT:

LOCATION:

DRILLING FIRM:

CLIENT :

CASING:

WATER AT GROUND SURFACE ON 12/6/13 WATER AT 0.7' ON 12/9/13

CASING BLOWS		SAN	1PLE		SAM	PLER BI	_OWS F	PER 6"	DEPTH	STRATA & TEST DATA
PER FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24		
	9D	8"	8"	40.7'	35	50/2"			-	
									-	GRAY SILT AND SAND, SOME GRAVEL WITH COBBLES
	-		-						-	
	10D	3"	3"	45.3'	50/3"					~ VERY DENSE ~
									-	
									-	
	11D	4"	4"	50.4'	100/4"				1	
									52.0'	
									53.0'	WEATHERED ROCK
										BEDROCK
									55.0'	
										BOTTOM OF EXPLORATION AT 55.0'
									-	
									-	
									-	
									1	
									-	
	-								-	
									-	
SAMPLI	ES:			SOIL C	LASSIF	FIED B	/:	<u> </u>	REMAR	I IKS:
										\frown
D = SPL	IT SPC			V	DRI	LER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
U = 3" S	SHELBY	IUBE 3Y TUB	E	X	LAR		RY TE	ST		APPROXIMATE BOUNDARY BETWEEN SUIL TYPES
5 = 0.0			-	L		5.000				BORING NO.: B-113



BORING LOG

BORING NO .:	B-T14
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/4/2013
DATE FINISH:	11/5/3013
ELEVATION:	1545' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 6.3' ON 11/5; WATER AT 5.2' ON 11/	6
WATER AT 4.5' ON 11/7/2013	

PROJECT:	BLUE SKY WE	BLUE SKY WEST WIND POWER PROJECT												
CLIENT :	REED & REED	REED & REED, INC.												
LOCATION:	BINGHAM, MA	INE												
DRILLING FIRM:	MAINE TEST	MAINE TEST BORINGS DRILLER: BRAD												
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL										
CASING:	SSA / HW	4"	140 LBS.	30"										
SAMPLER:	SS	1 3/8"	140 LBS.	30"										
CORE BARREL:	NQ	2"												

CASING BLOWS		SAN	1PLE		SAM	PLER BI	LOWS F	PER 6"		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
HW										FOREST DUFF / BROWN-RUST BROWN SILT AND SAND
	1D	24"	14"	2.0'	1	WОН	1	4	2.0'	WITH ORGANICS ~VERY LOOSE~
	5	0.4	0.4"	0.01	10	_	_			
	2D	24"	24"	6.0'	10	1	(6		~MEDIUM DENSE~
•										BROWN SANDY SILT, SOME GRAVEL
	20	0.4"	45"	10.0	-	4.4	44	7		WITH COBBLES (GLACIAL TILL)
	3D	24	15	10.0	э	14	11	1		
	3Da	24"	22"	12.0'	10	13	25	31		~DENSE~
	4D	9"	1"	13.7'	97	50/3"				~VERY DENSE~
	2	0	•	10.1	01	00/0				
									18.0'	
	5D	15"	15"	19.2'	32	50	50/3"			GRAY SANDY SILT, SOME GRAVEL
	6D	15"	13"	24 2'	40	51	50/3"			~VERY DENSE~
	50	10	10	21.2	10	01	00/0			
	76	0"	0.	00.01						
	70	0	0	28.0	50				28.0	
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE
										SLIGHTLY WEATHERED, MODERATELY HARD TO HARD
	R1	5.0'	3.6'	33.0'						RQD = 73% FAIR
										SHALLOW TO STEEP FRACTURE ANGLES
										AT 20-40, 60 AND 85 DEGREES
	R2	4.0'	4.5'	37.0'						RQD = 82% GOOD
									40.0'	
SAMPLI	ES:			SOIL C	LASSI	FIED B	<i>(</i> :		REMAR	KS: 3Da MADE 5' FROM BORING
	-									WATER INTRODUCED DURING DRILLING.
D = SPL C = 3" S	IT SPC			Y	DRI	LLER -				STRATIFICATION LINES REPRESENT THE
U = 3.5"	SHELE	BY TUB	E		LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T14



MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

BORING LOG

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T14
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/4/2013
DATE FINISH:	11/5/3013
ELEVATION:	1545' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATERAL	6.3' ON	11/5 VVA	IER AI	5.2	ON	11/6
W	ATER A	AT 4.5' O	N 11/7/2	013		

CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS		SAN	IPLE		SAM	PLER BI	LOWS P	PER 6"		STDΑΤΑ 2 TEST DΑΤΑ		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEFIN	STRATA & LEST DATA		
	R3	5.0'	5.0'	42.0'						RQD = 92% EXCELLENT		
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE SLIGHTLY WEATHERED, MODERATELY HARD TO HARD		
	R4	5.0'	5.0'	47.0'					-	RQD = 88% GOOD		
										FRACTURE SURFACES IRON OXIDE STAINED		
										SHALLOW TO STEEP FRACTURE ANGLES		
										AT 20-45 AND 70-80 DEGREES		
	R5	5.0'	5.0'	52.0'						RQD = 58% FAIR		
	R6	32'	32'	55 2'					55 2'	ROD = 92% EXCELLENT		
		0.2	0.2	00.2	-				00.2			
										BOTTOM OF EXPLORATION AT 55.2'		
									-			
									-			
									-			
									-			
									-			
									-			
									-			
<u> </u>									-			
SAMPL	ES:			SOIL C	LASSI	FIED BY	<i>(</i> :		REMAR	RKS:		
D = SPI		DON			DRI	LLER -	VISLIAI	LY		STRATIFICATION LINES REPRESENT THE		
C = 3" S	SHELBY	TUBE		Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES		
U = 3.5"	SHELE	BY TUB	E		LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T14		



B-T14, R1 TO R4 (28.0'-47.0')

18.0'- 33.0' Vier B T-14 30-37.0 ATM 10-00143 REED 2 REED 370.420 420' - 520' 1 1.51 A March St. Co. A. Fr 4

B-T14, R5 TO R6 (47.0'-55.2')





MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / NW

SS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

BORING LOG

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T15
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/5/2013
DATE FINISH:	11/6/2013
ELEVATION:	1537' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

FREE WATER AT 2.8' IN OPEN BOREHOLE
WHILE DRILLING

CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS			SAN	/IPLE		SAMPLER BLOWS PER 6"				DEDTU	
PER FOOT		NO. PEN. REC. DEPTH @ BOT 0-6 6-12 12-18		18-24	DEPTH	STRATA & TEST DATA					
NW											FOREST DUFF / BROWN SANDY SILT
		1D	24"	19"	2.0'	1	WОН	3	7	1.5'	WITH ORGANICS ~VERY LOOSE~
											WITH COBBLES (GLACIAL TILL)
		2D	24"	21"	7.0'	4	10	5	6		~MEDIUM DENSE~
		3D	24"	23"	10.0'	4	8	14	27	10.0'	
									= = (= =		
		4D	18"	18"	11.5	18	25	36	50/0"		
		5D	11"	11"	13.9'	51	75/5"				WITT CODDLES (SEACIAE TILE)
-		00			10.0	01	10/0				~VERY DENSE~
		6D	4"	4"	18.3'	75/4"					
										19.5'	
											ADVANCED BY ROLLER CONE THROUGH BEDROCK TO 20.6
											INTERBEDDED PELITIC SCHIST AND METASANDSTONE
											MODERATELY WEATHERED, MEDIUM HARD
		R1	3.6'	1.6'	24.2'						RQD = 40% POOR IRON OXIDE STAINED
											FRACTURES AT 20-30, 50-70 AND 80 DEGREES
											HIGHLY FRACTURED AND WEATHERED
		R2	2.4'	1.0'	26.6'						RQD = 0% VERY POOR
		R3	37	2 2'	30.3'						ROD = 52% FAIR
			0.1		0010						SEVERELY WEATHERED AND HIGHLY FRACTURED
											IRON OXIDE STAINED
		R4	3.5'	1.0'	33.8'						RQD = 0% VERY POOR
		-	a -:		ac =:						
		R5	2.8'	0.0'	36.6'	105/0"	1				RQD = 0% VERY POOR
		70	3	3	30.8	125/3					
										40.0'	
6.4		-0.	1	1	801 0			/.	1		
SA	WIPLE	:5:			SUILC	LASSI	רובט או			REIVIAR	
D =	SPL	IT SPC	ON			DRI	LLER - '	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C =	3" S	HELBY	TUBE		Х	SOI	L TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U =	: 3.5"	SHELE	BY TUB	Е		LAB	ORATC	RY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T15



MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / NW

SS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

BORING LOG

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T15
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/5/2013
DATE FINISH:	11/6/2013
ELEVATION:	1537' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 2.8' IN OPEN HOLE WHILE DRILLING

NQ CORE BARREL:

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS	NG SAMPLE			SAMPLER BLOWS PER 6"					STRATA & TEST ΠΑΤΑ		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEFIN	STRATA & TEST DATA	
	R6	3.8'	3.5'	40.6'						RQD = 18% VERY POOR	
										MODERATELY TO SEVERELY WEATHERED	
	R7	3.6'	3.6'	44.2'	-					RQD = 36% POOR IRON OXIDE STAINED	
										SHALLOW TO STEEP FRACTURE ANGLES	
	R8	2.2'	2.2'	46.4'						RQD = 15% VERY POOR AT 15, 65-85 DEGREES	
									-		
										SLIGHTLY WEATHERED, MODERATELY HARD TO HARD	
	R9	4.8'	4.8'	51.2'						RQD = 76% GOOD	
									-	SHALLOW TO STEEP FRACTURE ANGLES	
	R11	3.8'	3.8'	55.0'					55.0'	RQD = 92% EXCELLENT	
									-	BOTTOM OF EXPLORATION AT 55.0'	
	-				-				-		
									-		
	-				-				-		
									-		
									•		
									-		
0.4.4.5				00" 0					DEMAS		
SAMPL	E9:			SUIL C	LASSI	-IED BJ	r:		KEMAR	ING: WATER INTRODUCED DURING DRILLING.	
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE	
C = 3" S	HELBY	TUBE		Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES	
U = 3.5"	U = 3.5" SHELBY TUBE			ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T15			



B-T15, R1 TO R8 (20.8'-46.4')



B-T15, R9 TO R10 (46.4'-55.0')





PROJECT:

BORING LOG

BORING NO .:	B-T16
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/8/2013
DATE FINISH:	11/8/2013
ELEVATION:	1490' ±
SWC REP.:	PJO
R LEVEL INFOR	RMATION

WATER LEVEL INFORMATION
WATER AT 10.4' ON 11/8/2013

WATER AT 11.9' ON 11/9/2013

CLIENT :	REED & REED,	INC.										
LOCATION:	BINGHAM, MAINE											
DRILLING FIRM:	MAINE TEST BO	ORINGS		DRILLER:	BRAD ENOS							
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL								
CASING:	SSA / NW	3"	140 LBS.	30"								
SAMPLER:	SS	1 3/8"	140 LBS.	30"								
CORE BARREL:	NQ	2"										
			-									

