

## **APPENDIX A**

**TEST BORING LOGS,  
ROCK PHOTOGRAPHS,  
AND TEST PROBE DATA**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: NQ2 2"

**WATER LEVEL INFORMATION**

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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE  RQD = 100% EXCELLENT  SLIGHTLY WEATHERED  RQD = 98% EXCELLENT  LOW ANGLE TO HIGH ANGLE FRACTURES: 20-40, 80 DEGREES  RQD = 88% GOOD  LOW ANGLE TO MODERATELY DIPPING FRACTURES: 20-40, 80 DEGREES  RQD = 86% GOOD  BOTTOM OF EXPLORATION AT 56.0'
	R10	4.5'	4.5'	43.0'						
	R11	4.7'	4.7'	47.7'						
	R12	4.8'	4.8'	52.5'						
	R13	3.5'	3.5'	56.0'					56.0'	

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS:  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES 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)**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

**WATER LEVEL INFORMATION**

WATER AT 13' ON 10/29/2013  
 WATER AT 11.5' ON 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									2.0'	MOSS / SURFACE BOULDERS (CAP ROCK) DARK BROWN SANDY SILT
	1D	24"	20"	7.0'	12	15	17	19	7.3'	BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL) ~DENSE~
	R1	3.4'	3.4'	11.9'						INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE SLIGHT TO MODERATELY WEATHERED, BECOMING... MODERATELY HARD TO HARD RQD = 61% FAIR  LOW ANGLE TO MODERATELY DIPPING FRACTURES: 20-30, 50 DEGREES
	R2	3.7'	3.7'	15.6'						RQD = 97% EXCELLENT  A FEW NEARLY VERTICAL FRACTURES: 85 DEGREES
	R3	5.0'	5.0'	20.6'						RQD = 54% FAIR  ...VERY SLIGHTLY WEATHERED MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 40-70 DEGREES
	R4	5.2'	5.2'	25.8'						RQD = 83% GOOD  LOW ANGLE TO HIGH ANGLE FRACTURES: 30, 60-85 DEGREES
	R5	5.0'	5.0'	30.8'						RQD = 50% POOR / FAIR  LOW ANGLE TO MODERATELY DIPPING FRACTURES: 20-40 DEGREES
	R6	5.0'	5.0'	35.8'						RQD = 84% GOOD  LOW ANGLE TO HIGH ANGLE FRACTURES: 20-40, 70 DEGREES
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

**WATER LEVEL INFORMATION**

WATER AT 13' ON 10/29/2013  
 WATER AT 11.5' ON 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ 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 RQD = 62% FAIR LOW ANGLE TO HIGH ANGLE FRACTURES: 5-15, 60-80 DEGREES RQD = 88% GOOD MODERATELY DIPPING FRACTURES: 40-50 DEGREES
	R8	5.0'	5.0'	45.8'						
	R9	5.2'	5.2'	51.0'						
	R10	5.0'	5.0'	56.0'					56.0'	
										RQD = 91% GOOD BOTTOM OF EXPLORATION AT 56.0'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-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')**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA/HW/NW 4" / 3" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

### WATER LEVEL INFORMATION

WATER AT 8.3' 10/29/2013  
 WATER AT 13' 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									1.0'	FOREST DUFF / DARK BROWN SANDY SILT WITH ROOTLETS
↓	1D	24"	12"	2.0'	1	5	3	8	3.1'	BROWN SAND AND SILT 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'						RQD = 83% GOOD
	R2	2.8'	2.6'	11.0'						LOW ANGLE TO HIGH ANGLE FRACTURES: 30, 70-80 DEGREES
	R3	0.6'	0.6'	11.6'						RQD = 64% FAIR
										RQD = 50% POOR / FAIR
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 50, 70-80 DEGREES
	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'						RQD = 83% GOOD
										HIGH ANGLE FRACTURES: 60-75 DEGREES
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T3**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA/HW/NW 4" / 3" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

### WATER LEVEL INFORMATION

WATER AT 8.3' 10/29/2013  
 WATER AT 13' 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	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  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
	R10	5.0'	5.0'	46.5'						
	R11	5.0'	5.0'	51.5'						
	R12	4.0'	4.0'	55.5'						
									55.5'	RQD = 62% FAIR
										BOTTOM OF EXPLORATION AT 55.5'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T3**

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



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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: NQ2 2"

**WATER LEVEL INFORMATION**  
 WATER AT 13.9' ON 10/28/2013  
 WATER AT 31.3' ON 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	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  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T4**





# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: NQ2 2"

**WATER LEVEL INFORMATION**

WATER AT 13.9' ON 10/28/2013  
 WATER AT 31.3' ON 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE VERY SLIGHTLY WEATHERED, MODERATELY HARD A FEW HIGH ANGLE FRACTURES: 70-80 DEGREES RQD = 94% EXCELLENT IRON OXIDE STAINING ON FRACTURES  RQD = 100% EXCELLENT  CALCITE BANDS LESS THAN 1/2" THICK RQD = 83% GOOD MODERATELY DIPPING FRACTURES: 35, 50-55 DEGREES RQD = 76% GOOD  BOTTOM OF EXPLORATION AT 55.1'
	R10	4.5'	4.5'	44.5'						
	R11	5.1'	5.1'	49.6'						
	R12	4.0'	4.0'	53.6'						
	R13	1.5'	1.7'	55.1'						

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS:  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T4**

**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')





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										FOREST DUFF / DARK BROWN SANDY SILT WITH ROOTLETS ~LOOSE~
	1D	24"	20"	2.0'	2	2	3	10	1.5'	BROWN SILT AND SAND, SOME GRAVEL WITH WEATHERED BEDROCK FRAGMENTS ~MEDIUM DENSE~
	2D	6"	6"	5.5'	15	25/0"			5.5'	GRAY PELITIC SCHIST SEVERELY WEATHERED, SOFT TO MEDIUM HARD BECOMING... HIGHLY FRACTURED HIGH ANGLE FRACTURES: 70-80 DEGREES RQD = 9% VERY POOR IRON OXIDE STAINING ON FRACTURES, PITTING ON CORE SURFACE HIGH ANGLE TO VERTICAL FRACTURES: 70-90 DEGREES RQD = 10% VERY POOR HIGH ANGLE FRACTURES: 65-80 DEGREES RQD = 44% POOR ...SLIGHTLY TO MODERATELY WEATHERED, MODERATELY HARD LOW ANGLE TO HIGH ANGLE FRACTURES: 20-30, 70 DEGREES RQD = 87% GOOD MODERATELY DIPPING TO NEARLY VERTICAL FRACTURES: 40, 65-80 DEGREES RQD = 87% GOOD FRACTURE ANGLES AT 50 TO 70 DEGREES RQD = 90% GOOD / EXCELLENT FRACTURE ANGLES AT 70 TO 80 DEGREES RQD = 88% GOOD
	R1	5.0'	3.4'	10.5'						
	R2	4.0'	3.7'	14.5'						
	R3	5.0'	5.0'	19.5'						
	R4	5.0'	5.2'	24.5'						
	R5	5.0'	5.0'	29.5'						
	R6	5.1'	5.1'	34.6'						
	R7	5.0'	5.0'	39.6'					40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  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-T6**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	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 RQD = 94% EXCELLENT A FEW MODERATELY DIPPING FRACTURES: 35-50 DEGREES RQD = 96% EXCELLENT
	R9	5.0'	5.0'	49.6'						
	R10	5.2'	5.2'	54.8'					54.8'	
										BOTTOM OF EXPLORATION AT 54.8'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST

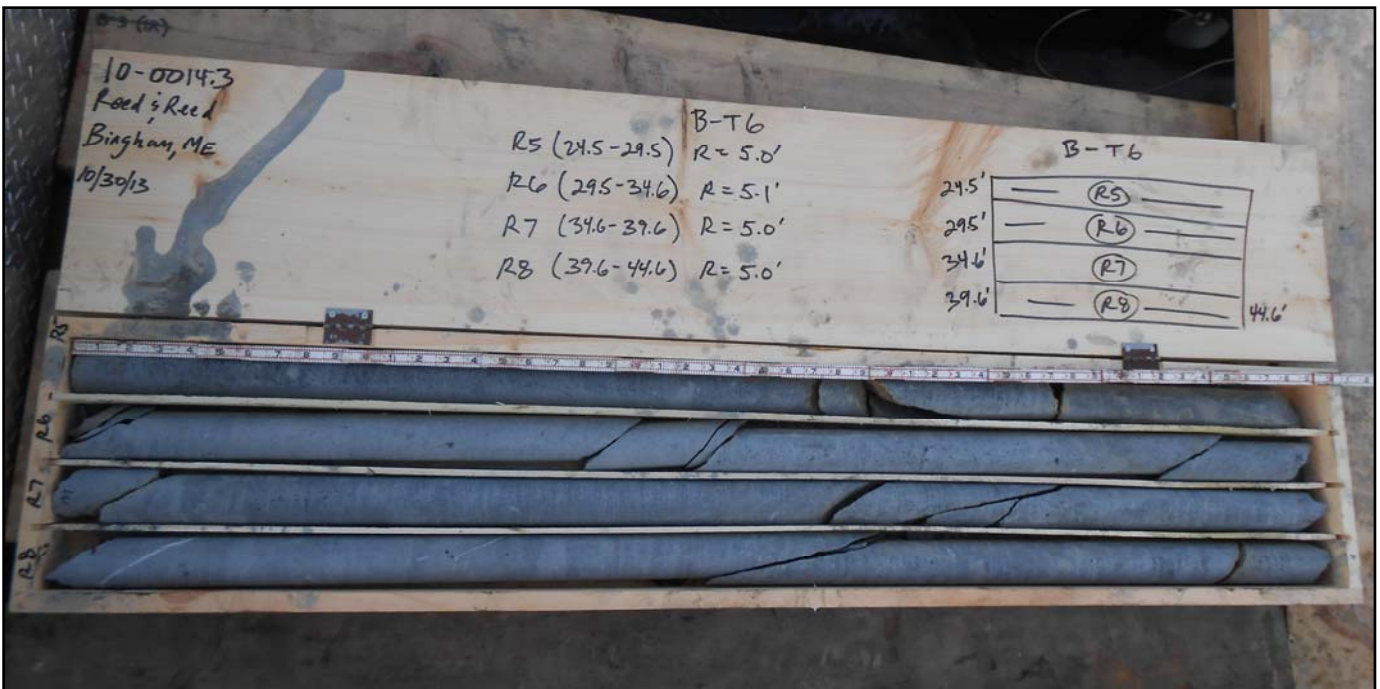
WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T6**

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



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





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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

**WATER LEVEL INFORMATION**

WATER AT 21.3' ON 10/31/2013  
 WATER AT 20.5' ON 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										FOREST DUFF / BROWN SANDY SILT WITH ROOTLETS ~LOOSE~
	1D	24"	20"	2.0'	2	4	4	11	1.5'	
									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
	R6	3.0'	2.7'	19.0'						RQD = 44% POOR
	R7	1.0'	0.8'	20.0'						RQD = 33% POOR HIGH ANGLE TO NEARLY VERTICAL FRACTURES: 75-85 DEGREES
	R8	1.5'	1.5'	21.5'						RQD = 22% VERY POOR
	R9	1.7'	1.5'	23.2'						RQD = 0% VERY POOR HIGHLY FRACTURED, IRON STAINING ON FRACTURES HIGH ANGLE TO NEARLY VERTICAL FRACTURES: 60-85 DEGREES
	R10	3.8'	3.8'	27.0'						RQD = 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'						RQD = 28% POOR MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 50, 75-80 DEGREES

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T7**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"


**WATER LEVEL INFORMATION**

WATER AT 21.3' ON 10/31/2013  
 WATER AT 20.5' ON 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ 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 RQD = 92% EXCELLENT RQD = 100% EXCELLENT MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 35-50, 70-85 DEGREES RQD = 75% FAIR / GOOD
	R15	4.9'	4.9'	48.9'						
	R16	3.3'	3.3'	52.2'						
	R17	2.4'	2.4'	56.0'					56.0'	
										BOTTOM OF EXPLORATION AT 56.0'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  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-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')**







# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

### WATER LEVEL INFORMATION

WATER AT 11.3' ON 11/1/2013  
 WATER AT 20.8' ON 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	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) ~LOOSE~
	2D	2"	2"	5.2'	50/2"				5.2'	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
	R7	1.6'	1.6'	17.0'						RQD = 34% POOR HIGH ANGLE TO VERTICAL FRACTURES: 80-90 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
										HIGHLY FRACTURED
	R11	2.8'	2.8'	27.3'						RQD = 21% VERY POOR
	R12	2.0'	2.0'	29.3'						RQD = 38% POOR
										HIGHLY FRACTURED
	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'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T8**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

**WATER LEVEL INFORMATION**

WATER AT 11.3' ON 11/1/2013  
 WATER AT 20.8' ON 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
										GRAY PELITIC SCHIST WITH ZONES OF DARK GRAY PHYLLITE RQD = 55% POOR HIGHLY FRACTURED RQD = 0% VERY POOR SOFT TO MEDIUM HARD SEVERELY WEATHERED RQD = 47% POOR IRON OXIDE STAINING ON FRACTURES MODERATELY DIPPING TO VERTICAL FRACTURES: 40-50, 75-90 DEGREES RQD = 46% POOR RQD = 68% FAIR RQD = 36% POOR RQD = 0% VERY POOR RQD = 40% POOR RQD = 40% POOR HIGHLY FRACTURED RQD = 36% POOR RQD = 0% VERY POOR LOW ANGLE TO VERTICAL FRACTURES: 20-35, 80-90 DEGREES RQD = 45% POOR RQD = 28% POOR RQD = 42% POOR HIGHLY FRACTURED RQD = 42% POOR BOTTOM OF EXPLORATION AT 60.0'
	R16	3.8'	3.8'	41.6'						
	R17	0.9'	0.9'	42.5'						
	R18	2.0'	1.7'	44.5'						
	R19	2.0'	1.9'	46.5'						
	R20	1.0'	1.4'	47.5'						
	R21	1.5'	1.4'	49.0'						
	R22	1.0'	0.6'	50.0'						
	R23	1.0'	1.0'	51.0'						
	R24	1.0'	1.0'	52.0'						
	R25	1.7'	1.4'	53.7'						
	R26	1.1'	0.9'	54.8'						
	R27	1.6'	2.5'	56.4'						
	R28	1.5'	1.5'	57.9'						
	R29	1.0'	1.0'	58.9'						
	R30	2.1'	2.1'	60.0'					60.0'	

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES 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')**







# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ2 2"

**WATER LEVEL INFORMATION**  
 WATER AT GROUND SURFACE ON 11/1/2013  
 WATER AT 1.0' ON 11/4/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	9D	18"	16"	41.5'	23	27	50		55.0'	GRAY GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL) ~VERY DENSE~  ADVANCED BY ROLLER CONE THROUGH GLACIAL TILL
	10D	1"	0"	45.1'	50/1"					
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T9**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

### WATER LEVEL INFORMATION

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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									1.5'	FOREST DUFF / ORANGE-BROWN SANDY SILT WITH ORGANICS AND ROOTLETS ~LOOSE~
	1D	24"	15"	2.0'	1	1	5	6		
	2D	24"	22"	7.0'	6	7	7	6		BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~
	2Da	24"	20"	10.0'	6	8	13	18		
OPEN HOLE	3D	4"	4"	10.3'	50/4"					COBBLE
	3Da	18"	18"	13.5'	18	32	50			~VERY DENSE~
	4D	1"	1"	15.1'	50/1"				20.0'	
	5D	14"	10"	21.2'	12	39	50/2"			GRAY SILT AND SAND, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~VERY DENSE~
	6D	24"	22"	27.0'	16	29	37	55		
	7D	16"	16"	31.3'	22	39	50/4"			DARK GRAY GLACIAL TILL
	8D	14"	14"	36.2'	27	49	50/2"		40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 SOIL 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.: **B-T10**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 9.1' ON 11/4/2013  
 WATER AT 7.7' ON 11/6/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	9D	9"	5"	40.8'	45	50/3"			48.2'	DARK GRAY SILT AND SAND, SOME GRAVEL WITH COBBLES (GLACIAL TILL)  -VERY DENSE-
	10D	9"	9"	45.7'	26	50/3"				
	R1	2.5'	1.2'	52.5'					56.0'	GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE, TRACE QUARTZ MODERATELY WEATHERED, MODERATELY HARD RQD = 0% VERY POOR HIGHLY FRACTURED RQD = 0% VERY POOR LOW ANGLE TO HIGH ANGLE FRACTURES: 20-45, 75-80 DEGREES RQD = 13% VERY POOR
	R2	0.5'	0.5'	53.0'						
	R3	3.0'	3.0'	56.0'						
										BOTTOM OF EXPLORATION AT 56.0'

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS:  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T10**

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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS  
 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:

**WATER LEVEL INFORMATION**  
 WATER AT 1.0' DURING DRILLING  
 WATER AT 1.0' ON 12/10/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									1.0'	TOPSOIL
	1D	24"	8"	2.0'	1	5	1	12	2.0'	BROWN SANDY SILT WITH GRAVEL AND COBBLES ~ LOOSE ~ 2' DIAMETER BOULDER AT 2'
	2D	24"	18"	7.0'	13	14	13	15		BROWN SAND AND SILT, SOME GRAVEL AND COBBLES (GLACIAL TILL) ~ MEDIUM DENSE ~  3.8' DIAMETER BOULDER AT 8.7'
	3D	9"	4"	15.3'	51	50/3"			18.0'	GRAY-BROWN GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL) ~ VERY DENSE ~
	4D	8"	8"	20.7'	31	50/2"				GRAY GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL)  ~ VERY DENSE ~
	5D	9"	9"	25.8'	31	50/3"				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	5"	5"	35.4'	50/5"				36.0'	WEATHERED BEDROCK
									40.0'	BOTTOM OF EXPLORATION AT 40.0'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

	DRILLER - VISUALLY
X	SOIL TECH. - VISUALLY
	LABORATORY TEST

REMARKS: DUE TO THE CROOKEDNESS OF THE BOREHOLE, CAUSED BY COBBLES AND BOULDERS, MTB WAS UNABLE TO ADVANCE BEYOND 40.0'

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

BORING NO.: **B-T11**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS  
 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"

**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 PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
									1.0	FOREST DUFF -VERY LOOSE-
	1D	24"	4"	2.0'	1	1	1	1		BROWN GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL)  -MEDIUM DENSE -  -DENSE-  -VERY DENSE-
	2D	24"	24"	7.0'	6	6	8	32		
	3D	24"	20"	12.0'	4	9	32	29		
	4D	24"	18"	17.0'	25	43	44	65	19.0'	
	5D	6"	6"	20.5'	50	25/0"				GRAY GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL)  - VERY DENSE -
	6D	9"	9"	25.8'	60	50/3"				
	7D	9"	9"	30.8'	38	50/3"				
	8D	12"	11"	36.0'	60	50			40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 SOIL TECH. - VISUALLY  
 LABORATORY TEST

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

BORING NO.: **B-T12(NEW)**





# BORING LOG

BORING NO.: **B-T12 (NEW)**

SHEET: 2 OF 2

PROJECT NO.: 10-0014.3

DATE START: 12/5/2013

DATE FINISH: 12/5/2013

ELEVATION: 1493' ±

SWC REP.: AAS

PROJECT: BLUE SKY WEST WIND POWER PROJECT

CLIENT: REED & REED, INC.