BLUE SKY WEST WIND POWER PROJECT

CASI	NG /S		SAM	1PLE		SAM	PLER BI	LOWS F	PER 6"				
PEF FOC		0.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA		
NW	/										FOREST DUFF / RUST BROWN SILTY SAND		
	1[D	24"	11"	2.0'	1	1	1	2	2.0'	TRACE GRAVEL WITH ROOTLETS ~VERY LOOSE~		
										5.0'	BROWN SILTY SAND SOME GRAVEL WITH COBBLES (GLACIAL TILL)		
•	21	D	6"	5"	5.5'	50				0.0	ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 6.3'		
		_	-										
											GRAY INTERBEDDED PELITIC MICA SCHIST AND METASILTSTONE		
	R	81	2.5'	2.5'	8.8'					_	RQD = 16% VERY POOR MODERATELY WEATHERED		
											MEDIUM HARD, HIGHLY FRACTURED, IRON OXIDE STAINED		
											STEEP FRACTURE ANGLES PARALLEL		
											FOLIATION AT 60, 70-80 DEGREES		
	R	2	3.5'	1.4'	12.3'						RQD = 0% VERY POOR		
										-			
	_									-			
	R	3	3.7'	3.2'	16.0'	-				-	RQD = 34% POOR HIGHLY FRACTURED		
										-	STEEP FRACTURE ANGLES AT 75-80 DEGREES		
			0.7	0.7	40.7					-			
	R	(4	2.7	3.7	18.7						RQD = 41% POOR		
										-			
										-			
	R	25	5.0'	5.0'	23.7'					-	RQD = 62% FAIR SI IGHTI Y WEATHERED		
			0.0	0.0	20.1					-			
											IRON OXIDE STAINING ON FRACTURE SURFACES		
	R	86	4.0'	4.0'	27.7'						RQD = 50% POOR / FAIR		
											CONTAINS THIN QUARTZ VEINS		
									1	STEEP ANGLE FRACTURES, CRACKS AND FOLIATION			
										_	AT 60-80 DEGREES		
	R	87	5.0'	3.8'	32.7'					-	RQD = 58% FAIR		
										-			
	R	88	2.7'	3.9'	35.4'					-	RQD = 89% GOOD		
										-	FRACTURES AT 10, 40 AND 60 DEGREES		
										40.0'			
								1	1	+0.0	I		
SAM	PLES:				SOIL C	LASSI	FIED BY	<i>(</i> :		REMAR			
			~~~						1.17		WATER IN I RODUCED DURING DRILLING.		
D = 8		5400			V	DRI	LLER -						
U = 3	SHEL	נטז ובו סי		<b>_</b>	Ă	501		1 VISU	JALLY QT				
0 = 3	.5 31		IUB	L		LAB	UNAIC			1	BORING NO.: B-T16		



PROJECT:

# BORING LOG

BORING NO .:	B-T16
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/8/2013
DATE FINISH:	11/8/2013
ELEVATION:	1490' ±
SWC REP.:	PJO
R LEVEL INFOR	RMATION

WATER	LEVEL	NFO	RMATIC	N
WATER	AT 10.4'	ON 1	1/8/201	3

WATER AT 11.9' ON 11/9/2013

CLIENT :	REED & REED, INC.								
LOCATION:	BINGHAM, MAINE								
DRILLING FIRM:	MAINE TEST	DRILLER:	BRAD ENOS						
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL					
CASING:	SSA / NW	3"	140 LBS.	30"					
SAMPLER:	SS	1 3/8"	140 LBS.	30"					
CORE BARREL:	NQ	2"							

BLUE SKY WEST WIND POWER PROJECT

CASING BLOWS		SAN	<b>IPLE</b>		SAM	PLER BI	LOWS P	'ER 6"	DEPTH	STRATA & TEST DATA		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24				
	R9	4.9'	5.0'	40.3'						RQD = 86% GOOD		
										GRAV INTERBEDDED PELITIC MICA SCHIST AND METASII TSTONE		
										MODERATELY HARD, SLIGHTLY WEATHERED		
	R10	5.0'	5.0'	45.3'						RQD = 78% GOOD		
										AT 20-30 AND 65-85 DEGREES		
	D11	5 O'	5.0'	50.2'								
	RII	5.0	5.0	50.5						RQD = 64% GOOD		
	<b>P1</b> 2	4 7'	4 7'	55.0'					55.0'			
	IX12	4.7	4.7	55.0					55.0			
										BOTTOM OF EXPLORATION AT 55.0'		
SVND' I	-0.		1	SOIL 0						ve.		
SAIVIPLI	_3.			SUIL C	LH3311	יובט שי	ı.			WATER INTRODUCED DURING DRILLING.		
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE ()		
C = 3" S	HELBY		F	X	SOI			JALLY ST		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES		
0 = 3.5	SHELE	UB				UNAIC			I	BORING NO.: B-T16		



B-T16, R1 TO R5 (6.3'-23.7')



B-T16, R6 TO R9 (23.7'-40.3')





### B-T16, R10 TO R12 (40.3'-55.0)





MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

NW

SS

NQ

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

## **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

BORING NO .:	B-T17						
SHEET:	1 OF 2						
PROJECT NO.:	10-0014.3						
DATE START:	11/11/2013						
DATE FINISH:	11/11/2013						
ELEVATION:	1578' ±						
SWC REP .:	PJO						
WATER LEVEL INFORMATION							

WATER AT 4.0' ON 11/11/2013 WATER AT 0.8' ON 11/19/2013

2"

140 LBS.

140 LBS.

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

3"

1 3/8"

CASING BLOWS		SAN	<b>IPLE</b>		SAMPLER BLOWS PER 6"			οτρατά « τέςτ ράτα		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
NW										FOREST DUFF / RUST BROWN SILTY SAND
	1D	24"	13"	2.0'	1	1	1	6	2.0'	TRACE GRAVEL WITH ROOTLETS ~VERY LOOSE~
										BROWN SILTY SAND, SOME GRAVEL
									-	WITH COBBLES AND WEATHERED BEDROCK FRAGMENTS
	2D	6"	3"	4.5'	50				4.5'	(GLACIAL TILL) ~VERY DENSE~
•										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 5.9'
										GRAY INTERBEDDED PELITIC MICA SCHIST AND METASILTSTONE
										MODERATELY HARD, VERY SLIGHTLY WEATHERED,
										LIGHT IRON OXIDE STAINING, FRACTURE ANGLES AT 60-80 DEGREES
	R1	4.5'	4.4'	10.4'						RQD = 78% GOOD
										STEEP ANGLE FRACTURES AT 75-90 DEGREES
	R2	3.6'	3.7'	14.0'						RQD = 62% FAIR
									1	
										STEEP ANGLE FRACTURES AT 75-85 DEGREES
	R3	3.7'	3.0'	17.7'						RQD = 83% GOOD
									1	MODERATELY WEATHERED, HIGHLY FRACTURED FROM 19.6'-21.5'
	R4	3.8'	3.8'	21.5'						RQD = 45% POOR WEAKLY FOLIATED AT 60-80 DEGREES
										STEEP ANGLE FRACTURES, IRON OXIDE STAINED
	R5	2.2'	3.0'	23.7'						RQD = 67% FAIR
										IRON OXIDE STAINING
									1	MODERATE TO STEEP FRACTURE ANGLES
										AT 40. 70 AND 90 DEGREES
	R6	4.5'	4.5'	28.2'						RQD = 37% POOR
										VERY CLOSELY SPACED HIGH ANGLE FRACTURES AT 70 DEGREES
	R7	2.0'	2.0'	30.2'						RQD = 30% POOR
										STEEP ANGLE FRACTURES AT 70-80 DEGREES
									-	
	R8	3.5'	3.5'	33.7'					-	RQD = 71% FAIR
									-	
									-	FRACTURES AND FOUATION AT 60-70 DEGREES
									-	
	R9	5.0'	5.0'	38 7'						ROD = 72% FAIR
		0.0	0.0						40.0'	
o		1	1							
SAMPLI	ES:			SOIL C	LASSI	-IED B	<i>(</i> :		REMAR	KS:
										WATER INTRODUCED DURING DRILLING.
D = SPL	IT SPC	ON			DRI	LER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE	_	Х	SOI		I VISL			APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE		LABORATORY TEST					AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T17			



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

NW

SS

NQ

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

## **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T17					
SHEET:	2 OF 2					
PROJECT NO .:	10-0014.3					
DATE START:	11/11/2013					
DATE FINISH:	11/11/2013					
ELEVATION:	1578' ±					
SWC REP .:	PJO					
WATER LEVEL INFORMATION						

WATER AT 4.0' ON 11/11/2013

WATER AT 0.8 ON 11/19/201
---------------------------

CASING		SAMPLE SAMPLER BLOWS PER 6"			PER 6"					
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R10	4.0'	4.8'	42.7'						GRAY INTERBEDDED PELITIC MICA SCHIST AND METASILTSTONE RQD= 78% GOOD MODERATELY HARD, SLIGHTLY WEATHERED CONTAINS THIN CALCITE VEINS FRACTURES AND FOLIATION AT 60-70 DEGREES
	R11	5.0'	4.3'	47.7'						RQD = 50% POOR / FAIR HIGH ANGLE FRACTURES AT 60-90 DEGREES FAINT IRON OXIDE STAINING ON FRACTURE SURFACES
	R12	5.0'	4.3'	52.7'					55 0'	RQD = 78% GOOD
										BOTTOM OF EXPLORATION 55.0'
SAMPLE D = SPL C = 3" S U = 3.5"	SAMPLES:     SOIL CLASSIFIED BY:     F       D = SPLIT SPOON     DRILLER - VISUALLY       C = 3" SHELBY TUBE     X     SOIL TECH VISUALLY       U = 3.5" SHELBY TUBE     LABORATORY TEST						/: VISUAL I VISU DRY TE:	.LY JALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING. STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: <b>B-T17</b>



B-T17, R1 TO R4 (10.4'-21.5')



B-T17, R5 TO R8 & R13 (21.5'-33.7') and (52.7'-55.0')





### B-T17, R9 TO R12 (33.7'-52.7')

10-0014.3- Realized	6-717	B-TI7		
Binghiam, ME	- 1	R9 (33.7-38.7) R=4.0'	R13 (52.7-55')	R= B-T.17
	Ŗ	(11 (42.7-47.7) R=4.3'	33.7'	(R9) 38.7 (R10) 42.7'
Charles 1	R	12 (47.7-52.7) R= 4.3'	42.7'	(R-11) 47.7' (R-12) 52.7'
				- d - a - a - a - b
	the poor uncoment	and the second	1	- and
		and the second second		



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

## **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T18						
SHEET:	1 OF 2						
PROJECT NO .:	10-0014.3						
DATE START:	11/11/2013						
DATE FINISH:	11/12/2013						
ELEVATION:	1586' ±						
SWC REP.:	PJO						

WATER LEVEL INFORMATION

WATER AT 3.5' ON 11/12/2013

WATER AT 1.8' ON 11/19/2013

CASING		SAN	<b>IPLE</b>		SAMPLER BLOWS PER 6"			PER 6"				
PER	NO.	PEN.	REC.	DEPTH	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA		
FOOT				@ BOT		0.12	12 10	10 21	1.0'			
	1D	24"	12"	2 0'	1	wон	2	18	2.0'	BROWN GRAVELLY SUITY SAND -MEDIUM DENSE-		
•		24	12	2.0	1	W 0 11	2	10	2.0			
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE		
										MEDIUM TO MODERATELY HARD, SLIGHTLY WEATHERED, FRACTURES		
	R1	3.4'	3.0'	5.9'						RQD = 60% FAIR PARALLEL AND CROSS CUT STEEP ANGLE		
										FOLIATION AT 10, 60, 80 AND 90 DEGREES		
	R2	1.8'	2.2'	7.7'						RQD = 38% POOR		
	D3	2.0'	1 3'	0.7'								
	КJ	2.0	1.5	9.7						RQD = 25% VERT FOOR / FOOR AT 00-90 DEGREES		
	R4	2.3'	2.8'	12.0'						RQD = 15% VERY POOR		
		-										
										BECOMING LESS FRACTURED		
										STEEP ANGLE FRACTURES AND CRACKS AT 70-80 DEGREES		
										CONTAINS THIN QUARTZ VEINS		
	R5	5.0'	4.8'	17.0'						RQD = 76% GOOD		
										SHALLOW TO STEEP ANGLE FRACTURES		
										AT 10, 70 AND 80 DEGREES		
	R6	5.0'	5.0'	22.0'						RQD = 46% POOR		
	D7	E 0'	2.6'	27.0'								
		5.0	3.0	27.0						MODERATE TO STEEP ANGLE FRACTURES		
										AT 30, 45 AND 70-80 DEGREES		
	R8	3.6'	4.6'	30.6'						RQD = 92% EXCELLENT		
	D0	2 0'	1.01	21 5'								
	R9	3.9	4.3	34.5						RQD = 78% GOOD		
										HIGHLY FRACTURED AND WEATHERED		
										FROM 37.0' TO 37.8'		
	R10	4.3'	4.0'	38.8'						RQD = 52% FAIR		
									40.0'			
SAMPLE	ES:			SOIL C	LASSI	FIED BY	<b>'</b> :		REMAR	RKS:		
										WATER INTRODUCED DURING DRILLING.		
D = SPL	IT SPC	ON			DRI	LLER - `	VISUAL	LY		STRATIFICATION LINES REPRESENT THE ( )		
C = 3" S	HELBY	TUBE	-	Х	SOI	L TECH		JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES		
U = 3.5"	SHELE	SYIUB	E		LAE	SORATC	RYIE	51	I	AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T18		



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

## **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T18						
SHEET:	2 OF 2						
PROJECT NO.:	10-0014.3						
DATE START:	11/11/2013						
DATE FINISH:	11/12/2013						
ELEVATION:	1586' ±						
SWC REP.:	PJO						

WATE

WATER AT 3.5'	ON 11/12/2013

WATER AT 1.8' ON 11/19/2013

CASING BLOWS		SAM	IPLE		SAMF	PLER BI	LOWS P	'ER 6"		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R11 R12 R13 R14	2.5' 0.6' 4.6' 2.0'	2.5' 0.6' 4.4' 1.8'	41.3' 41.9' 46.5' 48.5'						RQD = 45% POOR RQD = 67% FAIR GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE MODERATELY HARD, SLIGHTLY WEATHERED, FRACTURES CROSS CUT AND PARALLEL STEEP ANGLED RQD = 55% FAIR FOLIATION AT 10, 60, 80 AND 90 DEGREES RQD = 45% POOR NUMEROUS FRACTURES PARALLEL STEEP ANGLED FOLIATION AT 60-90 DEGREES POD 07% POOR
	R15	3.3	3.6	51.8						BECOMING LESS FRACTURED
										BOTTOM OF EXPLORATION AT 55.4'
SAMPLES:     SOIL CLASSIFIED BY:       D = SPLIT SPOON     DRILLER - VISUALLY       C = 3" SHELBY TUBE     X       U = 3.5" SHELBY TUBE     LABORATORY TEST				(: VISUAL I VISU DRY TE:	LY JALLY ST	REMAR	WKS:         WATER INTRODUCED DURING DRILLING.         STRATIFICATION LINES REPRESENT THE         APPROXIMATE BOUNDARY BETWEEN SOIL TYPES         AND THE TRANSITION MAY BE GRADUAL.         BORING NO.:			



B-T18, R1 TO R5 (2.5'-22.0')

10-0014.3 RI(25-5.9') R-3.0' B-T78 Reed & Reed R6(17-22)R5' (P) 5.9% R2 (5.9'-7.7) R=2.2' RZ Birghon, ME 7.7' (23) R3 (7.7- 9.7) R= 1.3' RY R4 (9.7-12.0) R-2.8 R5 (12. 17.0) R.H.S'

B-T18, R7 TO R10 (22.0'-38.8')





BLUE SKY WEST WIND POWER PROJECT BINGHAM, MAYFIELD TOWNSHIP & KINGSBURY PLANTATION, MAINE PROJECT # 10-0014.3

#### B-T18, R11 TO R16 (38.8'-55.4')

Doula			- 1	
eed 2 Reed	6-718	B-TI8		
Bingham, Me		KII (38.8-41.3) R= 2.5'	R15(48.5'-51.8') R=3.5'	
		KIZ (41.3-41.9') R=0.6'	R16 (51.8 - 55.4') K=3.6	The second
1. Brites		R13 (41.9'-46.5') R=4.4'	1	
	-	RI4 (46.5 - 48.5 ) Rº T.O	Am 7 A 12	× 1, 2 × 1 × 1, 3
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.4.4.4.4	Constant of the second		and a
2 42		Current	15	1
S Charles		NIS P	-	Call 1
A LEADER		16.1	pre "	100
	- AL	the state of the s	17 p	
THE THE	A DECEMBER OF THE OWNER	The second se	and the second se	



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

CORE BARREL:

## **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T19
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/12/2013
DATE FINISH:	11/13/2013
ELEVATION:	1602' ±
SWC REP.:	PJO
R LEVEL INFOR	MATION

0110 IXEI	
WATER LEVEL INFO	RMA

WATER AT 17.0' ON 11/13/2013

WATER AT 17.7' ON 11/19/2013

CASING BLOWS		SAN	<b>IPLE</b>		SAM	PLER BI	LOWS F	PER 6"	DEDTU	CTDATA & TEST DATA	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA	
NW				0 - 0 -					1.0'	FOREST DUFF / BROWN SANDY SILT ~LOOSE~	
	1D	24"	13"	2.0'	3	2	4	4		BROWN SAND AND SILT, SOME GRAVEL	
									3.0'	WITH COBBLES (GLACIAL TILL) ~LOOSE~	
•											
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE	
										GEIGHTET WEATHERED, MODERATEET HARD TO HARD	
	R1	4.6'	4.4'	8.3'						RQD = 70% FAIR	
										STEED ANGLE ERACTURES PARALLEL FOLIATION AT 75-85 DEGREES	
	R2	4.4'	4.2'	12.7'						RQD = 73% FAIR	
										SLIGHT IRON OXIDE STAINING ON FRACTURE SURFACES	
	50	0.71	0.51	45.41							
	R3	2.7	2.5	15.4						RQD = 82% GOOD	
	R4	3.6'	3.9'	19.0'						RQD = 65% FAIR	
										STEEP ANGLE FRACTURES PARALLEL FOLIATION AT 75-85 DEGREES	
	R5	3.6'	3.5'	22.6'						ROD = 57% FAIR	
		0.0	0.0								
										CLOSELY SPACED STEEP ANGLE TO VERTICAL FRACTURES	
	R6	2.7'	2.8'	25.3'						RQD = 0% VERY POOR	
	R7	3.3'	3.3'	28.6'						RQD = 68% FAIR	
										SLIGHT IRON OXIDE STAINING ON FRACTURE SURFACES	
	R8	4 8'	4 7'	33.4'						ROD = 54% FAIR	
	NO	4.0		00.4							
	R9	3.5'	3.5'	36.9'						RQD = 67% FAIR	
									40.0'	FROM 38.9' TO 40.7'	
SAMDU	=0.	L	1	5011 0			/.	1		Kő.	
	_0.			50iL 0		ים סבי				WATER INTRODUCED DURING DRILLING.	
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE ()	
C = 3" S	HELBY	TUBE	_	Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES	
U = 3.5" SHELBY TUBE			LABORATORY TEST					AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T19			



BLUE SKY WEST WIND POWER PROJECT

# **BORING LOG**

BORING NO .:	B-T19					
SHEET:	2 OF 2					
PROJECT NO .:	10-0014.3					
DATE START:	11/12/2013					
DATE FINISH:	11/13/2013					
ELEVATION:	1602' ±					
SWC REP.:	PJO					
R LEVEL INFORMATION						

REED & REE	D, INC.				DATE FINISH:	11/13
BINGHAM, M	IAINE		160			
MAINE TEST	BORINGS		DRILLER:	BRAD ENOS	ELEVATION.	100
TYPE	SIZE I.D.	HAMMER WT	HAMMER FALL		SWC REP.:	P.
NW	3"	140 LBS.	30"		WATER LEVEL INFOR	MATION
SS	1 3/8"	140 LBS.	30"		WATER AT 17.0' ON 11.	/13/2013
NQ	2"				WATER AT 17.7' ON 11	/19/2013

CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS		SAN	<b>IPLE</b>		SAM	PLER BI	LOWS P	PER 6"	DEPTH	STRATA & TEST DATA	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEI III		
	R10	3.8'	3.8'	40.7'					-	RQD = 45% POOR	
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE SLIGHTLY WEATHERED. MODERATELY HARD TO HARD	
	R11	3.3'	3.3'	44.0'						RQD = 52% FAIR	
	R12	3.0'	3.0'	47.0'						RQD = 76% GOOD	
										PRIMARY FRACTURES AT 75-85 DEGREES	
	R13	4.7'	4.7'	51.7'						RQD = 83% GOOD	
									-		
	R14	3.3'	3.3'	55.0'					55.0'	RQD = 37% POOR	
										BOTTOM OF EXPLORATION AT 53.0	
									-		
									-		
									-		
									-		
									-		
									-		
									-		
SAMPL	=S·	1	1	SOIL C				1	REMAR	kë.	
	_0.									WATER INTRODUCED DURING DRILLING.	
D = SPL	IT SPC			V	DRI	LLER -		LY		STRATIFICATION LINES REPRESENT THE	
U = 3.5"	SHELE	BY TUB	E		LAB		DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T19	



#### B-T19, R1 TO R4 (3.7'-19.0')

#10-0014.3	1 The	a Date in the	
Bingham, ME Illulis	B-117 R1 (37-85) R=42' R2 (83'-27) R=42'	3.7' (1) 8.3' (12)	B-T/9 BS
11	R3 (127-154') R-25' R4 (154-190') R-39'	121/10	12.7 115.4 140
5. Tor			
a contraction	CONTRACTOR DE LA CONTRACTOR		
-	AT	SIR S	0
a strange		1.11	
1			19 K 480

B-T19, R5 TO R9 (19.0'-36.9')

22			
# 10-0014.3 Read is Read Brighan H/12/13	B-TM R5 (19-22.6) R=3.5' R4 (226-253) R= 2.8' R7 (253-281) R	B-TIA 14 (B) 226 (B) Court (B) 253 (B)	
A	R8 (28.6 - 33.4) R= 9.8' R9 (33.4 - 26.9') R=3.5'	286 (m) 234 (R) - 36	324
			MA
THEFT	CROCK CONTRACTOR	HAR	IN IST



#### B-T19, R10 TO R14 (36.9'-55.0')





## **BORING LOG**

BORING NO .:	B-T20
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/13/2013
DATE FINISH:	11/13/2013
ELEVATION:	1506' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 3.2' ON 11/13/2013

WATER AT GROUND SURFACE ON 11/19/2013

PROJECT:	BLUE SKY WE	3LUE SKY WEST WIND POWER PROJECT							
CLIENT :	REED & REED	REED & REED, INC.							
LOCATION:	BINGHAM, MA	INE							
DRILLING FIRM:	MAINE TEST E	BORINGS		DRILLER:	BRAD ENOS				
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL					
CASING:	SSA / NW	3"	140 LBS.	30"					
SAMPLER:	SS	1 3/8"	140 LBS.	30"	_				
CORE BARREL:	NQ	2"			_				

CASING BLOWS			SAN	IPLE		SAM	PLER BI	LOWS F	PER 6"		
P	ER	NO.	PEN.	REC.	DEPTH	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
N	W				@ DUI						BROWN SILT, SOME SAND WITH ORGANICS
	1	1D	24"	13"	2.0'	1	wон	2	8	2.0'	~VERY LOOSE~
										-	
											BROWN SAND AND SILT, SOME GRAVEL
			0.4"	47"	7.01	2	4	20	40		
		2D	24	17*	7.0	3	4	30	46	-	~MEDIUM DENSE~
		3D	24"	19"	10.0'	4	6	10	16		~MEDIUM DENSE~
		4D	12"	10"	11.0'	45	50			1	~VERY DENSE~
										-	
		50	10"	10"	10.7		40	<u> </u>	F0/0"		
		50	19	19	10.7	23	49	60	50/2		
										19.0'	
											GRAY-BROWN SAND AND SILT SOME GRAVEL WITH COBBLES
		6D	3"	3"	20.3'	75/3"				20.7'	(GLACIAL TILL) ~VERY DENSE~
											INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE
										-	SLIGHT TO MODERATELY WEATHERED, MEDIUM TO MODERATELY HARD
		R1	2.6'	2.6'	23.6'					-	RQD = 52% FAIR IRON OXIDE STAINED, MODERATE TO STEEP
											FRACTURE ANGLES AT 30-45 AND 70-80 DEGREES
		R2	2.4	2.4	26.0					-	RQD = 42% POOR
										-	
		R3	3.0'	3.0'	29.0'						RQD = 78% GOOD
											HIGHLY FRACTURED
		R4	1.8'	1.8'	30.8'					1	RQD = 16% VERY POOR
										]	SLIGHTLY WEATHERED
										-	MODERATELY HARD TO HARD
		R5	2.5'	2.4'	33.3'						RQD = 68% GOOD
-		DO		4 4	25.0						
		R6	2.5	1.4	35.8					-	RQD = 94% EXCELLENT
		R7	1 9'	2 4'	37 7'					-	
			1.0	2.1	01.1					-	HIGHLY FRACTURED
		R8	1.4'	1.3'	39.1'					40.0'	RQD = 0% VERY POOR
S 41		=e.			SOIL C			/.			
SA		_3.			SULC	/LA331	רובט מו	ı.		REIVIAR	
D =	SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C =	: 3" S	HELBY	TUBE		Х	SOI	L TECH	I VISU	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U =	3.5"	SHELE	BY TUB	E		LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T20



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

SSA / NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

# **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T20
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/13/2013
DATE FINISH:	11/13/2013
ELEVATION:	1506' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 3.2' ON 11/13/2013

WATER AT GROUND SURFACE ON 11/19/2013

CASING		SAN	IPLE		SAM	PLER BI	LOWS P	ER 6"		
PER	NO.	PEN.	REC.	DEPTH	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
FOUT	R9	2.3'	2.0'	41.4'						INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE RQD = 55% FAIR SLIGHTLY WEATHERED, MODERATELY HARD FRACTURE SURFACES IRON OXIDE STAINED
	R10	3.0'	2.9'	44.4'						RQD = 48% POOR MODERATE TO STEEP FRACTURE ANGLES AT 20-30 AND 75-85 DEGREES RQD = 74% FAIR
	R11	2.5'	2.5'	46.9'						
	R12	2.6'	2.6'	49.5'						RQD = 56% FAIR NEAR VERTICAL QUARTZ VEINS
	R13	2.1'	2.1'	51.6' 54.2'						RQD = 82% GOOD FRACTURE SURFACES IRON OXIDE STAINED ROD = 85% GOOD
	R15	0.8	0.0'	55.0'					55.0'	RQD = 0% VERY POOR
										BOTTOM OF EXPLORATION AT 55.0'
SAMPLES: SOIL CLASSIFIED BY: F D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE X SOIL TECH VISUALLY U = 3.5" SHELBY TUBE LABORATORY TEST						FIED BY LLER - T L TECH ORATC	/: VISUAL I VISU DRY TES	LY IALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING. STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T20



B-T20, R1 TO R7 (21.0'-37.7')



B-T20, R8 TO R12 (37.7'-55.0')





# **BORING LOG**

BORING NO .:	B-T21
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/5/2013
DATE FINISH:	11/5/2013
ELEVATION:	1398' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 6.2' ON 11/8/2013

WATER AT 8.0' ON 11/14/2013 CAVED AT 10.3'

PROJECT:	3LUE SKY WEST WIND POWER PROJECT									
CLIENT :	REED & REED	REED & REED, INC.								
LOCATION:	BINGHAM, MA	BINGHAM, MAINE								
DRILLING FIRM:	NORTHERN TEST BORINGS, INC. DRILLER: MIKE NADEAU									
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL						
CASING:	HW	4"	140 LBS.	30"						
SAMPLER:	SS	1 3/8"	140 LBS.	30"						
CORE BARREL:	NQ	2"	_		_					

CASING BLOWS	SAMPLE		SAMPLER BLOWS PER 6"					DEDTU	STDΑΤΑ 8 ΤΕST DΑΤΑ	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEFIN	STRATA & TEST DATA
HW									1.0'	FOREST DUFF
	1D	22"	18"	1.8'	12	32	48	50/4"	1.8'	BROWN SAND AND SILT WITH BEDROCK FRAGMENTS (GLACIAL TILL) ~DENSE~
	20	2"	4"	<u> </u>	50/2"					HIGHLY WEATHERED BEDROCK AND GLACIAL TILL GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE
		2		5.1	50/2	<u> </u>		<u> </u>	-	
	K I	2.0	0.9	0.0	<b> </b>	<u> </u>		<u> </u>	-	
							-			
							-			HIGHET WEATHERED, SOLT TO MEDIOW HARD
	R2	4.5'	0.7'	10.5'						
	R3	2.5'	0.0'	12.5'						RQD = 0% VERY POOR
										HIGHLY WEATHERED AND FRACTURED, SOFT TO MEDIUM HARD
▼	2Da	24"	14"	14.5'	22	30	43	36		~VERY DENSE~
	3D	16"	2"	16.3'	17	18	50/4"			
		<u> </u>				<u> </u>			17.0'	
									-	
		<u> </u>				<u> </u>				
	R/	4.5'	3.8'	21.5'					-	ROD - 31% POOR
	1.4	4.5	5.0	21.0			-			MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 35-50, 85 DEGREES
							-		-	
									1	SLIGHTLY TO MODERATELY WEATHERED, MEDIUM HARD TO HARD
	R5	5.1'	5.1'	26.6'						RQD = 82% GOOD
										VERTICAL FRACTURES (90 DEGREES)
		ļ				ļ			4	
	'	<u> </u>				<u> </u>				
	DC	5.01	5.01	24.01					-	
	Ro	5.2	5.2	31.8						RQD = 88% GOOD
									-	
							-			LOW ANGLE TO HIGH ANGLE FRACTURES: 25-35. 75-85 DEGREES
									1	
	R7	5.0'	5.0'	36.8'						RQD = 82% GOOD
		<u> </u>				<u> </u>			-	SLIGHT IRON OXIDE STAINING ON FRACTURES
		<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	40.0'	
SAMPLES: SOIL CLASSIFIED BY:					FIED BY	Y:		REMAR	KS: 2Da SAMPLE COLLECTED 5' FROM ORIGINAL BORING	
D = SPI	IT SPC	ON			DRII	IFR -	VISLIAI	IY		STRATIFICATION LINES REPRESENT THE
C = 3" S	SHELBY	' TUBF		Х	SOIL		1 VISI	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5"	SHELE	3Y TUB	E		LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T21



**BINGHAM, MAINE** 

TYPE

НW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T21
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/5/2013
DATE FINISH:	11/5/2013
ELEVATION:	1398' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 6.2' ON 11/8/2013	
	-

WATER AT 8.0' ON 11/14/2013 CAVED AT 10.3'

CASING BLOWS	NG SAMPLE S			SAMF	PLER BL	LOWS P	'ER 6	DEPTH		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R8	4.5'	4.5'	41.3'						GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE RQD = 90% GOOD / EXCELLENT
										LOW ANGLE TO VERTICAL FRACTURES: 25-30, 85-90 DEGREES HIGHLY FRACTURED 44.0'-45.6' RQD= 64% FAIR LOW ANGLE TO HIGH ANGLE FRACTURES: 15, 65 DEGREES
	R9	4.5'	4.5'	45.8'						
	R10	2.5'	2.5'	48.3'						RQD = 92% EXCELLENT LOW ANGLE TO HIGH ANGLE FRACTURES: 30, 60-75 DEGREES
	R11	4.0'	4.0'	52.3'						RQD = 88% GOOD LOW ANGLE TO VERTICAL FRACTURES: 30-75,90 DEGREES
	R12	2.7'	2.7'	55.0'					55.0'	RQD = 63% FAIR
										BOTTOM OF EXPLORATION AT 55.0'
SAMPLES: SOIL CLASSIFIED BY: I D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE X SOIL TECH VISUALLY U = 3.5" SHELBY TUBE LABORATORY TEST						EED BY LER - ` L TECH ORATC	': VISUAL I VISL DRY TE:	.LY JALLY ST	REMAR	STRATIFICATION LINES REPRESENT THE       O         APPROXIMATE BOUNDARY BETWEEN SOIL TYPES       BORING NO.:         AND THE TRANSITION MAY BE GRADUAL.       BORING NO.:



#### B-T21, R1 TO R6 (4.0'-31.8')

He DOIN 3. Red & Bach Frayhan, Me NSIS	B-T=1 RI (4-6') R=0.9' R2 (b-125) R=0.9' R5 (105-125) R=02' eretes Therwood, rock R4 (17-315) R=30 R5 (215-126) R=53 R1 (144-310) R=53' R1 (144-310) R=53'	B-T21 1 (P) 6 (P) 15 (P) 11 (P) (P) 25 (P) (Call (P) 264 (P) (Call	

B-T21, R7 TO R10 (31.8'-48.3')





#### B-T21, R11 TO R12 (48.3'-55.0')





**BINGHAM, MAINE** 

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

CORE BARREL:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T22
SHEET:	1 OF 2
PROJECT NO.:	10-0014.3
DATE START:	11/5/2013
DATE FINISH:	11/5/2013
ELEVATION:	1447' ±
SWC REP.:	PJO
R LEVEL INFOR	RMATION

WATE

WATER AT 14.6' ON 11/5/2013

WATER AT 14.0' ON 11/14/2013

CASING BLOWS	CASING SAMPLE SAMPLE				SAM	PLER BI	LOWS P	PER 6"		
PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	SIRAIA & IESI DATA
HW				@ DO1						FOREST DUFF / BROWN SANDY SILT
	1D	15"	8"	1.2'	3	2	50/3"		1.2	WITH ORGANICS ~LOOSE~
•					-				-	ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 3.0'
									-	
									-	GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE
	D1	3 3'	2 2'	6 3'					-	MODERATELT WEATHERED, MODERATELT HARD
		0.0	0.0	0.5						HIGHLY FRACTURED
					-				-	HIGH ANGLE FRACTURES: 85-90 DEGREES
										IRON OXIDE STAINING ON FRACTURES
	R2	5.2'	5.2'	11.5'						RQD = 0% VERY POOR
									_	
	R3	1.6'	1.6'	13.1'						RQD = 0% VERY POOR
										LOW ANGLE TO HIGH ANGLE FRACTURES: 30, 85-90 DEGREES
				(						
	R4	3.5	3.0	16.6	-				-	RQD = 0% VERY POOR
									-	
	R5	3.0'	2 2'	19.6'					-	ROD = 11% VERY POOR
		0.0								
										LOW ANGLE TO HIGH ANGLE FRACTURES: 30, 85-90 DEGREES
	R6	3.5'	4.0'	23.1'						RQD = 85% GOOD
										SEVERELY WEATHERED AND FRACTURED 23.1'-24.0'
									-	
	R7	3.9'	3.9'	27.0'					-	RQD = 41% FAIR
					-				-	
									-	LOW ANGLE TO VERTICAL ERACTURES: 20-30, 90 DEGREES
										HIGHLY WEATHERED ZONE / SOFT FROM 30 2' TO 32 2 '
									1	
	R8	5.2'	3.3'	32.2'					1	RQD = 89% GOOD
									1	SLIGHTLY WEATHERED, MODERATELY HARD TO HARD
									]	HIGH ANGLE FRACTURES: 80-90 DEGREES
	R9	3.0'	2.2'	35.2'						RQD = 78% GOOD
									-	
									40.0	SEVERELY WEATHERED AND FRACTURED 38.5'-40.0'
SAMPLE	ES:			SOIL C	LASSI	FIED B	Y:		REMAR	RKS:
										$\frown$
D = SPL					DRI	LLER -				
$C = 3^{\circ} S$			F	Ă			1 VISU	ALLY ST		
0 - 0.0			<u> </u>						I	BORING NO.: B-T22



# **BORING LOG**

BORING NO .:	B-T22					
SHEET:	2 OF 2					
PROJECT NO.:	10-0014.3					
DATE START:	11/5/2013					
DATE FINISH:	11/5/2013					
ELEVATION:	1447' ±					
SWC REP .:	PJO					
WATER LEVEL INFORMATION						

WATER AT 14.6' ON 11/5/2013 WATER AT 14.0' ON 11/14/2013

PROJECT:	BLUE SKY WE	ST WIND PC	WER PROJECT	Г		
CLIENT :	REED & REED, INC.					
LOCATION:	BINGHAM, MAINE					
DRILLING FIRM:	NORTHERN TEST BORINGS, INC.		DRILLER:	MIKE NADEAU	_	
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL		
CASING:	HW	4"	140 LBS.	30"		
SAMPLER:	SS	1 3/8"	140 LBS.	30"		
CORE BARREL:	NQ	2"				

CASING SAMPLE SAMPLER BLOWS PER 6" BLOWS **STRATA & TEST DATA** DEPTH PER DEPTH NO. PEN. REC. 0-6 6-12 12-18 18-24 @ BOT FOOT R10 4.5' RQD = 35% POOR 5.0' 40.2' GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE BECOMING.... MODERATELY WEATHERED AND MODERATELY HARD LOW ANGLE TO VERTICAL FRACTURES: 20-40, 85 DEGREES R11 5.0' 3.8' 45.2' RQD = 52% FAIR ....LIGHT GRAY METASANDSTONE R12 2.0' 1.8' 47.2' RQD = 0% VERY POOR MODERATELY TO SEVERELY WEATHERED 48.5' RQD = 0% VERY POOR HIGHLY FRACTURED R13 1.3' 0.3' R14 0.3' 0.3' 48.8' RQD = 0% VERY POOR LOW ANGLE TO HIGH ANGLE FRACTURES: 20-30, 75-85 DEGREES R15 3.0' 2.5' 51.8 RQD = 36% POOR MODERATELY TO SEVERELY WEATHERED HIGHLY FRACTURED R16 2.0' 2.0' 53.8' RQD = 53% FAIR R17 54.2' RQD = 0% VERY POOR 0.4' 0.2' R18 0.8' 55.0' 55.0' RQD = 63% FAIR 0.8' BOTTOM OF EXPLORATION AT 55.0' SAMPLES: SOIL CLASSIFIED BY: REMARKS: D = SPLIT SPOON DRILLER - VISUALLY STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE Х SOIL TECH. - VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO .: B-T22



B-T22, R1 TO R6 (3.0'-22.4')



B-T22, R6 TO R11 (22.4'-45.2')




#### B-T22, R12 TO R18 (45.2'-55.0')





## **BORING LOG**

BORING NO.:	B-T23						
SHEET:	1 OF 2						
PROJECT NO .:	10-0014.3						
DATE START:	11/6/2013						
DATE FINISH:	11/6/2013						
ELEVATION:	1550' ±						
SWC REP.:	PJO						
R LEVEL INFORMATION							

CLIENT ::       DATE FINISH:       11/6/2013         LOCATION::       BINGHAM, MAINE         DILLING FIRM:       MAMME       DILLING FIRM:       MAMME         DILLING FIRM:       MAMME       DILLING FIRM:       MAME       DATE FINISH:       11/6/2013         CORE MAREL:       DATE FINISH:       11/6/2013         SAMPLE:       S	PROJE	CT:		BLUE	SKY WE	EST WI	ND PO	WER PI	ROJEC	т	DATE START:	11/6/2013			
LOCATION:         BINCHAM, MAINE           DRILLING FIRM:         NORTHERN TEST BORINGS, INC.         DRILLER, MIKE NADEAU         SWC REP:         PJO           TYPE         SIZE ID         HAMMER VIT. HAMMER FALL         SWC REP:         PJO           CASING:         HW         4'         140 LBS.         30'         WATER LEVEL INFORMATION           CASING:         NO         2'         WATER LEVEL INFORMATION         WATER AT 21' ON 11/14/2013           CORE BARREL:         NO         2'         MAREAR         SAMPLER:         MO         2'           CASING:         SAMPLER BLOWS PER 6'         DEPTH         DARK BROWN SANDY SUT WITH CORGANICS         MATER LEVEL WEATHER DAWS SET DUFF         PLOT         DARK BROWN SANDY SUT WITH CORGANICS           CORE DARREL:         NO         PEN         SAMPLER BLOWS PER 6'         DEPTH         DARK BROWN SANDY SUT WITH CORGANICS           MAIL         C         C         C         C         C         C         C           MW         -         C         C         C         C         C         C           MICON         NO         NO         SAMPLER:         C         C         C         C           MICON         NO         C         C	CLIENT	:		REED	& REED	), INC.					DATE FINISH:	11/6/2013			
DRILLING FIRM:         NORTHERN TEST BORINGS, INC.         DRILLER:         MIKE NADEAU         SWC REP.         DIO           CASING:         HW         4'         140 LBS.         30'         WATER AT 14.7 ON 1108/2013           SAMPLER:         SS         1.38'         140 LBS.         30'         WATER AT 14.7 ON 1108/2013           SAMPLER:         SS         SAMPLER BLOWS PER 6'         DEPTH         WATER AT 21' ON 11/14/2013           CORE BARREL:         NO         2'         PO         STRATA & TEST DATA           POO         NO         PEN         RCC.         DEPTH         STRATA & TEST DATA           POO         NO         PEN         RCC.         DEPTH         STRATA & TEST DATA           POO         NO         PEN         RCC.         DARK BROWN SANDY SUT WITH ORGANICS           V         V         V         V         V         PO           V         V         V         V         V         POREST DUFF           VIN         V         V         V         POREST DUFF         VINT HORGANICS           VIN         V         V         V         VINT PORTAL & TEST DATA         VINT PORTAL & TEST DATA           VIND         VINT PORTAL & TEST DATA <td< td=""><td>LOCATI</td><td>ON:</td><td></td><td>BING</td><td>IAM, MA</td><td>INE</td><td></td><td></td><td></td><td></td><td colspan="5"></td></td<>	LOCATI	ON:		BING	IAM, MA	INE									
TYPE         SIZE 10.         HAMMER NT. HAMMER FALL         W         W         PUO           CASING:         HW         4'         140 LBS.         30'         WATER LEVEL INFORMATION           CORE BARREL:         NQ         2'         WATER AT 147 ON 11/6/2013         WATER AT 147 ON 11/6/2013           CORE BARREL:         NQ         2'         WATER AT 147 ON 11/6/2013         WATER AT 147 ON 11/6/2013           CASING:         NQ         2'         SAMPLER         SAMPLER BLOWS PERF         DEPTH         STRATA & TEST DATA           PERR         NO         PERN         RCC         0EPTH         STRATA & TEST DATA           PERR         NO         PERN         RCC         0EPTH         STRATA & TEST DATA           PERN         NO         PERN         RCC         0EPTH         STRATA & TEST DATA           PERN         NO         PERN         RCC         0EPTH         STRATA & TEST DATA           PERN         NO         PERN         RCC         0EPTH         STRATA & TEST DATA           PERN         NO         PERNENONS SAUCS STATA & TEST DATA         STRATA & TEST DATA           PERNENONS         NO         NO         STRATA & TEST DATA           MODERATELY MARD         NO	DRILLIN	IG FIRI	M:	NORT	HERN T	EST B	ORING	S, INC.		C	DRILLER: MIKE NADEAU	1550 ±			
CASING:       HW       4*       140 LBS       30*       WATER LEVEL INFORMATION WATER AT 14.7 ON 11/62013         SAMPLER:       NQ       2*       WATER AT 14.7 ON 11/62013       WATER AT 14.7 ON 11/62013         CORE BARREL:       NQ       2*       WATER AT 14.7 ON 11/62013       WATER AT 14.7 ON 11/62013         CORE BARREL:       NQ       PPIN       Ref.       SAMPLER       SAMPLER       DEPTH       STRATA & TEST DATA         PERT       NO       PEN       Ref.       600°       6412       12.18       14.84       DEPTH       FOREST DUFF         PMW       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <t< td=""><td colspan="8">TYPE SIZE I.D. HAMMER WT. I</td><td>ER WT</td><td>. HAMM</td><td>ER FALL SWC REP.:</td><td>PJO</td></t<>	TYPE SIZE I.D. HAMMER WT. I								ER WT	. HAMM	ER FALL SWC REP.:	PJO			
SAMPLER:         SS         1 3/8 ² 1 40 LBS.         30 ⁻ WATER AT 14.7 ON 11/6/2013           CORE BARREL:         NO         2         WATER AT 14.7 ON 11/6/2013         WATER AT 14.7 ON 11/6/2013           CASING PERF.         NO         PER.         SAMPLER BLOWS PER et I         Depth         STRATA & TEST DATA           PERF.         NO         PER.         SAMPLER BLOWS PER et I         Depth         Forest DUFF           PERF.         NO         PERF.         SAMPLER BLOWS PER et I         Depth         Forest DUFF           PERF.         NO         PERF.         SAMPLER BLOWS PER et I         Depth         Forest DUFF           PERF.         NO         PERF.         STRATA & TEST DATA         FOREST DUFF           PERF.         Contains WEATHERED, IRON OXIDES TAMPERADANDSTONE         HIGHAY FRACTURED, SEVERENT WEATHERED AND SOFT BECOMING           QUIL         QUIL         QUIL         QUIL         QUIL         QUIL         QUIL         QUIL           RIGH         RI         4.1         Z.0         G.1'         QUIL         QUIL         QUIL         QUIL           RIGH         RIGH         RIGH         RIGH         RIGH         RIGH         RIGH         RIGH           RIGH	CASING	G:		Н	W	4	4"	140	LBS.	3	30" WATER LEVEL INFORM	IATION			
CORE BARREL:         NQ         2'         WATER AT 21' ON 11/14/2013           CORMINATION         NO         PEN         REC         DEPTH         Strata & test Data           NO         PEN         REC         DEPTH         POREST DUFF           NO         L         L         L         L         L           NO         L         L         L         L         L         L           NO         L         L         L         L         L         L           NO         L         L         L         L         L         L         L           NO         L         L         L         L         L         L         L         L           NO         L         L         L         L         L         L         L         L <thl< th="">           NO</thl<>	SAMPL	ER:		5	SS	1 3/8"		140 LBS.		3	30" WATER AT 14.7' ON 11/	6/2013			
CASHOC BLOWS         SAMPLE         SAMPLER BLOWS PER 6' 0 0         DEPTH         STRATA & TEST DATA           HW         0         PEN         PEC         0 6         6+12         12+16         18-24           HW         0         0         0         0         0         0         0           1         0         0         0         0         0         0         0         0           1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td colspan="3">CORE BARREL: NQ</td> <td>2</td> <td>2"</td> <td></td> <td></td> <td></td> <td>WATER AT 21' ON 11/1/</td> <td>4/2013</td>	CORE BARREL: NQ			2	2"				WATER AT 21' ON 11/1/	4/2013					
CASING PPER         Image: Image															
No.         PEN         REC.         DEPTH BOD         0.6         6.12         12.18         18.24           W         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I <thi< th="">         I         II         <th< td=""><td>CASING BLOWS</td><td></td><td>SA</td><td>MPLE</td><td colspan="4">SAMPLER BLOWS PER 6"</td><td>PER 6"</td><td></td><td></td><td></td></th<></thi<>	CASING BLOWS		SA	MPLE	SAMPLER BLOWS PER 6"				PER 6"						
FOOT       NO.       PER.       REC.       @ BOT       0.6       0.2       10.3       10.4         HW       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       <	PER	NO	DEN	DEO	DEPTH	0.0	0.40	12.19 19.24		DEPTH	STRATA & TEST DATA				
HW       C       C       C       C       C       C       C       C       FOREST DUFF         I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I	FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24						
V       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	HW										FOREST DUFF				
Image: Constraint of the constraint	•									2.1	DARK BROWN SANDY SILT WITH ORGANICS				
Image: Control in the contexponent in the control in the control in the control											DARK GRAY PELITIC SCHIST WITH ZONES OF GRAY METASA	NDSTONE			
Image: Contains Weathered , iron Oxide Stained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEINS           R1         4.1'         2.0'         6.1'         Image: Contains Weathered , iron Oxide Stained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEINS           R2         2.4'         8.5'         Image: Contains Weathered , iron Oxide Stained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEINS           R2         2.4'         8.5'         Image: Contains Weathered , iron Oxide Stained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEINS           R2         2.4'         8.5'         Image: Contained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEINS           R2         2.4'         8.5'         Image: Contained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEINS           R2         2.4'         8.5'         Image: Contained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEINS           R3         4.6'         13.1'         Image: Contained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEIN           R4         2.2'         2.2'         15.3'         Image: Contained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEIN           R4         2.2'         2.2'         15.3'         Image: Contained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEIN           R4         2.2'         2.2'         15.3'         Image: Contained AMPHibole CRYSTALS AND NARROW VERTICAL QUARTZ VEIN           R4										_	HIGHLY FRACTURED, SEVERELY WEATHERED AND SOFT BE	COMING			
Image: Constraint of the constraint											CONTAINS WEATHERED, IRON OXIDE STAINED AMPHIBOLE CR	YSTALS AND			
R1       4.1'       2.0'       6.1'       Image: Constraint of the cons											NARROW VERTICAL QUARTZ VEINS				
Image: Constraint of the constraint		R1	4.1'	2.0'	6.1'						RQD = 0% VERY POOR				
R2       2.4'       2.4'       8.5'											HIGH ANGLE FRACTURES: 75-90 DEGREES				
Image: Constraint of the constrant of the constraint of the constraint of the constraint of the c		R2	2.4'	2.4'	8.5'						RQD = 38% POOR				
Image:															
Image: Constraint of the constraint										-					
Image: Constraint of the synthesis of the synthesynthesis of the synthesis of the synthesis of the syn											LESS FRACTURED, MODERATELY WEATHERED AND MODER	ATELY HARD			
R3       4.6       4.6       13.1       Image: Constraint of the second sec		Do	4.01	4.01	40.41					-					
Image: Normal Sector         Image: No		R3	4.6	4.6	13.1						RQD = 64% FAIR				
R4       2.2       2.2       13.3		D4	2 2'	2.2'	15 2										
Image:		κ4	2.2	2.2	15.5					-	RQD = 12% FAIR				
Image: Constraint of the															
R5         4.6'         19.9'         Image: Construct of the construct of															
INC         INC         INC         INC         INC         INC           I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         <		R5	4 6'	4 6'	19.9'					-	ROD - 58% FAIR				
Image: Solution of the state of the sta		110	4.0	4.0	13.5						MODERATELY DIPPING TO HIGH ANGLE ERACTURES: 45, 75-8	5 DEGREES			
Image: Constraint of the										-		0 DEGREEG			
R6         3.6'         3.6'         23.5'         Image: Constraint of the symbolic constraint o															
Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None of the original system         Image: None of the original system       Image: None of the original system       Image: None original system		R6	3.6'	3.6'	23.5					-					
Image: Constraint of the constraint			0.0	0.0	2010					-	ROD = 74% FAIR				
Image: Constraint of the constraint															
R7       5.0'       28.5'       Image: Constraint of the second											LOW ANGLE TO HIGH ANGLE FRACTURES: 20. 70-85 DEG	REES			
R7       5.0'       5.0'       28.5'       Image: Constraint of the system				1				1		1		-			
GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE       SLIGHTLY WEATHERED, MODERATELY HARD TO HARD       SLIGHT IRON OXIDE STAINING ON FRACTURES		R7	5.0'	5.0'	28.5'					1	RQD = 88% GOOD				
SLIGHTLY WEATHERED, MODERATELY HARD TO HARD       SLIGHT IRON OXIDE STAINING ON FRACTURES											GRAY INTERBEDDED PELITIC SCHIST AND METASANDS	TONE			
SLIGHT IRON OXIDE STAINING ON FRACTURES	<u> </u>							1		1	SLIGHTLY WEATHERED, MODERATELY HARD TO HAI	RD			
										1	SLIGHT IRON OXIDE STAINING ON FRACTURES				

	R7	5.0'	5.0'	28.5'						RQD = 88% GOOD			
									1	GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE			
									1	SLIGHTLY WEATHERED, MODERATELY HARD TO HARD			
										SLIGHT IRON OXIDE STAINING ON FRACTURES			
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 50-65, 80 DEGREES			
	R8	5.0'	5.0'	33.5'						RQD = 84% GOOD			
	R9	4.4'	4.4'	37.9'						RQD = 88% GOOD			
									_	MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 55, 75-80 DEGREES			
									40.0'				
SAMPLES: SOIL CLASSIFIED BY:							Y:		REMAR	RKS:			
D = SPLIT SPOON C = 3" SHELBY TUBE			DRILLER - VISUALLY X SOIL TECH VISUALLY						STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T23				
U = 3.5" SHELBY TUBE			LABORATORY TEST										



**BINGHAM, MAINE** 

TYPE

НW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

## **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T23
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/6/2013
DATE FINISH:	11/6/2013
ELEVATION:	1550' ±
SWC REP.:	PJO
R LEVEL INFOF	RMATION

WATE

WATER AT 14.7' ON 11/6/2013 WATED AT 241 ON 44/44/2042

CORE E	BARREI	_:	Ν	IQ	2	2"				WATER AT 21' ON 11/14/2013	
CASING											
BLOWS	10	SAN	APLE	DEPTH	SAMF	PLER BI	12.18 18.24		DEPTH	STRATA & TEST DATA	
FOOT	NO.	PEN.	REC.	@ BOT	0-6	0-12	12-16	16-24			
	R10	4 0'	37'	41 9'					-	GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE	
	1110		0.1	11.0						SLIGHTLY WEATHERED, MODERATELY HARD TO HARD	
	R11	2.1'	2.4'	44.0'						RQD = 70% FAIR	
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 45, 75-80 DEGREES	
									-	SLIGHT PITTING ON CORE SURFACE 46.0-48.5 FT.	
	R12	5.0'	5.0'	49 0'					-	HIGH ANGLE FRACTORES 60-80 DEGREES	
	1112	0.0	0.0	40.0							
										FRACTURES IRON OXIDE STAINED	
										HIGH ANGLE FRACTURES	
	R13	3.8'	3.8'	52.8'						RQD = 74% FAIR	
	544	0.01	1.01	55.01					0		
	R14	2.2	1.8	55.0					55.0	RQD = 78% GOOD	
										BOTTOM OF EXPLORATION AT 55.0'	
					-				-		
	-										
					-				-		
									-		
									-		
									-		
									-		
									-		
SAMPLI	ES:			SOIL C	LASSIF	FIED BY	(:		REMAR	KS:	
יםפ – ח					ייסח		1/101101	1 Y			
C = 3" S	HELBY	TUBE		Х	SOI		VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES	
U = 3.5" SHELBY TUBE			AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T23								



B-T23, R1 TO R3 (4.1'-8.5')



B-T23, R3 TO R7 (8.5'-28.5')





B-T23, R8 TO R12 (28.5'-49.0')



B-T23, R13 TO R14 (49.0'-55.0')

Bingham Wind 10-0014.3 Boulders Gracial 743-495 -> 6/acial Trill
11/7/13 11/7/13 Cont (213) B-T25 (21) Cont



PROJECT:

CLIENT :

# **BORING LOG**

BORING NO .:	B-T24
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/7/2013
DATE FINISH:	11/7/2013
ELEVATION:	1516' ±
SWC REP.:	AAS

WATER LEVEL INFORMATION

WATER AT 7.7' ON 11/7/2013

LOCATION:	BINGHAM, MAIN	١E			
DRILLING FIRM:	NORTHERN TES	ST BORING	S, INC.	DRILLER:	MIKE NADEAU
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL	
CASING:	HW	4"	140 LBS.	30"	
SAMPLER:	SS	1 3/8"	140 LBS.	30"	
CORE BARREL:	NQ	2"	_		
			-		

BLUE SKY WEST WIND POWER PROJECT

BLOWS		SAN	<b>IPLE</b>		SAM	PLER B	LOWS F	PER 6"	DEDTU	ΟΤΡΑΤΑ 9 ΤΕΩΤ ΠΑΤΑ
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
HW									0.5	FOREST DUFF
	1D	24"	24"	2.0'	1	12	12	14		~MEDIUM DENSE~
										GRAY-BROWN SAND AND SILT, SOME GRAVEL
										WITH COBBLES AND BOULDERS (GLACIAL TILL)
									-	
	2D	24"	24"	7.0'	14	17	17	21		~DENSE ~
									8.0	
•	ЗD	2//"	24"	10.0'	1/	1/	17	24		
	50	27	24	10.0	14	14	17	27		
	4D	24"	24"	12.0'	17	18	21	27		
						-				
									-	GRAY GRAVELLY SANDY SILT WITH COBBLES
										(GLACIAL TILL)
	5D	24"	24"	17.0'	11	27	38	31		~ DENSE TO VERY DENSE~
	<b>CD</b>	20"	20"	04 7	4.4	45	25	F0/0"	-	
	6D	20"	20*	21.7	14	15	25	50/2"	-	
	7D	24"	24"	27.0'	19	21	27	35		
									-	
	8D	13"	13"	31.1'	17	39	50/1"		-	
									-	
									-	
		24"	24"	27.0'	10	27	21	54		
	30	24	24	51.0	12	21	21	54		
									-	
									40.0'	
SVND	=0.			5011 0	1 4 6 6 1		v.			Kč.
SAIVIPL	LJ.			SULU	-LHOOII	IED B				
D = SPI	IT SPC	ON			DRI	LLER -	VISUAI	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE		Х	SOI	L TECH	I VISU	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE				ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T24			



PROJECT:

# **BORING LOG**

BORING NO .:	B-T24
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/7/2013
DATE FINISH:	11/7/2013
ELEVATION:	1516' ±
SWC REP.:	AAS

WATER LEVEL INFORMATION

WATER AT 7.7' ON 11/7/2013

REED & REED, INC.										
BINGHAM, MA	BINGHAM, MAINE									
NORTHERN T	NORTHERN TEST BORINGS, INC. DRILLER: MIKE NADEAU									
TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL							
HW	4"	140 LBS.	30"							
SS	SS 1 3/8" 140 LBS. 30"									
NQ	2"	_			_					
	REED & REED BINGHAM, M/ NORTHERN 1 TYPE HW SS NQ	REED & REED, INC.         BINGHAM, MAINE         NORTHERN TEST BORINO         TYPE       SIZE I.D.         HW       4"         SS       1 3/8"         NQ       2"	REED & REED, INC.           BINGHAM, MAINE           NORTHERN TEST BORINGS, INC.           TYPE         SIZE I.D.           HW         4"           SS         1 3/8"           NQ         2"	REED & REED, INC.           BINGHAM, MAINE           NORTHERN TEST BORINGS, INC.         DRILLER:           TYPE         SIZE I.D.         HAMMER WT.         HAMMER FALL           HW         4"         140 LBS.         30"           SS         1 3/8"         140 LBS.         30"           NQ         2"	REED & REED, INC.           BINGHAM, MAINE           NORTHERN TEST BORINGS, INC.         DRILLER:           MIKE NADEAU           TYPE         SIZE I.D.           HW         4"           140 LBS.         30"           SS         1 3/8"           NQ         2"					

BLUE SKY WEST WIND POWER PROJECT

CASING BLOWS		SAN	<b>IPLE</b>		SAM	PLER B	LOWS F	PER 6"	DEPTH	STDΑΤΑ 2 ΤΕST DΑΤΑ
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEFIN	STRATA & TEST DATA
	10D	1"	0"	40.1'	50/1"					BOULDER 40.0' TO 41.0'
										GRAY GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL)
	11D	14"	14"	46.2'	25	23	50/2"		-	~ VERY DENSE ~
	12D	8"	8"	50.7'	24	50/2"			-	
	120	4"	4"	<b>FF 2</b>	E0/4"				- EE 2	
	130	4	4	55.5	50/4					
										BOTTOM OF EXPLORATION AT 55.3'
									-	
									-	
									-	
									-	
									-	
									-	
		-							-	
									1	
SAMPLI	ES:			SOIL C	LASSI	FIED B	<i>(</i> :		REMAR	KS:
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY.		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE		Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5"	SHELE	BY TUB	E		LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T24



REED & REED, INC. **BINGHAM, MAINE** 

TYPE

НW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

NORTHERN TEST BORINGS, INC.

#### **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T25
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/7/2013
DATE FINISH:	11/7/2013
ELEVATION:	1466' ±
SWC REP.:	AAS

WATER AT 0.5' ON 11/7/2013 (ARTESIAN)

SAMPLER: CORE BARREL:

CASING:

PROJECT: CLIENT :

LOCATION: DRILLING FIRM:

CASING SAMPLE SAMPLER BLOWS PER 6" BLOWS DEPTH **STRATA & TEST DATA** PER DEPTH NO. PEN. REC. 0-6 6-12 12-18 18-24 @ BOT FOOT HW 0.4 FOREST DUFF 1D 24" 24" 2.0' 1 1 7 9 **BROWN SANDY SILT** ~ LOOSE ~ 4.0 2D 24" 24" 7.0' ~MEDIUM DENSE~ 8 8 11 8 BROWN SILTY SAND. SOME GRAVEL WITH COBBLES (GLACIAL TILL) 3D 24" 24" 12.0' 9 12 15 17 w=12.0% 4D 10" 8" 15.7 34 50/4" ~DENSE~ w=12.8% 19.0' 50/5" ~VERY DENSE~ 5D 5" 5" 20.4' w=11.2% 6D 9" 7" 25.8' 50/3" GRAY SAND AND SILT, SOME GRAVEL 34 WITH COBBLES (GLACIAL TILL) 7D 5" 5" 30.4' 50/5" 34.6 GLACIAL TILL WITH BOULDERS AND/OR HIGHLY WEATHERED BEDROCK 40.0' SAMPLES: SOIL CLASSIFIED BY: REMARKS: D = SPLIT SPOON **DRILLER - VISUALLY** STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE Х SOIL TECH. - VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE Х LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO .: **B-T25** 

WATER LEVEL INFORMATION



REED & REED, INC. BINGHAM, MAINE

TYPE

НW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

NORTHERN TEST BORINGS, INC.

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T25							
SHEET:	2 OF 2							