LOCATION: BINGHAM, MAINE

DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS

CASING: TYPE SIZE I.D. HAMMER WT. HAMMER FALL  
SSA / HW 4" 140 LBS. 30"

SAMPLER: SS 1 3/8" 140 LBS. 30"

CORE BARREL: NQ 2"

**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 PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	9D	7"	7"	40.6'	70	50/1"			44.0'	GRAY GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL) ~ VERY DENSE ~
	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
	R2	5.0'	5.0'	55.0'						BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY:

D = SPLIT SPOON  
C = 3" SHELBY TUBE  
U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 SOIL TECH. - VISUALLY  
 LABORATORY TEST

REMARKS:

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

BORING NO.: **B-T12 (NEW)**

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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS  
 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:

**WATER LEVEL INFORMATION**  
 WATER AT GROUND SURFACE ON 12/5/13  
 WATER AT GROUND SURFACE ON 12/6/13  
 WATER AT 0.7' ON 12/9/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									1.0'	TOPSOIL ~LOOSE~
	1D	24"	2"	2.0'	2	3	4	5		BROWN SANDY SILT, SOME GRAVEL (GLACIAL TILL)  ~MEDIUM DENSE~
	2D	24"	24"	7.0'	3	7	7	6		
										GRAY GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL)  ~ VERY DENSE ~
	3D	24"	16"	12.0'	6	8	12	10	14.0'	
	4D	10"	10"	15.9'	28	50/4"				GRAY SILT AND SAND, SOME CLAY, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~ DENSE ~
	5D	9"	8"	20.8'	27	50/3"				
										GRAY SILT AND SAND, SOME CLAY, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~ 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 COBBLES (GLACIAL TILL) ~ DENSE ~
	8D	24"	24"	37.0'	16	18	22	40	40.0'	

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST

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

BORING NO.: **B-T13**



# BORING LOG

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**

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS  
 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: \_\_\_\_\_

**WATER LEVEL INFORMATION**  
 WATER AT GROUND SURFACE ON 12/5/13  
 WATER AT GROUND SURFACE ON 12/6/13  
 WATER AT 0.7' ON 12/9/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ 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 (GLACIAL TILL)  - VERY DENSE -
	10D	3"	3"	45.3'	50/3"					
	11D	4"	4"	50.4'	100/4"				52.0'	WEATHERED ROCK BEDROCK
									53.0'	
									55.0'	
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 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-T13**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS  
 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"

**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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										FOREST DUFF / BROWN-RUST BROWN SILT AND SAND WITH ORGANICS ~VERY LOOSE~
	1D	24"	14"	2.0'	1	W O H	1	4	2.0'	
	2D	24"	24"	6.0'	10	7	7	6		~MEDIUM DENSE~ BROWN SANDY SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)
	3D	24"	15"	10.0'	5	14	11	7		
	3Da	24"	22"	12.0'	10	13	25	31		~DENSE~
	4D	9"	1"	13.7'	97	50/3"				~VERY DENSE~
									18.0'	
	5D	15"	15"	19.2'	32	50	50/3"			GRAY SANDY SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)
	6D	15"	13"	24.2'	40	51	50/3"			~VERY DENSE~
	7D	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'	

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: 3Da MADE 5' FROM BORING  
 WATER INTRODUCED DURING DRILLING.  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T14**



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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 FREE WATER AT 2.8' IN OPEN BOREHOLE  
 WHILE DRILLING

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW										
	1D	24"	19"	2.0'	1	W O H	3	7	1.5'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~VERY LOOSE~
	2D	24"	21"	7.0'	4	10	5	6		BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~
	3D	24"	23"	10.0'	4	8	14	27	10.0'	
	4D	18"	18"	11.5'	18	25	36	50/0"		GRAY SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~VERY DENSE~
	5D	11"	11"	13.9'	51	75/5"				
	6D	4"	4"	18.3'	75/4"				19.5'	
	R1	3.6'	1.6'	24.2'						ADVANCED BY ROLLER CONE THROUGH BEDROCK TO 20.6'
										INTERBEDDED PELITIC SCHIST AND METASANDSTONE MODERATELY WEATHERED, MEDIUM HARD IRON OXIDE STAINED RQD = 40% POOR
										FRACTURES AT 20-30, 50-70 AND 80 DEGREES HIGHLY FRACTURED AND WEATHERED RQD = 0% VERY POOR
	R3	3.7'	2.2'	30.3'						RQD = 52% FAIR SEVERELY WEATHERED AND HIGHLY FRACTURED IRON OXIDE STAINED
	R4	3.5'	1.0'	33.8'						RQD = 0% VERY POOR
	R5	2.8'	0.0'	36.6'						RQD = 0% VERY POOR
	7D	3"	3"	36.8'	125/3"				40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  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-T15**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 2.8' IN OPEN HOLE  
 WHILE DRILLING

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R6	3.8'	3.5'	40.6'						RQD = 18% VERY POOR  INTERBEDDED PELITIC SCHIST AND METASANDSTONE MODERATELY TO SEVERELY WEATHERED RQD = 36% POOR IRON OXIDE STAINED SHALLOW TO STEEP FRACTURE ANGLES RQD = 15% VERY POOR AT 15, 65-85 DEGREES  SLIGHTLY WEATHERED, MODERATELY HARD TO HARD RQD = 76% GOOD SHALLOW TO STEEP FRACTURE ANGLES  RQD = 92% EXCELLENT
	R7	3.6'	3.6'	44.2'						
	R8	2.2'	2.2'	46.4'						
	R9	4.8'	4.8'	51.2'						
	R11	3.8'	3.8'	55.0'						
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T15**



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



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





# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 10.4' ON 11/8/2013  
 WATER AT 11.9' ON 11/9/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW										FOREST DUFF / RUST BROWN SILTY SAND TRACE GRAVEL WITH ROOTLETS ~VERY LOOSE~
	1D	24"	11"	2.0'	1	1	1	2	2.0'	
									5.0'	BROWN SILTY SAND SOME GRAVEL WITH COBBLES (GLACIAL TILL)
	2D	6"	5"	5.5'	50					ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 6.3'
	R1	2.5'	2.5'	8.8'						GRAY INTERBEDDED PELITIC MICA SCHIST AND METASILTSTONE RQD = 16% VERY POOR MODERATELY WEATHERED MEDIUM HARD, HIGHLY FRACTURED, IRON OXIDE STAINED STEEP FRACTURE ANGLES PARALLEL FOLIATION AT 60, 70-80 DEGREES RQD = 0% VERY POOR
	R2	3.5'	1.4'	12.3'						RQD = 34% POOR HIGHLY FRACTURED STEEP FRACTURE ANGLES AT 75-80 DEGREES
	R3	3.7'	3.2'	16.0'						RQD = 41% POOR
	R4	2.7'	3.7'	18.7'						MODERATELY HARD SLIGHTLY WEATHERED
	R5	5.0'	5.0'	23.7'						IRON OXIDE STAINING ON FRACTURE SURFACES RQD = 50% POOR / FAIR
	R6	4.0'	4.0'	27.7'						CONTAINS THIN QUARTZ VEINS STEEP ANGLE FRACTURES, CRACKS AND FOLIATION AT 60-80 DEGREES RQD = 58% FAIR
	R7	5.0'	3.8'	32.7'						RQD = 89% GOOD
	R8	2.7'	3.9'	35.4'						FRACTURES AT 10, 40 AND 60 DEGREES
									40.0'	

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING.  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T16**



# 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**

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 10.4' ON 11/8/2013  
 WATER AT 11.9' ON 11/9/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R9	4.9'	5.0'	40.3'						RQD = 86% GOOD  GRAY INTERBEDDED PELITIC MICA SCHIST AND METASILTSTONE MODERATELY HARD, SLIGHTLY WEATHERED
	R10	5.0'	5.0'	45.3'						RQD = 78% GOOD  SHALLOW TO STEEP ANGLE FRACTURES AT 20-30 AND 65-85 DEGREES
	R11	5.0'	5.0'	50.3'						RQD = 84% GOOD
	R12	4.7'	4.7'	55.0'					55.0'	RQD = 93% EXCELLENT
										BOTTOM OF EXPLORATION AT 55.0'

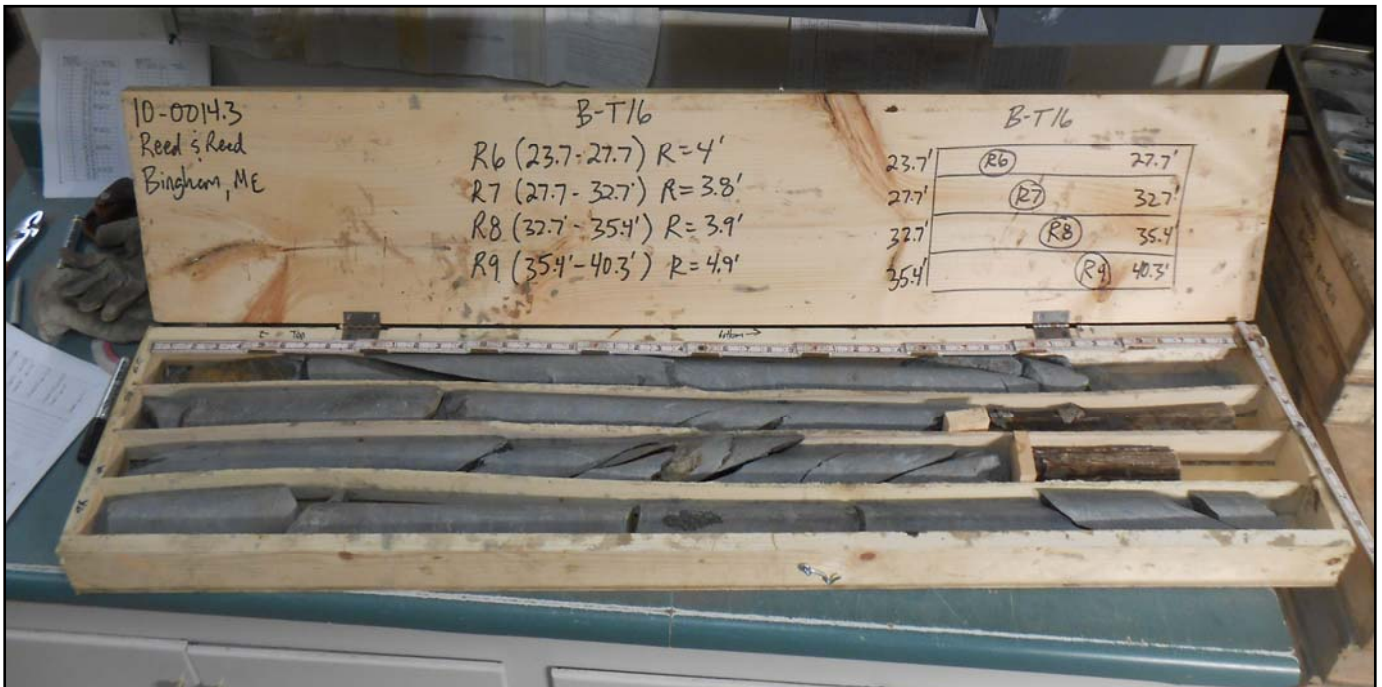
SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING.  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

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')**







# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"		

**WATER LEVEL INFORMATION**

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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW										FOREST DUFF / RUST BROWN SILTY SAND TRACE GRAVEL WITH ROOTLETS ~VERY LOOSE~
	1D	24"	13"	2.0'	1	1	1	6	2.0'	
	2D	6"	3"	4.5'	50				4.5'	BROWN SILTY SAND, SOME GRAVEL WITH COBBLES AND WEATHERED BEDROCK FRAGMENTS (GLACIAL TILL) ~VERY DENSE~
										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 5.9'
	R1	4.5'	4.4'	10.4'						GRAY INTERBEDDED PELITIC MICA SCHIST AND METASILTSTONE MODERATELY HARD, VERY SLIGHTLY WEATHERED, LIGHT IRON OXIDE STAINING, FRACTURE ANGLES AT 60-80 DEGREES RQD = 78% GOOD
	R2	3.6'	3.7'	14.0'						STEEP ANGLE FRACTURES AT 75-90 DEGREES RQD = 62% FAIR
	R3	3.7'	3.0'	17.7'						STEEP ANGLE FRACTURES AT 75-85 DEGREES RQD = 83% GOOD
	R4	3.8'	3.8'	21.5'						MODERATELY WEATHERED, HIGHLY FRACTURED FROM 19.6'-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 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 FOLIATION AT 60-70 DEGREES
	R9	5.0'	5.0'	38.7'						RQD = 72% FAIR
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

	DRILLER - VISUALLY
X	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-T17**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 4.0' ON 11/11/2013  
 WATER AT 0.8' ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	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  RQD = 50% POOR / FAIR  HIGH ANGLE FRACTURES AT 60-90 DEGREES FAINT IRON OXIDE STAINING ON FRACTURE SURFACES  RQD = 78% GOOD  RQD = 68% FAIR
	R11	5.0'	4.3'	47.7'						
	R12	5.0'	4.3'	52.7'						
	R13	2.3'	2.5'	55.0'					55.0'	
										BOTTOM OF EXPLORATION 55.0'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T17**

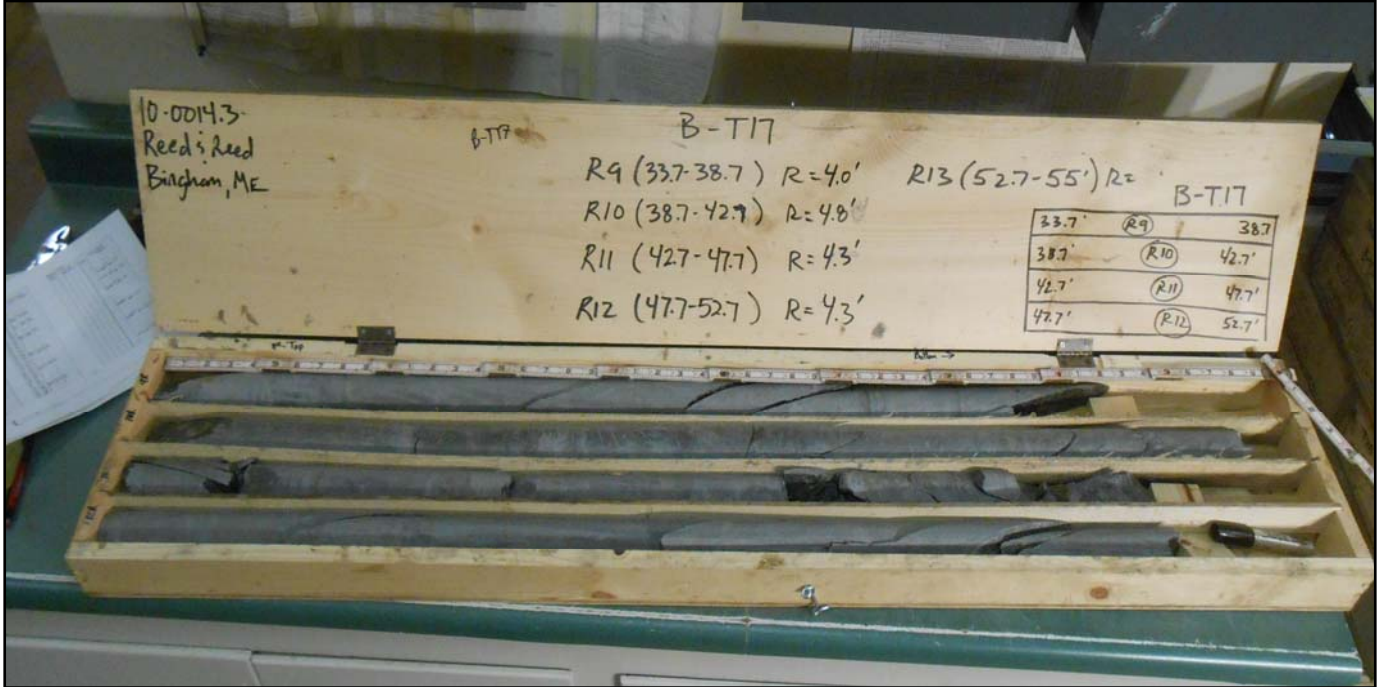
**B-T17, R1 TO R4 (10.4'-21.5')**



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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT

CLIENT: REED & REED, INC.