PROJECT NO .:	10-0014.3							
DATE START:	11/7/2013							
DATE FINISH:	11/7/2013							
ELEVATION:	1466' ±							
SWC REP.:	AAS							

WATER LEVEL INFORMATION

WATER AT 0.5' ON 11/7/2013 (ARTESIAN)

SAMPLER: CORE BARREL:

CASING:

PROJECT: CLIENT :

LOCATION: DRILLING FIRM:

CASING SAMPLE SAMPLER BLOWS PER 6" BLOWS **STRATA & TEST DATA** DEPTH PER DEPTH NO. PEN. REC. 0-6 6-12 12-18 18-24 FOOT @ BOT GLACIAL TILL WITH BOULDERS AND/OR HIGHLY WEATHERED BEDROCK 43.0' GRAY SAND AND SILT, SOME GRAVEL WITH COBBLES AND BOULDERS (GLACIAL TILL) 49.5' DARK GRAY METASILTSTONE FOLIATED AT 75-85 DEGREES FRACTURES ALONG FOLIATION PLANES R1 54.5' RQD = 45% POOR 5.0' 2.5' 54.5' BOTTOM OF EXPLORATION AT 54.5' SAMPLES: SOIL CLASSIFIED BY: REMARKS: D = SPLIT SPOON **DRILLER - VISUALLY** STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE Х SOIL TECH. - VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO .: **B-T25** 



B-T25 R1 (49.5'-54.5')





**BINGHAM, MAINE** 

TYPE

НW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

## **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T26
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/6/2013
DATE FINISH:	11/11/2013
ELEVATION:	1469' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

SOILS SATURATED AT 5.0'

WATER AT 17' ON 11/11	WATER AT 2.5' ON 11/12
BOREHOLE	CAVED AT 7.5'

CASIN	SING SAMPLE SAMPLER		PLER BLOWS PER 6"							
PER	NO.	PEN.	REC.	DEPTH	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
HW				@ BUT					1.5'	FOREST DUFF / BROWN SANDY SILT WITH ROOTLETSV ~LOOSE~
	1D	24"	13"	2.0'	1	1	2	4		~LOOSE~
										BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)
	2D	24"	18"	7.0'	6	5	5	50/4"		~MEDIUM DENSE~
	3D	24"	24"	12.0'	13	13	16	24	14.0'	~DENSE~
	4D	6"	6"	15.5'	55					GRAY SAND AND SILT. SOME GRAVEL
	5D	9"	9"	21.2'	24	50/3"				WITH COBBLES (GLACIAL TILL)
NW	6D	12"	12"	26.0'	48	50				
•	7D	1"	1"	30.1'	50/1"				30.0'	
	R1 R2	1.4' 1.5'	1.4' 1.4'	33.4' 34.9'						ADVANCED BY ROLLER CONE THROUGH BEDROCK TO 32.0' INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE MEDIUM TO MODERATELY HARD, SLIGHTLY WEATHERED RQD = 0% VERY POOR IRON OXIDE STAINED RQD = 39% POOR NUMEROUS CLOSELY SPACED
	R3	2.1'	2.1'	37.0'						STEEP ANGLE FRACTURES PARALLEL FOLIATION RQD = 48% POOR AT 50-80 DEGREES
	R4	1.7'	1.7'	38.7'					40.0'	RQD = 85% GOOD BECOMING LESS FRACTURED
SAMPLES:     SOIL CLASSIFIED BY:     F       D = SPLIT SPOON     DRILLER - VISUALLY       C = 3" SHELBY TUBE     X     SOIL TECH VISUALLY       U = 3.5" SHELBY TUBE     LABORATORY TEST					FIED BY LLER - ⁻ L TECH	/: VISUAL VISU DRY TE	.LY JALLY ST	REMAR	STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T26	



**BINGHAM, MAINE** 

TYPE

HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

CORE BARREL:

## **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T26
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/6/2013
DATE FINISH:	11/11/2013
ELEVATION:	1469' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

SOILS SATURATED AT 5.0'

	WATER AT 17	ON 11/11 ;	WATER AT	2.5' ON 11/12
--	-------------	------------	----------	---------------

				BOREHOLE CAVED AT 7.5'						
CASING BLOWS		SAMPLE SAMPLER BLOWS PER 6"		DEPTH	STRATA & TEST DATA					
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R5	1.7'	1.5'	40.4'						RQD = 37% POOR
										GRAY INTERBEDDED PELITIC SCHIST AND METASILTSTONE
	Do	0.01	0.41	40.71					-	
	R6	3.3	3.1	43.7						RQD = 52% FAIR MODERATE TO STEEP ANGLE ERACTURES
										PARALLEL FOLIATION AT 50-70 DEGREES
	R7	3.0'	2.9'	46.7'						RQD = 63% FAIR
	R8	1.7'	1.6'	48.4'					-	RQD = 50% POOR / FAIR
	R9	1.2	1.6	49.6					•	RQD = 50 % POOR / FAIR MODERATE TO STEEP ANGLE ERACTURES
	R10	3.3'	3.3'	52.9'					-	RQD = 64% FAIR PARALLEL FOLIATION AT 50-80 DEGREES
	R11	2.1'	2.1'	55.0'					55.0'	RQD = 83% GOOD
									-	BOTTOM OF EXPLORATION AT 55.0'
									-	
									-	
									-	
									-	
									-	
									-	
SAMPLES: SOIL CLASSIFIED BY						ו FIED B	/:		REMAR	I IKS:
					,					$\frown$
D = SPL				V	DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
$U = 3^{\circ} S$ $U = 3.5^{\circ}$	SHELI	3Y TUB	E		SOIL TECH VISUALLY LABORATORY TEST					AND THE TRANSITION MAY BE GRADUAL.
				· · · · · · · · · · · · · · · · · · ·	6				•	



B-T26, R1 TO R10 (32.0'-51.0')

#10-0014.3	the second se	A A A
Reed is Reed	, B-T26	
n [u]13	RI (32.0'-33.4) R=1.4'	B-T26
Bingham, ME	R2 (33.4'-34.9') R= 1.4' 30	(R) 314 (R) 1317 (R)
make -	R3 (31.1; 37) R= 2.1' 37	(R) Jui (B) Jar (D)
A the Cont	R4 (37:30 7) R= 1.7' R7 (43.7-46.7') R=2.7' R5 (387-48.4') R=15' R6 (46.7-48.4') R=16'	Cell (B) 151' (B) 157'
1 TON	R6 (404 -45.7') R=3.0 R10 (484-49.6) R=1.6 401 -	(a) 1165 (c) all 156 (c) cont for
1 marine and		a a dealer a dealer a dealer and
1	TAA AIAI	15100
	A YOUNG'S	a br bell
- XX	A DECEMBER OF	
E Contraction		A A A A A A A A A A A A A A A A A A A
	MIN L'	The second second
Constant of the state of the st	and the state of t	The property
	The second se	
The second second second	at a line to a line to a	

B-T26, R10 TO R11 (51.0'-55.0')

Bingham Wind 10-0014.3 Coulders Gracial 43-495'-> Glacial T. 11 T-25 11/7-13
Carling and And and a state of the state of



**BINGHAM, MAINE** 

TYPE

HW / NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

4" / 3"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION:

DRILLING FIRM:

CORE BARREL:

CLIENT :

CASING:

SAMPLER:

## **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

 BORING NO.:
 B-T27

 SHEET:
 1 OF 2

 PROJECT NO.:
 10-0014.3

 DATE START:
 11/12/2013

 DATE FINISH:
 11/12/2013

 ELEVATION:
 1496' ±

 SWC REP.:
 PJO

WATER LEVEL INFORMATION

WATER AT 6.6' ON 11/12/2013

WATER AT 4.9' ON 11/13/2013

CASING				SAMPLER BLOWS PER 6"						
PER	NO.	PEN.	REC.	DEPTH	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
FOOT			-	@ BOT		-		-		FOREST DUEF / BROWN SAND AND SILT
1	1D	24"	12"	2.0'	1	1	2	3	2.0'	WITH ORGANICS ~LOOSE~
										BROWN SILT AND SAND, SOME GRAVEL, TRACE CLAY
										WITH COBBLES (GLACIAL TILL)
		- <i>(</i> 1)	- 4 <b>1</b>			-		_		
	2D	24"	24"	7.0	6	6	4	5	-	~MEDIUM DENSE~
¥									1	
NW	3D	14"	12"	11.1'	7	15	50/2"			
									12.8'	
•										GLACIAL TILL AND WEATHERED BEDROCK TO 15.0'
	R1	1 7'	1.5'	16 7'					-	ROD = 39% POOR
	R2	1.3'	1.4'	18.0'					-	RQD = 82%  GOOD
										INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
										MODERATELY HARD, SLIGHTLY WEATHERED
	R3	3.0'	2.8'	21.0'					-	RQD = 38% POOR QUARTZ VEINS UP TO 1/2" THICK
	D4	2.0'	2.0'	22.0'	-					
	R4	2.9	2.8	23.9						RQD = 45% POOR 50-70 DEGREES
	R5	2.0'	2.1'	25.9'						RQD = 23% VERY POOR
									-	SHALLOW TO VERTICAL FRACTURE ANGLES
	R6	2.6'	1.8'	28.5'					-	RQD = 38% POOR
-										FAINT IRON OXIDE STAINING
	R7	1.7'	1.3'	30.2'					-	RQD = 25% VERY POOR / POOR
	R8	1.5	1.0	31.7					-	
					-					HIGHET HAGTORED
	R9	2.9'	2.7'	34.6'						RQD = 12% VERY POOR
	R10	3.3'	3.1'	37.9'						RQD = 54% FAIR FRACTURES AT 20, 50 AND 60 DEGREES
		4.01	4.01	00.51						FRACTURE SURFACES IRON OXIDE STAINED
R11   1.6'   1.2'   39.5'		40.0'	KUD = 28% FAIK							
SAMPLES: SOIL CLASSIFIED BY:				REMAR	RKS:					
ים - פרי				<b></b>	יימס		1/101141	IV		
D = 3PI C = 3" S				X	SOI			LT JALLY		
U = 3.5	' SHELE	BY TUB	E		LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO . R-T27



**BINGHAM, MAINE** 

TYPE

НW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

## **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T27						
SHEET:	2 OF 2						
PROJECT NO .:	10-0014.3						
DATE START:	11/12/2013						
DATE FINISH:	11/12/2013						
ELEVATION:	1496' ±						
SWC REP.:	PJO						

WATER LEVEL INFORMATION

WATER AT 6.6' ON 11/12/2013

CORE E	BARREI	_:	١	1Q	4	2"				WATER AT 4.9' ON 11/13/2013	
CARING			_					_			
BLOWS		SAI	MPLE	DEPTH	SAM	PLER BI	LOWS F	PER 6"	DEPTH	STRATA & TEST DATA	
FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24			
	R12	1.7'	1.4'	41.2'						RQD = 0% VERY POOR	
	R13	1.4'	1.3'	42.6'						RQD = 0% VERY POOR	
	D44	0.4	4.0	45.01					-	GRAY INTERBEDDED PELITIC SCHIST AND METASILTSTONE	
	R14	2.4	1.6	45.0						RQD = 21%  VERY POOR  QUAR12  VEIN (HARD) 44.5-45.0	
	-								-		
	R15	3.0'	2.4'	48.0'						RQD = 37% POOR STEEP TO NEAR VERTICAL FRACTURES	
	R16	2.8'	3.0'	50.8'						RQD = 13% VERY POOR	
	R17	0.7'	0.6'	51.5'						RQD = 0% VERY POOR HIGHLY FRACTURED	
									-		
	R18	3.5'	2 9'	55.0'					55 0'	NUMEROUS QUARTZ VEINS	
	IX10	0.0	2.5	55.0					00.0		
										BOTTOM OF EXPLORATION AT 55.0'	
	-								-		
									-		
									-		
									-		
									-		
									-		
SAMPL	ES:	1		SOIL C	LASSII	FIED B	<i>(</i> :	1	REMAR	KS:	
					יסס						
D = SPL C = 3" S	HELBY	TUBE		X	SOI	ller - L TECH	I VISUAL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES	
U = 3.5"	SHELE	BY TUE	BE		LAB	ORATO	ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T27	



B-T27, R1 TO R10 (15.0'-35.9')



B-T27, R10 TO R18 (35.9'-55.0')





**BINGHAM, MAINE** 

TYPE

HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

CORE BARREL:

#### **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T29
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/13/2013
DATE FINISH:	11/13/2103
ELEVATION:	1528' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 11.1' ON 11/13/2013

WATER AT 2.1' ON 11/19/2013

CASING BLOWS		SAN	/IPLE	1	SAM	PLER BI	LOWS P	'ER 6"	DEPTH	STRATA & TEST DATA	
PER FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24			
HW									1.0'	FOREST DUFF / DARK BROWN SANDY SILT WITH ORGANICS ~VERY LOOSE~	
	1D	24"	8"	2.0'	1	1	2	3		BROWN SAND AND SILT, SOME GRAVEL	
•									3.0'	WITH BEDROCK FRAGMENTS (GLACIAL TILL) ~LOOSE~	
										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 4.0'	
									-		
									-	MODERATELY TO SEVERELY WEATHERED AND SOFT BECOMING	
	R1	34	2 7'	7 4'						ROD = 19% VERY POOR HIGHLY FRACTURED	
		0.1	2.1						-	LOW ANGLE AND HIGH ANGLE FRACTURES: 30. 75-80 DEGREES	
	R2	2.6'	2.1'	10.0'					-	RQD = 52% FAIR	
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 55-60, 75 DEGREES	
	R3	3.5'	3.0'	13.5'					-		
	110	0.0	0.0	10.0							
										HIGHLY FRACTURED	
	R4	2.9'	1.9'	16.4'					-	RQD = 0% VERY POOR	
										LOW ANGLE AND HIGH ANGLE FRACTURES: 30, 80-85 DEGREES	
	R5	2.1'	2.1'	18.5'					-	RQD = 25% VERY POOR / POOR	
										MODERATELY WEATHERED AND MODERATELY HARD	
									-	GRANITE PEGMATITE ZONE: 22.0-22.8	
									-		
	R6	5.0'	5.0'	23.5'					-	ROD - 62% FAIR	
	110	0.0	0.0	20.0						MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 35-45, 70-85 DEGREES	
									1		
	R7	4.0'	2.5'	27.5'						RQD = 38% POOR	
									-		
									4		
	R8	2.9'	2.9'	30.4'					-		
									-	LOW ANGLE AND HIGH ANGLE FRACTURES: 30, 65-70 DEGREES	
	R9	34'	34'	33.8'					-	ROD = 81% GOOD	
	110	0.1	0.1	00.0					-		
									1		
	R10	4.2'	3.7'	38.0'						RQD = 76% GOOD	
										HIGH ANGLE FRACTURES: 70-80 DEGREES	
									40.0'		
SAMPLE	ES:			SOIL C	LASSI	FIED BY	<b>/</b> :		REMAR	rKS:	
<b>.</b>										$\frown$	
D = SPL				V	DRI	LLER -	VISUAL	LY			
U = 3" S	HELBY		<b>_</b>	X	SOI	OPATO	ו VISU ערדי	ALLY			
0 = 0.0	SHELD		L		LAD	UNAIC			1	BORING NO.: B-T29	



## **BORING LOG**

BORING NO .:	B-T29
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/13/2013
DATE FINISH:	11/13/2103
ELEVATION:	1528' ±
SWC REP.:	PJO
RIEVEL INFOR	

PROJE	CT:		BLUE	SKY WE	EST WI	ND PO	WER P	ROJEC	т	DATE START: 11/13/2013			
CLIENT	:		REED	& REED	), INC.					DATE FINISH: 11/13/2103			
LOCATI	ON:		BING	HAM, MA	AINE								
DRILLIN	IG FIRM	<b>л</b> :	NORT	HERN T	EST B	ORING	S. INC.		D	DRILLER: MIKE NADEAU ELEVATION: 1528'±			
			T	/PF	SIZE	= L.D.	HAMM	FR WT	HAMM	FR FALL SWC REP P.IO			
CASING	÷.		н	IW/		1"	140	IBS	3	NO" WATER   EVEL INFORMATION			
SAMPLI				29	1.3/8"		140 LBS.		3	20" WATER AT 11 1' ON 11/13/2013			
				10	2"		140	LDO.		WATER AT 2 1' ON 11/10/2012			
CORE			F	NQ.	4	2	-			WATER AT 2.1 ON 11/19/2013			
CASING		C 4 1			CANA								
BLOWS		SAP	VIPLE	1	SAIVI	PLEK D	LOWS F	PER 0	DEPTH	STRATA & TEST DATA			
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24					
1001	R11	3.0'	3.0'	@ DO1						RQD = 93% EXCELLENT			
		0.0	0.0	11.0					-	INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE			
									-	MODERATELY HARD TO HARD SLIGHTLY WEATHERED			
	R12	2.6'	3.0'	43.6'					-	RQD = 77% GOOD			
		2.0	0.0	.0.0					-	MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 35, 65-80 DEGREES			
									-				
	R13	4.1'	4.0'	47.7'					-	RQD = 93% EXCELLENT			
			-										
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 35, 65-80 DEGREES			
	R14	5.0'	5.0'	52.7'					-	RQD = 92% EXCELLENT			
									-				
									-	HIGH ANGLE FRACTURES: 80-85 DEGREES			
	R15	2.8'	2.8'	55.5'					55.5'	RQD = 89% GOOD			
										BOTTOM OF EXPLORATION AT 55.5'			
									-				
									-				
									-				
							-		-				
					-				-				
									-				
									-				
					-				-				
									-				
									-				
							-		ł				
									-				
									-				
									-				
							-		-				
										1			
SAMPL	ES:			SOIL C	LASSI	FIED B	Y:		REMAR	RKS:			

SAMPLES:	SOIL C	LASSIFIED BY:	REMAR	RKS:		
D = SPLIT SPOON C = 3" SHELBY TUBE	X	DRILLER - VISUALLY SOIL TECH VISUALLY		STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPE	S	$\bigcirc$
U = 3.5" SHELBY TUBE		LABORATORY TEST		AND THE TRANSITION MAY BE GRADUAL.	BORING NO .:	B-T29



B-T29, R1 TO R7 (4.0'-27.5')



B-T29, R8 TO R12 (27.5'-43.6')





#### B-T29, R13 TO R15 (43.6'-55.5')





**BINGHAM, MAINE** 

BLUE SKY WEST WIND POWER PROJECT

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION:

DRILLING FIRM:

U = 3.5" SHELBY TUBE

LABORATORY TEST

CLIENT :

## **BORING LOG**

MIKE NADEAU

DRILLER:

 BORING NO.:
 B-T30

 SHEET:
 1 OF 2

 PROJECT NO.:
 10-0014.3

 DATE START:
 11/13/2013

 DATE FINISH:
 11/13/2013

 ELEVATION:
 1607' ±

 SWC REP.:
 PJO

			Τ١	′PE	SIZE	E I.D.	HAMM	ER WT.	. HAMMEI	FALL SWC REP.: PJO			
CASING:		Н	W	4	1"	140	LBS.	30	WATER LEVEL INFORMATION				
SAMPL	ER:		5	SS	1 3/8" 1 ₁			LBS.	30	WATER AT 15.6' ON 11/13/2013			
CORE E	BARREI	_:	Ν	IQ	2"					WATER AT 12.8' ON 11/19/2013			
							-						
CASING BLOWS		SAN	/IPLE		SAM	PLER B	LOWS F	PER 6"	DEPTH	STRATA & TEST DATA			
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		•••••••••••••••••			
HW										FOREST DUFF / ORANGE-BROWN SILT AND SAND WITH ORGANICS			
1	1D	24"	19"	2.0'	1	1	2	4	1.8'	AND ROOTLETS ~LOOSE~			
									-	BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL) ~LOOSE~			
¥									4.4'				
										ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 6.0			
									-				
	R1	1.6'	0.5'	7.6'					-	QD = 0% VERY POOR GRAY PELITIC SCHIST			
	R2	1.2	1.2	8.8					-				
	<b>D</b> 2	2.4'	1.0'	10.0'					-				
	кэ	2.1	1.0	10.9					-	HIGHLY ERACTURED IRON OVIDE STAINED			
	R4	1.6'	1.3'	12.5'					F	OD = 52% FAIR			
									-				
	R5	2.1'	2.1'	14.6'					F	QD = 43% POOR			
	R6	1.9'	1.9'	16.5'					F	QD = 46% POOR FRACTURES PARALLEL			
	R7	1.5'	1.5'	18.0'					F	QD = 50% POOR / FAIR FOLIATION AT 60-70 DEGREES			
										LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES			
	R8	2.8'	2.7'	20.8'					F	QD = 52% FAIR			
	-								=				
	DO	0.01	0.7	00.41									
	R9	2.6	2.7	23.4					-	QD = 75% FAIR / GOOD			
									-				
	R10	3.9'	3.9'	27.3'					F	QD = 60% FAIR FRACTURES PARALLEL			
	-									FOLIATION AT 50-70 DEGREES			
	R11	2.5'	2.4'	29.8'					F	QD = 62% FAIR			
										LIGHT IRON OXIDE STAINING			
	R12	4.1'	3.9'	33.9'					F	QD = 74% FAIR			
	-								=				
	D40	0.01	0.7	07.51									
	K13	3.0	3.1	31.5					{				
									40.0'	FOLIATION AT 60-80 DEGREES			
		1	1					1	-0.0				
SAMPL	ES:			SOIL C	LASSII	-IED B	Y:		REMARK	S: SURFACE COBBLES AND BOULDERS			
	IT SPC	ON			ואט	IIFR-	VISLIAI	IY					
C = 3" S	HELBY	TUBE		Х	SOI		I VISL	JALLY	A	PPROXIMATE BOUNDARY BETWEEN SOIL TYPES			
		-											

AND THE TRANSITION MAY BE GRADUAL.

BORING NO .:

B-T30



**BINGHAM, MAINE** 

TYPE

HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

## **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T30
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/13/2013
DATE FINISH:	11/13/2013
ELEVATION:	1607' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 15.6' AT 11/13/2013 WATER AT 12.8' ON 11/19/2013

CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING SAMPLE BLOWS			SAM	PLER BI	LOWS P	PER 6"	DEPTH	STRATA & TEST ΠΑΤΑ		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R14	4.2'	4.2'	41.7'						RQD = 93% EXCELLENT GRAY PELITIC SCHIST
	R15 R16	4.1'	4.1'	45.8'						RQD = 89% GOOD CLOSELY SPACED MODERATELY DIPPING FRACTURE ANGLES AT 15-45 DEGREES SLIGHT IRON OXIDE STAINING RQD = 43% POOR QUARTZ VEIN (HARD) FROM 48.3' TO 50.5' ±
	R17	5.0'	5.0'	54.8'					54.8'	RQD = 76% GOOD
										BOTTOM OF EXPLORATION AT 54.8'
SAMPLI	ES: IT SPC			SOIL C	LASSI				REMAR	KS: SURFACE COBBLES AND BOULDERS
C = 3" S U = 3.5"	SHELBY	Y TUBE BY TUB	E	Х	SOI	L TECH	VISL RY TE	JALLY ST		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T30



B-T30, R1 TO R5 (6.0'-14.6')



B-T30, R6 TO R12 (14.6'-33.3')

Read : Read Bingham, NE 11/13/13	B-T2.0 R6 (14.6' - 16.5') R= 1.9' R7 (16.5' 18') R= 1.5' R8 (18'-20\$) R= 2.7' R9 (20.5-23.4) R= 2.7'	RII (27.3 - 29.8) R=2.4' RIZ (29.8 - 33.9) R=3.3 (0.6' next box)	B-T30 146' (Rb) Cart AB 2 23.4' (RD) Cart All	145 (R) 18 (R) 08 (R) 33.4' 123 (R) 198 (R)
	KI0 (23:4-27.3') A=3.4	R		C.6/ RIT EARL AGE BAX
1 d	Sar Prest	110		14



B-T30, R12 TO R16 (33.3'-49.8')



B-T30, R17 (49.8'-54.8')





BINGHAM, MAINE

TYPE

SSA/HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

#### **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T31
SHEET:	1 OF 2
PROJECT NO.:	10-0014.3
DATE START:	11/13/2013
DATE FINISH:	11/13/2013
ELEVATION:	1500' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

SOILS WET TO SATURATED AT 2'	

CORE BARREL: NQ

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

WATER AT 8.1' ON 11/13; WATER AT 1.0' ON 11/19 BORE HOLE CAVED AT 3.4'

CASING BLOWS PER FOOT			SAN	IPLE		SAM	PLER BI	LOWS P	'ER 6"		
		NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	SIRATA & TEST DATA
Н	W										FOREST DUFF / BROWN SAND AND SILT
		1D	24"	17"	2.0'	7	2	2	5	1.5	WITH ROOTLETS ~LOOSE~
											BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL)
		2D	24"	16"	7.0'	3	3	4	3	-	~LOOSE~
		3D	24"	22"	10.0'	4	3	5	5		
		15	0.4"	0.4"	40.01	_	-			-	
		4D	24	24"	12.0	8	1	9	14		~MEDIUM DENSE~
										14.0'	
		5D	9"	9"	15.8'	16	50/3"				~VERY DENSE~
										-	WITH COBBLES (GLACIAL TILL)
		6D	24"	22"	22.0'	20	29	29	33		
	,										
	/									24.0'	
											GRAY METASILTSTONE WITH ZONES OF PHYLITTE
		R1	3.4'	2.0'	27.4'						MODERATELY HARD, SLIGHTLY WEATHERED, HIGHLY FRACTURED RQD = 15% VERY POOR
										-	FRACTURE SURFACES IRON OXIDE STAINED
											HIGHLY FRACTURED. SHALLOW TO STEEP FRACTURE
		R2	4.2'	2.7'	31.6'					-	RQD = 17% VERY POOR ANGLES AT 5-90 DEGREES
											FRACTURE SURFACES IRON OXIDE STAINED
											CLOSE TO MODERATELY SPACED FRACTURES
		R3	5.0'	5.0'	36.6'					-	PARALLEL FOLIATION AT 20, 40-60 DEGREES RQD = 87% GOOD
										40.0'	
SAI	MPLE	ES:		I	SOIL C	LASSI	FIED B	/:	I	REMAR	KS:
	05	IT 05 -									
D = C =	SPL 3" S	II SPC HELBY	TUBE		х	DRI SOI	LLER - L TECH	VISUAL I VISU	.ly Jally		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U =	3.5"	SHELE	BY TUB	E		LAB	ORATO	ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T31



BINGHAM, MAINE

TYPE

SSA/HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

#### **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-131
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/13/2013
DATE FINISH:	11/13/2013
ELEVATION:	1500' ±
SWC REP .:	PJO
TER LEVEL INFOR	MATION

WATER LEVEL INFORMATION

SOILS WET TO SAT	IURATED AT 2
WATER AT 8.1' ON 11/13	AND AT 1.0' ON 11/19

CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

BORE HOLE CAVED AT 3.4'

CASING BLOWS		SAN	<b>IPLE</b>		SAM	PLER BI	LOWS F	'ER 6"	DEDTU	STRATA & TEST DATA GRAY METASILTSTONE WITH PHYLITTE ZONES, MODERATELY HARD, CLOSE WIDELY SPACED FRACTURES PARALLEL FOLIATION AND THIN QUARTZ VEINS AT 40-60 DEGREES D = 77% GOOD
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R4	4.7'	4.4'	41.3'						GRAY METASILTSTONE WITH PHYLITTE ZONES, MODERATELY HARD, CLOSE TO WIDELY SPACED FRACTURES PARALLEL FOLIATION AND THIN QUARTZ VEINS AT 40-60 DEGREES
	R5	5.0'	5.0'	46.3'						RQD = 77% GOOD LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES
	R6	4.6'	4.1'	50.9'					-	RQD = 77% GOOD
										SHALLOW TO STEEP FRACTURE ANGLES AT 5-70 DEGREES
	R7	4.1'	3.7'	55.0'					55.0'	RQD = 65% FAIR
										BOTTOM OF EXPLORATION AT 55.0'
SAMPL	ES:			SOIL C	LASSI	FIED BY	<i>(</i> :		REMAR	IKS:
D = SPL C = 3" S U = 3.5"	LIT SPC SHELBY SHELE	OON TUBE BY TUB	E	X	DRI SOI LAB	LLER - L TECH ORATC	VISUAL I VISL DRY TE	LY JALLY ST		STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T31



B-T31, R1 TO R4 (24.0'-41.3')

# 10-0014.3 B-T30 B.T30 / B.T31 Reed in Reed R17 (49.8 - 55) R=5.0' B-730 Bingham, ME 49.8 55.0 B-T31 RI(at.0-27.4') R=2.0' 11/13/13 14 (366-41.3) R-4.4' 2TV (RZ) RZ (27.4'-31.C') R=2.7' R3 (316 - 36.1') R= 5.0"

B-T31, R5 TO R7 (41.3'-55.0')

10-0014.3 R5 (413-463) R=50' R6 (413-509') R=41' B-T31 5 B-T134 Reed & Reed 41.3' (RS) -B-T31 46. 46.3 ter Bingham, ME R7 (509- 55.0') R=37 B 34 RI. (46.0- 50.5 R=3,9



BINGHAM, MAINE

TYPE

SSA/HW/NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4" / 3"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CORE BARREL:

## **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T32
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/15/2013
DATE FINISH:	11/15/2013
ELEVATION:	1503' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 2.2' ON 11/21/2013

										BOREHOLE CAVED AT 8.0
CASING BLOWS		SAM	<b>IPLE</b>	1	SAMF	PLER B	LOWS F	PER 6"	DEPTH	STRATA & TEST DATA
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW				0.20.						FOREST DUFF / DARK BROWN GRAVELLY SANDY SILT WITH ORGANICS
I	1D	24"	18"	2.0'	28	12	5	9	1.5'	~MEDIUM DENSE~
										BROWN GRAVELLY SANDY SILT
										WITH COBBLES (GLACIAL TILL)
	2D	24"	15"	7.0'	14	12	9	15		~ MEDIUM DENSE ~
	-								-	
•										
INVV	2D	24"	22"	12.0'	6	10	10	21	-	
	30	24	23	12.0	0	10	12	21	-	
	4D	24"	24"	17.0'	21	31	42	55		~ VERY DENSE ~
	5D	15"	15"	21.3'	27	31	50/3"		-	
									24.0	
									24.0	
										GRAY GRAVELLY SANDY SILT
	6D	24"	24"	27.0'	34	40	44	51		WITH COBBLES (GLACIAL TILL)
	-					-		-		
										~VERY DENSE~
									-	
	7D	12"	15"	32.0'	39	43	50/3"		31.5'	
	-								-	
										WEATHERED BEDROCK FRAGMENTS / GLACIAL TILL
•	80	2"	0"	37.0'	100/2"				37 0'	
	00	2	0	57.0	100/2				57.0	ADVANCE BY ROLLER CONE
										THROUGH BEDROCK TO 40.0'
CAMPI	=0.						v.			
SAIVIPLI	LO.				LASSIF	שיםי	1.		REIVIAR	
D = SPL	IT SPC	ON			DRII	LER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE		Х	SOIL		I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5"	SHELE	BY TUB	E		LAB	ORATO	ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T32

WATER AT 10.2' ON 11/13/2013

BOREHOLE CAVED AT 8.0'



BINGHAM, MAINE

TYPE

SSA/HW/NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4" / 3"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CORE BARREL:

#### **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-132
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/15/2013
DATE FINISH:	11/15/2013
ELEVATION:	1503' ±
SWC REP.:	PJO
R LEVEL INFOR	RMATION

SWC REP.:	
WATER LEVEL INFOR	RMATIC

WATER AT 10.2' ON 11/13/2013 WATER AT 2.2' ON 11/21/2013

BOREHOLE CAVED AT 8.0'

CASING		SAN	/PLF		SAMPLER BLOWS PER 6"							
BLOWS PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA		
										INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE MEDIUM HARD, HIGHLY FRACTURED, IRON OXIDE STAINED		
	R1	5.0'	1.3'	45.0'								
	R2	2.4'	1.8'	47.4'						RQD = 0% VERY POOR AT 60-90 DEGREES		
										BECOMING LESS FRACTURED		
	R3 R4 R5	3.7' 1.4' 1.4'	3.6' 1.8' 1.1'	51.1' 52.5' 53.9'						RQD = 76% GOOD RQD = 0% VERY POOR HIGHLY FRACTURED RQD = 0% VERY POOR LIGHT IRON OXIDE STAINING		
	R6			55.0'					55.0'	RQD = 0% VERY POOR ON FRACTURE SURFACES BOTTOM OF EXPLORATION AT 55.0'		
SAMPLI D = SPL C = 3" S U = 3.5"	ES: IT SPC HELBY SHELE	) ON Y TUBE BY TUB	E	SOIL C	LASSII DRII SOII LAB	FIED B LLER - L TECH ORATC	/: VISUAL I VISU DRY TE:	LY JALLY ST	REMAR	Image: Surface cobbles         WATER INTRODUCED DURING DRILLING         STRATIFICATION LINES REPRESENT THE         APPROXIMATE BOUNDARY BETWEEN SOIL TYPES         AND THE TRANSITION MAY BE GRADUAL.         BORING NO.:		



B-T32, R1 TO R6 (40.0'-55.0')





SAMPLE

REC.

15"

14"

24"

5"

0"

8"

24"

24"

PEN.

24"

24"

24"

5"

2"

24"

24"

24"

DEPTH

@ BOT

2.0'

7.0'

12.0'

15.4'

20.2'

27.0'

32.0'

37.0'

0-6

2

3

5

50/5"

50/2"

27

8

10

CASING

BLOWS

PER

FOOT

HW

NO.

1D

2D

3D

4D

5D

6D

7D

8D

SAMPLES:

## **BORING LOG**

BORING NO .:	B-133
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/15/2013
DATE FINISH:	11/15/2013
ELEVATION:	1511' ±
SWC REP .:	PJO
WATER LEVEL INFOR	MATION

PROJECT:	BLUE SKY WE	EST WIND PO	OWER PROJEC	Т						
CLIENT :	REED & REED	REED & REED, INC.								
LOCATION:	BINGHAM, MA	BINGHAM, MAINE								
DRILLING FIRM:	NORTHERN T	EST BORING	GS, INC.	DRILLER:	MIKE NADEAU					
	TYPE	SIZE I.D.	HAMMER WT	. HAMMER FALL						
CASING:	SSA / HW	4"	140 LBS.	30"						
SAMPLER:	SS	1 3/8"	140 LBS.	30"						
CORE BARREL:	NQ	2"								

SAMPLER BLOWS PER 6"

12-18

7

4

8

18-24

6

5

12

6-12

5

4

9

26

11

12

31

18

22

51

32

28

DEPTH

2.0'

14.0'

25.0'

WATER AT 8.4' ON 11/15/2103 WATER AT 1.6' ON 11/21/2013

BOREHOLE CAVED AT 8.7'

#### **STRATA & TEST DATA**

#### FOREST DUFF/ LIGHT BROWN SILT, SOME SAND WITH ORGANICS ~MEDIUM DENSE~

BROWN SANDY SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)

~LOOSE~

~MEDIUM DENSE~

~VERY DENSE~

#### GRAY-BROWN SANDY SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)

GRAY SANDY SILT, SOME GRAVEL (GLACIAL TILL)

~VERY DENSE~

~MEDIUM DENSE~

~DENSE~

D = SPLIT SPOON C = 3" S U = 3.5"

II SFOON	
HELBY TUBE	
SHELBY TUBE	

SOIL C	SOIL CLASSIFIED BY:										
	DRILLER - VISUALLY										
Х	SOIL TECH VISUALLY										
	LABORATORY TEST										

REMARKS: WATER INTRODUCED DURING DRILLING

STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO .: **B-T33** 



BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CORE BARREL:

#### **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-133
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/15/2013
DATE FINISH:	11/15/2013
ELEVATION:	1511' ±
SWC REP.:	PJO

. . .

WATER LEVEL INFORMATION

WATER AT 8.4' ON 11/15/2103 WATER AT 1.6' ON 11/21/2013

BOREHOLE CAVED AT 8.7'

CASING BLOWS PER		SAN	/IPLE	DEPTH	SAMF	PLER BI	LOWS PER 6"		DEPTH	STRATA & TEST DATA		
FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24				
	9D	4"	4"	40.3'	50/4"				4	~VERY DENSE~		
									-	GRAY GRAVELLY SANDY SILT		
										(GLACIAL TILL)		
	100	2"	2"	45 21	E0/2"				45 7			
	100	3	3	45.3	50/3				45.7			
										THROUGH WEATHERED BEDROCK TO 50 5'		
									-			
									1	GRAY METASANDSTONE, MEDIUM TO MODERATELY HARD, SLIGHTLY		
										WEATHERED, FRACTURE SURFACES STAINED WITH IRON OXIDE		
										SHALLOW TO VERTICAL FRACTURE ANGLES AT 5-10, 60 AND 90 DEGREES		
									]			
	R1	4.5'	3.5'	55.0'					55.0'	RQD = 47% POOR		
									4			
									-	BOTTOM OF EXPLORATION AT 55.0'		
									1			
									]			
									-			
									-			
									-			
									1			
									-			
									4			
SAMPLES: SOIL CLASSIFIED BY:						IED B	<b>/</b> :		REMAR			
ים - פרי					ייסס			IV				
U = 5PL	11 5PU HELBV			Y		LEK -						
U=35	SHFI P		F	^			RY TE	ST				
J = 3.5 SHELBY IUBE LABORATORY IEST							BORING NO.: B-T33					



B-T33, R1 (50.5'-55.0')

10-0014.3 B-T34 RZ (505-55) R-45' RI (505-550) R-35 Reed i Reed Binghan, ME 505 (R2) T-34 55.6 50.5 T-33 (AI)



PROJECT:

24"

24"

6"

24"

7.0'

12.0'

3" 15.3' 50/3"

2D

3D

4D 3"

## **BORING LOG**

BORING NO .:	B-T34						
SHEET:	1 OF 2						
PROJECT NO .:	10-0014.3						
DATE START:	11/14/2013						
DATE FINISH:	11/14/2013						
ELEVATION:	1495' ±						
SWC REP .:	PJO						
WATER LEVEL INFORMATION							
WATER AT 10.2' ON 11/14/2013							

CLIENT	:		REED	& REED							
LOCATI	ION:		BINGH								
DRILLIN		VI:	NORT	HERN T	MIKE NADEAU						
			ΤY	′PE	SIZE	I.D.	HAMM	ER WT.	HAMME	R FALL	
CASING	G:		SSA	/ HW	4	1"	140	LBS.	3	0"	
SAMPL	ER:		S	SS	13	3/8"	140	LBS.	3	0"	
CORE E	BARREI	:	Ν	IQ	2	2"					
CASING BLOWS		SAN	<b>IPLE</b>		SAM	PLER B	LOWS F	PER 6"			٩T
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEFIN		51
HW											FOREST DU
I	1D	24"	14"	2.0'	1	1	1	3	2.0		

BLUE SKY WEST WIND POWER PROJECT

50/4"

24

22

27

14.0'

26

21

**RATA & TEST DATA** UFF / SANDY SILT WITH ORGANICS

WATER AT 4.4' ON 11/21/2013 BOREHOLE CAVED AT 15.5'

#### BROWN GRAVELLY SAND AND SILT WITH COBBLES (GLACIAL TILL)

~VERY LOOSE~

~VERY DENSE~

									GRAY-BROWN HIGHLY WEATHERED BEDROCK (SAPROLITE)	
	5D	2"	2"	20.2'	50/2"				~ VERY DENSE ~	
	6D	4"	3"	25.3'	50/4"				IRON OXIDE STAINED	
	7D	2"	2"	30.2'	50/2"					
	8D	2"	2"	35.2'	50/2"					
SAMPLES:     SOIL CLASSIFIED BY:     R       D = SPLIT SPOON     DRILLER - VISUALLY       C = 3" SHELBY TUBE     X     SOIL TECH VISUALLY								LY JALLY	EMARKS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES	$\bigcirc$
U = 3.5"	J = 3.5" SHELBY TUBE								AND THE TRANSITION MAY BE GRADUAL. BORING NO.:	B-T34



#### **BORING LOG**

BORING NO .:	B-T34						
SHEET:	2 OF 2						
PROJECT NO.:	10-0014.3						
DATE START:	11/14/2013						
DATE FINISH:	11/14/2013						
ELEVATION:	1495' ±						
SWC REP .:	PJO						
WATER LEVEL INFORMATION							
WATER AT 10 2' ON 11/14/2012							

SAMPLER: CORE BARREL:

CASING:

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

REED & REED, INC. BINGHAM, MAINE NORTHERN TEST BORINGS, INC. DRILLER: MIKE NADEAU SIZE I.D. HAMMER WT. HAMMER FALL TYPE SSA / HW 4" 140 LBS. 30" SS 1 3/8" 140 LBS. 30" 2" NQ

BLUE SKY WEST WIND POWER PROJECT

WATER AT 10.2' ON 11/14/2013 WATER AT 4.4' ON 11/21/2013

BOREHOLE CAVED AT 15.5'

CASING BLOWS		SAN	IPLE SAMPLER BLO		AMPLER BLOWS PER 6"			ПЕРТН	STRATA & TEST ΠΑΤΑ	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	9D	4"	3"	40.3'	100/4"					GRAY-BROWN HIGHLY WEATHERED BEDROCK
									42.7'	(SAPROLITE)
	R1	4.5'	3.9'	50.5'					55.0'	ADVANCED BY ROLLER CONE THROUGH WEATHERED BEDROCK TO 46.0' GRAY METASANDSTONE, MEDIUM TO MODERATELY HARD, SLIGHTLY WEATHERED, SLIGHTLY PITTED. SHALLOW TO VERTICAL FRACTURE ANGLES AT 5, 20 AND 90 DEGREES RQD = 60% FAIR HIGHLY FRACTURED 50.5'-51.8' CLOSELY SPACED SHALLOW TO MODERATELY DIPPING FRACTURES AT 5-15, 45, AND 60 DEGREES ROD = 57% FAIR BOTTOM OF EXPLORATION AT 55.0'
SAMPLES:       SOIL CLASSIFIED BY:         D = SPLIT SPOON       DRILLER - VISUALLY         C = 3" SHELBY TUBE       X         U = 3.5" SHELBY TUBE       LABORATORY TEST					LER - TECH	I VISUAL I VISU DRY TE:	LY JALLY ST	REMAR	I         RKS:         WATER INTRODUCED DURING DRILLING         STRATIFICATION LINES REPRESENT THE         APPROXIMATE BOUNDARY BETWEEN SOIL TYPES         AND THE TRANSITION MAY BE GRADUAL.         BORING NO.:	



B-T34, R1 (46.0'-50.5')

10-0014.3 Reed & Reed B-T31 R5 (41.3'- 46.3') R= 4.0' R6 (46.3'- 50.9') R= 4.1' B-T31 5 B-T134 B-T31 41.3' RS -46.3 Binghan, ME 46.3 Red R7 (509- 55.0') R=3.7" 50.9 B-B-500 BT34 RI (46.0- 50.5 R=3.9

B-T34, R2 (50.5'-55.0')

10-0014.3 Reed & Reed B-T34 Binghan, ME RZ (505-55) R-4.5' T-34 50.5 (R2) 55.6 T-33 50.5 RI (505-550) R-35 (AI)


**BINGHAM, MAINE** 

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T35
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/20/2013
DATE FINISH:	11/20/2013
ELEVATION:	1531' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 16.4' ON 11/20/2013

WATER AT 3.2' ON 11/22/2013 CAVED AT 8.0'

CASING BLOWS	NG VS SAMPLE			SAMF	PLER BL	LOWS P	'ER 6	DEDTU		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
HW										RUST BROWN SANDY SILT WITH ORGANICS
	1D	24"	4"	2.0'	12	10	7	8	2.0'	AND ROCK FRAGMENTS ~MEDIUM DENSE~
										BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL)
	2D	24"	22"	7.0'	9	6	3	5		~LOOSE~
	3D	24"	24"	12.0'	6	7	14	17	-	~MEDIUM DENSE~
•										
	4D	24"	22"	17.0'	12	17	21	31		BECOMING GRAVELLY ~DENSE~
	5D	1"	0"	20.1'					20.1'	
									-	ADVANCE BY ROLLER CONE
										THROUGH WEATHERED BEDROCK TO 23.0'
										ADVANCE BY ROLLER CONE THROUGH BEDROCK TO 27.0'
									-	INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
									-	
	R1	3.0'	2.1'	30.0'						RQD = 18% VERY POOR
	R2	2.7'	2.7'	32.7'						RQD = 63% FAIR
									-	SLIGHTLY WEATHERED
									-	FRACTURE ANGLES AT 20, 45, 70-90 DEGREES
	R3	5.0'	4 9'	37.7'					-	ROD = 50% POOR / FAIR
	110	0.0	1.0	01.1			-			IRON OXIDE STAINED
										THIN QUARTZ VEINS PITTED
SAMPLI	ES:			SOIL C	LASSIF	FIED BY	<i>'</i> :		REMAR	KS:
D = SPL	IT SPC	ON			DRII	LER - '	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE		Х	SOII	_ TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE			LAB	ORATC	RY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T35		



**BINGHAM, MAINE** 

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CORE BARREL:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T35
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/20/2013
DATE FINISH:	11/20/2013
ELEVATION:	1531' ±
SWC REP.:	PJO
R LEVEL INFOR	

WATER LEVEL INFORMATIO

WATER AT 16.4' ON 11/20/2013 WATER AT 3.2' ON 11/22/2013

CAVED AT 8.0'

CASING BLOWS	IG SAMPLE SAMPLER BLOWS				LOWS P	ER 6"	DEDTH	STRATA & TEST DATA		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEFIN	STRATA & TEST DATA
	R4	3.8'	4.1'	41.5'						RQD = 58% FAIR INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE MODERATELY HARD, SLIGHTLY WEATHERED SHALLOW TO STEEP ANGLE FRACTURES AT 30, 45, 60 AND 85 DEGREES LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES ROD = 25% VERY POOR / POOR
	R6	3.6'	3.7'	50.1'						FRACTURES AT 10, 20 AND 70 DEGREES
	R7	4.9'	5.0'	55.0'					55.0	RQD = 78% GOOD
										BOTTOM OF EXPLORATION AT 55.0'
SAMPLES: D = SPLIT SPOON C = 3" SHELBY TUBE U = 3.5" SHELBY TUBE U = 3.5" SHELBY TUBE SOIL CLASSIFIED BY: DRILLER - VISUALLY SOIL TECH VISUALLY LABORATORY TEST						FIED BY LLER - ' LTECH ORATC	/: VISUAL VISU DRY TE:	LY JALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: <b>B-T35</b>



B-T35, R1 TO R4 (27.0'-41.5')



B-T35, R5 TO R7 (41.5'-55.0')





**BINGHAM, MAINE** 

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION:

DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

B-T37 BORING NO .: SHEET: 1 OF 2 PROJECT NO .: 10-0014.3 DATE START: 11/18/2013 DATE FINISH: 11/18/2013 1605' ± ELEVATION: PJO SWC REP .:

WATER LEVEL INFORMATION

WATER AT 13.1' ON 11/13/2013

WATER AT 13.7' ON 11/22/2013

CORE BARREL:		IQ		2"	-		WATER AT 13.7' ON 11/22/2013					
CASING SAMPLE			SVW									
BLOWS PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA		
HW				0.50.						FOREST DUFF / RUST BROWN SAND AND SILT, TRACE GRAVEL		
	1D	24"	17"	2.0'	1	1	3	4	2.0'	WITH ROOTLETS ~LOOSE~		
	2D	24"	20"	7.0'	12	9	7	9		BROWN GRAVELLY SAND AND SILT WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~		
	3D	24"	21"	12.0'	12	14	21	27	10 7	~DENSE~		
•									12.7	ADVANCE BY ROLLER CONE THROUGH BEDROCK TO 15.0'		
										MODERATELY HARD SUIGHTLY WEATHERED		
										FRACTURE SURFACES IRON OXIDE STAINED		
	R1	4.2'	3.8'	19.2'						RQD = 64% FAIR STEEP ANGLE FRACTURES AT 60-80 DEGREES		
	R2	4.2'	4.3'	23.4'						RQD = 62% FAIR IRON OXIDE STAINS ON FRACTURE SURFACES		
	R3	2.0'	1.8'	25.4'						RQD = 38% POOR SHALLOW TO VERTICAL FRACTURE ANGLES		
	R4	3.7'	3.6'	29.1'						RQD = 54% FAIR STEEP ANGLE FRACTURES AT 60 DEGREES CONTAINS MICA AND QUARTZ		
	R5	4.4'	4.5'	33.5'					•	RQD = 87% GOOD		
	R6	5.0'	4.7'	38.5'						RQD = 78% GOOD		
SAMPL D = SPI	ES: LIT SPC	DON			DRI	FIED B	Y: VISUAL	LY.	REMAR	RKS:     WATER INTRODUCED DURING DRILLING       STRATIFICATION LINES REPRESENT THE     ())		
C = 3" SHELBY TUBE U = 3.5" SHELBY TUBE		= 3" SHELBY TUBE X SOIL TECH VISUALLY = 3.5" SHELBY TUBE LABORATORY TEST				I VISL DRY TE	JALLY ST		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T37			



**BINGHAM, MAINE** 

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T37						
SHEET:	2 OF 2						
PROJECT NO .:	10-0014.3						
DATE START:	11/18/2013						
DATE FINISH:	11/18/2013						
ELEVATION:	1605' ±						
SWC REP.:	PJO						

WATER LEVEL INFORMATION

WATER AT 13.1' ON 11/13/2013 WATER AT 13.7' ON 11/22/2013

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS	CASING SAMPLE		SAMPLER BLOWS PER 6"				DEDTU	CTDATA & TECT DATA		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R7 R8 R9 R10 R11 R11	5.0' 2.5' 1.9' 5.1' 2.0'	5.0' 2.2' 2.0' 5.0' 1.9'	43.5' 46.0' 47.9' 53.0' 55.0' 55.0'					55.0'	GRAY PELITIC SCHIST MODERATELY HARD, SLIGHTLY WEATHERED RQD = 84% GOOD LOW TO MODERATE FRACTURE ANGLES AT 0, 5 AND 40 DEGREES RQD = 70% FAIR MIGHLY FRACTURED FROM 45.8' TO 47.9' RQD = 17% STEEP TO VERTICAL FRACTURES AT 70-90 DEGREES VERY POOR PARALLEL FOLIATION UARTZ VEINS UP TO 3' THICK FAINT IRON OXIDE STAINING ON FRACTURE SURFACES RQD = 50% POOR / FAIR RQD = 70% FAIR BOTTOM OF EXPLORATION AT 55.0'
SAMPLES: SOIL CLASSIFIED BY: D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE VISUALLY						LER -	(: VISUAL	LY	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOI INDARY BETWEEN SOIL TYPES
C = 3" SHELBY TUBE U = 3.5" SHELBY TUBE					LAB	ORATO	ORY TES	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T37



B-T37, R1 TO R6 (15'-34.2')



B-T37, R6 CONT. TO R11 (34.2'-55')





**BINGHAM, MAINE** 

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CORE BARREL:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T38								
SHEET:	1 OF 2								
PROJECT NO .:	10-0014.3								
DATE START:	11/18/2013								
DATE FINISH:	11/18/2013								
ELEVATION:	1707' ±								
SWC REP .:	PJO								
WATER LEVEL INFORMATION									

WATER	AT 6.0'	ON 11/18/2013	

WATER AT 6.0' ON 11/21/2013

CASING BLOWS	CASING SAMPLE			SAM	PLER BI	LOWS P	PER 6"			
PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	SIRAIA & IESI DAIA
HW				0.50.						FOREST DUFF / DARK BROWN SILT WITH ORGANICS
	1D	16"	8"	1.3'	1	1	50/4"		1.2	~LOOSE~
•									-	ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 3.0'
									-	INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
										MODERATELY HARD, SLIGHTLY WEATHERED AND IRON OXIDE STAINED
									-	
	R1	4.1	3.8	7.1						RQD = 29% POOR
	R2	1.2'	1.1'	8.3'						RQD = 0% VERY POOR
										NUMEROUS MODERATE TO STEEP ANGLE FRACTURES
										PARALLEL WEAK FOLIATION BETWEEN 40 AND 80 DEGREES
	R3	3.2'	3.3'	11.5'					-	RQD = 13% VERY POOR
									-	STEEP ANGLE AND VERTICAL FRACTURES AT 80-90 DEGREES
									-	
	D4	4 41	4 4	15.01					-	
	R4	4.4	4.4	15.9					-	RQD = 25% VERT POOR / POOR
									-	STEEP ANGLE TO VERTICAL FRACTURES AT 60-90 DEGREES
	R5	4.2'	4.0'	20.1'					1	RQD = 48% POOR
										HIGHLY FRACTURED 20.1'-20.9'
	R6	3.2'	3.2'	23.3'	-					RQD = 50% POOR / FAIR
										BECOMING LESS FRACTURED
	D7	4.6'	4.6'	27.0'					-	
	κ <i>ι</i>	4.0	4.0	21.9	-					RQD = 76% GOOD
									-	
	R8	4.6'	4.6'	32.5'						RQD = 41% POOR PHYLLITE ZONE
										HIGH ANGLE TO VERTICAL FRACTURES
										AT 60-90 DEGREES
	БО		5.01	27.51						
	R9	5.0	5.0	37.5					-	RQD = 52% FAIR
									-	
CAMPI	=0.		1	SOIL 0				1		
SAMPLES: SOIL CLASSIFIED BY:					IED BI					
	IT SPC	ON			ופח		VISLIAI	IY		STRATIFICATION LINES REPRESENT THE
C = 3'' G				X	SOI					
U = 3.5"	SHELF		E		LAR	ORATO	DRY TF	ST		
				L					1	BORING NU.: <b>B-138</b>



# **BORING LOG**

BORING NO .:	B-T38							
SHEET:	2 OF 2							
PROJECT NO.:	10-0014.3							
DATE START:	11/18/2013							
DATE FINISH:	11/18/2013							
ELEVATION:	1707' ±							
SWC REP.:	PJO							

WAI	ER	LEV	EL	INF	ORI	MA	

WATER AT 6.0' ON 11/18/2013

WATER AT 6.0' ON 11/21/2013

PROJECT:	BLUE SKY WE	ST WIND PO	OWER PROJECT	Г		
CLIENT :	REED & REED	, INC.				
LOCATION:	BINGHAM, MA	INE				
ORILLING FIRM:	NORTHERN T	EST BORING	GS, INC.	DRILLER:	MIKE NADEAU	
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL		
CASING:	SSA / HW	4"	140 LBS.	30"		
SAMPLER:	SS	1 3/8"	140 LBS.	30"		
CORE BARREL:	NQ	2"				

CASING BLOWS	SING SAMPLE			SAMPLER BLOWS PER 6"					ΟΤΠΑΤΑ 9 ΤΕΩΤ ΠΑΤΑ	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
										NUMEROUS HIGH ANGLE TO VERTICAL FRACTURES
	R10	3.5'	2.7'	41.0'					-	RQD = 22% VERY POOR
									-	INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
										MODERATELY HARD, BECOMING LESS FRACTURED
	R11	4.7'	5.3'	45.7'					-	RQD = 77% GOOD
										NUMEROUS STEEP ANGLE FRACTURES
										AT 60-80 DEGREES
	D40	4 7	4.01	50.41						
	RIZ	4.7	4.8	50.4					-	RQD = 21% POOR
										CLOSELY SPACED STEEP ANGLE FRACTURES AT 60-80 DEGREES
	5.40								-	FAINT IRON OXIDE STAINING
	R13 R14	4.0' 1 3'	4.0' 1 3'	54.4' 55.7'					55 7'	RQD = 52% FAIR ROD = 52% FAIR
		1.0	1.0	00.7						
										BOTTOM OF EXPLORATION AT 55.7'
									-	
									-	
									-	
									-	
									-	
									-	
									-	
									-	
SAMPL	ES:			SOIL C	LASSI	FIED B	<i>(</i> :		REMAR	
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	' TUBE		Х	SOI	L TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5"	SHELE	BY TUB	E		LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T38



B-T38, R1 TO R6 (3.0'-20.9')



B-T38, R6 CONT. TO R9 (20.9'-37.5')





#### B-T38 R10 TO R14 (37.5'-55.7')





# **BORING LOG**

BORING NO .:	B-T39							
SHEET:	1 OF 2							
PROJECT NO.:	10-0014.3							
DATE START:	11/20/2013							
DATE FINISH:	11/20/2013							
ELEVATION:	1727' ±							
SWC REP .:	PJO							
WATER LEVEL INFORMATION								

WATER AT 8.9' ON 11/20/2013 WATER AT 7.3' ON 11/21/2013

PROJECT:	BLUE SKY WEST WIND POWER PROJECT								
CLIENT :	REED & REED	REED & REED, INC.							
LOCATION:	BINGHAM, MA	INE							
DRILLING FIRM:	NORTHERN TH	EST BORING	S, INC.	DRILLER:	MIKE NADEAU				
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL					
CASING:	SSA / HW	4"	140 LBS.	30"					
SAMPLER:	SS	SS 1 3/8" 140 LBS. 30"							
CORE BARREL:	NQ	2"							

CASING	G SAMPLE SAMPLER BLOWS PER 6"		PER 6"							
PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
HW	1D	17"	12"	1 4'	1	1	50/5"		12	FOREST DUFF / DARK BROWN SILT WITH ORGANICS
¥		17	12	1.4	-	1	30/3		1.2	ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 3.0'
	<b>D</b> 4		2.4	7.41					-	INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE MODERATELY HARD, NUMEROUS STEEP ANGLE FRACTURES
	RI	4.4	3.4	7.4					-	THAT PARALLEL FOLIATION AT 60-80 DEGREES FRACTURE SURFACES IRON OXIDE STAINED
	R2	3.9'	3.9'	11.3'					-	RQD = 46% POOR
										NUMEROUS HIGH ANGLE TO VERTICAL FRACTURES WITH IRON OXIDE STAINING
	R3	4.6'	4.5'	15.9'						RQD = 20% VERY POOR
									-	
	R4	5.0'	4.2'	20.9'						RQD = 64% FAIR MODERATELY HARD
	R5	4.6'	4.6'	25.5'					-	RQD = 57% FAIR STAINED WITH IRON OXIDE
									-	
	R6	5.0'	5.0'	30.5'						RQD = 44% POOR STEEP TO VERTICAL FRACTURE ANGLES
	R7	1.0'	1.4'	31.5'						RQD = 20% VERY POOR AT 70-90 DEGREES
									-	
	R8	5.0'	5.0'	36.5'						FRACTURES AT 10, 40 AND 60 DEGREES RQD = 70% FAIR
									-	
SAMPL	ES:	<u>I</u>	<u>I</u>	SOIL C	LASSI	FIED B	Y:	<u> </u>	REMAR	
D = SPLIT SPOONDRILLER - VISUALLYC = 3" SHELBY TUBEXU = 3.5" SHELBY TUBELABORATORY TEST			STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T39							



BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CORE BARREL:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T39
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/20/2013
DATE FINISH:	11/20/2013
ELEVATION:	1727' ±
SWC REP .:	PJO
WATER LEVEL INFOR	MATION

WATER AT 8.9' ON 11/20/2013

WATER AT	7.3' ON	11/21/2013

CASING										
BLOWS	NO	SAN	APLE	DEPTH	SAM	PLER B	LOWS P	PER 6"	DEPTH	STRATA & TEST DATA
FOOT	NU.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24		
	R9	5.0'	5.0'	41.5'					-	RQD = 82% GOOD
									-	INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
										MODERATELY HARD, FRACTURE SURFACES IRON OXIDE STAINED
										FRACTURE ANGLES AT 5, 45, 70 AND 90 DEGREES
	R10	5.0'	5.0'	46.5'						ROD = 70% FAIR
	1110	0.0	0.0	10.0						
	R11	5.0'	5.0'	51.5'						ROD - 84% GOOD
		0.0	0.0	01.0						FRACTURE SURFACES IRON OXIDE STAINED
										STEEP FRACTURE ANGLES AT 70 DEGREES
	R12	5.0'	4.9'	56.5'					56.5'	RQD = 67% FAIR
					-					
										BOTTOM OF EXPLORATION AT 56.5'
									-	
									-	
									-	
									-	
SAMPL	ES:			SOIL C	LASSI	FIED B	Y:		REMAR	KS:
D 05								1.17		WATER INTRODUCED DURING DRILLING
D = SPL C = 3" S	LLI SPC SHELBY	UN TURF		X	DRI SOI	LLER - L TECH	VISUAL I VISI	LY JALI Y		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE		LABORATORY TEST						AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T39		



B-T39, R1 TO R3 (3.0'-12.5')

the last 10-0014.3 B-T40. Reed & Reed RIO (46.2. 51.2') R= 4.8' RII (51.2:55.0') R= 4.7' Bingham, ME B-T39 R3. (11.3-12.5) R=1.2 (this bax, 45' total) RI (30-7.4) R= 3.4. RZ (7.4-11.3) R=3.9 2 3 4 0 2 3 4 3 52 55 AL ...

B-T39, R3 CONT. TO R7 (12.5'-31.5')

10-0014.3 Reed's Reed 0B-T39 COLT: R3 (12.5'- 15.9') R=3.3' R4 (15.9'-20.9') R=4.2' Binghom, ME R5 (20.9'-25.5') R=4.6' R6 (25.5-31.5') R= 5.0' R7 (30.5-31.5) R= 1.4'



### B-T39, R8 TO R11 (31.5'-51.5')

0-0014.3 · B-T39 Reed & Reed R8 (31.5.36.5) R=5.0' Bingham, ME R9 (365-41.5) R.5.0 RIO (41.5-46.5) RII (46.5-51.5) R= 5.0

B-T39, R12 (51.5'-56.5')

ID-mult			9
Reed Reed Bingham, ME	5.5) R=4.9' B-T35	51.5' B-T39 P12	52.5'
A Part		27 (R) - 30 ( 327' (R3)	37.7'
	the state	37.7' (R4)	41.5'
Remondaria à	24		
	U F	CADA	Y IN C
	New York	R. Constant	ALPH TOUCH



BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

4"

1 3/8"

2"

NORTHERN TEST BORINGS, INC.

PROJECT:

LOCATION:

DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

B-T40 BORING NO .: SHEET: 1 OF 2 PROJECT NO .: 10-0014.3 DATE START: 11/19/2013 DATE FINISH: 11/19/2013 1768' ± ELEVATION: PJO SWC REP .: WATER LEVEL INFORMATION

WATER AT 3.8' ON 11/19/2013 WATER AT 4.4' ON 11/21/2013

CORE BARREL: N		IQ		2"	-		WATER AT 4.4' ON 11/21/20			
CASING BLOWS		SAN	/IPLE		SAMI	PLER B	LOWS F	PER 6"		STRATA & TEST ΠΑΤΑ
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		STRATA & LEST DATA
HW	45	04"	40"	4 71	4		0	50/01	4.0	BROWN SAND AND SILT WITH ORGANICS
	1D	21	18"	1.7	1	1	2	50/3"	1.6	ADVANCE BY SOUD STEM AUGER THROUGH BEDROCK TO 3 0
	R1 R2 R3	4.5' 5.0' 4.0'	4.5' 5.0' 3.8'	7.5'						INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE MODERATELY HARD, STEEP ANGLE FRACTURES AND FOLIATION LIGHT IRON OXIDE STAINING RQD = 36% POOR FRACTURES AT 45, 70 AND 90 DEGREES RQD = 54% FAIR STEEP ANGLE TO VERTICAL FRACTURES EXTEND THROUGH ENTIRE RUN FAINT IRON OXIDE STAINING RQD = 0% VERY POOR
	R4	5.0'	5.2'	21.5'						SHALLOW TO STEEP FRACTURE ANGLES RQD = 56% FAIR AT 5, 45 AND 70 DEGREES
	R5	5.0'	5.0'	26.5'					- - - -	RQD = 58% FAIR HIGH ANGLE TO VERTICAL FRACTURES AT 60-90 DEGREES FAINT IRON OXIDE STAINING
		5.0	5.0	31.5						MODERATELY HARD
	R7	5.0'	4.6'	36.5'						RQD = 60% FAIR
SAMPLI	ES:			SOIL C	LASSII	FIED B	Y:		REMAR	
D = SPLIT SPOON C = 3" SHELBY TUBE U = 3.5" SHELBY TUBE		DRILLER - VISUALLY X SOIL TECH VISUALLY LABORATORY TEST				LY JALLY ST		STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T40		



BINGHAM, MAINE

TYPE

SSA / HW

SS

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

NORTHERN TEST BORINGS, INC.

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T40							
SHEET:	2 OF 2							
PROJECT NO .:	10-0014.3							
DATE START:	11/19/2013							
DATE FINISH:	11/19/2013							
ELEVATION:	1768' ±							
SWC REP.:	PJO							
R LEVEL INFORMATION								

WATE

WATER AT 3.8' ON 11/19/2013 MATER AT A 4 ON AA/OA/OOAO

CORE BARREL:		:	NQ		2"					WATER AT 4.4' ON 11/21/2013
CASING BLOWS	ASING SA		IPLE		SAM	PLER BL	LOWS P	'ER 6"	DEPTH	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
F F F F F F F F F F	R8 R9 R10	4.7' 5.0' 4.6'	4.2' 5.0' 4.4'	41.2' 46.2' 50.8'						RQD = 80% GOOD INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE MODERATELY HARD, STEEP ANGLE FRACTURES AND FOLIATION AT 70-90 DEGREES RQD = 86% GOOD RQD = 67% FAIR
R	۲11	4.6'	4.6'	55.4'					55.4'	RQD = 89% GOOD
										BOTTOM OF EXPLORATION AT 55.4'
Image: Solid Classified By:       Image: Solid Classified By:					FIED BY LLER - ' L TECH ORATC	VISUAL VISU PRY TE:	LY JALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T40	



B-T40, R1 (3.0'-7.5')



B-T40, R2 TO R5 (7.5'-26.5')





B-T40, R6 TO R9 (26.5'-46.2')

10-0014.3 -B-T40 8-740 Reed is Reed R6 (26.5-31.5) R= 5.0' 26.5 (PG) 31.5 Binghan, ME R7 (31.5- 36.5') R= 4.6' 31.5' RD 30.5 R8 (36.5'- 41.2') R= 4.2' 365 RO 4/2 R9 (41.2' - 46.2) R=5.0' 41.2

B-T40, R10 to R11 (46.2'-55.4')





# **BORING LOG**

BORING NO .:	B-T41
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/19/2013
DATE FINISH:	11/19/2013
ELEVATION:	1710' ±
SWC REP .:	PJO
WATER LEVEL INFOR	RMATION

WATER AT 7.3' ON 11/21/2013

PROJECT:	BLUE SKY WEST WIND POWER PROJECT									
CLIENT :	REED & REED	REED & REED, INC.								
LOCATION:	BINGHAM, MA	INE								
DRILLING FIRM:	NORTHERN T	EST BORING	GS, INC.	DRILLER:	MIKE NADEAU					
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL						
CASING:	SSA / HW	4"	140 LBS.	30"						
SAMPLER:	SS	1 3/8"	140 LBS.	30"						
CORE BARREL:	NQ	2"								

CASING BLOWS	G SAMPLE SAMPLER BLOWS PER 6"		DEDTU	CTDATA & TECT DATA						
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
HW									0.2	FOREST DUFF
*										ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 2.0'
										INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
										MODERATELY HARD, HIGHLY FRACTURED, LIGHT IRON OXIDE STAINING
	R1	4.5'	4.5'	6.5'					-	RQD = 0% VERY POOR
									-	BECOMING LESS FRACTURED
										FRACTURES AT 70-90 DEGREES
	R2	5.0'	5.0'	11.5'						RQD = 71% FAIR
									-	FRACTURES AT 5, 70 AND 90 DEGREES
										FRACTORES PARALLEL FOLIATION
	R3	5.0'	5.0'	16.5'					-	RQD = 82% GOOD
										CONTAINS THIN QUARTZ VEINS
										FRACTURES PARALLEL WEAK FOLIATION AT 60-70 AND 90 DEGREES
										FRACTURE SURFACES IRON OXIDE STAINED