LOCATION: BINGHAM, MAINE

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"		

**WATER LEVEL INFORMATION**

WATER AT 3.5' ON 11/12/2013

WATER AT 1.8' ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW									1.0'	FOREST DUFF / DARK BROWN SANDY SILT WITH ORGANICS ~LOOSE~
↓	1D	24"	12"	2.0'	1	W O H	2	18	2.0'	BROWN GRAVELLY SILTY SAND ~MEDIUM DENSE~
	R1	3.4'	3.0'	5.9'						INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE MEDIUM TO MODERATELY HARD, SLIGHTLY WEATHERED, FRACTURES 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 STEEP ANGLE FRACTURES PARALLEL FOLIATION
	R3	2.0'	1.3'	9.7'						RQD = 25% VERY POOR / POOR AT 60-90 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  LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES SHALLOW TO STEEP ANGLE FRACTURES AT 10, 70 AND 80 DEGREES
	R6	5.0'	5.0'	22.0'						RQD = 46% POOR
	R7	5.0'	3.6'	27.0'						RQD = 74% FAIR MODERATE TO STEEP ANGLE FRACTURES AT 30, 45 AND 70-80 DEGREES
	R8	3.6'	4.6'	30.6'						RQD = 92% EXCELLENT
	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'	

SAMPLES: SOIL CLASSIFIED BY:

D = SPLIT SPOON  
C = 3" SHELBY TUBE  
U = 3.5" SHELBY TUBE

	DRILLER - VISUALLY
X	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-T18**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 3.5' ON 11/12/2013  
 WATER AT 1.8' ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R11	2.5'	2.5'	41.3'						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 RQD = 27% POOR IRON OXIDE STAINED CONTAINS THIN QUARTZ VEINS BECOMING LESS FRACTURED RQD = 72% FAIR BOTTOM OF EXPLORATION AT 55.4'
	R12	0.6'	0.6'	41.9'						
	R13	4.6'	4.4'	46.5'						
	R14	2.0'	1.8'	48.5'						
	R15	3.3'	3.6'	51.8'						
	R16	3.6'	3.6'	55.4'					55.4'	

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: WATER INTRODUCED DURING DRILLING.  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T18**

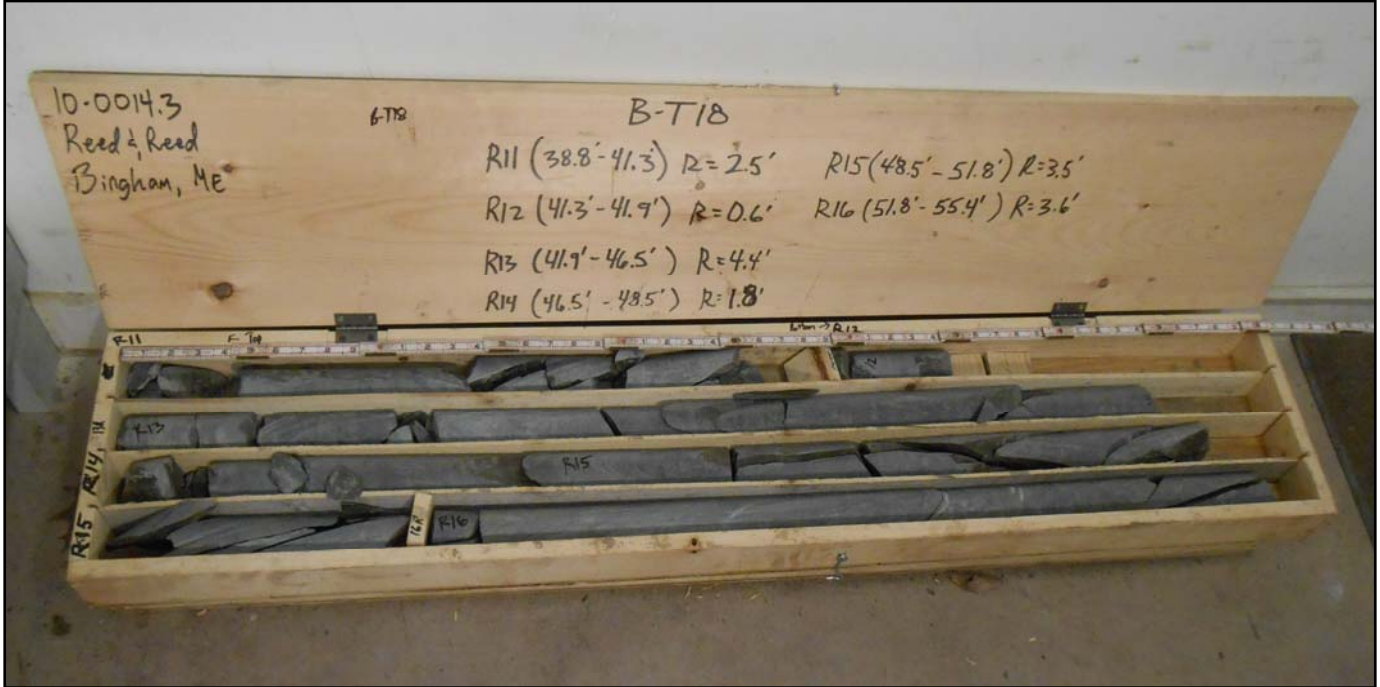
**B-T18, R1 TO R5 (2.5'-22.0')**



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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 17.0' ON 11/13/2013  
 WATER AT 17.7' ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW									1.0'	FOREST DUFF / BROWN SANDY SILT ~LOOSE~
↓	1D	24"	13"	2.0'	3	2	4	4	3.0'	BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~LOOSE~
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE SLIGHTLY WEATHERED, MODERATELY HARD TO HARD
	R1	4.6'	4.4'	8.3'						RQD = 70% FAIR
										STEEP ANGLE FRACTURES PARALLEL FOLIATION AT 75-85 DEGREES
	R2	4.4'	4.2'	12.7'						RQD = 73% FAIR
										SLIGHT IRON OXIDE STAINING ON FRACTURE SURFACES
	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'						RQD = 57% FAIR
										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'						RQD = 54% FAIR
	R9	3.5'	3.5'	36.9'						RQD = 67% FAIR
									40.0'	SEVERELY WEATHERED AND IRON OXIDE STAINED FROM 38.9' TO 40.7'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  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-T19**



# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 17.0' ON 11/13/2013  
 WATER AT 17.7' ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R10	3.8'	3.8'	40.7'						RQD = 45% POOR INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE SLIGHTLY WEATHERED, MODERATELY HARD TO HARD RQD = 52% FAIR RQD = 76% GOOD PRIMARY FRACTURES AT 75-85 DEGREES SECONDARY FRACTURES AT 15-35 DEGREES RQD = 83% GOOD RQD = 37% POOR
	R11	3.3'	3.3'	44.0'						
	R12	3.0'	3.0'	47.0'						
	R13	4.7'	4.7'	51.7'						
	R14	3.3'	3.3'	55.0'					55.0'	
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T19**



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



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



**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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 3.2' ON 11/13/2013  
 WATER AT GROUND SURFACE ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW										BROWN SILT, SOME SAND WITH ORGANICS ~VERY LOOSE~
	1D	24"	13"	2.0'	1	W O H	2	8	2.0'	
	2D	24"	17"	7.0'	3	4	30	46		BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~
	3D	24"	19"	10.0'	4	6	10	16		~MEDIUM DENSE~
	4D	12"	10"	11.0'	45	50				~VERY DENSE~
	5D	19"	19"	16.7'	23	49	60	50/2"	19.0'	
	6D	3"	3"	20.3'	75/3"				20.7'	GRAY-BROWN SAND AND SILT SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~VERY DENSE~
	R1	2.6'	2.6'	23.6'						INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE SLIGHT TO MODERATELY WEATHERED, MEDIUM TO MODERATELY HARD 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'						RQD = 16% VERY POOR
										SLIGHTLY WEATHERED
										MODERATELY HARD TO HARD
	R5	2.5'	2.4'	33.3'						RQD = 68% GOOD
	R6	2.5'	1.4'	35.8'						RQD = 94% EXCELLENT
	R7	1.9'	2.4'	37.7'						RQD = 82% GOOD
										HIGHLY FRACTURED
	R8	1.4'	1.3'	39.1'					40.0'	RQD = 0% VERY POOR

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T20**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 3.2' ON 11/13/2013  
 WATER AT GROUND SURFACE ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	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  RQD = 48% POOR MODERATE TO STEEP FRACTURE ANGLES AT 20-30 AND 75-85 DEGREES RQD = 74% FAIR  RQD = 56% FAIR NEAR VERTICAL QUARTZ VEINS RQD = 82% GOOD FRACTURE SURFACES IRON OXIDE STAINED RQD = 85% GOOD RQD = 0% VERY POOR	
	R10	3.0'	2.9'	44.4'						
	R11	2.5'	2.5'	46.9'						
	R12	2.6'	2.6'	49.5'						
	R13	2.1'	2.1'	51.6'						
	R14	2.6'	2.6'	54.2'						
	R15	0.8'	0.0'	55.0'						
									BOTTOM OF EXPLORATION AT 55.0'	

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 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')**









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



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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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:	SSA / HW	4"	140 LBS.	30"
SAMPLER:	SS	1 3/8"	140 LBS.	30"
CORE BARREL:	NQ	2"		

**WATER LEVEL INFORMATION**  
 WATER AT 14.6' ON 11/5/2013  
 WATER AT 14.0' ON 11/14/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									1.2'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~LOOSE~
↓	1D	15"	8"	1.2'	3	2	50/3"			ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 3.0'
										GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE MODERATELY WEATHERED, MODERATELY HARD
	R1	3.3'	3.3'	6.3'						RQD = 0% VERY POOR
										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'						RQD = 11% VERY POOR
										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 FRACTURES: 20-30, 90 DEGREES
										HIGHLY WEATHERED ZONE / SOFT FROM 30.2' TO 32.2.'
	R8	5.2'	3.3'	32.2'						RQD = 89% GOOD
										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'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

	DRILLER - VISUALLY
X	SOIL TECH. - VISUALLY
	LABORATORY TEST

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

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 14.6' ON 11/5/2013  
 WATER AT 14.0' ON 11/14/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R10	5.0'	4.5'	40.2'						RQD = 35% POOR GRAY INTERBEDDED PELTIC 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
	R13	1.3'	0.3'	48.5'						RQD = 0% VERY POOR HIGHLY FRACTURED
	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	0.4'	0.2'	54.2'						RQD = 0% VERY POOR
	R18	0.8'	0.8'	55.0'					55.0'	RQD = 63% FAIR
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 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-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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 14.7' ON 11/6/2013  
 WATER AT 21' ON 11/14/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW ↓									2.1'	FOREST DUFF DARK BROWN SANDY SILT WITH ORGANICS
										DARK GRAY PELITIC SCHIST WITH ZONES OF GRAY METASANDSTONE HIGHLY FRACTURED, SEVERELY WEATHERED AND SOFT BECOMING... CONTAINS WEATHERED, IRON OXIDE STAINED AMPHIBOLE CRYSTALS AND NARROW VERTICAL QUARTZ VEINS RQD = 0% VERY POOR HIGH ANGLE FRACTURES: 75-90 DEGREES
	R1	4.1'	2.0'	6.1'						RQD = 38% POOR
	R2	2.4'	2.4'	8.5'						...LESS FRACTURED, MODERATELY WEATHERED AND MODERATELY HARD
										RQD = 64% FAIR
	R3	4.6'	4.6'	13.1'						RQD = 72% FAIR
	R4	2.2'	2.2'	15.3'						NARROW VERTICAL QUARTZ VEIN
										RQD = 58% FAIR MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 45, 75-85 DEGREES
	R5	4.6'	4.6'	19.9'						RQD = 74% FAIR
										LOW ANGLE TO HIGH ANGLE FRACTURES: 20, 70-85 DEGREES
	R6	3.6'	3.6'	23.5'						RQD = 88% GOOD GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE SLIGHTLY WEATHERED, MODERATELY HARD TO HARD SLIGHT IRON OXIDE STAINING ON FRACTURES MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 50-65, 80 DEGREES
										RQD = 84% GOOD
	R7	5.0'	5.0'	28.5'						RQD = 88% GOOD MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 55, 75-80 DEGREES
	R8	5.0'	5.0'	33.5'						
	R9	4.4'	4.4'	37.9'						
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 SOIL TECH. - VISUALLY  
 LABORATORY TEST

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

BORING NO.: **B-T23**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 14.7' ON 11/6/2013  
 WATER AT 21' ON 11/14/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R10	4.0'	3.7'	41.9'						GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE RQD = 78% GOOD SLIGHTLY WEATHERED, MODERATELY HARD TO HARD RQD = 70% FAIR MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 45, 75-80 DEGREES SLIGHT PITTING ON CORE SURFACE 46.0-48.5 FT. SOME NARROW VERTICAL QUARTZ VEINS HIGH ANGLE FRACTURES 60-80 DEGREES RQD = 93% EXCELLENT  FRACTURES IRON OXIDE STAINED HIGH ANGLE FRACTURES RQD = 74% FAIR  RQD = 78% GOOD  BOTTOM OF EXPLORATION AT 55.0'
	R11	2.1'	2.4'	44.0'						
	R12	5.0'	5.0'	49.0'						
	R13	3.8'	3.8'	52.8'						
	R14	2.2'	1.8'	55.0'					55.0'	

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 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-T23**



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



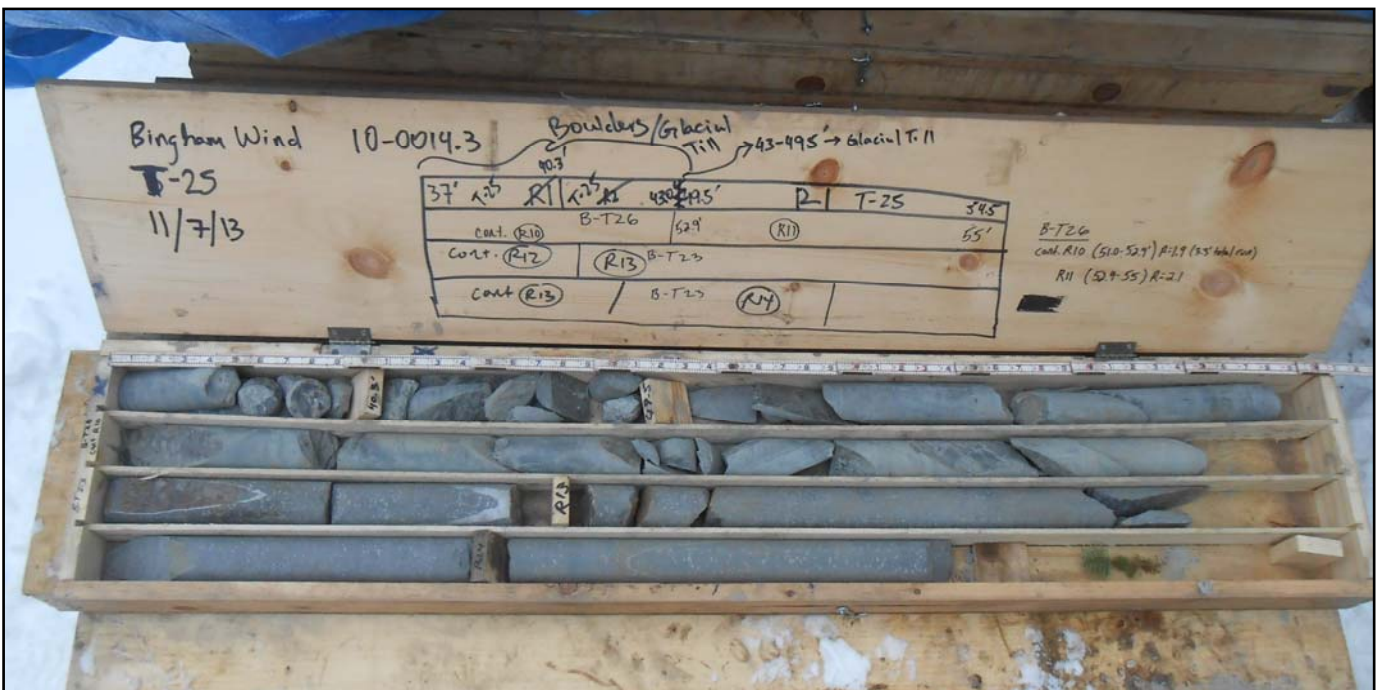
**B-T23, R3 TO R7 (8.5'-28.5')**



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



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





# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: NORTHERN TEST BORINGS, INC. DRILLER: MIKE NADEAU  
 CASING: HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 7.7' ON 11/7/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									0.5	FOREST DUFF ~MEDIUM DENSE~
	1D	24"	24"	2.0'	1	12	12	14		GRAY-BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES AND BOULDERS (GLACIAL TILL)  ~DENSE ~
	2D	24"	24"	7.0'	14	17	17	21	8.0	
	3D	24"	24"	10.0'	14	14	17	24		GRAY GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL)  ~ DENSE TO VERY DENSE~
	4D	24"	24"	12.0'	17	18	21	27		
	5D	24"	24"	17.0'	11	27	38	31		
	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"			
	9D	24"	24"	37.0'	12	27	21	54		
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 SOIL TECH. - VISUALLY  
 LABORATORY TEST

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

BORING NO.: **B-T24**



# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 7.7' ON 11/7/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	10D	1"	0"	40.1'	50/1"					BOULDER 40.0' TO 41.0'  GRAY GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL)  ~ VERY DENSE ~
	11D	14"	14"	46.2'	25	23	50/2"			
	12D	8"	8"	50.7'	24	50/2"				
	13D	4"	4"	55.3'	50/4"				55.3	BOTTOM OF EXPLORATION AT 55.3'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 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-T24**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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:

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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									0.4	FOREST DUFF
	1D	24"	24"	2.0'	1	1	7	9	4.0	BROWN SANDY SILT ~ LOOSE ~
	2D	24"	24"	7.0'	8	8	11	8		~MEDIUM DENSE~ 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"			19.0'	~DENSE~ w=12.8%
	5D	5"	5"	20.4'	50/5"					~VERY DENSE~ w=11.2%
	6D	9"	7"	25.8'	34	50/3"				GRAY SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)
	7D	5"	5"	30.4'	50/5"				34.6'	
									40.0'	GLACIAL TILL WITH BOULDERS AND/OR HIGHLY WEATHERED BEDROCK

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST

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

BORING NO.: **B-T25**





# BORING LOG

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**

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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:				

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

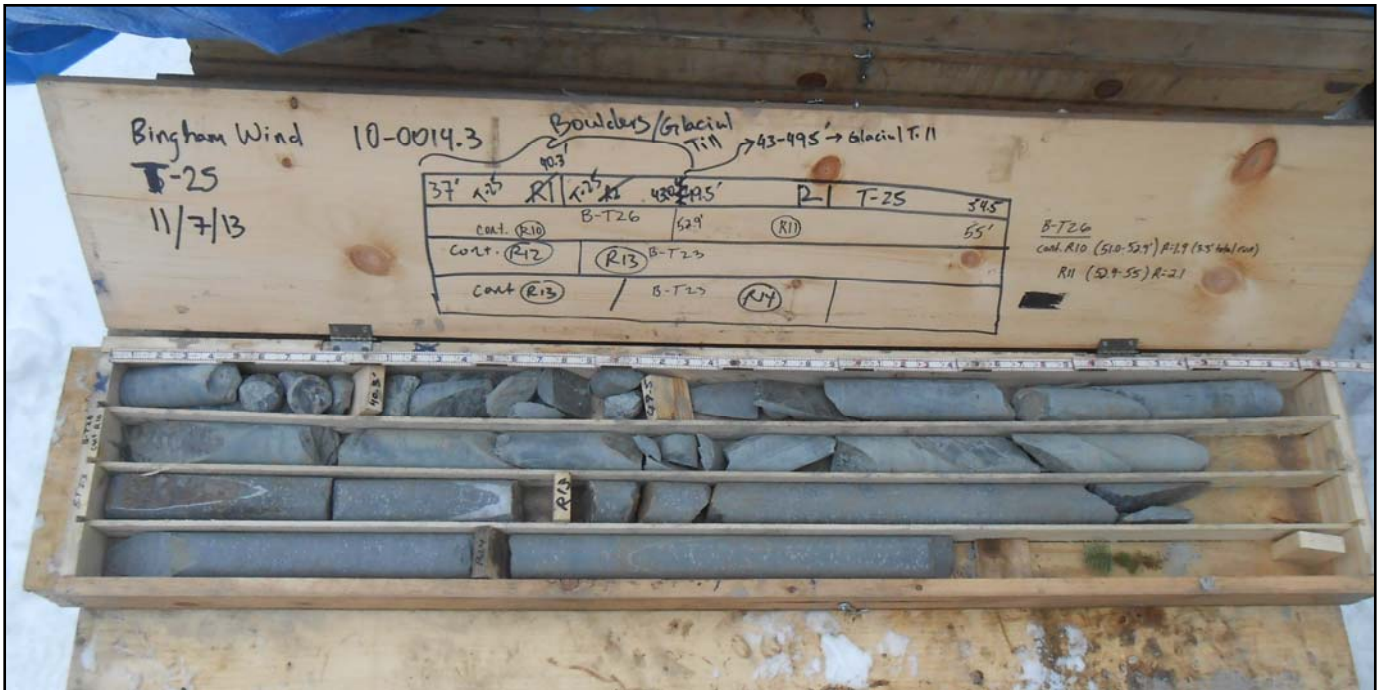
CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
									43.0'	GLACIAL TILL WITH BOULDERS AND/OR HIGHLY WEATHERED BEDROCK
									49.5'	GRAY SAND AND SILT, SOME GRAVEL WITH COBBLES AND BOULDERS (GLACIAL TILL)
									54.5'	DARK GRAY METASILTSTONE FOLIATED AT 75-85 DEGREES FRACTURES ALONG FOLIATION PLANES
	R1	5.0'	2.5'	54.5'					54.5'	RQD = 45% POOR
										BOTTOM OF EXPLORATION AT 54.5'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST

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

BORING NO.: **B-T25**

**B-T25 R1 (49.5'-54.5')**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**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 PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									1.5'	FOREST DUFF / BROWN SANDY SILT WITH ROOTLETSV ~LOOSE~
	1D	24"	13"	2.0'	1	1	2	4		
	2D	24"	18"	7.0'	6	5	5	50/4"		BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~
	3D	24"	24"	12.0'	13	13	16	24		~DENSE~
									14.0'	
	4D	6"	6"	15.5'	55					GRAY SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~VERY DENSE~
	5D	9"	9"	21.2'	24	50/3"				
	6D	12"	12"	26.0'	48	50				
NW										
	7D	1"	1"	30.1'	50/1"				30.0'	
	R1	1.4'	1.4'	33.4'						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
	R2	1.5'	1.4'	34.9'						RQD = 39% POOR NUMEROUS CLOSELY SPACED STEEP ANGLE FRACTURES PARALLEL FOLIATION
										RQD = 48% POOR AT 50-80 DEGREES
	R3	2.1'	2.1'	37.0'						RQD = 85% GOOD BECOMING LESS FRACTURED
	R4	1.7'	1.7'	38.7'					40.0'	

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

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

BORING NO.: **B-T26**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**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'

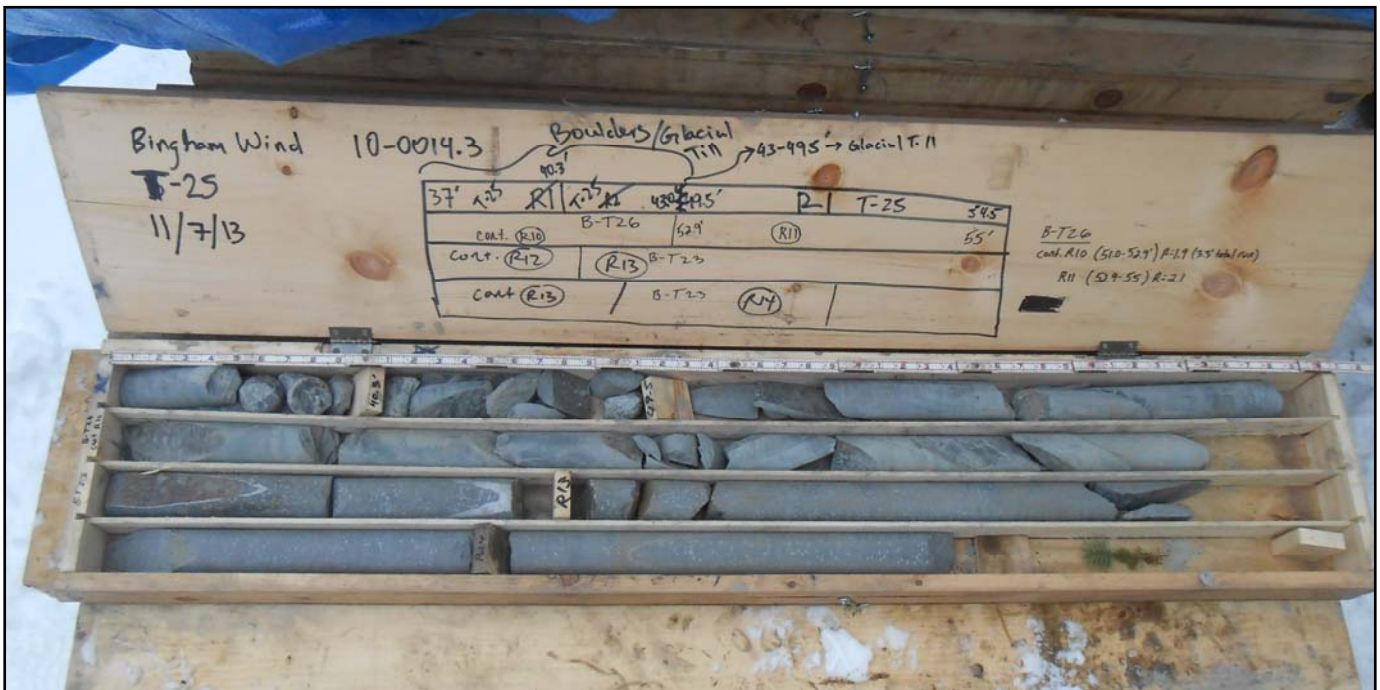
CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R5	1.7'	1.5'	40.4'						RQD = 37% POOR GRAY INTERBEDDED PELITIC SCHIST AND METASILTSTONE FAINT IRON OXIDE STAINING RQD = 52% FAIR MODERATE TO STEEP ANGLE FRACTURES PARALLEL FOLIATION AT 50-70 DEGREES RQD = 63% FAIR RQD = 50% POOR / FAIR RQD = 50 % POOR / FAIR MODERATE TO STEEP ANGLE FRACTURES RQD = 64% FAIR PARALLEL FOLIATION AT 50-80 DEGREES RQD = 83% GOOD BOTTOM OF EXPLORATION AT 55.0'
	R6	3.3'	3.1'	43.7'						
	R7	3.0'	2.9'	46.7'						
	R8	1.7'	1.6'	48.4'						
	R9	1.2'	1.6'	49.6'						
	R10	3.3'	3.3'	52.9'						
	R11	2.1'	2.1'	55.0'						

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 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-T26**

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



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







# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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 / NW 4" / 3" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 6.6' ON 11/12/2013  
 WATER AT 4.9' ON 11/13/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW	1D	24"	12"	2.0'	1	1	2	3	2.0'	FOREST DUFF / BROWN SAND AND SILT WITH ORGANICS ~LOOSE~
	2D	24"	24"	7.0'	6	6	4	5		BROWN SILT AND SAND, SOME GRAVEL, TRACE CLAY WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~
NW	3D	14"	12"	11.1'	7	15	50/2"		12.8'	ADVANCED ROLLER CONE THROUGH GLACIAL TILL AND WEATHERED BEDROCK TO 15.0'
	R1	1.7'	1.5'	16.7'						RQD = 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
										FRACTURES PARALLEL FOLIATION AT 50-70 DEGREES
	R4	2.9'	2.8'	23.9'						RQD = 45% POOR
	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'						RQD = 22% VERY POOR
										HIGHLY FRACTURED
	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 FRACTURE SURFACES IRON OXIDE STAINED
	R11	1.6'	1.2'	39.5'					40.0'	RQD = 58% FAIR

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 SOIL TECH. - VISUALLY  
 LABORATORY TEST

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

BORING NO.: **B-T27**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 6.6' ON 11/12/2013  
 WATER AT 4.9' ON 11/13/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R12	1.7'	1.4'	41.2'					RQD = 0% VERY POOR RQD = 0% VERY POOR GRAY INTERBEDDED PELITIC SCHIST AND METASILTSTONE RQD = 21% VERY POOR QUARTZ VEIN (HARD) 44.5'-45.0'  RQD = 37% POOR STEEP TO NEAR VERTICAL FRACTURES  IRON OXIDE STAINING ON FRACTURE SURFACES RQD = 13% VERY POOR RQD = 0% VERY POOR HIGHLY FRACTURED  NUMEROUS QUARTZ VEINS RQD = 37% POOR  BOTTOM OF EXPLORATION AT 55.0'	
	R13	1.4'	1.3'	42.6'						
	R14	2.4'	1.6'	45.0'						
	R15	3.0'	2.4'	48.0'						
	R16	2.8'	3.0'	50.8'						
	R17	0.7'	0.6'	51.5'						
	R18	3.5'	2.9'	55.0'						

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES 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')**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**WATER LEVEL INFORMATION**

WATER AT 11.1' ON 11/13/2013  
 WATER AT 2.1' ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ 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	3.0'	BROWN SAND AND SILT, SOME GRAVEL WITH BEDROCK FRAGMENTS (GLACIAL TILL) ~LOOSE~
										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 4.0'
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE MODERATELY TO SEVERELY WEATHERED AND SOFT BECOMING....
	R1	3.4'	2.7'	7.4'						RQD = 19% VERY POOR HIGHLY FRACTURED
	R2	2.6'	2.1'	10.0'						LOW ANGLE AND HIGH ANGLE FRACTURES: 30, 75-80 DEGREES
										RQD = 52% FAIR
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 55-60, 75 DEGREES
	R3	3.5'	3.0'	13.5'						RQD = 33% POOR
										HIGHLY FRACTURED
	R4	2.9'	1.9'	16.4'						RQD = 0% VERY POOR
	R5	2.1'	2.1'	18.5'						LOW ANGLE AND HIGH ANGLE FRACTURES: 30, 80-85 DEGREES
										RQD = 25% VERY POOR / POOR
										...MODERATELY WEATHERED AND MODERATELY HARD
										GRANITE PEGMATITE ZONE: 22.0-22.8'
	R6	5.0'	5.0'	23.5'						RQD = 62% FAIR
										MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 35-45, 70-85 DEGREES
	R7	4.0'	2.5'	27.5'						RQD = 38% POOR
	R8	2.9'	2.9'	30.4'						RQD = 58% FAIR
										LOW ANGLE AND HIGH ANGLE FRACTURES: 30, 65-70 DEGREES
	R9	3.4'	3.4'	33.8'						RQD = 81% GOOD
	R10	4.2'	3.7'	38.0'						RQD = 76% GOOD
										HIGH ANGLE FRACTURES: 70-80 DEGREES
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

	DRILLER - VISUALLY
X	SOIL TECH. - VISUALLY
	LABORATORY TEST

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

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 11.1' ON 11/13/2013  
 WATER AT 2.1' ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R11	3.0'	3.0'	41.0'						RQD = 93% EXCELLENT INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE MODERATELY HARD TO HARD, SLIGHTLY WEATHERED RQD = 77% GOOD MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 35, 65-80 DEGREES  RQD = 93% EXCELLENT MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 35, 65-80 DEGREES  RQD = 92% EXCELLENT HIGH ANGLE FRACTURES: 80-85 DEGREES
	R12	2.6'	3.0'	43.6'						
	R13	4.1'	4.0'	47.7'						
	R14	5.0'	5.0'	52.7'						
	R15	2.8'	2.8'	55.5'						
									55.5'	RQD = 89% GOOD
										BOTTOM OF EXPLORATION AT 55.5'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 SOIL TECH. - VISUALLY  
 LABORATORY TEST

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



**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')**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 15.6' ON 11/13/2013  
 WATER AT 12.8' ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										FOREST DUFF / ORANGE-BROWN SILT AND SAND WITH ORGANICS AND ROOTLETS ~LOOSE~
↓	1D	24"	19"	2.0'	1	1	2	4	1.8'	
									4.4'	BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL) ~LOOSE~
										ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 6.0'
	R1	1.6'	0.5'	7.6'						RQD = 0% VERY POOR GRAY PELITIC SCHIST
	R2	1.2'	1.2'	8.8'						RQD = 0% VERY POOR MEDIUM HARD, SLIGHTLY WEATHERED
	R3	2.1'	1.8'	10.9'						RQD = 0% VERY POOR HIGHLY FRACTURED, IRON OXIDE STAINED
	R4	1.6'	1.3'	12.5'						RQD = 52% FAIR
	R5	2.1'	2.1'	14.6'						RQD = 43% POOR
	R6	1.9'	1.9'	16.5'						RQD = 46% POOR FRACTURES PARALLEL
	R7	1.5'	1.5'	18.0'						RQD = 50% POOR / FAIR FOLIATION AT 60-70 DEGREES
										LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES
	R8	2.8'	2.7'	20.8'						RQD = 52% FAIR
	R9	2.6'	2.7'	23.4'						RQD = 75% FAIR / GOOD
	R10	3.9'	3.9'	27.3'						RQD = 60% FAIR FRACTURES PARALLEL FOLIATION AT 50-70 DEGREES
	R11	2.5'	2.4'	29.8'						RQD = 62% FAIR
										LIGHT IRON OXIDE STAINING
	R12	4.1'	3.9'	33.9'						RQD = 74% FAIR
	R13	3.6'	3.7'	37.5'						RQD = 89% GOOD VERY SLIGHTLY WEATHERED STEEP ANGLE FRACTURES AND CRACKS PARALLEL FOLIATION AT 60-80 DEGREES
									40.0'	

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY SOIL TECH. - VISUALLY LABORATORY TEST

D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

REMARKS: SURFACE COBBLES AND BOULDERS

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

BORING NO.: **B-T30**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 15.6' AT 11/13/2013  
 WATER AT 12.8' ON 11/19/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	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  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' ±  RQD = 76% GOOD
	R15	4.1'	4.1'	45.8'						
	R16	4.0'	4.0'	49.8'						
	R17	5.0'	5.0'	54.8'						
										BOTTOM OF EXPLORATION AT 54.8'

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: SURFACE COBBLES AND BOULDERS  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T30**