	R4	5.0'	5.0'	21.5'						RQD = 52% FAIR
									-	
										FARTINES AT 5, 60, 70 AND 90 DEGREES
	R5	5.0'	5.0'	26.5'					-	RQD = 74% FAIR
	R6	5.0'	5.0'	31.5'						RQD = 74% FAIR
										VERY CLOSELY SPACED STEEP ANGLE TO VERTICAL FRACTURES BELOW 33.5±
	R7	5.0'	4.2'	36.5'						RQD = 28% POOR
					-				-	
									-	
SAMPI	ES:			SOILC	LASSI	FIED BY	<i>(</i> :		REMAR	KS:
<i>3.</i> El						0				WATER INTRODUCED DURING DRILLING
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY.		STRATIFICATION LINES REPRESENT THE ()
C = 3" S	HELBY		F	X	SOI	L TECH	I VISU	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
0 = 3.3	JIEL		· <b>L</b>			UNAIC				BORING NO.: B-T41



# **BORING LOG**

MIKE NADEAU

BORING NO .:	B-T41
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/19/2013
DATE FINISH:	11/19/2013
ELEVATION:	1710' ±
SWC REP .:	PJO
WATER LEVEL INFOR	RMATION

WATER AT 7.3' ON 11/21/2013

DRILLING FIRM: NORTHERN TEST BORINGS, INC. DRILLER: SIZE I.D. HAMMER WT. HAMMER FALL TYPE CASING: SSA / HW 4" 140 LBS. 30" 1 3/8" 140 LBS. SAMPLER: SS 30" 2" NQ

REED & REED, INC.

BINGHAM, MAINE

BLUE SKY WEST WIND POWER PROJECT

CORE BARREL:

PROJECT:

CLIENT : LOCATION:

CASING BLOWS	NG SAMPLE		SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST ΠΑΤΑ		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEFIN	SINATA & LEST DATA
	R8	5.0'	5.0'	41.5'						ROD = 60% FAIR
	110	0.0	0.0	41.0						
										INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
										MODERATELY HARD, FRACTURES AT 5, 10, 45 AND 60 DEGREES
	R9	5.2'	5.2'	46.7'						RQD = 78% GOOD
										WIDELY SPACED VERTICAL FRACTURES
	R10	4.8'	4.8'	51.5'						RQD = 90% GOOD / EXCELLENT
										SHALLOW FRACTURES AT 5-10 DEGREES
	R11	3.5'	3.5'	55.0'					55.0'	RQD = 93% EXCELLENT
										BOTTOM OF EXPLORATION AT 55.0'
SAMPLI	ES:			SOIL C	LASSI	FIED BY	:		REMAR	
D = SPL	IT SPC	ON			DRII	LLER - '	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE	_	Х	SOI	L TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5"	SHELE	BY TUB	E		LAB	ORATC	RY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T41



B-T41, R1 TO R4 (2.0'-21.5')

0-0014.3 -T-B41 T-B41 Reed i heed RI (2.0'-6.5') R=4.5 2.0' RD Singham ME 6.51 R2 (6.5' - 11.5') R= 5.0 RE R3 (11.5' - 16.5') R= 5.0' 11.5 11.5' (P3) Ry (165'- 215') R= 5.0 16.5 16.5' (RY) 21.5

B-T41, R5 TO R8 (21.5'-41.5')





#### B-T41, R9 TO R11 (41.5'-55.0')





# BORING LOG

BORING NO .:	B-T42
SHEET:	1 OF 2
PROJECT NO.:	10-0014.3
DATE START:	11/21/2013
DATE FINISH:	11/21/2013
ELEVATION:	1580' ±
SWC REP .:	PJO
WATER LEVEL INFOR	RMATION

WATER AT 17.2' ON 11/21/2013

PROJECT:	BLUE SKY WE	BLUE SKY WEST WIND POWER PROJECT								
CLIENT :	REED & REED	EED & REED, INC.								
LOCATION:	BINGHAM, MA	INGHAM, MAINE								
DRILLING FIRM:	NORTHERN T	EST BORING	DRILLER:	MIKE NADEAU						
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL						
CASING:	SSA / HW	4"	140 LBS.	30"						
SAMPLER:	SS	1 3/8"	140 LBS.	30"	_					
CORE BARREL:	NQ	2"			-					

CA	ASING SAMPLE SAMPLER BLOWS PER 6"										
BL(	DWS ER	NO.	PEN.	REC.	DEPTH	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
FC		-			@ BOT		-	_			EQREST DUES / DARK BROWN SAND AND SUIT WITH ORGANICS
	vv	1D	24"	19"	2 0'	1	1	7	15	15	-LOOSE-
		10	27	10	2.0			,	10	_1.0	
											BROWN SAND AND SILT, SOME GRAVEL
											WITH COBBLES (GLACIAL TILL)
		2D	24"	22"	7.0'	12	15	14	17		~MEDIUM DENSE~
	,										
		20	24"	21"	12.0'	4	4	0	10		
		30	24	21	12.0	4	4	0	12		
										15.0'	
		4D	4"	4"	15.3'	50/4"					~VERY DENSE~
											GRAY GRAVELLY SILT AND SAND
											WITH COBBLES (GLACIAL TILL)
		5D	3"	3"	20.2'	50/3"					
		6D	9"	6"	25.7'	42	50/3"			25.7	
		-			-						ADVANCE BY ROLLER CONE
											THROUGH WEATHERED BEDROCK TO 28.1'
											ADVANCE BY ROLLER CONE THROUGH BEDROCK TO 30.0'
											GRAY PHYLLITIC METASILTSTONE
-		D4	25	2.01	22 51						MODERATELY HARD, SLIGHTLY WEATHERED
		К1	3.5	3.0	33.5						KQU = 83% GUUU
⊢											
		R2	2.9'	3.2'	36.4'						RQD = 45% POOR
										40.0'	
S۵		s∙			SOLLO			/.		REMAR	RKS [.]
<u> </u>	L	-0.									WATER INTRODUCED DURING DRILLING
D =	SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C =	3" S	HELBY	' TUBE		Х	SOI	L TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U =	3.5"	SHELE	BY TUB	E		LAB	ORATO	RY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T42



PROJECT:

# **BORING LOG**

BORING NO .:	B-T42			
SHEET:	2 OF 2			
PROJECT NO .:	10-0014.3			
DATE START:	11/21/2013			
DATE FINISH:	11/21/2013			
ELEVATION:	1580' ±			
SWC REP .:	PJO			
WATER LEVEL INFOR	RMATION			

WATER AT 17.2' ON 11/21/2013

CLIENT :	REED & REED	REED & REED, INC.									
LOCATION:	BINGHAM, MA	BINGHAM, MAINE									
DRILLING FIRM:	NORTHERN T	EST BORING	G, INC.	DRILLER:	MIKE NADEAU						
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL							
CASING:	SSA / HW	4"	140 LBS.	30"							
SAMPLER:	SS	1 3/8"	140 LBS.	30"							
CORE BARREL:	NQ	2"									

BLUE SKY WEST WIND POWER PROJECT

CASING BLOWS	3 SAMPLE SAMPLER BLOWS PER 6"		ПЕРТЦ	STRATA & TEST DATA						
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	24	STRATA & TEST DATA
	R3  R4	4.9' 5.0'	4.6'	41.5'						RQD = 51% FAIR GRAY PHYLLITIC METASILTSTONE MODERATELY HARD, SLIGHTLY WEATHERED MODERATE TO VERTICAL FRACTURE ANGLES AT 30, 60 AND 70-90 DEGREES RQD = 78% GOOD CLOSE TO WIDELY SPACED FRACTURES FRACTURES AT 5, 45 AND 90 DEGREES
	R5	4.6'	3.7'	51.1'					54.01	RQD = 53% FAIR CLOSELY SPACED FRACTURES
		3.5'	2.8'						54.6	BOTTOM OF EXPLORATION AT 54.6'
SAMPLES:       SOIL CLASSIFIED BY:       F         D = SPLIT SPOON       DRILLER - VISUALLY       F         C = 3" SHELBY TUBE       X       SOIL TECH VISUALLY         U = 3.5" SHELBY TUBE       LABORATORY TEST				/: VISUAL J VISU DRY TE:	LY JALLY ST	REMAR	Image: Water Introduced During Drilling         Stratification Lines Represent The         APPROXIMATE BOUNDARY BETWEEN SOIL TYPES         AND THE TRANSITION MAY BE GRADUAL.    Boring No.: B-T42			



B-T42, R1 TO R5 (30.0'-51.1')



B-T42, R6 (51.1'-54.6')





BINGHAM, MAINE

TYPE

SSA / HW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

4"

1 3/8"

2"

NORTHERN TEST BORING, INC.

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

# **BORING LOG**

MIKE NADEAU

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T43								
SHEET:	1 OF 2								
PROJECT NO.:	10-0014.3								
DATE START:	11/21/2013								
DATE FINISH:	11/21/2013								
ELEVATION:	1610' ±								
SWC REP.:	PJO								
R LEVEL INFORMATION									

WAT	ER L	_EVE	EL IN	FOR	MATIC

WATER AT 1.0' ON 11/21/2013

WATER AT 2.5' ON 11/22/2013

CASING BLOWS	G SAMPLE SAMPLER BLOWS PER 6"				LOWS P	ER 6"	DEDT			
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	SIRATA & TEST DATA
									0.8'	BROWN SANDY SILT WITH ORGANICS
										ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 2.0'
										DARK GRAY METASILTSTONE
										MEDIUM TO MODERATELY HARD, SLIGHTLY WEATHERED
										HIGHLY FRACTURED, NEAR VERTICAL FRACTURE ANGLES
	R1	4.5'	3.0'	6.5'					-	RQD = 0% VERY POOR
										FRACTURE ANGLES AT 45, 70 AND 90 DEGREES
										LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES
	R2	4.5'	4.5'	11.0'						RQD = 51% FAIR
										BECOMING LESS FRACTURED
										SHALLOW ANGLE FRACTURES AT 20-40 DEGREES
	D3	5.0'	4 0'	16.0'						
	113	5.0	4.5	10.0					-	
										STEEP TO VERTICAL FRACTURE ANGLES AT 70-90 DEGREES
									-	LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES
	R4	4.5'	3.8'	20.5'						RQD = 39% POOR
									-	FRACTURE ANGLES AT 20-45 DEGREES
	R5	4.5'	4.1'	25.0'						RQD = 64% FAIR
									-	
									-	
	R6	5.0'	5.0'	30.0'						RQD = 77% GOOD
										AT 5, 45, 70 AND 90 DEGREES FROM HORIZONTAL
	R7	5.0'	5.0'	35.0'						RQD = 83% GOOD
										STEEP ANGLE TO VERTICAL
										FRACTURES EXTEND THROUGH ENTIRE RUN
	Do	4.01	1.01	00.01					40.01	
	R8	4.2	4.2	39.2					40.0	RQD = 66% FAIR
SAMPLE	ES:			SOIL C	LASSI	-IED B	<i>(</i> :		REMAR	
D = SPI	IT SPC	ON			DRI	LLER -	VISUAI	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE		Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE			AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T43							



BLUE SKY WEST WIND POWER PROJECT

PROJECT:

SAMPLES:

D = SPLIT SPOON

C = 3" SHELBY TUBE

U = 3.5" SHELBY TUBE

# **BORING LOG**

BORING NO .:	B-T43
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/21/2013
DATE FINISH:	11/21/2013
ELEVATION:	1610' ±
SWC REP.:	PJO
R LEVEL INFOR	RMATION

WATER LEVEL INFORMATION
-------------------------

1/21/2013

CLIENT	:		REED	& REED	D, INC.			DATE FINISH: 11/		
LOCATI	ON:		BINGH	iam, ma	AINE					
DRILLIN	IG FIRM	<b>/</b> 1:	NORT	HERN T	EST B	ORING	, INC.		D	DRILLER: MIKE NADEAU
			ΤY	′PE	SIZE	SIZE I.D. HAMMER WT. HAMMER FA			. HAMMI	ER FALL SWC REP.:
CASING	<b>:</b> :		SSA	/ HW	2	4"	140	LBS.	3	30" WATER LEVEL INFORMATIO
SAMPL	ER:		S	SS	13	3/8"	140	LBS.	3	30" WATER AT 1.0' ON 11/21/2013
CORE E	BARREI	_:	N	IQ	2	2"				WATER AT 2.5' ON 11/22/2013
							-			
CASING BLOWS		SA	<b>NPLE</b>		SAM	PLER B	LOWS F	PER 6"		
PER	NO	DEN	PEC	DEPTH	0.6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
FOOT	NO.	FEN.	REC.	@ BOT	0-0	0-12	12-10	10-24		
					-				-	
	DO	0.41	0.01	40.01					-	
	R9	3.1	3.0	42.3					-	
									-	MEDIUM TO MODERATELY HARD, SLIGHTLY WEATHERED
									-	
	P10	5.0'	1 0'	17 2'						LIGHT INON OXIDE STAINING ON FRACTORE SURFACES
	RIU	5.0	4.0	47.3					-	
									-	
	R11	4.0'	3 0'	51 3'						
	NTT	4.0	0.0	51.5					-	CLOSELY SPACED STEEP ANGLE TO VERTICAL FRACTURES
	R12	3.7'	3.0'	55.0'					55.0'	ROD = 32% POOR
	1112	0.7	0.0	00.0					00.0	
										BOTTOM OF EXPLORATION AT 55.0'
									-	
									-	
									1	
									1	
									-	
									-	
			<u> </u>				<u> </u>		-	
			<u> </u>				<u> </u>		-	
									4	
									-	
									-	
		1	1	1 1		1	1	1	1	

SOIL CLASSIFIED BY: **REMARKS:** WATER INTRODUCED DURING DRILLING DRILLER - VISUALLY STRATIFICATION LINES REPRESENT THE Х SOIL TECH. - VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYP

AND THE TRANSITION MAY BE GRADUAL.

LABORATORY TEST

	$\bigcap$
ES	$\subseteq$

B-T43

BORING NO .:



#### B-T43, R1 TO R3 (2.0'-16.0')



B-T43, R4 TO R7 (16.0'-35.0')





#### B-T43 R8 TO R12 (35'-55')





MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

3"

1 3/8"

2"

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

CORE BARREL:

U = 3.5" SHELBY TUBE

LABORATORY TEST

### **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T44							
SHEET:	1 OF 2							
PROJECT NO .:	10-0014.3							
DATE START:	11/20/2013							
DATE FINISH:	11/20/2013							
ELEVATION:	1603' ±							
SWC REP .:	PJO							
WATER LEVEL INFORMATION								
WATER AT 6.3' ON 11/20/2013								
WATER AT 6.5' ON 11/26/13								
WATED AT 2 4 ON 12/2/2012								

									WATER AT 3.4' ON 12/3/2013				
CASING		SAMPLE SAMPLER BLOWS PER 6"					PER 6"						
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA			
NW									1.0'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~LOOSE~			
1	1D	24"	12"	2.0'	1	1	2	2		BROWN SAND AND SILT TRACE GRAVEL			
									2.8'	(GLACIAL TILL) ~LOOSE~			
										ADVANCE BY ROLLER CONE THROUGH BEDROCK TO 4.2'			
•													
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE			
										MODERATELY HARD, SLIGHTLY WEATHERED, FRACTURE			
										SURFACES IRON OXIDE STAINED			
										STEEP ANGLE TO VERTICAL FOLIATION, CRACKS AND FRACTURES			
	R1	5.0'	5.0'	9.2'						RQD = 62% FAIR PRIMARY FRACTURES AT 70-90 DEGREES			
										SECONDARY FRACTURES AT 5, 20 AND 45 DEGREES			
									_				
										STEEP TO VERTICAL FRACTURES AND CRACKS			
										EXTEND THROUGH ENTIRE RUN			
	R2	5.0'	5.0'	14.2'						RQD = 32% POOR CONTAINS THIN QUARTZ VEINS			
									-				
									-	STEEP TO VERTICAL FRACTURES AND CRACKS			
									-				
	R3	5.1'	5.1'	19.3'						RQD = 72% FAIR			
									-	STEEP TO VERTICAL FRACTURES AND CRACKS			
									-	EXTEND THROUGH ENTIRE RUN			
									-				
	R4	3.9	3.9'	23.2					-	RQD = 16% VERY POOR			
									-				
									-	FRACTURES AT 5, 20 AND 70-90 DEGREES			
									-				
	DE	E 0'	E 0'	20.21					-				
	КЭ	5.0	5.0	20.2						RQD = 71% FAIR			
									-				
									-				
	R6	5.0'	5.0'	33.2'						ROD - 64% FAIR			
	110	0.0	0.0	00.2									
									1	SHALLOW STEEP AND VERTICAL FRACTURES AT 5-10, 45 AND 80-90 DEGREES			
										FRACTURE SURFACES AND EXTERIOR OF CORE IRON OXIDE STAINED			
	R7	5.0'	4.8'	38.2'					1	RQD = 70% FAIR			
			-						40.0'				
0.0.0	-0	1	1	00" -				1					
SAMPL	=S:			SOIL C	LASSI	-IED B	<b>(</b> :		REMAR				
יחי _ פרי					יסס		//01//						
0 = 3PL				V		LLEK - I TECU							
0 - 3 3		TODE			301		vist		1				

AND THE TRANSITION MAY BE GRADUAL.

BORING NO .:

B-T44



# **BORING LOG**

BORING NO .:	B-T44								
SHEET:	2 OF 2								
PROJECT NO .:	10-0014.3								
DATE START:	11/20/2013								
DATE FINISH:	11/20/2013								
ELEVATION:	1603' ±								
SWC REP.: PJO									
WATER LEVEL INFORMATION									
WATER AT 6.3' ON 11/20/2013									

WATER AT 6.5' ON 11/26/13

WATER AT 3.4' ON 12/3/2013

CASING:
SAMPLER:

PROJECT:

LOCATION:

DRILLING FIRM:

CLIENT :

BLUE SKY WEST WIND POWER PROJECT REED & REED, INC. BINGHAM, MAINE MAINE TEST BORINGS DRILLER: BRAD ENOS TYPE SIZE I.D. HAMMER WT. HAMMER FALL NW 3" 140 LBS. 30" SS 1 3/8" 140 LBS. 30" 2"

NQ CORE BARREL:

CASING BLOWS		SAN	<b>IPLE</b>		SAMPLER BLOWS PER 6"		DEDTU			
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE MODERATELY HARD, SLIGHTLY WEATHERED
	R8	5.0'	4.8'	43.2'						RQD = 62% FAIR FRACTURE SURFACES IRON OXIDE STAINED
										FRACTURE ANGLES AT 10, 70 AND 90 DEGREES
	R9	4.7'	5.0'	47.9'						RQD = 77% GOOD
										FRACTURE ANGLES AT 5 AND 90 DEGREES
	R10	5.0'	5.0'	52.9'						RQD = 90% GOOD / EXCELLENT
	R11	2.1'	2.1'	55.0'					55.0'	RQD = 81% GOOD
										BOTTOM OF EXPLORATION AT 55.0
									-	
									-	
SAMPLES: SOIL CLASSIFIED BY:						FIED B	/:		REMAR	KS:
D = SPI	IT SPO	ON			DRI	LLER -	VISUAI	LY		WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE	_	Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5"	SHELE	3Y ΓUΒ	E		LAB	ORATO	DRY TE	51		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T44



#### B-T44, R1, R2, R11 (4.2'-14.2') AND (52.9'-55.0')

B-T44 18. A2'-42' could 50' rec = 60" Th 42'-142' could 50' rec = 60" M 524-555' could 50' rec = 21" (6-765) Canal Caller B.T55 18-T44 B-T55 RI to RG (Cobbles) B-T35 B.T55 - (E), (2), (2) RJES Cobbles + B-THY (RI) boulders SJ.F.SS B.T44 RI (4.2'-9.2') R=5.0' 4.2' (RT) B-T44 9.2 R2 (9.2'-14.2') R:5.0' (RZ) 9.2' RH ( Man . 52.9.55) 19.2

B-T44, R3 TO R6 (14.2'-33.2')

6-744 B-T44 B-744 R3 (14.2.19.3) R=5.1' R4 (19.3.23.2) R=3.9' 14.2 (P3) 19.3' R3 19.3 (PH) 232 23.2' RS R5 (23.2.28.2') R= 5.0' 28.2 28.2 RG R6 (28.2-33.2) R=5.0' 33.2



#### B-T44, R7 TO R10 (33.2'-52.9')

B-T44 B. T44 RT (33.2'-38.2') R:4.8' RIO (47.9-52.9') R=50' [332' 33.2 -38.2 and 5.0 rec= 60 Land 56 TOC = 57" 782'-452' coid 47 roc= 44" RT 38.2 R8 (38.2' - 43.2') R=4.8' 38.2 (P-8) 43,2 R9(43.2 - 47.9') R=5.0' 43.2' RA) 47.8 47.7' 1521



MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / NW

SS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

### **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T45
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/26/2013
DATE FINISH:	11/26/2013
ELEVATION:	1602' ±
SWC REP.:	A.STRUGATSKIY

WATER LEVEL INFORMATION

WATER AT 9.0' ON 11/26/13

WATER AT 3.5' ON 11/27/13

SAMPLER: CORE BARREL:

DRILLING FIRM:

PROJECT:

CLIENT : LOCATION:

CASING:

CASING BLOWS	SING SAMPLE				SAMPLER BLOWS PER 6"					
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
									0.5	FOREST DUFF
	1D	24"	5"	2.0'	2	1	1	9		BROWN SANDY SILT
									3.0'	~ VERY LOOSE ~
	2D	24"	20"	7.0'	7	7	7	7		~ MEDIUM DENSE ~
										BROWN SANDY SILT, SOME GRAVEL
	3D	24"	Q"	12.0'	5	0	14	17		WITH COBBLES (GLACIAL TILL)
	30	24	0	12.0	5	3	14	17		
										BECOMING GRAVELLY
	4D	24"	18"	17.0'	42	36	48	60		~VERY DENSE~
									10 0'	
									13.0	
										GRAY GRAVELLY SANDY SILT
	5D	24"	24"	22.0'	8	36	17	20		WITH COBBLES (GLACIAL TILL)
	6D	24"	16"	27.0'	22	44	27	40		~ VERY DENSE ~
	7D	24"	15"	32 0'	26	29	26	23		
	10	2.	10	02.0	20	20	20	20		
	8D	13"	13"	37.0'	13	24	50/1"			
								-		
									40.0'	
					KS.					
					WATER INTRODUCED DURING DRILLING					
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY.		STRATIFICATION LINES REPRESENT THE ()
C = 3" SHELBY TUBE X SOI				I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES			
U = 3.5" SHELBY TUBE				LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T45	



BLUE SKY WEST WIND POWER PROJECT

### **BORING LOG**

BORING NO .:	B-T45
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/26/2013
DATE FINISH:	11/26/2013
ELEVATION:	1602' ±
SWC REP.:	A.STRUGATSKIY

WATER LEVEL INFORMATION

WATER AT 9.0' ON 11/26/13 WATER AT 3.5' ON 11/27/13

REED & REED, INC.								
BINGHAM, MAINE								
MAINE TEST	BORINGS		DRILLER:	BRAD ENOS				
TYPE	SIZE I.D.	HAMMER WT. H	AMMER FALL					
SSA / NW	3"	140 LBS.	30"					
SS	1 3/8"	140 LBS.	30"					

SAMPLER: CORE BARREL:

CASING:

PROJECT: CLIENT :

LOCATION: DRILLING FIRM:

CASING SAMPLE SAMPLER BLOWS PER 6" BLOWS **STRATA & TEST DATA** DEPTH PER DEPTH NO. PEN. REC. 0-6 6-12 12-18 18-24 FOOT @ BOT 9D 21" 21" 41.8' 17 27 29 50/3" GRAY GRAVELLY SAND AND SILT WITH COBBLES AND BOULDERS (GLACIAL TILL) ~ VERY DENSE ~ 10D 22" 19" 46.9' 50/4" 19 30 33 11D 6" 6" 50.5' 50/0" 40 12D 14" 8" 56.2 32 41 50/2" 56.2' BOTTOM OF EXPLORATION AT 56.2' SAMPLES: SOIL CLASSIFIED BY: REMARKS: WATER INTRODUCED DURING DRILLING D = SPLIT SPOON DRILLER - VISUALLY STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE Х SOIL TECH. - VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO .: B-T45



BINGHAM, MAINE MAINE TEST BORINGS

TYPE

SSA / NW

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

# **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T46
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/25/2013
DATE FINISH:	11/25/2013
ELEVATION:	1655' ±
SWC REP.:	A.STRUGATSKIY

WATER LEVEL INFORMATION

NOT OBSERVED

SAMPLER:	SS
CORE BARREL:	NQ

PROJECT: CLIENT :

LOCATION:

CASING:

DRILLING FIRM:

CASING BLOWS	G SAMPLE			SAMPLER BLOWS PER 6"			PER 6"	DEDTU	ΟΤΡΑΤΑ 8 ΤΕΩΤ ΠΑΤΑ	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
									0.4	FOREST DUFF
	1D	24"	10"	2.0'	2	1	1	10		BROWN SANDY SILT, SOME GRAVEL
									2.5	~ LOOSE ~
										ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 4.1'
	R1	1.5	1.1	5.6						RQD = 0% VERY POOR GRAY PELITIC SCHIST
	-				-					
	R2	3.8'	3.8'	9.4'						ROD - 65% FAIR FRACTURE ANGLES AT 30 70-90 DEGREES
	112	0.0	0.0	0.4						SUGHTLY TO MODERATELY FRACTURED
										CONTAINS MUSCOVITE MICA AND PYRITE
	R3	3.9'	3.9'	13.3'						RQD = 55% FAIR CONTAINS QUARTZ AND CALCITE VEINS
										CRACKS AND FRACTURE ANGLES AT 40-60 DEGREES
	R4	3.0'	2.9'	16.3'						RQD = 82% GOOD
	R5	4.6'	4.6'	20.9'						RQD = 70% FAIR
										FRACIURE SURFACES
	R6	4.8'	4.8'	25.7'						RQD = 75% FAIR / GOOD
				20.1						QUARTZ VEINS 1/4" TO 1 ½" THICK
										FRACTURE ANGLES AT 20, 30 AND 80 DEGREES
	R7	5.0'	4.8'	30.7'						RQD = 75% FAIR / GOOD
	R8	5.0'	4.7	35.7	-					RQD = 85% GOOD
	DO	2.21	2.21	20.01						
	КЭ	2.3	2.3	30.0						
									40.0'	FRACTURE SURFACES IBON OXIDE STAINED
		70.0								
SAMPLES: SOIL CLASSIFIED BY:				REMAR						
			IV							
U = 3.5" SHELBY TUBE			LABORATORY TEST				ST		AND THE TRANSITION MAY BE GRADUAL.	
S = 0.0 SHEEDI TODE									I	BORING NO <b>B-140</b>


MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

SSA / NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

# **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T46
SHEET:	2 OF 2
PROJECT NO.:	10-0014.3
DATE START:	11/25/2013
DATE FINISH:	11/25/2013
ELEVATION:	1655' ±
SWC REP.:	A.STRUGATSKIY

WATER LEVEL INFORMATION

NOT OBSERVED

SAMPLER: _____ CORE BARREL:

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

CASING BLOWS		SAN	IPLE		SAM	PLER BI	LOWS P	PER 6"	DEDTU	CTDATA & TECT DATA
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R10	3.9'	3.9'	41.9'						RQD = 87% GOOD GRAY PELITIC SCHIST MODERATELY HARD TO HARD QUARTZ VEINS UP TO 4" THICK FRACTURES AT 10, 40 AND 90 DEGREES
	R11	5.0'	5.0'	46.9'						RQD = 75% FAIR / GOOD MODERATE TO STEEP FRACTURE ANGLES AT 30, 45 AND 70-90 DEGREES LIGHT IRON OXIDE STAINING
	R12	5.0'	4.6'	51.9'						OCCASIONAL QUARTZ / IRON OXIDE VEINING RQD = 78% GOOD
	R13	3.1'	2.9'	55.0'					55.0'	VERTICAL FRACTURES RQD = 70% FAIR
										BOTTOM OF EXPLORATION AT 55.0'
SAMPLES: SOIL CLASSIFIED BY: F D = SPLIT SPOON DRILLER - VISUALLY C = 3" SHELBY TUBE X SOIL TECH VISUALLY						FIED BY LLER - L TECH ORATO	/: VISUAL I VISU DRY TF:	LY JALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL
-				L	L .	-				BONING NO B-140



B-T46, R1 TO R6 (4.1'-23.5')



B-T46, R6 TO R10 (23.5'-41.9')

	1 de
Blue Sky Wind 11/25/13	Box 2
B = 1 = 16  (unt.) R = 10 = 0014.3	
R9 38' RO 91.9'	-
in the second se	E
KEL VILLE	and a
	alabert The
	- Change
the second secon	N.



#### B-T46, R11 TO R13 (41.9'-55.0')





REED & REED, INC. BINGHAM, MAINE

TYPE

SSA / NW

SS

NQ

MAINE TEST BORINGS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

### **BORING LOG**

**BRAD ENOS** 

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T48
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/21/2013
DATE FINISH:	11/22/2013
ELEVATION:	1709' ±
SWC REP .:	PJO
WATER LEVEL INFOR	RMATION

WATER AT 12.7' ON 11/22/2013

CASING: SAMPLER: CORE BARREL:

PROJECT: CLIENT :

LOCATION: DRILLING FIRM:

CASING SAMPLE SAMPLER BLOWS PER 6" BLOWS **STRATA & TEST DATA** DEPTH PER DEPTH NO. PEN. REC. 0-6 6-12 12-18 18-24 @ BOT FOOT NW FOREST DUFF / DARK BROWN SANDY SILT WITH ROOTLETS 1D 24" 12" 2.0' 1 2 2 8 1.5 ~LOOSE~ GRAY-BROWN GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~ 24" 15" 7.0' 2D 12 10 14 14 ~VERY DENSE~ 3D 15" 11" 9.2' 21 37 50/3" 9.4' ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 10.2' INTERBEDDED GRAY PELITIC SCHIST WITH BANDS OF METASILTSTONE AND METASANDSTONE STEEP TO VERTICAL FOLIATION R1 RQD = 63% FAIR 4.1' 3.9' 14.3' AT 60-90 DEGREES MODERATELY HARD. STEEP ANGLE AND VERTICAL FRACTURES EXTEND THROUGH ENTIRE RUN AT 60-90 DEGREES IRON OXIDE STAINED, TRACE PYRITE R2 5.0' 4.9' 19.3' RQD = 14% VERY POOR FRACTURES AT 5, 20 AND 90 DEGREES RQD = 86% GOOD R3 5.0' 4.9' 24.3' HIGHLY FRACTURED THROUGH ENTIRE RUN STEEP TO VERTICAL FRACTURES AT 60-90 DEGREES R4 3.7' 3.7' 28.0' RQD = 0% VERY POOR IRON OXIDE STAINED R5 5.0' 4.5' 33.0' RQD = 0% VERY POOR PHYLLITIC, IRON OXIDE STAINED, STEEP TO VERTICAL FRACTURES EXTEND THROUGH ENTIRE RUN CONTAINS GRAPHITE AND TRACE PYRITE R6 4.8' 5.0' 37.8 RQD = 84% GOOD 40.0' SAMPLES: SOIL CLASSIFIED BY: REMARKS: WATER INTRODUCED DURING DRILLING D = SPLIT SPOON **DRILLER - VISUALLY** STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE Х SOIL TECH. - VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO .: B-T48



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

SSA / NW

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

3"

1 3/8"

2"

# **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T48								
SHEET:	2 OF 2								
PROJECT NO .:	10-0014.3								
DATE START:	11/21/2013								
DATE FINISH:	11/22/2013								
ELEVATION:	1709' ±								
SWC REP .:	PJO								
WATER LEVEL INFORMATION									

WATER AT 12.7' ON 11/22/2013

SAMPLER: SS CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

CASING BLOWS	NG SAMPLE SAMPLER BLOWS PER 6"				LOWS F	PER 6"	DEPTH	STRATA & TEST DATA		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R7	5.0'	5.0'	42.8'						RQD = 76% GOOD INTERBEDDED GRAY PELITIC SCHIST PHYLLITIC, BANDS OF METASILTSTONE QUARTZ VEINS UP TO 1/4" THICK
	R8	5.1'	5.1'	47.9'						VERTICAL FRACTURES EXTEND THROUGH RQD = 72% FAIR ENTIRE RUN
	R9	5.0'	5.0'	52.9'						IRON OXIDE STAINING ON VERTICAL FRACTURE SURFACES RQD = 94% EXCELLENT
	R10	2.1'	2.1'	55.0'					55.0'	RQD = 95% EXCELLENT
										BOTTOM OF EXPLORATION AT 55.0'
SAMPLES:     SOIL CLASSIFIED BY:     F       D = SPLIT SPOON     DRILLER - VISUALLY       C = 3" SHELBY TUBE     X     SOIL TECH VISUALLY       U = 3.5" SHELBY TUBE     LABORATORY TEST							Y: VISUAL I VISU DRY TE	LY JALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T48



B-T48, R1 TO R4 (10.2'-28.0')



B-T48, R5 TO R7 (28.0'-42.8')

6-TUR B-T48 R5 (28-33') R-48' 58 28-55 contra en 14 (1. 1875-18 contra en 197 B-T48 A 95-428 codis recta R5) 29' R6 (33-37.8) R=5.0 Cont 33 (RG) Cont. (26) 37.8' (27) R7 ( 37.8'- 42.8) R= 5.0' cont. (PT) 42.8'



#### B-T48, R8 TO R10 (42.8'-55.0')

की माउँ-मार्च क्या या गार्टी वी मार्च-गर्ग क्या राज्य-हा	6-749	B-T48	
R. GA-55 Cond 7.1 receil	R8 (42.8'-47.9') R=5.1'	42.9' (8)	47.9
1	R9 (47.9'-52.9) R= 5.0'	47.9' 52.9' RRD	55.0'
	RIO (52.9.55') R=2.1	47.9' RA	52.9'
	the second se		STATE
a section of the sect	the second second	the state of the s	in the second se
and a second second	See and		1 L
The second second	and the second	and a second and a second	



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

SSA / NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

3"

1 3/8"

2"

PROJECT:

LOCATION:

DRILLING FIRM:

CORE BARREL:

CLIENT :

CASING:

SAMPLER:

### **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

 BORING NO.:
 B-T49

 SHEET:
 1 OF 2

 PROJECT NO.:
 10-0014.3

 DATE START:
 11/21/2013

 DATE FINISH:
 11/21/2013

 ELEVATION:
 1636' ±

 SWC REP.:
 PJO

WATER LEVEL INFORMATION

WATER AT GROUND SURFACE ON 11/25/13

WATER AT GROUND SURFACE ON 11/26/13

CASING	3 SAMPLE SAMPLER BLOWS PER 6"						014/0 0			
BLOWS PER	NO	SAN		DEPTH	SAM	LER BL	12-18	18-24	DEPTH	STRATA & TEST DATA
FOOT	NO.	FLN.	REC.	@ BOT	0-0	0-12	12-10	10-24	> 0.5'	EQREST DUEE / BROWN SANDY SILT
									0.0	ADVANCE BY SOUD STEM AUGER THROUGH BEDROCK TO 1.3
									-	
										INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
										MODERATELY HARD, SLIGHTLY WEATHERED, FRACTURE
										SURFACES IRON OXIDE STAINED
	R1	5.2'	5.0'	6.5'						RQD = 43% POOR
									-	CONTAINS THIN QUARTZ VEINS AND PYRITE
									-	AT 70-90 DEGREES
									-	
	R2	5.0'	5.0'	11.5'					-	RQD = 56% FAIR
										FRACTURE SURFACES IRON OXIDE STAINED
									-	PHYLLITIC
	R3	4.7'	4.6'	16.2'						RQD = 70% FAIR
	R4	4.6'	4.9'	20.8'						RQD = 56% FAIR
										FRACTURES ANGLES AT 5, 70-90 DEGREES
	<b>D</b> 5	4.51	4.01	05.01						
	R5	4.5	4.3	25.3						RQD = 57% FAIR
	R6	4.1'	4.3'	29.4'						RQD = 88% GOOD
										VERY SLIGHTLY WEATHERED
									-	FRACTURES ANGLES AT 5, 70-80 DEGREES
										STEEP ANGLE FOLIATION AND CRACKS
	DZ	E 1'	E 1'	24 5'						AT 70-85 DEGREES
	κ/	5.1	5.1	34.3					1	RQD = 79% GOOD
									-	
	R8	5.0'	5.0'	39.5'					40.0'	RQD = 96% EXCELLENT
SAMPLE	ES:			SOIL C	LASSIF	FIED BY	<b>'</b> :		REMAR	RKS:
										WATER INTRODUCED DURING DRILLING
D = SPL	IT SPC	ON			DRI	LER - `	VISUAL	LY		STRATIFICATION LINES REPRESENT THE ( )
C = 3" S	HELBY	TUBE	-	X	SOI		VISL			APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5"	SHELE	SY IUB	E		LAB	URAIC	RYTE	51		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T49



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

SSA / NW

BLUE SKY WEST WIND POWER PROJECT

3"

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

### **BORING LOG**

BRAD ENOS

DRILLER:

SIZE I.D. HAMMER WT. HAMMER FALL

BORING NO .:	B-T49
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/21/2013
DATE FINISH:	11/21/2013
ELEVATION:	1636' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

BORING NO .:

B-T49

SAMPLER:			5	SS	13	/8"	140 LBS.	3	0" WATER AT GROUND SURFACE ON 11/25/13			
CORE BARREL		_:	NQ		2					WATER AT GROUND SURFACE ON 11		
04.011/0												
BLOWS		SAN	<b>IPLE</b>		SAM	PLER BI	LOWS P	'ER 6"	DEDTU	ΟΤΠΑΤΑ « ΤΕΩΤ ΠΑΤΑ		
PER	NO.	PEN.	REC.	DEPTH	0-6	6-12	12-18	18-24	DEPTH	SIRATA & TEST DATA		
FUUT				@ BO1								
	R9	3.3'	3.0'	42.8'					-	RQD = 70% FAIR		
										GRAY INTERBEDDED PELITIC SCHIST AND METASILTSTONE		
										MODERATELY HARD TO HARD, VERY SLIGHTLY WEATHERED		
									1			
	R10	4.8'	5.1'	47.6'						RQD = 95% EXCELLENT		
										CONTAINS THIN QUARTZ VEINS		
										FRACTURES AT 5, 45, 70 AND 90 DEGREES		
									-			
	R11	5.1'	5.1'	52.7'					-	RQD = 94% EXCELLENT		
									-			
	D40	0.41	2.41	<b>55 0</b>					<b>55 0</b>			
	RIZ	3.1	3.1	0.00					0.0	RQD = 81% GOOD		
									-	BOTTOM OF EXPLORATION AT 55.8		
									1			
									-			
									-			
									-			
									1			
									4			
									-			
									-			
SAMPLI	ES:			SOIL C	LASSIF	FIED BY	<i>(</i> :		REMAR	KS:		
								1.14		WATER INTRODUCED DURING DRILLING		
U = SPL				~	DRI	LLER -	VISUAL					
ບ= 3 ອ U = 3.5"	SHELDY		F				RY TE	ST		AND THE TRANSITION MAY BE GRADUAL		
- 0.0						2.2.10				IBURING NUT - RIAU		



B-T49, R1 TO R4 (1.3'-20.8')



B-T49, R5 TO R8 (20.8'-39.5')





B-T49 R9 TO R12 (39.5'-55.8')

#10-0P14.3	
Bingham, ME "/21/13	B-T49 R9 (39.5 - 42.8) R=3.0' B-T49 R10 (428' 41.6) R=5.1' 395 C 428
	$\begin{array}{c} \lambda_{11}^{(1)} (47.6 - 52.7) \\ \lambda_{212}^{(1)} (52.7 - 55.8') \\ \lambda_{212}^{(1)} (52.7 - 55.8$
	77-10-10
RIS.	an and the second



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

SSA / NW

SS

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

3"

1 3/8"

PROJECT:

LOCATION:

DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

### **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

 BORING NO.:
 B-T50

 SHEET:
 1 OF 2

 PROJECT NO.:
 10-0014.3

 DATE START:
 11/21/2013

 DATE FINISH:
 11/21/2013

 ELEVATION:
 1590' ±

 SWC REP.:
 PJO

WATER LEVEL INFORMATION

WATER AT 5.7' ON 11/21; WATER AT 4.0' ON 11/26 WATER AT 4.4' ON 11/27/2013

CORE BARREL: NQ 2"			2"			WATER AT 4.4' ON 11/27/2013					
BLC	SING DWS		SAN	<b>IPLE</b>		SAM	PLER BI	LOWS F	NS PER 6"	DEDTU	STDΑΤΑ 8 ΤΕST DΑΤΑ
PI	ER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPIN	STRATA & TEST DATA
N	W.				0 001					1.0'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~VERY LOOSE~
1		1D	24"	7"	2.0'	1	wон	1	1		~VERY LOOSE~
											BROWN SILT AND SAND, SOME GRAVEL
											WITH COBBLES (GLACIAL TILL)
		2D	24"	12"	7.0'	9	9	15	15		~MEDIUM DENSE~
		3D	24"	23"	12.0'	20	17	21	37		DENSE
		30	24	23	12.0	20	17	21	51		
		4D	0"	0"	15.0'	50/0"				15.0'	
											INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
											MODERATELY HARD, MODERATE TO SLIGHTLY WEATHERED, FRACTURE
											SURFACES AND CORE IRON OXIDE STAINED
		R1	5.0'	5.0'	20.2'						
											HIGHLY FRACTURED AND IRON OXIDE STAINED
		R2	3 9'	3.9'	23.1'						
			0.0	0.0	2011						SHALLOW FRACTURES AT 5-20 DEGREES
										1	
		R3	3.6'	3.6'	26.7'						RQD = 69% FAIR
											SHALLOW FRACTURES AT 5-20 DEGREES
											FRACTURE SURFACES IRON OXIDE STAINED
		D4	5 O'	5.0'	21 7						
		Κ4	5.0	5.0	31.7						RUD = 80% GOOD SHALLOW TO VERTICAL FRACTURE ANGLES
											HIGHLY FRACTURED. SEVERE TO MODERATELY WEATHERED. SOFT AND
											IRON OXIDE STAINED FROM 33.7' TO 37.5' $\pm$
		R5	3.8'	3.0'	35.5'	1			1		RQD = 37% POOR
											MODERATELY HARD, FRACTURE SURFACES
											IRON OXIDE STAINED
										40.0'	
SAI	MPLE	S:			SOIL C	LASSI	FIED BY	<i>(</i> :		REMAR	KS:
						-					WATER INTRODUCED DURING DRILLING
D =	SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE ( )
C =	3" S	HELBY	TUBE	_	X	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE						LAE	ORATC	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T50



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

SSA / NW

SS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

### **BORING LOG**

BRAD ENOS

DRILLER:

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

BORING NO .:	B-T50
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/21/2013
DATE FINISH:	11/21/2013
ELEVATION:	1590' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 5.7' ON 11/21; WATER AT 4.0' ON 11/26
WATER AT 4.4' ON 11/27/2013

CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS		SAN	<b>IPLE</b>		SAM	PLER BI	LOWS P	PER 6"	DEDTU	STDATA & TEST DATA
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R6	4.9'	2.9'	40.4'						RQD = 35% POOR
									-	INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE
									-	IRON OXIDE STAINING ON CORE AND FRACTURE SURFACES
	-								-	SHALLOW TO STEEP ANGLE FRACTURES
										AT 5, 20, 70 AND 85 DEGREES
	R7	4.9'	5.2'	45.3'					-	RQD = 64% FAIR
									-	THIN QUARTZ VEINS PITTED
									-	
									-	SHALLOW TO STEEP FRACTURE ANGLES
	5.0								-	
	R8	5.0'	4.7	50.3					-	RQD = 58% FAIR
	-								-	
	DO	4 7'	4.6'	55 O'					55.0	
	КЭ	4.7	4.0	55.0					55.0	RQD = 70% FAIR
										BOTTOM OF EXPLORATION AT 55 0'
									-	
									1	
									1	
SAMPLI	ES:			SOIL C	LASSI	FIED BY	<i>(</i> :		REMAR	KS:
					_					WATER INTRODUCED DURING DRILLING
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE ()
C = 3" S	HELBY	' TUBE		Х	SOI	L TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE			LAB	ORATO	ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T50		



### B-T50, R1 TO R4 AND CONT. R9 (15.2'-31.7') AND (53.0'-55.0')



B-T50, R5 TO R9 (31.7'-53.0')





### **BORING LOG**

 BORING NO.:
 B-T53

 SHEET:
 1 OF 2

 PROJECT NO.:
 10-0014.3

 DATE START:
 11/27/2013

 DATE FINISH:
 12/3/2013

 ELEVATION:
 1602' ±

 SWC REP.:
 A.STRUGATSKIY

WATER LEVEL INFORMATION

WATER AT 10.0' ON 12/3/13

WATER AT 19.5' ON 12/4/13

PROJECT:	BLUE SKY WEST WIND POWER PROJECT											
CLIENT :	REED & REE	REED & REED, INC.										
LOCATION:	BINGHAM, M	AINE										
DRILLING FIRM:	MAINE TEST	BORINGS		DRILLER:	BRAD ENOS							
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL								
CASING:	HW	3"	140 LBS.	30"								
SAMPLER:	SS	SS 1 3/8" 140 LBS. 30"										
CORE BARREL:	NQ2	2"										

CASING BLOWS		SAN	1PLE		SAMF	PLER B	LOWS P	PER 6"	DEDTU	CTDATA & TECT DATA
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
									0.5	FOREST DUFF
	1D	24"	11"	2.0'	1	1	1	3	2.0'	BROWN SANDY SILT, TRACE GRAVEL WITH ROOTLETS ~VERY LOOSE~
						_				
	2D	24"	22"	7.0'	7	9	9	45		~MEDIUM DENSE~
	3D	24"	24"	10.0'	Q	15	16	16		GLACIAL TILL)
	50	24	24	10.0	0	15	10	10		
	4D	24"	24"	12.0'	8	16	22	25		~DENSE~
					0					
	5D	22"	18"	16.8'	49	47	50	50/4"		~VERY DENSE~
	6D	1.4"	6"	21.2'	20	61	50/2"			
	00	14	0	21.2	30	01	50/2			
	7D	24"	8"	27.0'	16	22	26	40		
									30.0	
	0	<b>A</b> "	<b>A</b> "	21.21	100/4"					
	00	4	4	31.3	100/4					
									34 0'	
									5	GRAY PELITIC SCHIST
	R1	1.5'	1.0'	35.5'	1					RQD = 27% POOR MODERATELY HARD, SLIGHTLY WEATHERED,
										PITTED AND IRON OXIDE STAINED, NEAR VERTICAL FOLIATION AT 75-85°
										FRACTURES AT 35-45 AND 70-80 DEGREES
	R2	2.8'	2.8'	38.3'						RQD = 45% POOR SECONDARY FRACTURES AT 10-20 DEGREES
									40.0'	SOIL INFILLED FRACTURES FROM 35.5' - 40.0'
SAMPLE	ES:			SOIL C	LASSIF	FIED B	Y:		REMAR	IKS:
					_					WATER INTRODUCED DURING DRILLING
D = SPL	IT SPC	ON			DRII	LER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE ()
C = 3" S	HELBY	' TUBE		Х	SOII	TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE				LAB	ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T53	



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

НW

SS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

### **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T53
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/27/2013
DATE FINISH:	12/3/2013
ELEVATION:	1602' ±
SWC REP.:	A.STRUGATSKIY

WATER LEVEL INFORMATION

WATER AT 10.0' ON 12/3/13

CORE BARREL:		N	Q2	2"					WATER AT 19.5' ON 12/4/13	
CASING		SAL			SAM			PER 6"		
BLOWS PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R3 R4	3.4'	3.2' 3.7'	41.7'						RQD = 62% FAIR GRAY PELITIC SCHIST NEAR VERTICAL FOLIATION AT 75-85 DEGREES VUGGY IRON OXIDE VEINS WITH QUARTZ, PYRITE AND CALCITE SHALLOW TO STEEP FRACTURE ANGLES BETWEEN 35-75 DEGREES RQD = 45% POOR
	R5 R6	3.0'	3.0' 	48.4'						RQD = 63% FAIR IRON OXIDE STAINED, CALCITE & QUARTZ VEINS PITTED STEEP ANGLE TO VERTICAL FRACTURES AT 60-90 DEGREES EXTEND THROUGH ENTIRE RUN RQD = 60% FAIR
	R7	2.6'	2.5'	56.0'					56.0	RQD = 70% FAIR
										BOTTOM OF EXPLORATION AT 56.0
SAMPLES:     SOIL CLASSIFIE       D = SPLIT SPOON     DRILL       C = 3" SHELBY TUBE     X       U = 3.5" SHELBY TUBE     LABOI		FIED B LLER - L TECH ORATC	Y: VISUAL I VISU DRY TE:	LLY JALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: <b>B-T53</b>				



B-T53, R1 TO R6 (34.0'-53.4')



B-T53, R7 (53.4'-56.0')





PROJECT:

### **BORING LOG**

BORING NO .:	B-T54
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/26/2013
DATE FINISH:	11/27/2013
ELEVATION:	1606' ±
SWC REP.:	A.STRUGATSKIY

WATER LEVEL INFORMATION

WATER AT 5.6' ON 11/27/13

WATER AT 2.7' ON 12/3/13

	-										
CLIENT :	REED & REED, INC.										
LOCATION:	BINGHAM, MAINE										
DRILLING FIRM:	MAINE TEST BO	ORINGS	DRILLER:	BRAD ENOS							
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL							
CASING:	SSA / HW	3"	140 LBS.	30"							
SAMPLER:	SS	1 3/8"	140 LBS.	30"							
CORE BARREL:	NQ2	2"									

BLUE SKY WEST WIND POWER PROJECT

CASING BLOWS		SAN	<b>IPLE</b>		SAM	PLER BI	LOWS F	PER 6"	DEDTU			
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA		
									0.5'	FOREST DUFF		
	1D	24"	10"	2.0'	1	1	2	5				
									-	BROWN SILT AND SAND, SOME GRAVEL		
										~ VERY LOOSE ~		
									4.8			
										1/2" INFILLED FRACTURE AT 8.4'		
	R1	4.3'	4.0'	9.4'						RQD = 62% FAIR GRAY PELITIC SCHIST		
										MODERATELY HARD TO HARD, STEEP FOLIATION AT 60-80 DEGREES		
									-	SLIGHTLY TO MODERATELY FRACTURED, PRIMARY AT 80 DEGREES		
									-	ALONG FOLIATION PLANES		
-	Do	5.01	5.01	4 4 41					-	SECONDARY FRACTURES AT 5-15 DEGREES		
	R2	5.0	5.0	14.4								
	R3	3.2'	3.1'	17.6'						RQD = 75% FAIR / GOOD		
	R4	2.9'	2.9'	20.5'						RQD = 72% FAIR		
									-			
	DE	2 0'	2 2'	22.2'					-			
	КЭ	2.0	2.3	23.3						RQD = 00% FAIR		
										MODERATELY HARD		
										FRACTURES AT 5-10, 45 AND 70 DEGREES		
	R6	4.3'	4.3'	27.6'						RQD = 84% GOOD		
									-			
	_									IRON OXIDE STAINING ON FRACTURE SURFACES		
	R7	3.4'	3.4'	31.0'					-	RQD = 48% POOR		
									-			
	R8	5.0'	5.0'	36.0'						RQD = 70% FAIR		
										WIDELY SPACED FRACTURES		
									40.0'			
SAMPL	ES:			SOIL C	LASSI	FIED B	Y:		REMAR	RKS:		
D 05:	IT 000									WATER INTRODUCED DURING DRILLING		
D = SPL				V	DRI	LLER -	VISUAL					
C = 3" SHELBY TUBE X SOIL TECH VISUALLY			AND THE TRANSITION MAY BE GRADUAL									
						I	BORING NO.: B-154					



PROJECT: CLIENT :

LOCATION:

DRILLING FIRM:

### **BORING LOG**

BRAD ENOS

DRILLER:

BORING NO .:	B-T54
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/26/2013
DATE FINISH:	11/27/2013
ELEVATION:	1606' ±
SWC REP.:	A.STRUGATSKIY

WATER LEVEL INFORMATION

WATER AT 5.6' ON 11/27/13

WATER AT 2.7' ON 12/3/13

	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL
CASING:	HW	3"	140 LBS.	30"
SAMPLER:	SS	1 3/8"	140 LBS.	30"
CORE BARREL:	NQ2	2"		

MAINE TEST BORINGS

REED & REED, INC.

**BINGHAM, MAINE** 

BLUE SKY WEST WIND POWER PROJECT

BLOWS		SAN	1PLE		SAMPLER BLOWS PER 6"					STRATA & TEST ΠΑΤΑ		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		STRATA & LEST DATA		
	R9	5.0'	5.0'	41.0'					F	RQD = 95% EXCELLENT GRAY PELITIC SCHIST STEEP FOLIATION AT 60-80 DEGREES MODERATELY HARD, PRIMARY FRACTURES AT 60-70 DEGREES ALONG FOLIATION PLANES		
	R10	5.2'	5.0'	46.2'						SECONDARY FRACTURES AT 5-15 DEGREES RQD = 96% EXCELLENT		
										WIDELY SPACED FRACTURES		
	R11	5.0'	5.0'	51.2'						RQD = 100% EXCELLENT		
	R12	4.6'	4.6'	55.8'					55.8	RQD = 98% EXCELLENT		
										BOTTOM OF EXPLORATION AT 55.8'		
SAMPLES:     SOIL CLASSIFIED BY:       D = SPLIT SPOON     DRILLER - VISUALLY       C = 3" SHELBY TUBE     X					FIED BY LLER - L TECH	Y: VISUAL I VISU	LY JALLY	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES			
U = 3.5" SHELBY TUBE LABORATORY TEST					ORATO	DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T54			



B-T54, R1 TO R5 (5.1'-23.3')

Blue Sky Wind Box 5.1 RI 9.4 11/26/3 10-0014.3 9.4' RZ RZ 14.4 14.4-17.6' RB RI-RE RY 124 20.5 R5 23.3 -

B-T54, R6 TO R9 (23.3'-41.2')

10-0014.3 Box2/3 11/27/13 23.3 27.6' 9R(cal) RB we Shy Wind R6-R9 27.6 R7 31 R8 R8 36 36 Rg 41.2 . -



### B-T54, R10 TO R12 (41.2'-55.8')





### **BORING LOG**

BORING NO .:	B-T55						
SHEET:	1 OF 2						
PROJECT NO .:	10-0014.3						
DATE START:	11/18/2013						
DATE FINISH:	11/19/2013						
ELEVATION:	1552' ±						
SWC REP.:	PJO						

WATER LEVEL INFORMATION WATER AT 2.5' ON 11/18/2013

WATER AT 1.6' ON 11/20/2013

PROJECT:	BLUE SKY WE	BLUE SKY WEST WIND POWER PROJECT						
CLIENT :	REED & REED	EED & REED, INC.						
LOCATION:	BINGHAM, MA	INE						
DRILLING FIRM:	MAINE TEST	BORINGS		DRILLER:	BRAD ENOS			
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL				
CASING:	SSA / NW	3"	140 LBS.	30"				
SAMPLER:	SS	1 3/8"	140 LBS.	30"				
CORE BARREL:	NQ	2"				-		

CASING BLOWS		SAMPLE					PLER BL	LOWS F	PER 6"				
P	PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA		
N	W W				@ 001						FOREST DUFF / BROWN SANDY SILT		
		1D	24"	19"	2.0'	1	WОН	1	1	2.0'	WITH ORGANICS ~LOOSE~		
										-			
											BROWN GRAVELLY SAND AND SILT		
											WITH COBBLES (GLACIAL TILL)		
		2D	24"	15"	7.0'	16	13	9	11		~MEDIUM DENSE~		
										-			
		3D	24"	13"	12.0'	12	31	21	36		~VERY DENSE~	w=12.7%	
										-			
		<b>4</b> D	16"	8"	16.3'	53	50/2"					w-10 5%	
			10	0	10.0		50/2			-		W=10.576	
										-			
										20.0'			
		5D	8"	6"	20.7'					-			
										-	GRAY SILT AND SAND SOME GRAVEL		
											WITH COBBLES (GLACIAL TILL)		
		6D	16"	8"	26.3'	54	67	50/4"		-	~VERY DENSE~	w=10.7%	
										-			
										-			
		7D	1.4"	0"	24 2'	51	70	50/2"		-			
		10	14	3	34.2	51	12	30/3		1			
										-	ADVANCED BY CORE BARREL THROUGH		
											COBBLES, BOULDERS AND GLACIAL TILL		
<b> </b>													
		R1	3.6'	0.8'	39.9'					40.0'			
SA	MPLE	S:			SOIL C	LASSI	FIED BY	<i>(</i> :		REMAR	KS:		
	001							//01//	IV			$\bigcap$	
C =	- 38L = 3" S	HELBY	TUBE		X	SO	IL TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES	$\bigcirc$	
U = 3.5" SHELBY TUBE		X LABORATORY TEST				ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.:	B-T55				



# **BORING LOG**

BORING NO .:	B-T55						
SHEET:	2 OF 2						
PROJECT NO.:	10-0014.3						
DATE START:	11/18/2013						
DATE FINISH:	11/19/2013						
ELEVATION:	1552' ±						
SWC REP .:	PJO						
WATER LEVEL INFORMATION							

WATE	r at	2.5	ON	11/18/2013	

WATER AT 1.6' ON 11/20/2013

PROJECT: BLUE SKY WEST WIND POWER PROJECT							
CLIENT :	LIENT : REED & REED, INC.						
LOCATION:	BINGHAM, M	AINE					
DRILLING FIRM:	MAINE TEST	BORINGS		DRILLER:	BRAD ENOS		
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL			
CASING:	NW	3"	140 LBS.	30"			
SAMPLER:	SS	1 3/8"	140 LBS.	30"			
CORE BARREL:	NQ	2"					

CASING BLOWS		SAM	IPLE		SAM	PLER BI	LOWS P	PER 6"	DEDTU	STRATA & TEST RATA
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
									-	
	R2	3.1'	1.3'	43.0'						
										GRAY GRAVELLY SANDY SILT
										WITH FREQUENT COBBLES AND BOULDERS (GLACIAL TILL)
									-	
										ADVANCED BY CORE BARREL THROUGH
									-	COBBLES, BOULDERS AND GLACIAL TILL
									55.0'	
									-	BOTTOM OF EXPLORATION AT 55.0
									-	
									-	
									-	
									-	
SAMPLI	ES:	<u> </u>	<u> </u>	SOIL C	LASSI	FIED B	/:	<u> </u>	REMAR	I RKS:
				-						WATER INTRODUCED DURING DRILLING
D = SPL C = 3" S	IT SPC	ON TURE		X	DRI	LLER -				STRATIFICATION LINES REPRESENT THE
U = 3.5"  SHELBY TUBE X  SOIL TECH			DRY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T55				



B-T55, R1 TO R6 (36.3'-55.0')

B-T44 18. 42°-42° coul 50° rec=60° 76. 42°-142° coul 50° rec=60° 18. 524-555° coul 20° rec=10° (B-745) Curris Caller B-T55 18-T44 B-T55 RI to RG (Cobbles) B-T55 B.T55 - (E), (B), (B) B-T44 (PI) 52.9-55, ) cobbles + RYRS B-T44 RI (4.2'-9.2') R= 5.0' 4.2' (RT) B-T44 9.2' R2 (9.2'-14.2') R:5.0' 9.2' (RZ) RH ( Main - 52.9.58) R=2.4 14.2' 1000



MAINE TEST BORINGS

**BINGHAM, MAINE** 

TYPE

NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

PROJECT:

DRILLING FIRM:

CORE BARREL:

CLIENT : LOCATION:

CASING:

SAMPLER:

### **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T57						
SHEET:	1 OF 2						
PROJECT NO.:	10-0014.3						
DATE START:	11/14/2013						
DATE FINISH:	11/15/2013						
ELEVATION:	1534' ±						
SWC REP .:	PJO						
WATER LEVEL INFORMATION							

WATER AT	1.3' ON	11/15/2013	

WATER AT 0.3' ON 11/21/2013

	SAMPLE SAMPLER BLOWS PER 6"									
PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
NW				0.001						FOREST DUFF / DARK BROWN SILT WITH
▼	1D	17"	8"	1.4'	1	3	50/5"		1.4	ORGANICS AND ROOTLETS ~LOOSE~
										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 2.0'
										INTERBEDDED GRAY SCHIST AND METASANDSTONE
	R1	3.3'	3.0'	5.3'						RQD = 69% FAIR MODERATELY HARD, EXTERIOR OF CORE PITTED
	R2	1.3'	1.2'	6.6'						RQD = 27% POOR CONTAINS QUARTZ AND CALCITE VEINS
										SHALLOW TO MODERATE FRACTURE ANGLES
										AT 0-45 DEGREES. QUARTZ VEINS UP TO 11/4" THICK
	R3	4.4'	4.3'	11.0'						RQD = 61% FAIR
										SLIGHTLY WEATHERED
										SHALLOW TO STEEP FRACTURE ANGLES
										BETWEEN 0 AND 70 DEGREES
	R4	5.0'	4.6'	16.0'						RQD = 63% FAIR
										1/4" THICK CALCITE VEINS
	<b>D</b> -	4.01		00.01						
	R5	4.6	4.4	20.6						
										VERY SLIGHTLY WEATHERED
	De	5 1'	5 1'	25.7'						
	RO	5.1	5.1	20.7	-					RQD = 62% GOOD FROM 24.3 TO 20.7
										FRACTURES PARALLEL AND CROSS-CUT FOUNTION AT
										5 80-90 DEGREES
	R7	5 1'	5.0'	30.8'						BOD = 61% FAIR
		0	0.0	00.0						
										SHALLOW TO STEEP FRACTURE ANGLES
										AT 10. 40. 70 AND 80 DEGREES
	R8	5.0'	5.0'	35.8'						RQD = 73% FAIR
										FRESH TO VERY SLIGHTLY WEATHERED
										WIDELY SPACED FRACTURES
									40.0'	
	-0.			sou 0						
SAWPL	_3.			SUILU	LASSI	LIED R.	ι.			
וםף – ח		ON			ויפח		VISUA	IY		
C = 3" S	HELBY	TUBF		Х	SOI		I VISI	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5"	SHELE	BY TUB	E	~	LAB	ORATO	ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO . R.T.57



# **BORING LOG**

____

BORING NO .:	B-T57								
SHEET:	2 OF 2								
PROJECT NO .:	10-0014.3								
DATE START:	11/14/2013								
DATE FINISH:	11/15/2013								
ELEVATION:	1534' ±								
SWC REP .:	PJO								
R LEVEL INFOR									

WATE

WATER AT 1.3' ON 11/15/2013

WATER AT 0.3' ON 11/21/2013

PROJECT:	BLUE SKY WI	EST WIND PO	OWER PROJEC	Г		
CLIENT :	REED & REEI	D, INC.				
LOCATION:	BINGHAM, M	AINE				
DRILLING FIRM:	MAINE TEST	BORINGS		DRILLER:	BRAD ENOS	
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL		
CASING:	NW	3"	140 LBS.	30"		
SAMPLER:	SS	1 3/8"	140 LBS.	30"		
CORE BARREL:	NQ	2"				

CASING BLOWS		SAN	IPLE	ПЕРТИ	SAM	PLER B	LOWS P	PER 6"	DEPTH	STRATA & TEST DATA
FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24		
	R9	5.0'	4.8'	40.8'						RQD = 91% EXCELLENT
										INTERBEDDED GRAY SCHIST AND METASANDSTONE
									-	
	R10	4.6'	4.5'	45.4'	-				-	RQD = 78% GOOD
									-	SHALLOW TO STEEP FRACTURE ANGLES
									-	AT 0, 5 AND 70 DEGREES
	R11	4.9'	5.0'	50.3'					-	RQD = 76% GOOD
	R12	4.7'	4.7'	55.0'					55.0'	RQD = 72% FAIR
									-	BOTTOM OF EXPLORATION AT 55.0'
									-	
									-	
									-	
									-	
0.4.4.5				00" 0					DEMAS	
SAMPL	E9:			SUILC	LASSI	LIED B,	r:		KEMAR	ING: WATER INTRODUCED DURING DRILLING
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE	-	Х	SOI		I VISL	JALLY	LY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES	
U = 3.5'	SHELE	SY FUB	E	1	LAB	ORATO	DRY TE	51		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T57



B-T57, R1 TO R5 (2.0'-20.6')



B-T57, R6 TO R9 (20.6'-40.4')

A JEAN DE	- ALAN ROAM		
#10-0014.3 Read & Reed Bindian, ME	B-T57 R6 (20.6' -25.7') R= 5.1'	B-757	-
11/15/13	RT (25.7-30.8') R=51 RB (30.8-398) R=4.7'	1 257 RD -	25.7'
The second	R9 (35.8'-40.4') R=4.6'	(att. 35.8' (R)	40.4
KAT .	13 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		the second second
	Caller Cores	286	70.
C OCH DAG	Acta Contrasta	Plant P	
Capital and the second			
10 Anna			1010 Sale



### B-T57, R10 TO R12 (40.4'-55.0')





BINGHAM, MAINE MAINE TEST BORINGS

TYPE

SSA / NW

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

### **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T58							
SHEET:	1 OF 2							
PROJECT NO .:	10-0014.3							
DATE START:	11/19/2013							
DATE FINISH:	11/19/2013							
ELEVATION:	1460' ±							
SWC REP.: PJO								
WATER LEVEL INFORMATION								

SOILS WET AT 2.0'

SAMPLER: SS CORE BARREL: NQ

PROJECT: CLIENT :

LOCATION:

CASING:

DRILLING FIRM:

CASING SAMPLE SAMPLER BLC		LOWS F	PER 6"							
PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
NW				0.001						FOREST DUFF / BROWN SANDY SILT
1	1D	24"	12"	2.0'	1	2	2	2	1.5'	WITH ORGANICS ~VERY LOOSE~
										~LOOSE~
										BROWN SAND AND SILT, SOME GRAVEL
										WITH COBBLES (GLACIAL TILL)
	2D	10"	9"	5.8'	72	50/4"				~VERY DENSE~
•									7.0'	
										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 7.5'
										INTERBEDDED GRAY SCHIST AND METASANDSTONE
										MODERATELY HARD TO HARD, VERY SLIGHTLY WEATHERED
									-	
	R1	4.6'	4.5'	12.1'						RQD = 92% EXCELLENT
									-	SHALLOW ANGLE FRACTURES AT 5-10 DEGREES
										FRACTURE SURFACES IRON OXIDE STAINED
										CONTAINS MICA AND THIN CALCITE AND QUARTZ VEINS
	R2	5.0'	5.1'	17.1					-	RQD = 94% EXCELLENT
										WIDELY SPACED FRACTURES
	DЭ	E 0'	4 0'	22.41						RQD = 94% EXCELLENT
	КJ	5.0	4.0	22.1						SHALLOW ANGLE FRACTURES AT 5-15 DEGREES
										ERACTURE SURFACES IRON OXIDE STAINED
	R4	4 9'	5 2'	27.0'						
		1.0	0.2	27.0						
-										
									1	
	R5	5.0'	5.0'	32.0'						RQD = 100% EXCELLENT
									1	WIDELY SPACED SHALLOW ANGLE FRACTURES
									1	AT 5, 10 AND 20 DEGREES
									]	
	R6	5.0'	5.0'	37.0'						RQD = 94% EXCELLENT
									]	
									40.0'	
SAMPI	FS			SOILC			<i>.</i>		REMARI	
5, uvi L	_0.				_,		•			WATER INTRODUCED DURING DRILLING
D = SPI		ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELBY	TUBE		Х	SOI	L TECH	VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE		LABORATORY TEST						AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T58		