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

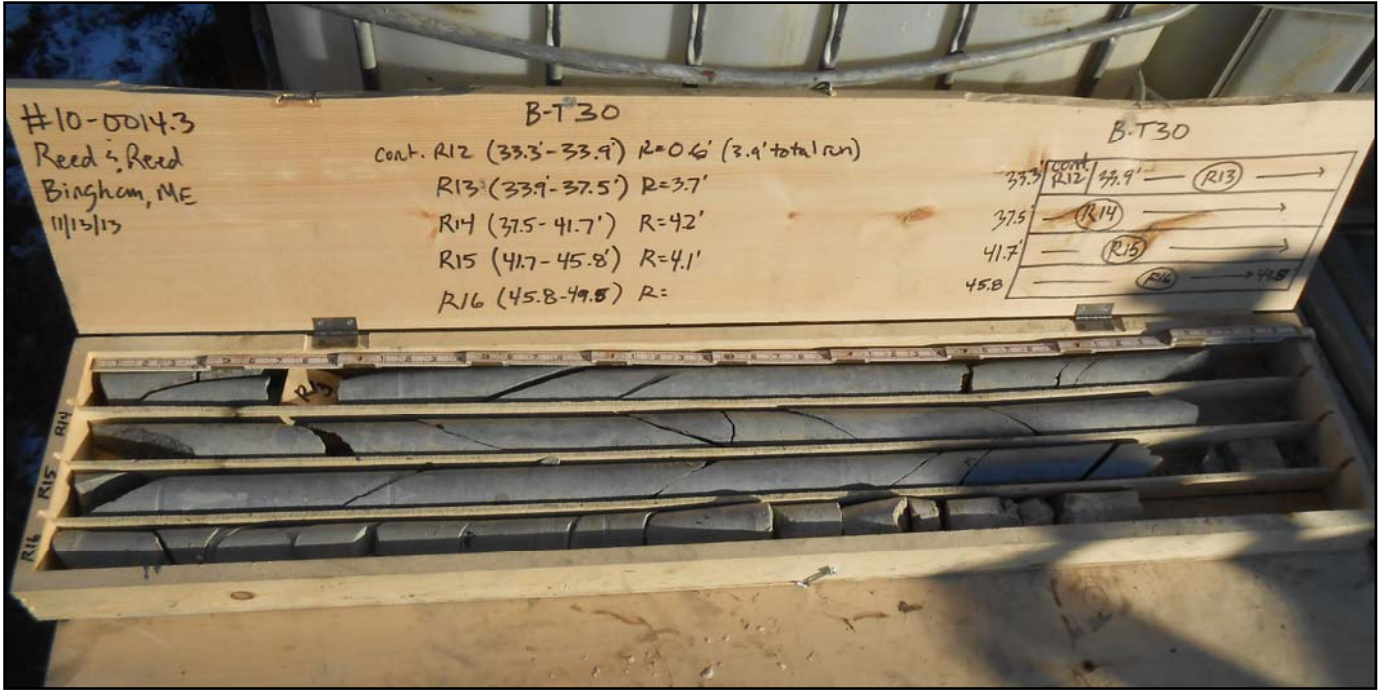


**B-T30, R6 TO R12 (14.6'-33.3')**





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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA/HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 SOILS WET TO SATURATED AT 2'  
 WATER AT 8.1' ON 11/13; WATER AT 1.0' ON 11/19  
 BORE HOLE CAVED AT 3.4'

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										
	1D	24"	17"	2.0'	7	2	2	5	1.5'	FOREST DUFF / BROWN SAND AND SILT WITH ROOTLETS ~LOOSE~
	2D	24"	16"	7.0'	3	3	4	3		BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL) ~LOOSE~
	3D	24"	22"	10.0'	4	3	5	5		
	4D	24"	24"	12.0'	8	7	9	14	14.0'	~MEDIUM DENSE~
	5D	9"	9"	15.8'	16	50/3"				~VERY DENSE~
										GRAY GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL)
	6D	24"	22"	22.0'	20	29	29	33	24.0'	
	R1	3.4'	2.0'	27.4'						GRAY METASILTSTONE WITH ZONES OF PHYLITTE MODERATELY HARD, SLIGHTLY WEATHERED, HIGHLY FRACTURED RQD = 15% VERY POOR FRACTURE SURFACES IRON OXIDE STAINED
	R2	4.2'	2.7'	31.6'						HIGHLY FRACTURED, SHALLOW TO STEEP FRACTURE RQD = 17% VERY POOR ANGLES AT 5-90 DEGREES FRACTURE SURFACES IRON OXIDE STAINED CLOSE TO MODERATELY SPACED FRACTURES PARALLEL FOLIATION AT 20, 40-60 DEGREES
	R3	5.0'	5.0'	36.6'						RQD = 87% GOOD
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 SOIL TECH. - VISUALLY  
 LABORATORY TEST

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

BORING NO.: **B-T31**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA/HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 SOILS WET TO SATURATED AT 2'  
 WATER AT 8.1' ON 11/13 AND AT 1.0' ON 11/19  
 BORE HOLE CAVED AT 3.4'

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	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  RQD = 77% GOOD LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES  RQD = 77% GOOD  SHALLOW TO STEEP FRACTURE ANGLES AT 5-70 DEGREES  RQD = 65% FAIR
	R5	5.0'	5.0'	46.3'						
	R6	4.6'	4.1'	50.9'						
	R7	4.1'	3.7'	55.0'						
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 SOIL TECH. - VISUALLY  
 LABORATORY TEST

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

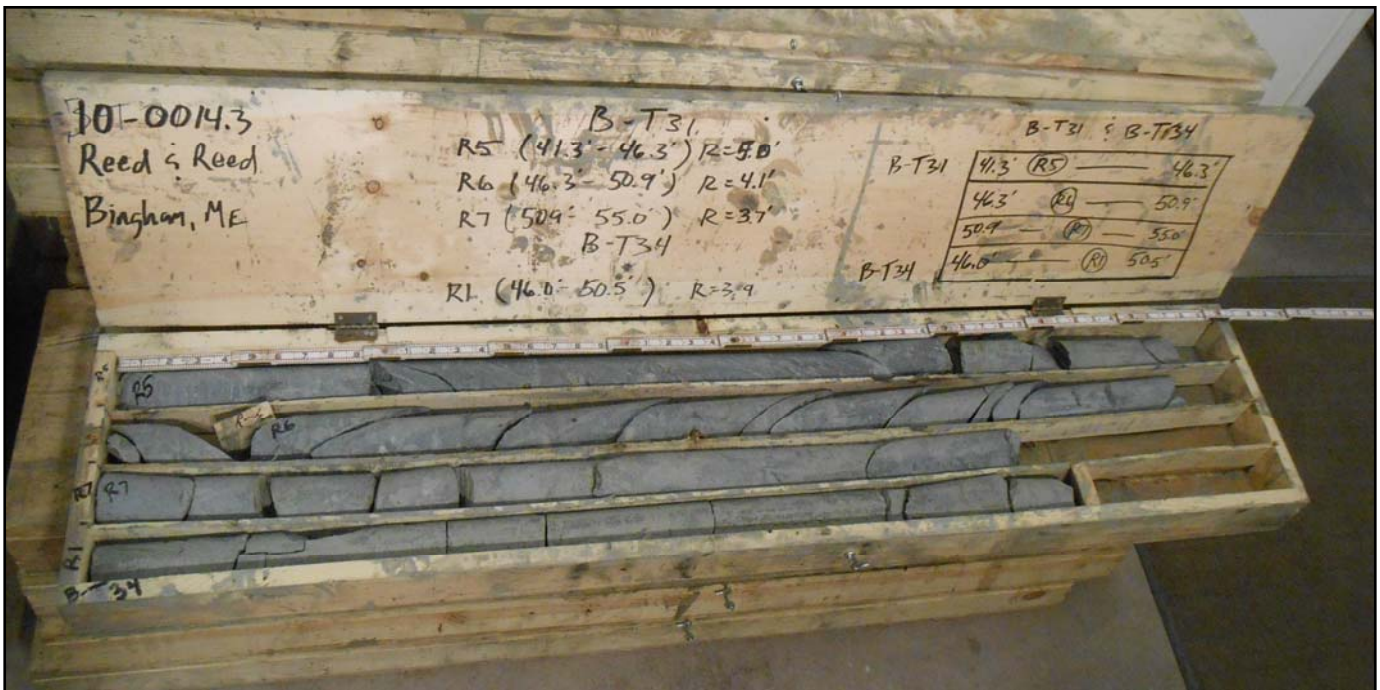
BORING NO.: **B-T31**



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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA/HW/NW 4" / 3" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 10.2' ON 11/13/2013  
 WATER AT 2.2' ON 11/21/2013  
 BOREHOLE CAVED AT 8.0'

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW	1D	24"	18"	2.0'	28	12	5	9	1.5'	FOREST DUFF / DARK BROWN GRAVELLY SANDY SILT WITH ORGANICS ~MEDIUM DENSE~
	2D	24"	15"	7.0'	14	12	9	15		BROWN GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL) ~ MEDIUM DENSE ~
NW	3D	24"	23"	12.0'	6	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'	
	6D	24"	24"	27.0'	34	40	44	51		GRAY GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL) ~VERY DENSE~
	7D	12"	15"	32.0'	39	43	50/3"		31.5'	WEATHERED BEDROCK FRAGMENTS / GLACIAL TILL
	8D	2"	0"	37.0'	100/2"				37.0'	~VERY DENSE~ ADVANCE BY ROLLER CONE THROUGH BEDROCK TO 40.0'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 SOIL TECH. - VISUALLY  
 LABORATORY TEST

REMARKS: 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**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA/HW/NW 4" / 3" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 10.2' ON 11/13/2013  
 WATER AT 2.2' ON 11/21/2013  
 BOREHOLE CAVED AT 8.0'

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R1	5.0'	1.3'	45.0'						INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE MEDIUM HARD, HIGHLY FRACTURED, IRON OXIDE STAINED  RQD = 0% VERY POOR  STEEPLY FOLIATED NUMEROUS STEEP TO VERTICAL ANGLE FRACTURES RQD = 0% VERY POOR AT 60-90 DEGREES  BECOMING LESS FRACTURED  RQD = 76% GOOD RQD = 0% VERY POOR HIGHLY FRACTURED RQD = 0% VERY POOR LIGHT IRON OXIDE STAINING RQD = 0% VERY POOR ON FRACTURE SURFACES
	R2	2.4'	1.8'	47.4'					55.0'	
	R3	3.7'	3.6'	51.1'						
	R4	1.4'	1.8'	52.5'						
	R5	1.4'	1.1'	53.9'						
	R6	1.1'	0.6'	55.0'						
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST

REMARKS: 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**

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





# BORING LOG

BORING NO.: **B-T33**  
 SHEET: 1 OF 2  
 PROJECT NO.: 10-0014.3  
 DATE START: 11/15/2013  
 DATE FINISH: 11/15/2013  
 ELEVATION: 1511' ±  
 SWC REP.: PJO

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**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 FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										FOREST DUFF/ LIGHT BROWN SILT, SOME SAND WITH ORGANICS ~MEDIUM DENSE~
	1D	24"	15"	2.0'	2	5	7	6	2.0'	
										BROWN SANDY SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)
										~LOOSE~
	2D	24"	14"	7.0'	3	4	4	5		
										~MEDIUM DENSE~
	3D	24"	24"	12.0'	5	9	8	12	14.0'	
										~VERY DENSE~
	4D	5"	5"	15.4'	50/5"					GRAY-BROWN SANDY SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)
	5D	2"	0"	20.2'	50/2"				25.0'	
										~VERY DENSE~
	6D	24"	8"	27.0'	27	26	31	51		GRAY SANDY SILT, SOME GRAVEL (GLACIAL TILL)
										~MEDIUM DENSE~
	7D	24"	24"	32.0'	8	11	18	32		
										~DENSE~
	8D	24"	24"	37.0'	10	12	22	28		

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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**



# BORING LOG

BORING NO.: **B-T33**  
 SHEET: 2 OF 2  
 PROJECT NO.: 10-0014.3  
 DATE START: 11/15/2013  
 DATE FINISH: 11/15/2013  
 ELEVATION: 1511' ±  
 SWC REP.: PJO

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 8.4' ON 11/15/2013  
 WATER AT 1.6' ON 11/21/2013  
 BOREHOLE CAVED AT 8.7'

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	9D	4"	4"	40.3'	50/4"					~VERY DENSE~  GRAY GRAVELLY SANDY SILT (GLACIAL TILL)
	10D	3"	3"	45.3'	50/3"				45.7'	ADVANCE BY ROLLER CONE THROUGH WEATHERED BEDROCK TO 50.5'  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
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T33**

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







# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT

CLIENT: REED & REED, INC.

LOCATION: BINGHAM, MAINE

DRILLING FIRM: NORTHERN TEST BORINGS, INC. DRILLER: MIKE NADEAU

CASING: SSA / HW 4" 140 LBS. 30"

SAMPLER: SS 1 3/8" 140 LBS. 30"

CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**

WATER AT 10.2' ON 11/14/2013

WATER AT 4.4' ON 11/21/2013

BOREHOLE CAVED AT 15.5'

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										FOREST DUFF / SANDY SILT WITH ORGANICS ~VERY LOOSE~
	1D	24"	14"	2.0'	1	1	1	3	2.0	
										BROWN GRAVELLY SAND AND SILT WITH COBBLES (GLACIAL TILL) ~VERY DENSE~
	2D	24"	6"	7.0'	26	50/4"				
	3D	24"	24"	12.0'	21	24	22	27	14.0'	
	4D	3"	3"	15.3'	50/3"					GRAY-BROWN HIGHLY WEATHERED BEDROCK (SAPROLITE) ~ VERY DENSE ~
	5D	2"	2"	20.2'	50/2"					
	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:

D = SPLIT SPOON  
C = 3" SHELBY TUBE  
U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-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

PROJECT: BLUE SKY WEST WIND POWER PROJECT

CLIENT: REED & REED, INC.

LOCATION: BINGHAM, MAINE

DRILLING FIRM: NORTHERN TEST BORINGS, INC. DRILLER: MIKE NADEAU

CASING: SSA / HW 4" 140 LBS. 30"

SAMPLER: SS 1 3/8" 140 LBS. 30"

CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**

WATER AT 10.2' ON 11/14/2013

WATER AT 4.4' ON 11/21/2013

BOREHOLE CAVED AT 15.5'

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	9D	4"	3"	40.3'	100/4"				42.7'	GRAY-BROWN HIGHLY WEATHERED BEDROCK (SAPROLITE)
										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
	R1	4.5'	3.9'	50.5'					55.0'	RQD = 60% FAIR
										HIGHLY FRACTURED 50.5'-51.8'
										CLOSELY SPACED SHALLOW TO MODERATELY DIPPING FRACTURES AT 5-15, 45, AND 60 DEGREES
	R2	4.5'	4.5'	55.0'						RQD = 57% FAIR
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY:

D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

	DRILLER - VISUALLY
X	SOIL TECH. - VISUALLY
	LABORATORY TEST

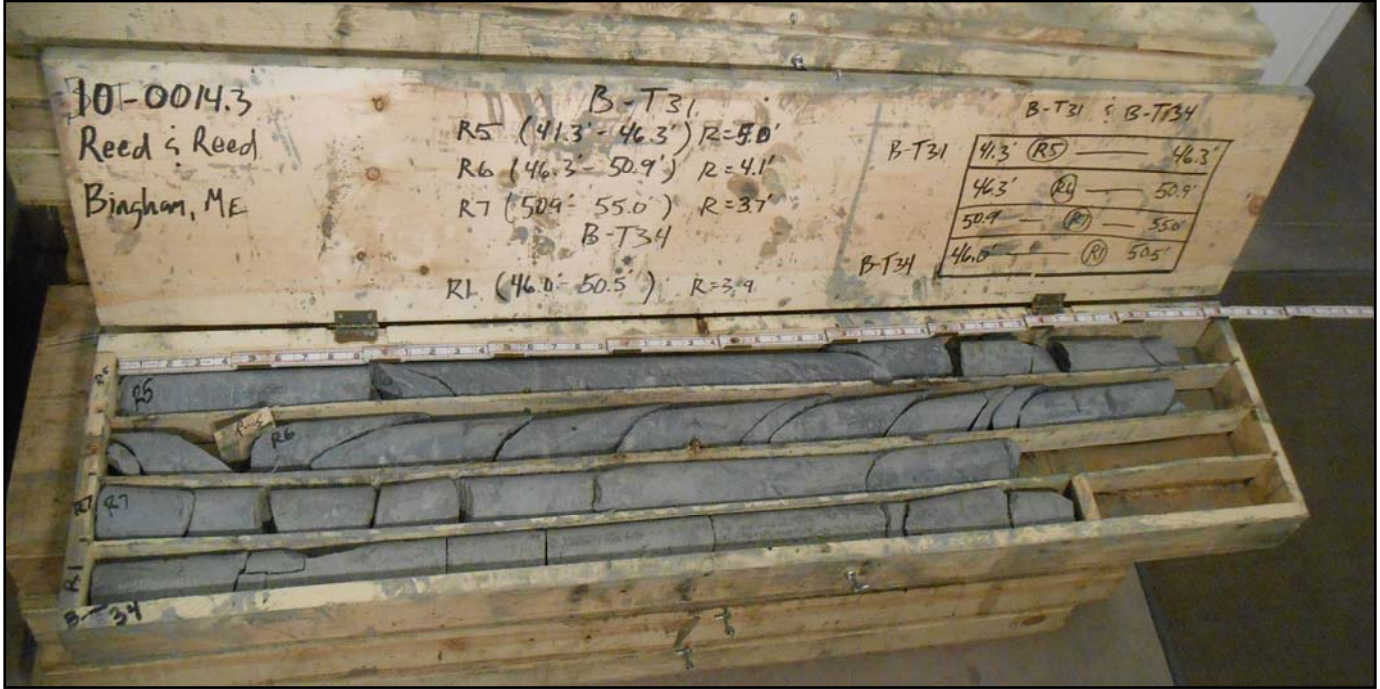
REMARKS:

WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T34**



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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**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 PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										
	1D	24"	4"	2.0'	12	10	7	8	2.0'	RUST BROWN SANDY SILT WITH ORGANICS AND ROCK FRAGMENTS ~MEDIUM DENSE~
	2D	24"	22"	7.0'	9	6	3	5		BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL) ~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'
	R1	3.0'	2.1'	30.0'						ADVANCE BY ROLLER CONE THROUGH BEDROCK TO 27.0' INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE HIGHLY WEATHERED BECOMING..., SOFT BECOMING... HIGHLY FRACTURED AND IRON OXIDE STAINED RQD = 18% VERY POOR
	R2	2.7'	2.7'	32.7'						RQD = 63% FAIR ...SLIGHTLY WEATHERED ...MODERATELY HARD FRACTURE ANGLES AT 20, 45, 70-90 DEGREES
	R3	5.0'	4.9'	37.7'						RQD = 50% POOR / FAIR IRON OXIDE STAINED THIN QUARTZ VEINS PITTED

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T35**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**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 PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	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 RQD = 25% VERY POOR / POOR FRACTURES AT 10, 20 AND 70 DEGREES RQD = 63% FAIR RQD = 78% GOOD
	R5	5.0'	4.4'	46.5'						
	R6	3.6'	3.7'	50.1'						
	R7	4.9'	5.0'	55.0'					55.0	
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T35**



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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 13.1' ON 11/13/2013  
 WATER AT 13.7' ON 11/22/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										FOREST DUFF / RUST BROWN SAND AND SILT, TRACE GRAVEL WITH ROOTLETS ~LOOSE~
	1D	24"	17"	2.0'	1	1	3	4	2.0'	
										BROWN GRAVELLY SAND AND SILT WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~
	2D	24"	20"	7.0'	12	9	7	9		
	3D	24"	21"	12.0'	12	14	21	27	12.7'	~DENSE~
										ADVANCE BY ROLLER CONE THROUGH BEDROCK TO 15.0'
										GRAY PELITIC SCHIST MODERATELY HARD, SLIGHTLY 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
										RQD = 38% POOR SHALLOW TO VERTICAL FRACTURE ANGLES
	R3	2.0'	1.8'	25.4'						
	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

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T37**





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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**

WATER AT 6.0' ON 11/18/2013  
 WATER AT 6.0' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										FOREST DUFF / DARK BROWN SILT WITH ORGANICS ~LOOSE~
↓	1D	16"	8"	1.3'	1	1	50/4"		1.2'	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 FAINT IRON OXIDE STAINING
	R4	4.4'	4.4'	15.9'						RQD = 25% VERY POOR / POOR STEEP ANGLE TO VERTICAL FRACTURES AT 60-90 DEGREES
	R5	4.2'	4.0'	20.1'						RQD = 48% POOR HIGHLY FRACTURED 20.1'-20.9'
	R6	3.2'	3.2'	23.3'						RQD = 50% POOR / FAIR BECOMING LESS FRACTURED
	R7	4.6'	4.6'	27.9'						RQD = 76% GOOD
	R8	4.6'	4.6'	32.5'						RQD = 41% POOR PHYLLITE ZONE HIGH ANGLE TO VERTICAL FRACTURES AT 60-90 DEGREES
	R9	5.0'	5.0'	37.5'						RQD = 52% FAIR

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T38**





# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 6.0' ON 11/18/2013  
 WATER AT 6.0' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R10	3.5'	2.7'	41.0'						NUMEROUS HIGH ANGLE TO VERTICAL FRACTURES RQD = 22% VERY POOR  INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE MODERATELY HARD, BECOMING LESS FRACTURED RQD = 77% GOOD  NUMEROUS STEEP ANGLE FRACTURES AT 60-80 DEGREES  RQD = 27% POOR  CLOSELY SPACED STEEP ANGLE FRACTURES AT 60-80 DEGREES FAINT IRON OXIDE STAINING  RQD = 52% FAIR RQD = 52% FAIR
	R11	4.7'	5.3'	45.7'						
	R12	4.7'	4.8'	50.4'						
	R13	4.0'	4.0'	54.4'						
	R14	1.3'	1.3'	55.7'						
									55.7'	BOTTOM OF EXPLORATION AT 55.7'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 8.9' ON 11/20/2013  
 WATER AT 7.3' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										FOREST DUFF / DARK BROWN SILT WITH ORGANICS ~LOOSE~
↓	1D	17"	12"	1.4'	1	1	50/5"		1.2'	ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 3.0'
										INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE MODERATELY HARD, NUMEROUS STEEP ANGLE FRACTURES RQD = 10% VERY POOR THAT PARALLEL FOLIATION AT 60-80 DEGREES FRACTURE SURFACES IRON OXIDE STAINED
	R1	4.4'	3.4'	7.4'						RQD = 46% POOR
	R2	3.9'	3.9'	11.3'						NUMEROUS HIGH ANGLE TO VERTICAL FRACTURES WITH IRON OXIDE STAINING RQD = 20% VERY POOR
	R3	4.6'	4.5'	15.9'						RQD = 64% FAIR MODERATELY HARD
	R4	5.0'	4.2'	20.9'						NUMEROUS HIGH ANGLE TO VERTICAL FRACTURES AT 60-90 DEGREES RQD = 57% FAIR STAINED WITH IRON OXIDE
	R5	4.6'	4.6'	25.5'						RQD = 44% POOR STEEP TO VERTICAL FRACTURE ANGLES RQD = 20% VERY POOR AT 70-90 DEGREES
	R6	5.0'	5.0'	30.5'						FRACTURES AT 10, 40 AND 60 DEGREES RQD = 70% FAIR
	R7	1.0'	1.4'	31.5'						
	R8	5.0'	5.0'	36.5'						

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T39**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 8.9' ON 11/20/2013  
 WATER AT 7.3' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ 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  RQD = 70% FAIR  RQD = 84% GOOD FRACTURE SURFACES IRON OXIDE STAINED STEEP FRACTURE ANGLES AT 70 DEGREES  RQD = 67% FAIR
	R10	5.0'	5.0'	46.5'						
	R11	5.0'	5.0'	51.5'						
	R12	5.0'	4.9'	56.5'						
									56.5'	BOTTOM OF EXPLORATION AT 56.5'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T39**



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



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





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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

### WATER LEVEL INFORMATION

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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW										BROWN SAND AND SILT WITH ORGANICS ~LOOSE~
↓	1D	21"	18"	1.7'	1	1	2	50/3"	1.6'	ADVANCE BY SOLID STEM AUGER THROUGH BEDROCK TO 3.0'
										INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE MODERATELY HARD, STEEP ANGLE FRACTURES AND FOLIATION LIGHT IRON OXIDE STAINING
	R1	4.5'	4.5'	7.5'						RQD = 36% POOR FRACTURES AT 45, 70 AND 90 DEGREES
	R2	5.0'	5.0'	12.5'						RQD = 54% FAIR STEEP ANGLE TO VERTICAL FRACTURES EXTEND THROUGH ENTIRE RUN FAINT IRON OXIDE STAINING
	R3	4.0'	3.8'	16.5'						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
	R6	5.0'	5.0'	31.5'						RQD = 60% FAIR MODERATELY HARD
	R7	5.0'	4.6'	36.5'						RQD = 60% FAIR

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T40**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**

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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R8	4.7'	4.2'	41.2'						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  RQD = 89% GOOD
	R9	5.0'	5.0'	46.2'						
	R10	4.6'	4.4'	50.8'						
	R11	4.6'	4.6'	55.4'					55.4'	
										BOTTOM OF EXPLORATION AT 55.4'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T40**

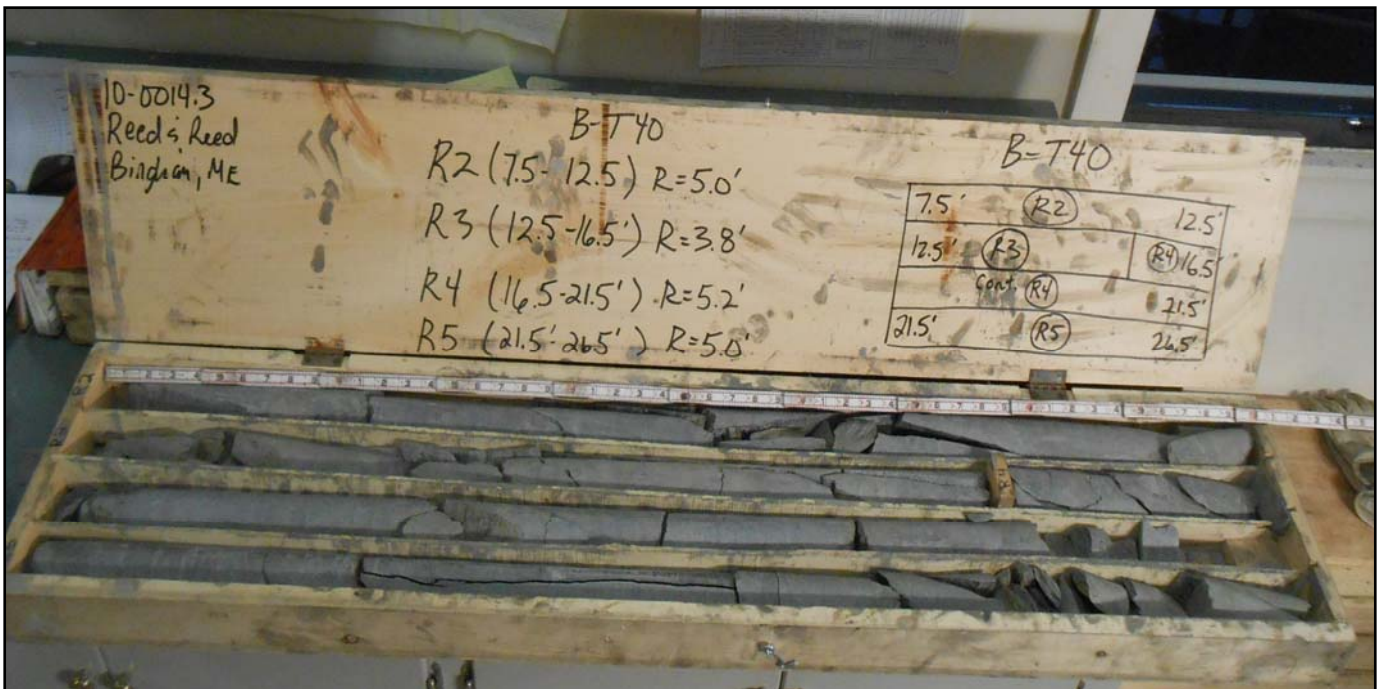




**B-T40, R1 (3.0'-7.5')**

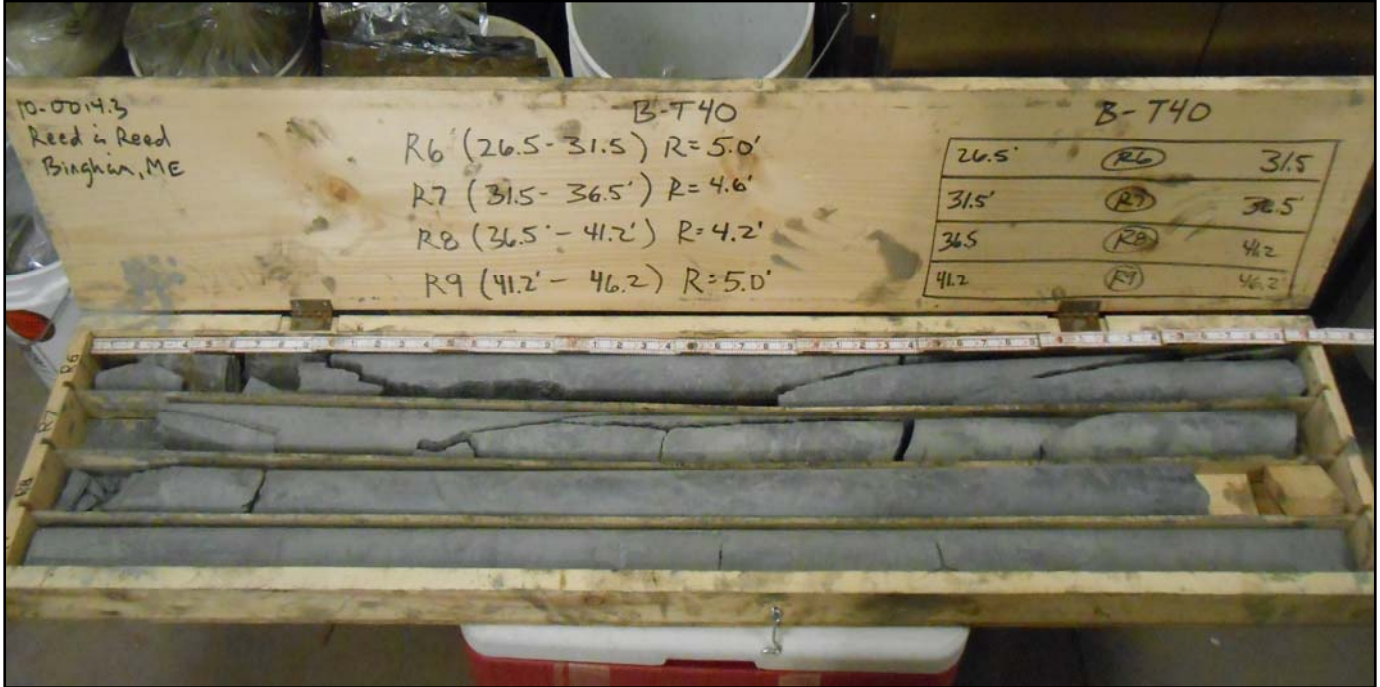


**B-T40, R2 TO R5 (7.5'-26.5')**





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



**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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 7.3' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
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 ON CLOSELY SPACED STEEP TO VERTICAL FRACTURES
	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 FRACTURES 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
										FRACTURES AT 5, 60, 70 AND 90 DEGREES FAINT IRON OXIDE STAINING ON FRACTURE SURFACES
	R5	5.0'	5.0'	26.5'						RQD = 74% FAIR
										RQD = 74% FAIR
	R6	5.0'	5.0'	31.5'						VERY CLOSELY SPACED STEEP ANGLE TO VERTICAL FRACTURES BELOW 33.5'±
										RQD = 28% POOR
	R7	5.0'	4.2'	36.5'						

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST

WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T41**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 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: SSA / HW 4" 140 LBS. 30"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 7.3' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R8	5.0'	5.0'	41.5'						RQD = 60% FAIR  INTERBEDDED GRAY PELITIC SCHIST AND METASILTSTONE MODERATELY HARD, FRACTURES AT 5, 10, 45 AND 60 DEGREES  RQD = 78% GOOD  WIDELY SPACED VERTICAL FRACTURES  RQD = 90% GOOD / EXCELLENT SHALLOW FRACTURES AT 5-10 DEGREES  RQD = 93% EXCELLENT
	R9	5.2'	5.2'	46.7'						
	R10	4.8'	4.8'	51.5'						
	R11	3.5'	3.5'	55.0'						
										BOTTOM OF EXPLORATION AT 55.0'

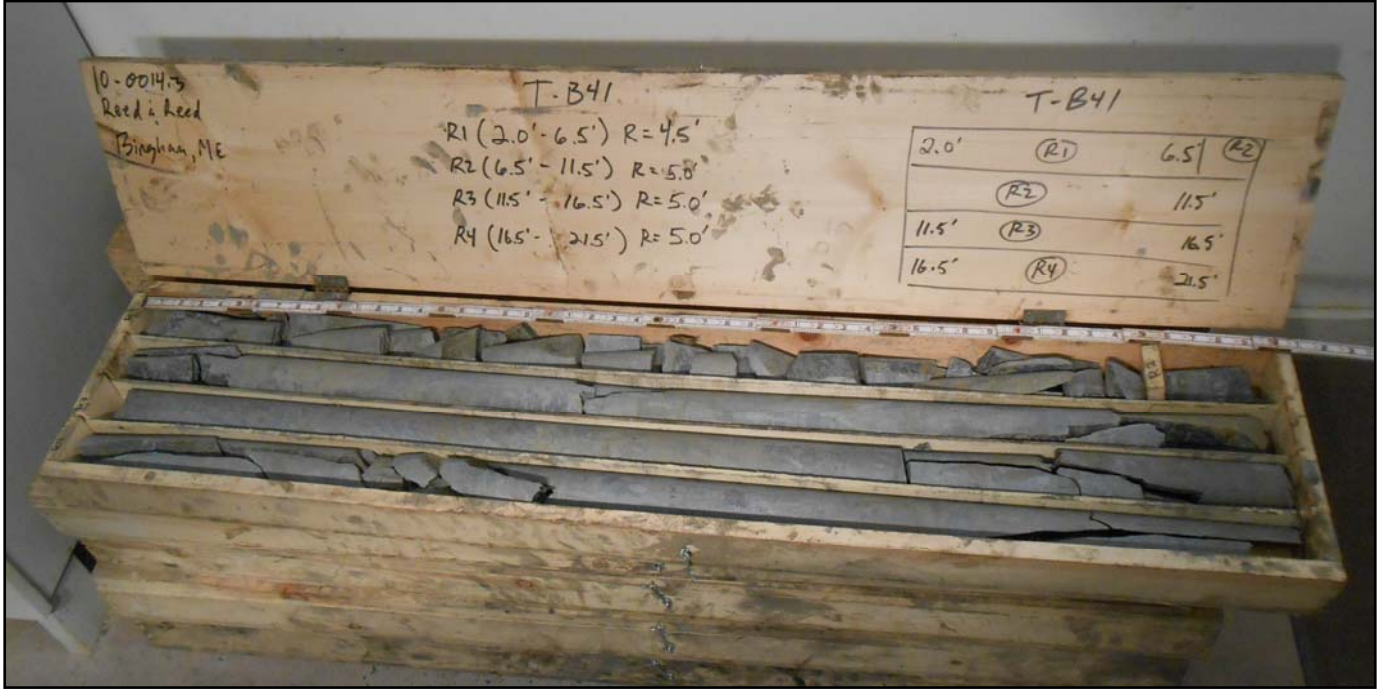
SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T41**