PROJECT:

# **BORING LOG**

BORING NO .:	B-T58							
SHEET:	2 OF 2							
PROJECT NO .:	10-0014.3							
DATE START:	11/19/2013							
DATE FINISH:	11/19/2013							
ELEVATION:	1460' ±							
SWC REP.: PJO								
WATER LEVEL INFORMATION								

SOILS WET AT 2.0'

CLIENT :	REED & REED				
LOCATION:	BINGHAM, MA	INE			
DRILLING FIRM:	MAINE TEST B	BORINGS		DRILLER:	BRAD ENOS
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL	
CASING:	SSA / NW	3"	140 LBS.	30"	
SAMPLER:	SS	1 3/8"	140 LBS.	30"	
CORE BARREL:	NQ	2"			

BLUE SKY WEST WIND POWER PROJECT

BLOWS	OWS SAMPLE			SAMPLER BLOWS PER 6"					STRATA & TEST ΝΑΤΑ	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPIR	STRATA & TEST DATA
	R7	5.0'	4.4'	42.0'						RQD = 80% GOOD INTERBEDDED GRAY SCHIST AND METASANDSTONE MODERATELY HARD TO HARD, VERY SLIGHTLY WEATHERED WIDELY SPACED SHALLOW ANGLE FRACTURES AT 5-20 DEGREES
	R8	4.5'	5.1'	46.5'						RQD = 76% GOOD
										CONTAINS MICA AND THIN CALCITE AND QUARTZ VEINS
	R9	5.0'	5.0'	51.5'						RQD = 80% GOOD
	R10	3.5'	3.5'	55.0'					55.0'	RQD = 98% EXCELLENT
										BOTTOM OF EXPLORATION AT 55.0'
SAMPL D = SPL C = 3" S U = 3.5"	ES: LIT SPC GHELBY SHELE	OON 7 TUBE 3Y TUB	E	SOIL C	LASSII DRI SOI LAB	FIED B LLER - L TECH	Y: VISUAL I VISU DRY TE	_LY JALLY ST	REMAR	KS: WATER INTRODUCED DURING DRILLING STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T58



#### B-T58, R1 TO R4 (7.5'-27.0')

B-T58 RI (7.5-12.1) R=4.5 B-T58 10-0014.3 (RI) 7.5' Reed & Reed 12.1' Binghom, Me (R2 12.1' 17.1' R2(12.1-17.1) R= 5.1' 17.1' R3 (17.1-22.1) R= 4.8 22.1' 22.1' Ry (22.1-27.0) R= 5.2' 27.0'

B-T58, R5 TO R8 (27.0'-46.5')

10-0014.3 B-T58 B-T58 B-T58 R=5' R=5' R=5' B. 158 Reed & Reed (RS) Binghan, ME 27 32 (RG) 32 37 R70(37-42') R=4.4! 37 (R7) 42' 12' R8 46.51 R8 (42.465) R=5.1



B-T58, R9 TO R10 (46.5'-55.0')





### BORING LOG

BORING NO .:	B-T73
SHEET:	1 OF 2
PROJECT NO.:	10-0014.3
DATE START:	10/29/2013
DATE FINISH:	10/30/2013
ELEVATION:	1406' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 8.6' ON 10/30; WATER AT 9.0' ON 10/31 WATER AT 9.7' ON 11/5/2013

PROJECT:	BLUE SKY WE	BLUE SKY WEST WIND POWER PROJECT						
CLIENT :	REED & REED	D, INC.						
LOCATION:	BINGHAM, MA	INE						
DRILLING FIRM:	MAINE TEST	BORINGS		DRILLER:	BRAD ENOS			
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL				
CASING:	NW	3"	140 LBS.	30"				
SAMPLER:	SS	SS 1 3/8" 140 LBS. 30"						
CORE BARREL:	NQ	2"						

CASING BLOWS	ING SAMPLE SAMPLER BLOWS PER 6"		0.00711							
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
NW									1.0'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS
										BROWN SILTY SAND, SOME GRAVEL (GLACIAL TILL)
									2.8'	~DENSE~
	1D	15"	12"	3.3'	13	30	50/3"			ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 4.6
•										
										GRAY PELITIC SCHIST WITH ZONES OF PHYLITTE
										SLIGHT TO MODERATELY WEATHERED, MODERATELY HARD
	R1	3.0'	3.0'	7.6'	-					RQD = 27% POOR
	-									STEEP ANGLE TO VERTICAL FRACTURES, IRON OXIDE STAINED
-	DO	2.01	2.01	10.01						
-	R2	3.0	2.0	10.6						RQD = 82% GOOD
					-					
-										STEEP ANGLE FOLIATION
	R3	4.3'	4.3'	14 9'						ROD = 70% FAIR
	110		1.0	1 1.0						
										MODERATE TO STEEP ANGLE FRACTURES
	R4	4.8'	5.0'	19.7'						RQD = 52% FAIR
										SLIGHT IRON OXIDE STAINING ON FRACTURE SURFACES
	_									
	R5	5.0'	4.9'	24.7'						RQD = 65% FAIR
					-					
	-									
	R6	4 9'	4 9'	29.6'						ROD = 69% FAIR
				2010						
	R7	4.8'	4.6'	34.4'						RQD = 80% GOOD
	R8	4.0'	4.0'	38.4'						RQD = 92% EXCELLENT
									40.0'	
SAMPL	ES:			SOIL C	LASSI	FIED B	Y:		REMAR	KS:
					,					WATER INTRODUCED DURING DRILLING.
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE ( )
C = 3" S	3" SHELBY TUBE X SOIL TECH VISUALLY			APPROXIMATE BOUNDARY BETWEEN SOIL TYPES						
U = 3.5" SHELBY TUBE			LABORATORY TEST					AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T73		



MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

NW

SS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

### **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T73
SHEET:	2 OF 2
PROJECT NO.:	10-0014.3
DATE START:	10/29/2013
DATE FINISH:	10/30/2013
ELEVATION:	1406' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 8.6' ON 10/30; WATER AT 9.0	)' ON 10/31
WATER AT 9.7' ON 11/5/2013	

CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS	SAMPLE				SAMPLER BLOWS PER 6"				DEDTU	OTDATA & TECT DATA
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	-24 DEPTH	STRATA & TEST DATA
										GRAY PELITIC SCHIST WITH ZONES OF PHYLITTE
	R9	4.9'	5.0'	43.3'						RQD = 100% EXCELLENT
										MODERATELY HARD
										SLIGHT IRON OXIDE STAINING
	R10	5.0'	5.0'	48.3'						RQD = 93% EXCELLENT
										CONTAINS THINS QUARTZ VEINS
	D44	0.01	0.01	50.01						
	RII	3.9	2.9	52.2						RQD = 72% FAIR
	R12	3.0'	3.0'	55.2'					55.2'	RQD = 80% GOOD
										BOTTOM OF EXPLORATION AT 55.2'
SAMPI	FS	I	I	SOLLO			/•	1	REMAR	K8.
5, L	_0.						•			WATER INTRODUCED DURING DRILLING.
D = SPLIT SPOON DRILLER - VISUALLY			STRATIFICATION LINES REPRESENT THE ()							
C = 3" SHELBY TUBE X SOIL TECH VISUALLY			APPROXIMATE BOUNDARY BETWEEN SOIL TYPES							
U = 3.5" SHELBY TUBE LABORATORY TEST		ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T73						



#### B-T73, R1 TO R4 (4.6'-14.9')



B-T73, R5 TO R8 (14.9'-38.4')





B-T73, R9 TO R12 (38.4'-55.2')




MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

NW

SS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

PROJECT:

LOCATION: DRILLING FIRM:

CLIENT :

CASING:

SAMPLER:

# **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T74
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	10/30/2013
DATE FINISH:	10/31/2013
ELEVATION:	1434' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 18.5' ON 10/31/2013 WATER AT 21.7' ON 11/5/2013

CORE BARREL:		Ν	NQ 2"						WATER AT 21.7' ON 11/5/2013			
040000												
BLOWS		SAN	MPLE	DEDTU	SAM	SAMPLER BL		OWS PER 6"		STRATA & TEST DATA		
FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24				
									2 0'	FOREST DUFF / BROWN SANDY SILT		
									2.0	BROWN SAND AND SILT, SOME GRAVEL		
	1D	24"	14"	4.0'	10	12	15	28	4.0'	(GLACIAL TILL) ~MEDIUM DENSE~		
										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 4.8'		
									-	INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE		
	R1	2.4'	2.3'	7.2'						RQD = 30% VERY POOR MODERATELY TO SLIGHTLY WEATHERED		
	R2	1.3'	1.3'	8.5'						RQD = 67% FAIR MODERATELY HARD		
	R3	1.8'	1.8'	10.3'						ROD = 84% GOOD SHALLOW TO STEEP FRACTURE ANGLES		
	R4	1.5'	1.5'	11.8'						RQD = 33% POOR AT 15-80 DEGREES		
									-			
									-	SOFT TO MEDIUM HARD		
	R5	3.2'	3.2'	15.0'						RQD = 0% VERY POOR HIGHLY FRACTURED		
	R6	1.0'	0.7	16.0'						RQD = 0% VERY POOR HIGHLY WEATHERED		
	R7	1.0'	0.5	17.0'					-	RQD = 0% VERY POOR IRON OXIDE STAINED		
	R8	1.5'	1.3'	18.5'						RQD = 45% VERY POOR		
	PO	2 7'	2.6'	21.2'					-			
	113	2.1	2.0	21.2					-			
	R10	2.6'	2.7'	23.8'						RQD = 35% POOR IRON OXIDE STAINED		
	-											
	R11	2.9'	2.9'	26.7'					-	RQD = 90% GOOD / EXCELLENT		
									-			
									-			
	R12	3.8'	3.8'	30.5'					-	RQD = 47% POOR		
					-				-			
										BETWEEN 20 AND 50-80 DEGREES		
										BETWEEN 20 AND 30-00 BECKEED		
	R13	5.0'	5.0'	35.5'						RQD = 62% GOOD		
	R14	3.8'	3.6'	30 3'					40.0'	ROD - 47% POOR		
	-0.	0.0	0.0	SOIL 0				L				
SAIVIPL	=5:			SUILC	LASSI	LIED R.	τ.		REMAR			
D = SPI	IT SPC	ON			DRI	LLER -	VISUAI	LY		STRATIFICATION LINES REPRESENT THE		
C = 3" S	HELBY	TUBE		Х	SOI	L TECH	I VISU	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES		
U = 3.5"	SHELE	BY TUE	BE	LABORATORY TEST				ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T74		



BINGHAM, MAINE MAINE TEST BORINGS

TYPE

NW

SS

NQ

PROJECT: CLIENT :

LOCATION:

CASING:

SAMPLER:

DRILLING FIRM:

CORE BARREL:

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

# **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T74						
SHEET:	2 OF 2						
PROJECT NO.:	10-0014.3						
DATE START:	10/30/2013						
DATE FINISH:	10/31/2013						
ELEVATION:	1434' ±						
SWC REP .:	PJO						
WATER LEVEL INFORMATION							

WATER AT 18.5' ON 10/31/2013

|--|

CASING	ING SAMPLE		SAM	PLER BI	_OWS P	'ER 6"				
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R15	2.2'	2.2'	41.5'						RQD = 52% FAIR
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE
	R16	3.9'	3.9'	45.9'						RQD = 65% FAIR IRON OXIDE STAINED MODERATE TO STEEP FRACTURE ANGLES AT 30 AND 70-75 DEGREES
	R17	2.4'	2.4'	48.3'						RQD = 28% POOR
	R18 R19	3.2' 1.5'	3.1'	51.5' 53.0'						
	R19	2.0'	2.0'	55.0'					55.0'	SLIGHT IRON OXIDE STAINING RQD = 25% VERY POOR / POOR
										BOTTOM OF EXPLORATION AT 55.0'
SAMPLI	ES:			SOIL C	LASSIF	FIED BY	/:		REMAR	кs:
SAMPLES: SOIL CLASSIFIED BY:   D = SPLIT SPOON DRILLER - V   C = 3" SHELBY TUBE X   U = 3.5" SHELBY TUBE LABORATOI		VISUAL I VISU DRY TES	LY JALLY ST		WATER INTRODUCED DURING DRILLING. STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T74					



B-T74, R1 TO R8 (4.8'-18.5')



B-T74, R9 TO R13 (18.5'-35.5')





#### B-T74, R14 TO R19 (35.5'-53.0')



B-T74, R20 (53.0'-55.0')





PROJECT:

# BORING LOG

BORING NO .:	B-T75						
SHEET:	1 OF 2						
PROJECT NO .:	10-0014.3						
DATE START:	10/31/2013						
DATE FINISH:	10/31/2013						
ELEVATION:	1420' ±						
SWC REP.:	PJO						

WATER	LEVEL	INFORMAT	-

WATER AT 11.1' ON 11/1/2013

WATER AT 8.3' ON 11/5/2013

CLIENT :	REED & REED, INC.											
LOCATION:	BINGHAM, MAI											
DRILLING FIRM:	MAINE TEST B	ORINGS		DRILLER:	BRAD ENOS							
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL								
CASING:	NW	3"	140 LBS.	30"								
SAMPLER:	SS	1 3/8"	140 LBS.	30"								
CORE BARREL:	NQ	2"										

BLUE SKY WEST WIND POWER PROJECT

CASING	SING SAMPLE			SAMPLER BLOWS PER 6"						
PER	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH SIRAIA & IESI DAIA	
NW	-			@ DO1						FOREST DUFF / RUST BROWN SILT AND SAND
	1D	24"	21"	2.0'	1	2	3	6	2.0'	WITH ROCK FRAGMENTS ~LOOSE~
									-	BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL)
	2D	24"	20"	6.0'	12	12	12	12	-	~MEDILIM DENSE~
	20	27	20	0.0	12	12	12	12		
									-	
•									8.8'	
										INTERBEDDED PELITIC SCHIST AND METASANDSTONE
									-	SLIGHT TO MODERATELY WEATHERED, MEDIUM HARD
	R1	2.5'	2.5'	11.4'					-	RQD = 36% POOR
	D2	2.0'	2.0'	10 4'					-	STEEP ANGLE FRACTURES AT 70-85 DEGREES
	RZ	2.0	2.0	13.4					-	
	R3	2.2'	2.2'	15.6'						RQD = 0% VERY POOR IRON OXIDE STAINED
	R4	2.7'	2.5'	18.3'					-	RQD = 68% FAIR
	DC	0.7	0.7	24.01						
	RD	2.7	2.1	21.0						RQD = 45% POOR
	R6	2.8'	2.8'	23.8'						RQD = 72% FAIR MODERATELY HARD
									-	MODERATE TO STEEP ANGLE FRACTURES AT
									_	45-50 AND 60-85 DEGREES
	R7	2.9'	2.9'	26.7'					-	RQD = 55% FAIR
									-	
	R8	4.0'	3.8'	30.7'	30.7'					
	i to	4.0	5.0	50.7	-					
	R9	4.6'	3.0'	35.3'					-	RQD = 0% VERY POOR
										HIGHLY FRACTURED
	R10	3 7'	3 7'	30 0'						
	KIU	5.7	5.7	55.0					40.0'	
CAMP	- 	1	1	sou 0				1		
SAIVIPI				SUILU	LA3911		ı.			
D = SP	LIT SPC	DON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3"	SHELB	TUBE		Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE		E	LABORATORY TEST			ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T75		



# **BORING LOG**

BORING NO .:	B-T75
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	10/31/2013
DATE FINISH:	10/31/2013
ELEVATION:	1420' ±
SWC REP .:	PJO
R LEVEL INFOR	MATION

WATER	LEVEL	INFORMATI

WATER AT 11.1' ON 10/31/2013

WATER AT 8.3' ON 11/5/2013

	,											
BLUE SKY WEST WIND POWER PROJECT												
REED & REED, INC.												
BINGHAM, MAINE												
MAINE TEST	BORINGS		DRILLER:	BRAD ENOS								
TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL									
NW	3"	140 LBS.	30"									
SS	1 3/8"	140 LBS.	30"									
NQ	2"											
	BLUE SKY WI REED & REEI BINGHAM, M/ MAINE TEST TYPE NW SS NQ	BLUE SKY WEST WIND PC REED & REED, INC. BINGHAM, MAINE MAINE TEST BORINGS TYPE SIZE I.D. NW 3" SS 1 3/8" NQ 2"	BLUE SKY WEST WIND POWER PROJECT REED & REED, INC. BINGHAM, MAINE MAINE TEST BORINGS TYPE SIZE I.D. HAMMER WT. NW 3" 140 LBS. SS 1 3/8" 140 LBS. NQ 2"	BLUE SKY WEST WIND POWER PROJECT REED & REED, INC. BINGHAM, MAINE MAINE TEST BORINGS DRILLER: TYPE SIZE I.D. HAMMER WT. HAMMER FALL NW 3" 140 LBS. 30" SS 1 3/8" 140 LBS. 30"	BLUE SKY WEST WIND POWER PROJECT REED & REED, INC. BINGHAM, MAINE MAINE TEST BORINGS DRILLER: BRAD ENOS TYPE SIZE I.D. HAMMER WT. HAMMER FALL NW 3" 140 LBS. 30" SS 1 3/8" 140 LBS. 30" NQ 2"							

CASING BLOWS		SAN	/IPLE		SAM	PLER BI	LOWS P	PER 6"	DEPTH STRATA & TEST DATA		
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24			
	R11	2 2'	1 1'	11 2'							
	IX11	2.2	1.1	71.2							
									-	INTERBEDDED PELITIC SCHIST AND METASANDSTONE	
	R12	4.5'	4.1'	46.7'						RQD = 92% EXCELLENT	
									-		
									-	VERY SLIGHTLY WEATHERED	
	R13	4.3'	4.2'	50.0'						RQD = 82% GOOD	
	R14	3.3'	3.7'	53.3'						RQD = 94% EXCELLENT	
	R15	1.7'	1.5'	55.0'					55.0'	RQD = 90% GOOD / EXCELLENT	
										BOTTOM OF EXPLORATION AT 55.0	
					-						
									-		
									-		
									-		
									-		
									-		
SAMPLI	ES:			SOIL C	LASSI	FIED B	<i>(</i> :		REMAR		
D = SPL	IT SPC	ON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE	
C = 3" S	HELBY	TUBE		Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES	
U = 3.5" SHELBY TUBE LABORATORY TEST			AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T75								



MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / NW

SS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

# **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T76
SHEET:	1 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/6/2013
DATE FINISH:	11/7/2103
ELEVATION:	1407' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 2.9' IN OPEN BOREHOLE WHILE DRILLING

CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING	G S	SAN	/IPLE		SAMF	PLER BI	LOWS F			
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	SIRATA & TEST DATA
NW									1.2	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~LOOSE~
	1D	24"	13"	2.0'	WΟΗ	1	2	7	<u> </u>	
									-	
										BROWN SAND AND SILT, SOME GRAVEL
									-	WITH COBBLES (GLACIAL TILL)
	20	0.4"	4.4"	7.01	10	10	4.4	4.4	-	DENCE
	20	24	14	7.0	12	10	14	14	-	~DENSE~
									-	
	3D	24"	16"	12.0'	19	21	34	50	-	~VERY DENSE~
									13.0'	
									-	
										GRAY GRAVELLY SILT AND SAND WITH COBBLES AND BOULDERS
•	4D	22"	15"	15.8'	19	24	56	50/4"	-	
	-									CORED THROUGH BOULDER 16.0-17.0
									-	
	5D	10"	10"	20.8'	32	50/4"				
									21.5	
										ADVANCE BY ROLLER CONE THROUGH WEATHERED BEDROCK TO 24'
	6D	6"	4"	23.5'	80					
										GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE
									-	SEVERELY WEATHERED, SOFT TO MODERATELY HARD BECOMING
	D4	4.01	2.01	20.01					-	HIGHLY FRACTURED, IRON OXIDE STAINS ON FRACTURES
	K I	4.0	2.0	20.0						
	R2	2.0'	1.4'	30.0'						RQD = 0% VERY POOR
		2.0		0010					1	
	1								1	HIGH ANGLE FRACTURES: 65-85 DEGREES
	R3	2.5'	2.5'	32.5'					]	RQD = 13% VERY POOR
	R4	1.4'	1.4'	33.9'					1	RQD = 0% VERY POOR
									4	MODERATELY WEATHERED AND MODERATELY HARD
	R5	1.7'	1.1'	35.6'					-	RQD = 45% POOR
	DC	4 7	4 7	27.21					-	
	RD	1.7	1.7	31.3					1	
	R7	2.0'	1.6'	39.3'					40.0'	RQD = 0% VERY POOR
<b></b>		2.0	1.0	00.0				1	+0.0	
SAMP	LES:			SOIL C	LASSIF	IED B	(:		REMAR	
D – 91		NON			וופח		101121	IY		
C = 3"	SHELB	TUBE		Х	SOIL		VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE		LAB	ORATC	RY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T76			



B-T76, R1 TO R9 (24.0'-47.1')



B-T76, R10 TO R12 (47.1'-55.2')





MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / NW

SS

BLUE SKY WEST WIND POWER PROJECT

3"

1 3/8"

2"

# **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO.:	B-T76
SHEET:	2 OF 2
PROJECT NO .:	10-0014.3
DATE START:	11/6/2013
DATE FINISH:	11/7/2103
ELEVATION:	1407' ±
SWC REP.:	PJO

WATER LEVEL INFORMATION

WATER AT 2.9' IN OPEN BOREHOLE WHILE DRILLING

CORE BARREL: NQ

PROJECT:

DRILLING FIRM:

CLIENT : LOCATION:

CASING:

SAMPLER:

CASING BLOWS		SAM	<b>IPLE</b>		SAM	SAMPLER BLOWS PER 6"			οτρατά « τέςτ ράτα	
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
	R8	2.8'	1.4'	42.1'					-	GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE SEVERELY WEATHERED, SOFT TO MEDIUM HARD BECOMING RQD = 0% VERY POOR
									-	MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 45, 65-75 DEGREES
	R9	5.0'	5.0'	47.1'					-	IRON OXIDE STAINS ON FRACTURES RQD = 7% VERY POOR
	R10	2.9'	2.9'	50.0'						SEVERELY WEATHERED, VERY SOFT AND HIGHLY FRACTURED: 48.8-50 FT. RQD = 0% VERY POOR
	D11	0.01	0.01	50.01					-	HIGHLY FRACTURED LOW ANGLE AND HIGH ANGLE TO VERTICAL FRACTURES: 30, 60-90 DEGREES
	R11	2.3	2.3	52.3					-	MODERATELY WEATHERED AND MODERATELY HARD TO HARD
	R12	2.9'	2.9'	55.2'					55.2'	RQD = 41% POOR
										BOTTOM OF EXPLORATION AT 55.2'
SAMPL	ES: .IT SPC	ON		SOIL C	DRI	FIED B	': VISUAL	LY	REMAR	RKS: WATER INTRODUCED DURING DRILLING.
C = 3" SHELBY TUBE X SOIL TECH VISUALLY   U = 3.5" SHELBY TUBE LABORATORY TEST			APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T76							



MAINE TEST BORINGS

BINGHAM, MAINE

TYPE

SSA / NW

SS

NQ

BLUE SKY WEST WIND POWER PROJECT

SIZE I.D.

3"

1 3/8"

2"

# **BORING LOG**

BRAD ENOS

DRILLER:

30"

30"

HAMMER WT. HAMMER FALL

140 LBS.

140 LBS.

BORING NO .:	B-T77							
SHEET:	1 OF 2							
PROJECT NO.:	10-0014.3							
DATE START:	12/4/2013							
DATE FINISH:	12/5/2013							
ELEVATION:	1382' ±							
SWC REP .:	A.STRUGATSKIY							
WATER LEVEL INFOR	RMATION							
WATER AT 8.0' DURING DRILLING								
WATER AT 0.5' ON 12/6/13								

SAMPLER: CORE BARREL:

DRILLING FIRM:

PROJECT:

CLIENT : LOCATION:

CASING:

							-			WATER AT 0.8' ON 12/9/13
CASING BLOWS		SAM	MPLE		SAMPLER BLOWS PER 6"					
PER FOOT	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24	DEPTH	STRATA & TEST DATA
										FOREST DUFF / BROWN SANDY SILT
	1D	24"	14"	2.0'	1	1	6	7	2.0'	WITH ROOTLETS ~LOOSE~
									-	
					<b> </b>				-	BROWN SANDY SILL, SOME GRAVEL
						+			-	(GLACIAL TIEL)
	2D	24"	21"	7.0'	5	6	7	7	-	~MEDIUM DENSE~
									-	
		<u> </u>	<u> </u>		<b> </b>	<u> </u>			10.0'	
				10.01			<u> </u>		-	
	3D	24"	20"	12.0'	15	28	41	50	-	~ VERY DENSE ~
	 I	-	-				-		-	
									-	GRAY SILT AND SAND, SOME GRAVEL WITH COBBLES
	4D	8"	8"	15.7'	35	50/2"			1	(GLACIAL TILL)
	·									~ VERY DENSE ~
					<b> </b>	<u> </u>			-	
					<b> </b>				-	
	5D	15"	12"	21.2'	27	31	50/3"		-	
	50	10	10	21.0	21	51	30/3		-	
									-	
	6D	9"	9"	25.8'	57	50/3"				
					<b> </b>				-	
									-	
					<b> </b>	<u> </u>			-	
	7D	5"	5"	30.4'	75/5"				30.5'	
	·									WEATHERED BEDROCK INFILLED WITH GLACIAL TILL
		<u> </u>	<u> </u>		<b> </b>	──	<b></b>	<u> </u>	35.0'	
	R1	2.4'	2.4'	35.6'	<b> </b>	<u> </u>			-	
	<b>D</b> 2	2.0'	2.0'	27.6'	<b> </b>	+			-	
	۲Z	2.0	2.0	37.0		+			-	SOFT TO MODERATELY HARD
	R3	1.9'	1.9'	39.5'					40.0'	RQD = 40% POOR IRON OXIDE STAINING 33.2 - 38.0'
	-0.	<u> </u>	<u> </u>	0011 0			<u> </u>	<u> </u>		
SAMPLE	:5:			SOILC	LASSI	LIED R.	Y:		REMAR	
D = SPL	IT SPC	DON			DRI	LLER -	VISUAL	LY		STRATIFICATION LINES REPRESENT THE
C = 3" S	HELB	/ TUBE		Х	SOI	L TECH	I VISL	JALLY		APPROXIMATE BOUNDARY BETWEEN SOIL TYPES
U = 3.5" SHELBY TUBE LABORATORY TE			ORY TE	ST		AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T77				



PROJECT:

### **BORING LOG**

BORING NO .:	B-1//						
SHEET:	2 OF 2						
PROJECT NO .:	10-0014.3						
DATE START:	12/4/2013						
DATE FINISH:	12/5/2013						
ELEVATION:	1382' ±						
SWC REP.:	A.STRUGATSKIY						
R LEVEL INFORMATION							

CLIENT :	REED & REED	REED & REED, INC.									
LOCATION:	BINGHAM, MA	BINGHAM, MAINE									
DRILLING FIRM:	MAINE TEST	BORINGS		DRILLER:	BRAD ENOS	_					
	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL		-					
CASING:	SSA / NW	3"	140 LBS.	30"		١					
SAMPLER:	SS	1 3/8"	140 LBS.	30"		WA					
CORE BARREL:	NQ	2"	_								

WATE ATER AT 8.0' DURING DRILLING

WATER AT 0.5' ON 12/6/13

	-								WATER AT 0.8' ON 12/9/13				
CASING BLOWS		SAN	<b>//PLE</b>		SAM	PLER BI	LOWS F	PER 6"	DEPTH	STRATA & TEST DATA			
PER FOOT	NO.	PEN.	REC.	@ BOT	0-6	6-12	12-18	18-24					
		4.51								GRAY PHYLLITIC METASILTSTONE FOLIATION AT 80-85 DEGREES, WITH PRIMARY FRACTURES			
	R4	4.5	4.4	44.0						RQD = 67% FAIR ALONG FOLIATION PLANES SECONDARY FRACTURE ANGLES AT 40-50 DEGREES			
										MEDIUM HARD TO MODERATELY HARD			
	R5	4.9'	4.6'	48.9'						RQD = 75% FAIR / GOOD			
										FRACTURE ANGLES PARALLEL FOLIATION AT 70-80 DEGREES			
	R6	4.6'	4.6'	53.5'						RQD = 70% FAIR			
	R7	2.7'	2.7'	56.2'					56.2'	RQD = 95% EXCELLENT			
										BOTTOM OF EXPLORATION AT 56.2'			
									-				
									-				
SAMPL	ES:			SOIL C	LASSII	FIED BY	<i>(</i> :		REMAR				
D = SPLIT SPOON DRILLER - VISUALLY   C = 3" SHELBY TUBE X   U = 3.5" SHELBY TUBE LABORATORY TEST			STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. BORING NO.: B-T77										



B-T77, R1 TO R6 (33.2'-51.9')

Blue Sky Wind # 112' 356' contraine 21d # 112' 356' contraine # 112' 356' contraine B.T77 Box 1/2 10-0014.3 35.6 R2 37.4 (NLY is Are bor) R3 39.5 24 12/4/15-12/5/13 RY 44.0 R5 51.4 (unt. in box Z) RS 48.9 RG

B-T77, CONT. R6 TO R7 (51.9'-55.7')





REED & REED, INC. BINGHAM, MAINE

TYPE

HSA

SS

MAINE TEST BORINGS

BLUE SKY WEST WIND POWER PROJECT

2 1/4"

1 3/8"

# **BORING LOG**

**BRAD ENOS** 

DRILLER:

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

BORING NO .:	O&M B-1
SHEET:	1 OF 1
PROJECT NO .:	10-0014.3
DATE START:	12/4/2013
DATE FINISH:	12/4/2013
ELEVATION:	1320' ±
SWC REP .:	AAS

WATER LEVEL INFORMATION

NO FREE WATER OBSERVED

SAMPLER: CORE BARREL:

CASING:

PROJECT: CLIENT :

LOCATION: DRILLING FIRM:

CASING SAMPLE SAMPLER BLOWS PER 6" BLOWS **STRATA & TEST DATA** DEPTH PER DEPTH NO. PEN. REC. 0-6 6-12 12-18 18-24 FOOT @ BOT 0.5 FOREST DUFF 1D 24" 10" 2.0' 1/12" 1 1 **BROWN SILTY SAND** 3.0' ~ VERY LOOSE ~ GRAY SAND AND GRAVEL, SOME SILT 2D 24" 12" 7.0' ~ MEDIUM DENSE ~ 4 10 11 11 8.0' GRAY SAND, SOME SILT 3D 24" 12" 12.0' 3 4 4 5 ~LOOSE~ 14.0' BROWN SILTY SAND AND GRAVEL WITH WEATHERED BEDROCK FRAGMENTS 15.5 ~ MEDIUM DENSE ~ GRAY-BROWN SANDY SILT 4D 24" 14" 17.0' 10 22 24 22 17.8 ~DENSE~ AUGER REFUSAL AT 17.8' PROBABLE BEDROCK 40.0' SAMPLES: SOIL CLASSIFIED BY: REMARKS: D = SPLIT SPOON **DRILLER - VISUALLY** STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE Х SOIL TECH. - VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES LABORATORY TEST U = 3.5" SHELBY TUBE AND THE TRANSITION MAY BE GRADUAL. BORING NO .: O&M B-1



REED & REED, INC. BINGHAM, MAINE

TYPE

HSA

SS

MAINE TEST BORINGS

BLUE SKY WEST WIND POWER PROJECT

2 1/4"

1 3/8"

# **BORING LOG**

**BRAD ENOS** 

DRILLER:

30"

SIZE I.D. HAMMER WT. HAMMER FALL

140 LBS.

BORING NO .:	O&M B-2
SHEET:	1 OF 1
PROJECT NO.:	10-0014.3
DATE START:	12/4/2013
DATE FINISH:	12/4/2013
ELEVATION:	1324' ±
SWC REP .:	AAS
WATER LEVEL INFOR	RMATION

NO FREE WATER OBSERVED

SAMPLER: CORE BARREL:

CASING:

PROJECT: CLIENT :

LOCATION: DRILLING FIRM:

CASING SAMPLE SAMPLER BLOWS PER 6" BLOWS **STRATA & TEST DATA** DEPTH PER DEPTH NO. PEN. REC. 0-6 6-12 12-18 18-24 FOOT @ BOT 0.4 FOREST DUFF (FROST) 1D 24" 7" 2.0' 1 1 1 2 **BROWN SANDY SILT** ~ VERY LOOSE ~ 3.0' GRAVEL AND COBBLES 5.0' 24" 7 2D 16" 7.0' ~ MEDIUM DENSE ~ 8 8 8 DARK GRAY GRAVELLY SAND, TRACE SILT 9.0' 3D ~LOOSE~ 24" 12" 12.0' 3 3 4 4 GRAY SAND, SOME SILT 4D 24" 15" 17.0' 3 4 5 7 SILTY SEAMS FROM 14 TO 18' 5D 16" 22.0' 50 24" 7 8 7 21.5' GRAY SILTY SAND, SOME GRAVEL WITH COBBLES (GLACIAL TILL) 24.8 ~MEDIUM DENSE~ 26.0' PROBABLE WEATHERED BEDROCK BOTTOM OF EXPLORATION AT 26.0' PROBABLE BEDROCK 40.0' SAMPLES: SOIL CLASSIFIED BY: REMARKS: D = SPLIT SPOON **DRILLER - VISUALLY** STRATIFICATION LINES REPRESENT THE C = 3" SHELBY TUBE Х SOIL TECH. - VISUALLY APPROXIMATE BOUNDARY BETWEEN SOIL TYPES U = 3.5" SHELBY TUBE LABORATORY TEST AND THE TRANSITION MAY BE GRADUAL. BORING NO .: O&M B-2



**PROBE DATA** 

PROJECT: CLIENT: LOCATION: DRILLING CO BLUE SKY WEST WIND POWER PROJECT

REED & REED, INC.

TION: BINGHAM, MAINE

DRILLING CO.: MAINE TEST BORING, INC. & NORTHERN TEST BORING, INC.

Probe Number	Depth of Exploration	Probe Number	Depth of Exploration
	(feet)		(feet)
P-1	2.9 R	P-26	12.8 R
P-2	3.5 R	P-27	1.9 R
P-3	2.8 R	P-28	2.3 R
P-4	3.0 R	P-29	1.9 R
P-5	5.0 R	P-30	12.1 R
P-6	3.1 R	P-31	15.0 NR
P-7	5.8 R	P-32	3.6 R
P-8	2.4 R	P-33	8.0 R
P-9	2.6 R	P-34	15.0 NR
P-10	14.0 NR	P-35	11.8 R
P-11	15.0 NR	P-36	0.5 R
P-12	15.0 NR	P-37	3.0 R
P-13	15.0 NR	P-38	3.0 R
P-14	15.0 NR	P-39	1.3 R
P-15	2.1 R	P-40	0.9 R
P-16	15.0 NR	P-41	3.9 R
P-17	3.2 R	P-42	11.7 R
P-18	6.3 R	P-43	1.0 R
P-19	15.0 NR	P-44	3.0 R
P-20	15.0 NR	P-45	15.0 NR
P-21	15.0 NR	P-46	15.0 NR
P-22	8.7 R	P-47	15.0 NR
P-23	5.6 R	P-48	15.0 NR
P-24	3.8 R	P-49	8.4 R
P-25	15.0 NR	P-50	2.8 R

NR = No Refusal surface encountered R = Refusal Surface