**B-T41, R1 TO R4 (2.0'-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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: NORTHERN TEST BORING, 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"

**WATER LEVEL INFORMATION**  
 WATER AT 17.2' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
HW									1.5'	FOREST DUFF / DARK BROWN SAND AND SILT WITH ORGANICS ~LOOSE~
	1D	24"	19"	2.0'	1	1	7	15		
	2D	24"	22"	7.0'	12	15	14	17		BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~
OPEN HOLE	3D	24"	21"	12.0'	4	4	8	12	15.0'	
	4D	4"	4"	15.3'	50/4"					~VERY DENSE~
	5D	3"	3"	20.2'	50/3"					
	6D	9"	6"	25.7'	42	50/3"			25.7'	
	R1	3.5'	3.0'	33.5'						ADVANCE BY ROLLER CONE THROUGH WEATHERED BEDROCK TO 28.1'  ADVANCE BY ROLLER CONE THROUGH BEDROCK TO 30.0'  GRAY PHYLLITIC METASILTSTONE MODERATELY HARD, SLIGHTLY WEATHERED RQD = 83% GOOD
	R2	2.9'	3.2'	36.4'						RQD = 45% POOR
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T42**



# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: NORTHERN TEST BORING, 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"

**WATER LEVEL INFORMATION**  
 WATER AT 17.2' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R3	4.9'	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  RQD = 53% FAIR  CLOSELY SPACED FRACTURES  RQD = 57% FAIR
	R4	5.0'	4.7'	46.5'						
	R5	4.6'	3.7'	51.1'						
	R6	3.5'	2.8'	54.6'						
									54.6'	BOTTOM OF EXPLORATION AT 54.6'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: NORTHERN TEST BORING, 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"

### WATER LEVEL INFORMATION

WATER AT 1.0' ON 11/21/2013  
 WATER AT 2.5' ON 11/22/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
									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
	R3	5.0'	4.9'	16.0'						RQD = 83% GOOD
										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
										CLOSE TO WIDELY SPACED FRACTURES
										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
	R8	4.2'	4.2'	39.2'					40.0'	RQD = 66% FAIR

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T43**



# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: NORTHERN TEST BORING, 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"

**WATER LEVEL INFORMATION**  
 WATER AT 1.0' ON 11/21/2013  
 WATER AT 2.5' ON 11/22/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R9	3.1'	3.0'	42.3'						DARK GRAY METASILTSTONE RQD = 0% VERY POOR MEDIUM TO MODERATELY HARD, SLIGHTLY WEATHERED STEEP ANGLE TO VERTICAL FRACTURES EXTEND THROUGH ENTIRE RUN LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES RQD = 66% FAIR  RQD = 75% FAIR / GOOD CLOSELY SPACED STEEP ANGLE TO VERTICAL FRACTURES EXTEND THROUGH ENTIRE RUN RQD = 32% POOR
	R10	5.0'	4.8'	47.3'						
	R11	4.0'	3.9'	51.3'						
	R12	3.7'	3.0'	55.0'					55.0'	
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T43**



**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')**





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**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 BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW									1.0'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~LOOSE~
↓	1D	24"	12"	2.0'	1	1	2	2	2.8'	BROWN SAND AND SILT TRACE GRAVEL (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
										RQD = 72% FAIR
										STEEP TO VERTICAL FRACTURES AND CRACKS EXTEND THROUGH ENTIRE RUN
										FRACTURE SURFACES IRON OXIDE STAINED
	R4	3.9'	3.9'	23.2'						RQD = 16% VERY POOR
										FRACTURES AT 5, 20 AND 70-90 DEGREES
										RQD = 71% FAIR
										RQD = 64% FAIR
										SHALLOW, STEEP AND VERTICAL FRACTURES AT 5-10, 45 AND 80-90 DEGREES FRACTURE SURFACES AND EXTERIOR OF CORE IRON OXIDE STAINED
										RQD = 70% FAIR
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**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

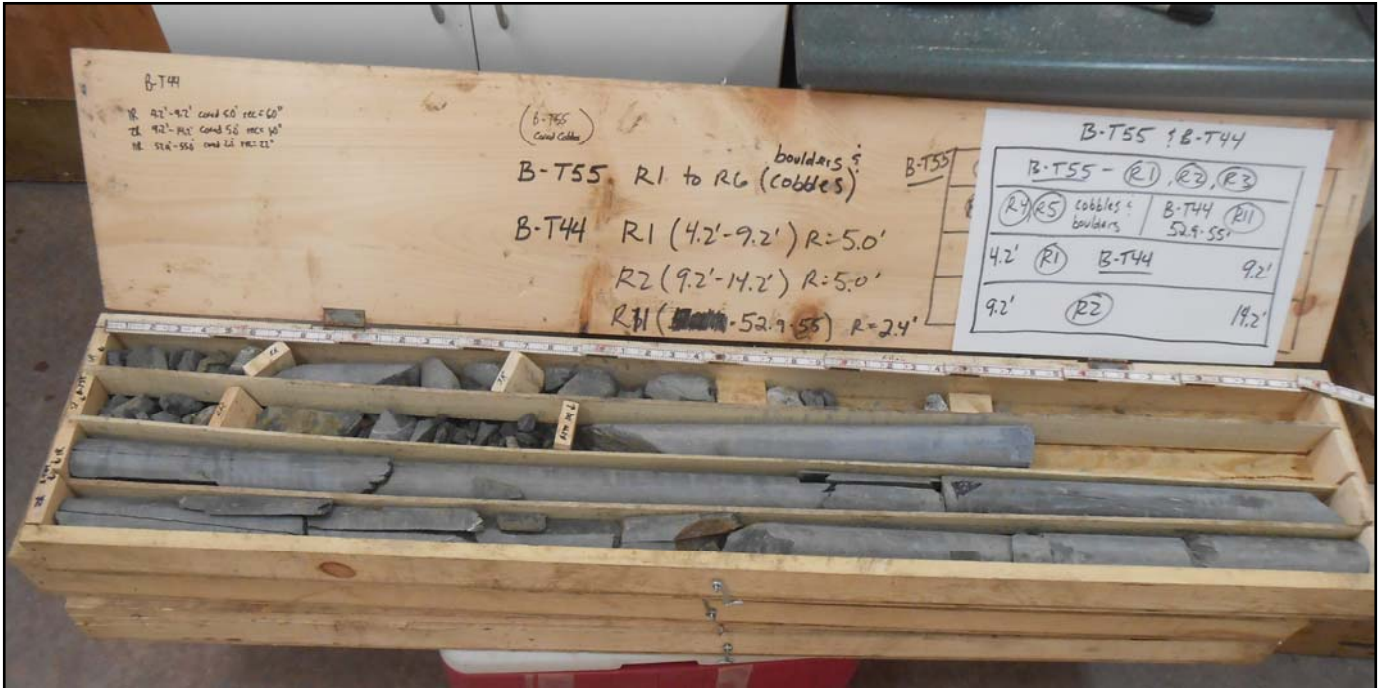
CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R8	5.0'	4.8'	43.2'						INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE MODERATELY HARD, SLIGHTLY WEATHERED RQD = 62% FAIR FRACTURE SURFACES IRON OXIDE STAINED  FRACTURE ANGLES AT 10, 70 AND 90 DEGREES  RQD = 77% GOOD  FRACTURE ANGLES AT 5 AND 90 DEGREES  RQD = 90% GOOD / EXCELLENT  RQD = 81% GOOD
	R9	4.7'	5.0'	47.9'						
	R10	5.0'	5.0'	52.9'						
	R11	2.1'	2.1'	55.0'					55.0'	
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T44**



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

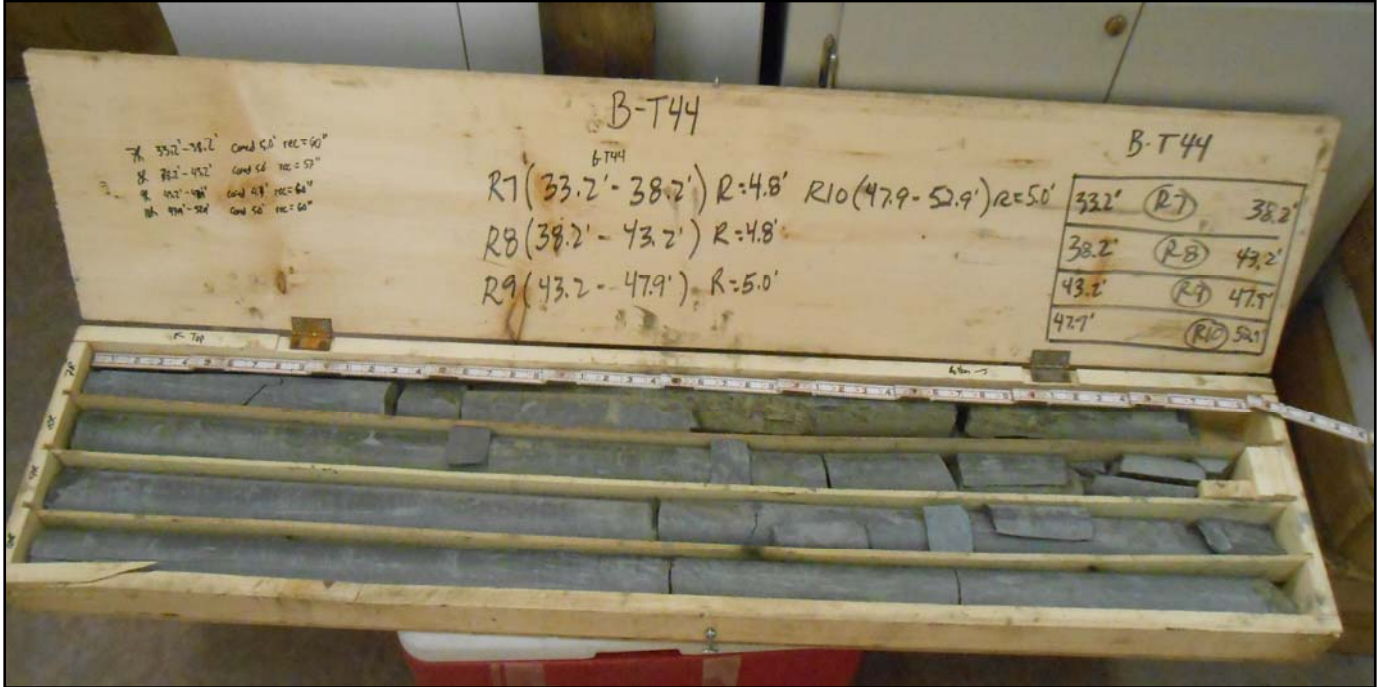


**B-T44, R3 TO R6 (14.2'-33.2')**





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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL:

**WATER LEVEL INFORMATION**  
 WATER AT 9.0' ON 11/26/13  
 WATER AT 3.5' ON 11/27/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
									0.5	FOREST DUFF
	1D	24"	5"	2.0'	2	1	1	9	3.0'	BROWN SANDY SILT ~ VERY LOOSE ~
	2D	24"	20"	7.0'	7	7	7	7		~ MEDIUM DENSE ~
										BROWN SANDY SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)
	3D	24"	8"	12.0'	5	9	14	17		
										...BECOMING GRAVELLY ~VERY DENSE~
	4D	24"	18"	17.0'	42	36	48	60	19.0'	
	5D	24"	24"	22.0'	8	36	17	20		GRAY GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL)
	6D	24"	16"	27.0'	22	44	27	40		~ VERY DENSE ~
	7D	24"	15"	32.0'	26	29	26	23		
	8D	13"	13"	37.0'	13	24	50/1"		40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T45**



# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL:

**WATER LEVEL INFORMATION**  
 WATER AT 9.0' ON 11/26/13  
 WATER AT 3.5' ON 11/27/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	9D	21"	21"	41.8'	17	27	29	50/3"	56.2'	GRAY GRAVELLY SAND AND SILT WITH COBBLES AND BOULDERS (GLACIAL TILL)  ~ VERY DENSE ~
	10D	22"	19"	46.9'	19	30	33	50/4"		
	11D	6"	6"	50.5'	40	50/0"			56.2'	BOTTOM OF EXPLORATION AT 56.2'
	12D	14"	8"	56.2'	32	41	50/2"			

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T45**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 NOT OBSERVED

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
									0.4	FOREST DUFF
	1D	24"	10"	2.0'	2	1	1	10	2.5	BROWN SANDY SILT, SOME GRAVEL ~ 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 MODERATELY HARD, SLIGHTLY WEATHERED, FRACTURE SURFACES IRON OXIDE STAINED AND QUARTZ VEINS PITTED STEEP TO NEAR VERTICAL FOLIATION
	R2	3.8'	3.8'	9.4'						RQD = 65% FAIR FRACTURE ANGLES AT 30, 70-90 DEGREES SLIGHTLY TO MODERATELY FRACTURED
	R3	3.9'	3.9'	13.3'						CONTAINS MUSCOVITE MICA AND PYRITE RQD = 55% FAIR CONTAINS QUARTZ AND CALCITE VEINS
	R4	3.0'	2.9'	16.3'						CRACKS AND FRACTURE ANGLES AT 40-60 DEGREES RQD = 82% GOOD
	R5	4.6'	4.6'	20.9'						RQD = 70% FAIR LIGHT IRON OXIDE STAINING ON FRACTURE SURFACES
	R6	4.8'	4.8'	25.7'						RQD = 75% FAIR / GOOD QUARTZ VEINS 1/4" TO 1 1/2" 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 QUARTZ RICH VEIN WITH PYRITE AND BIOTITE FROM 35.5' TO 36'
	R9	2.3'	2.3'	38.0'						RQD = 70% FAIR FRACTURE ANGLES AT 10, 45 AND 90 DEGREES FRACTURE SURFACES IRON OXIDE STAINED
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

	DRILLER - VISUALLY
X	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-T46**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 NOT OBSERVED

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	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 OCCASIONAL QUARTZ / IRON OXIDE VEINING
	R12	5.0'	4.6'	51.9'						RQD = 78% GOOD VERTICAL FRACTURES
	R13	3.1'	2.9'	55.0'					55.0'	RQD = 70% FAIR BOTTOM OF EXPLORATION AT 55.0'

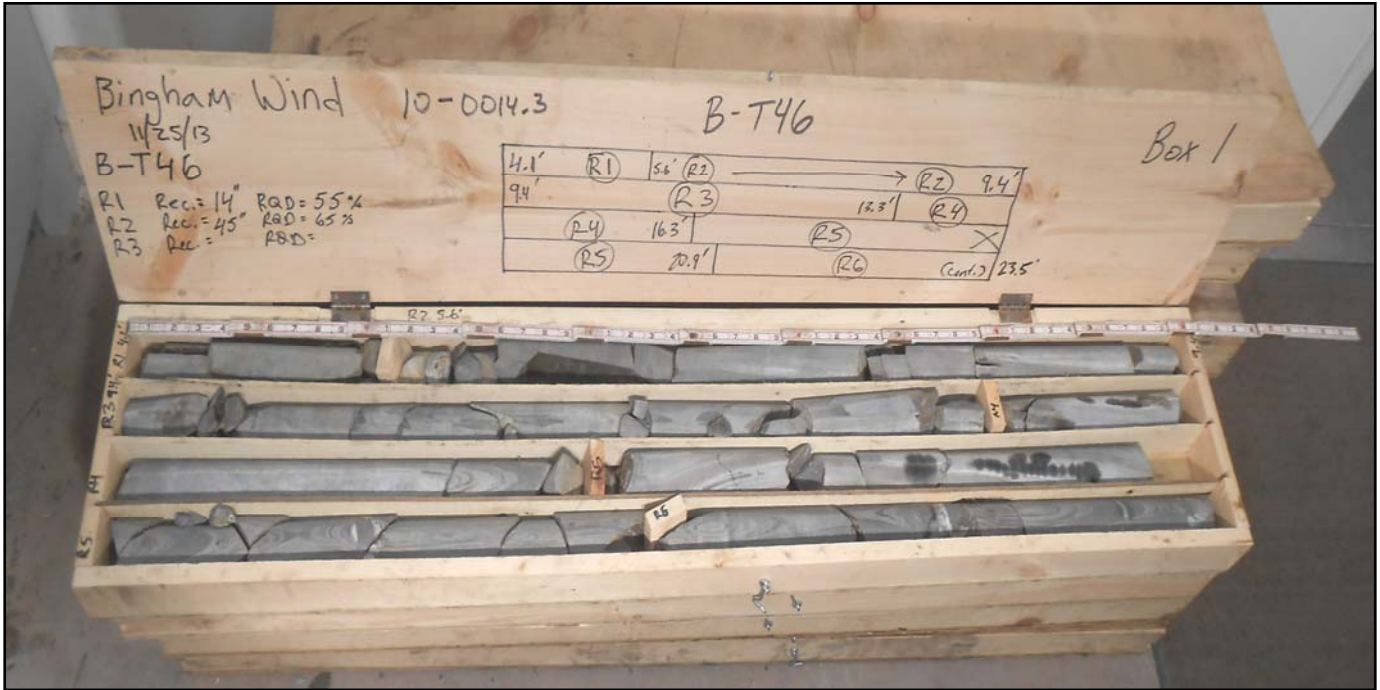
SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS:  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T46**



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



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



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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 12.7' ON 11/22/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW										FOREST DUFF / DARK BROWN SANDY SILT WITH ROOTLETS ~LOOSE~
	1D	24"	12"	2.0'	1	2	2	8	1.5'	
										GRAY-BROWN GRAVELLY SILT AND SAND WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~
	2D	24"	15"	7.0'	12	10	14	14		
	3D	15"	11"	9.2'	21	37	50/3"		9.4'	~VERY DENSE~
										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 10.2' INTERBEDDED GRAY PELITIC SCHIST WITH BANDS OF METASILTSTONE AND METASANDSTONE STEEP TO VERTICAL FOLIATION RQD = 63% FAIR AT 60-90 DEGREES
	R1	4.1'	3.9'	14.3'						
										MODERATELY HARD, STEEP ANGLE AND VERTICAL FRACTURES EXTEND THROUGH ENTIRE RUN AT 60-90 DEGREES IRON OXIDE STAINED, TRACE PYRITE RQD = 14% VERY POOR
	R2	5.0'	4.9'	19.3'						
										FRACTURES AT 5, 20 AND 90 DEGREES
	R3	5.0'	4.9'	24.3'						
										RQD = 86% GOOD
	R4	3.7'	3.7'	28.0'						
										HIGHLY FRACTURED THROUGH ENTIRE RUN STEEP TO VERTICAL FRACTURES AT 60-90 DEGREES RQD = 0% VERY POOR IRON OXIDE STAINED
	R5	5.0'	4.5'	33.0'						
										RQD = 0% VERY POOR
	R6	4.8'	5.0'	37.8'						
										PHYLLITIC, IRON OXIDE STAINED, STEEP TO VERTICAL FRACTURES EXTEND THROUGH ENTIRE RUN CONTAINS GRAPHITE AND TRACE PYRITE RQD = 84% GOOD
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T48**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 12.7' ON 11/22/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	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  VERTICAL FRACTURES EXTEND THROUGH ENTIRE RUN  RQD = 72% FAIR  IRON OXIDE STAINING ON VERTICAL FRACTURE SURFACES  RQD = 94% EXCELLENT  RQD = 95% EXCELLENT
	R8	5.1'	5.1'	47.9'						
	R9	5.0'	5.0'	52.9'						
	R10	2.1'	2.1'	55.0'						
									55.0'	BOTTOM OF EXPLORATION AT 55.0'

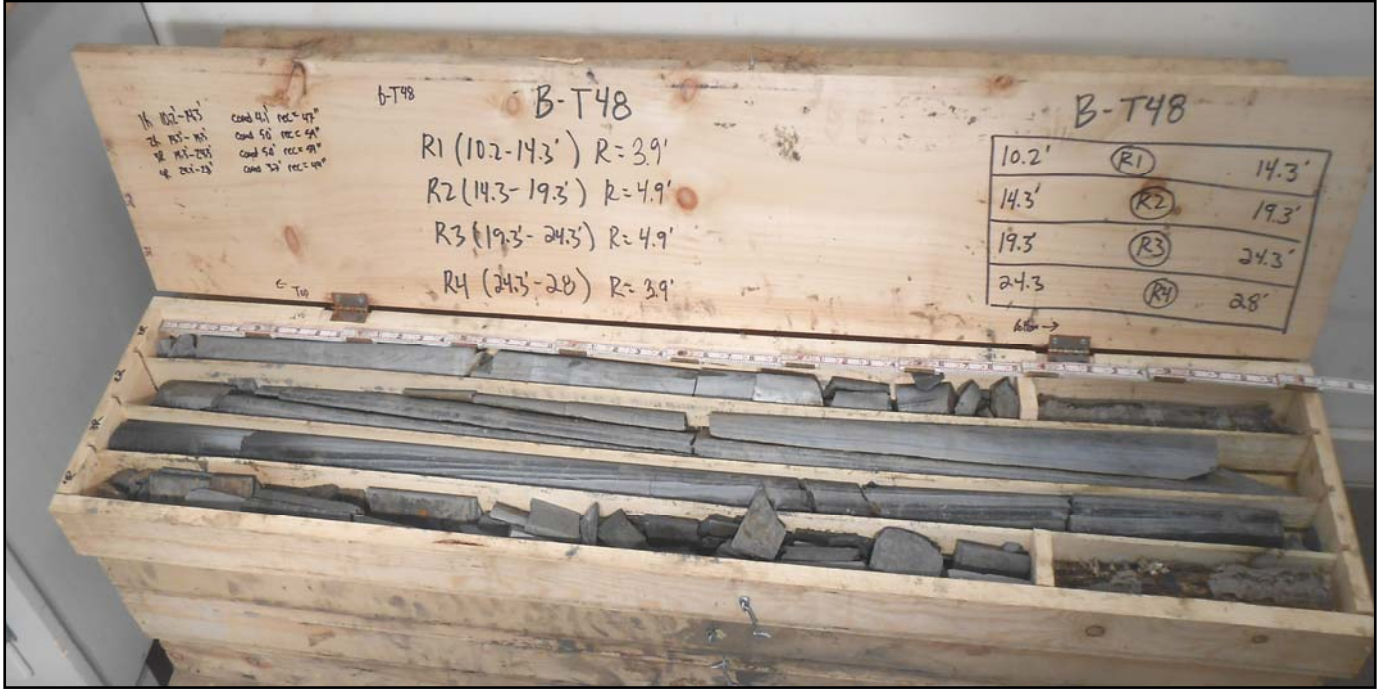
SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: 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')**





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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT GROUND SURFACE ON 11/25/13  
 WATER AT GROUND SURFACE ON 11/26/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW									0.5'	FOREST DUFF / BROWN SANDY SILT
										ADVANCE BY SOLID 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 HIGH ANGLE TO VERTICAL FRACTURES AT 70-90 DEGREES
	R2	5.0'	5.0'	11.5'						RQD = 56% FAIR
										FRACTURE SURFACES IRON OXIDE STAINED
	R3	4.7'	4.6'	16.2'						RQD = 70% FAIR
										PHYLLITIC
	R4	4.6'	4.9'	20.8'						RQD = 56% FAIR
										FRACTURES ANGLES AT 5, 70-90 DEGREES
	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 AT 70-85 DEGREES
	R7	5.1'	5.1'	34.5'						RQD = 79% GOOD
	R8	5.0'	5.0'	39.5'					40.0'	RQD = 96% EXCELLENT

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T49**



# BORING LOG

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

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

**WATER LEVEL INFORMATION**  
 WATER AT GROUND SURFACE ON 11/25/13  
 WATER AT GROUND SURFACE ON 11/26/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R9	3.3'	3.0'	42.8'						RQD = 70% FAIR GRAY INTERBEDDED PELITIC SCHIST AND METASILTSTONE MODERATELY HARD TO HARD, VERY SLIGHTLY WEATHERED  RQD = 95% EXCELLENT CONTAINS THIN QUARTZ VEINS FRACTURES AT 5, 45, 70 AND 90 DEGREES  RQD = 94% EXCELLENT  RQD = 81% GOOD
	R10	4.8'	5.1'	47.6'						
	R11	5.1'	5.1'	52.7'						
	R12	3.1'	3.1'	55.8'						
									55.8'	BOTTOM OF EXPLORATION AT 55.8'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T49**

**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')**







# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW									1.0'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~VERY LOOSE~
	1D	24"	7"	2.0'	1	W O H	1	1		~VERY LOOSE~  BROWN SILT AND SAND, SOME GRAVEL WITH COBBLES (GLACIAL TILL)
										~MEDIUM DENSE~
	2D	24"	12"	7.0'	9	9	15	15		
										~DENSE~
	3D	24"	23"	12.0'	20	17	21	37		
	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'						RQD = 54% FAIR HIGHLY FRACTURED AND IRON OXIDE STAINED
	R2	3.9'	3.9'	23.1'						RQD = 0% VERY POOR SHALLOW FRACTURES AT 5-20 DEGREES
	R3	3.6'	3.6'	26.7'						RQD = 69% FAIR  SHALLOW FRACTURES AT 5-20 DEGREES FRACTURE SURFACES IRON OXIDE STAINED
	R4	5.0'	5.0'	31.7'						RQD = 80% GOOD SHALLOW TO VERTICAL FRACTURE ANGLES HIGHLY FRACTURED, SEVERE TO MODERATELY WEATHERED, SOFT AND IRON OXIDE STAINED FROM 33.7' TO 37.5'±
	R5	3.8'	3.0'	35.5'						RQD = 37% POOR MODERATELY HARD, FRACTURE SURFACES IRON OXIDE STAINED
									40.0'	

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST

WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T50**



# BORING LOG

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

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

**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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	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 RQD = 64% FAIR THIN QUARTZ VEINS PITTED MODERATELY HARD SHALLOW TO STEEP FRACTURE ANGLES IRON OXIDE STAINED RQD = 58% FAIR RQD = 70% FAIR
	R7	4.9'	5.2'	45.3'						
	R8	5.0'	4.7'	50.3'						
	R9	4.7'	4.6'	55.0'					55.0'	
										BOTTOM OF EXPLORATION AT 55.0'

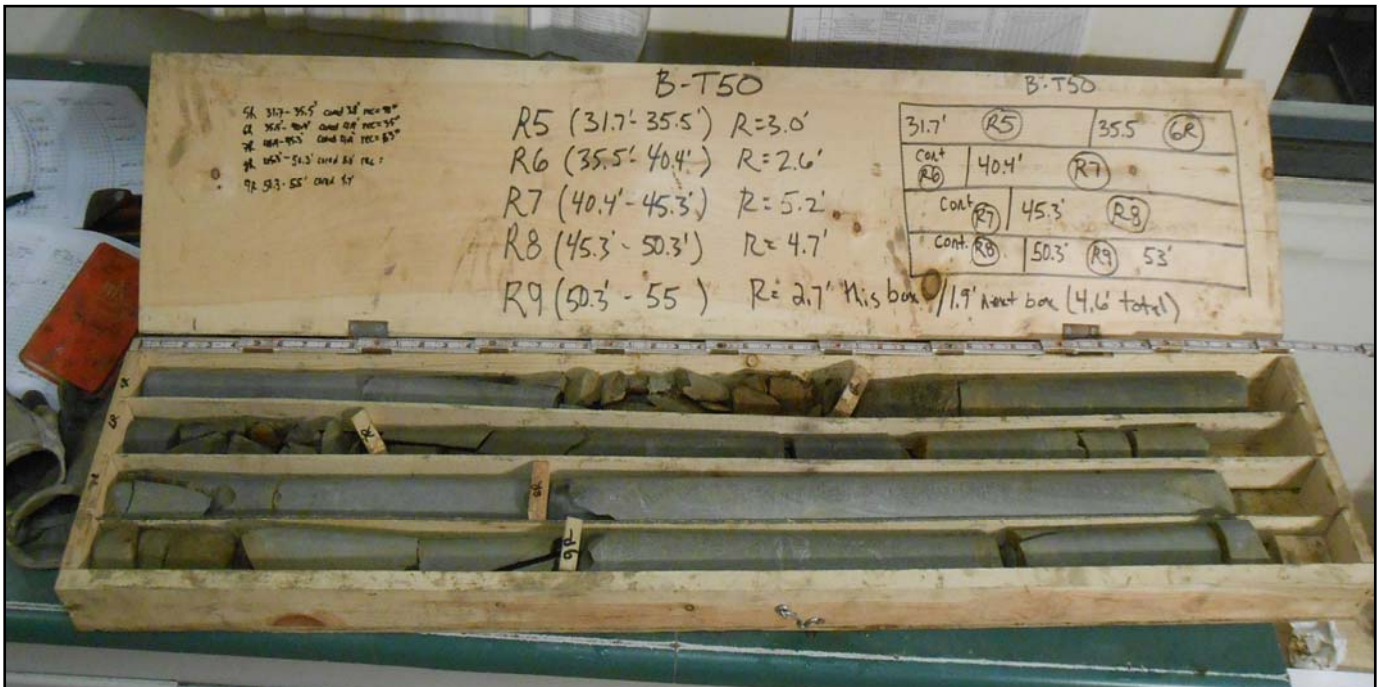
SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 10.0' ON 12/3/13  
 WATER AT 19.5' ON 12/4/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
									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~ BROWN GRAVELLY SANDY SILT WITH COBBLES (GLACIAL TILL)
	3D	24"	24"	10.0'	8	15	16	16		
	4D	24"	24"	12.0'	8	16	22	25		~DENSE~
	5D	22"	18"	16.8'	49	47	50	50/4"		~VERY DENSE~
	6D	14"	6"	21.2'	38	61	50/2"			
	7D	24"	8"	27.0'	16	22	26	40		
									30.0	
	8D	4"	4"	31.3'	100/4"					SAPROLITIC BEDROCK, HIGHLY DECOMPOSED AND INFILLED WITH GLACIAL TILL
									34.0'	
	R1	1.5'	1.0'	35.5'						GRAY PELITIC SCHIST 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 SOIL INFILLED FRACTURES FROM 35.5' - 40.0'
									40.0'	

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T53**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 10.0' ON 12/3/13  
 WATER AT 19.5' ON 12/4/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R3	3.4'	3.2'	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  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  RQD = 70% FAIR
	R4	3.7'	3.7'	45.4'						
	R5	3.0'	3.0'	48.4'						
	R6	5.0'	5.0'	53.4'						
	R7	2.6'	2.5'	56.0'					56.0	
										BOTTOM OF EXPLORATION AT 56.0'

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

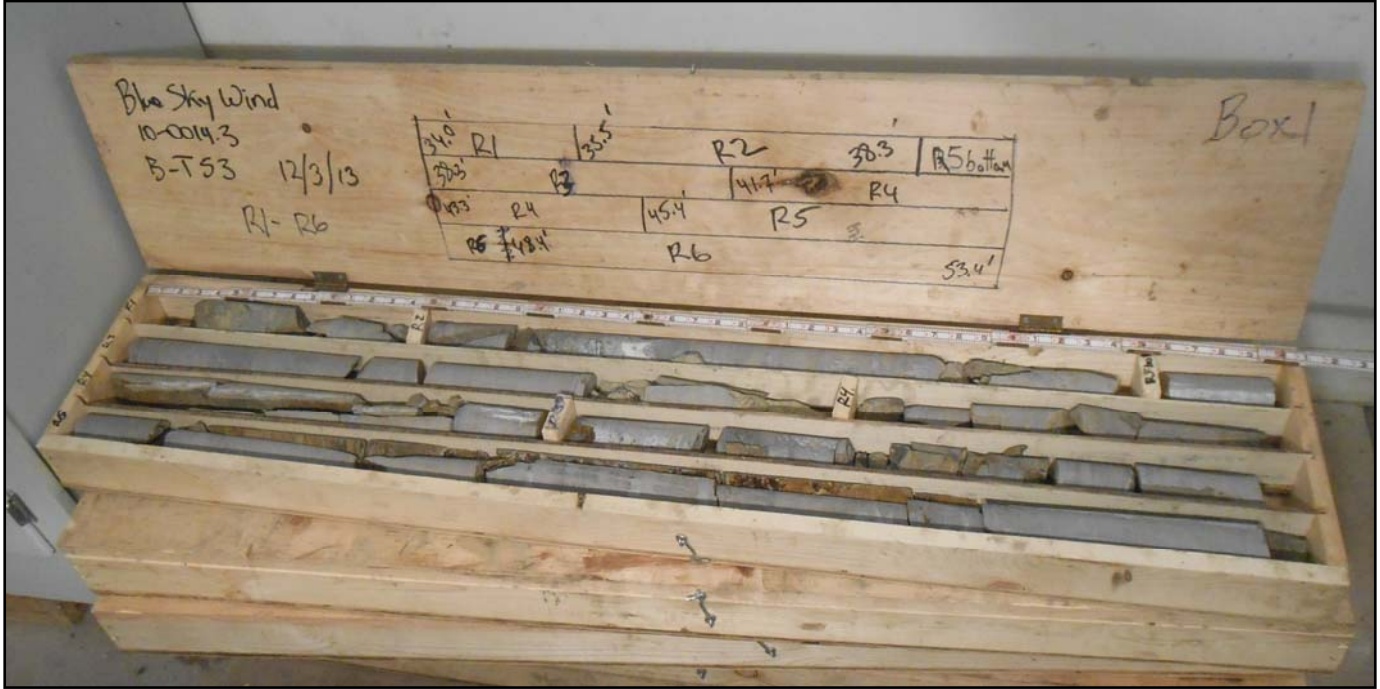
REMARKS: WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

3

BORING NO.: **B-T53**



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



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





# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: MAINE TEST BORINGS 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"

**WATER LEVEL INFORMATION**  
 WATER AT 5.6' ON 11/27/13  
 WATER AT 2.7' ON 12/3/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
									0.5'	FOREST DUFF
	1D	24"	10"	2.0'	1	1	2	5		BROWN SILT AND SAND, SOME GRAVEL ~ VERY LOOSE ~
									4.8'	
	R1	4.3'	4.0'	9.4'						1/2" INFILLED FRACTURE AT 8.4' 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 SECONDARY FRACTURES AT 5-15 DEGREES
	R2	5.0'	5.0'	14.4'						RQD = 66% FAIR IRON OXIDE STAINING ON FRACTURE SURFACES
	R3	3.2'	3.1'	17.6'						RQD = 75% FAIR / GOOD
	R4	2.9'	2.9'	20.5'						RQD = 72% FAIR
	R5	2.8'	2.3'	23.3'						RQD = 66% FAIR
	R6	4.3'	4.3'	27.6'						MODERATELY HARD RQD = 84% GOOD FRACTURES AT 5-10, 45 AND 70 DEGREES
	R7	3.4'	3.4'	31.0'						IRON OXIDE STAINING ON FRACTURE SURFACES RQD = 48% POOR FOLIATION AT 60-70 DEGREES
	R8	5.0'	5.0'	36.0'						RQD = 70% FAIR WIDELY SPACED FRACTURES
									40.0'	

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T54**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 5.6' ON 11/27/13  
 WATER AT 2.7' ON 12/3/13

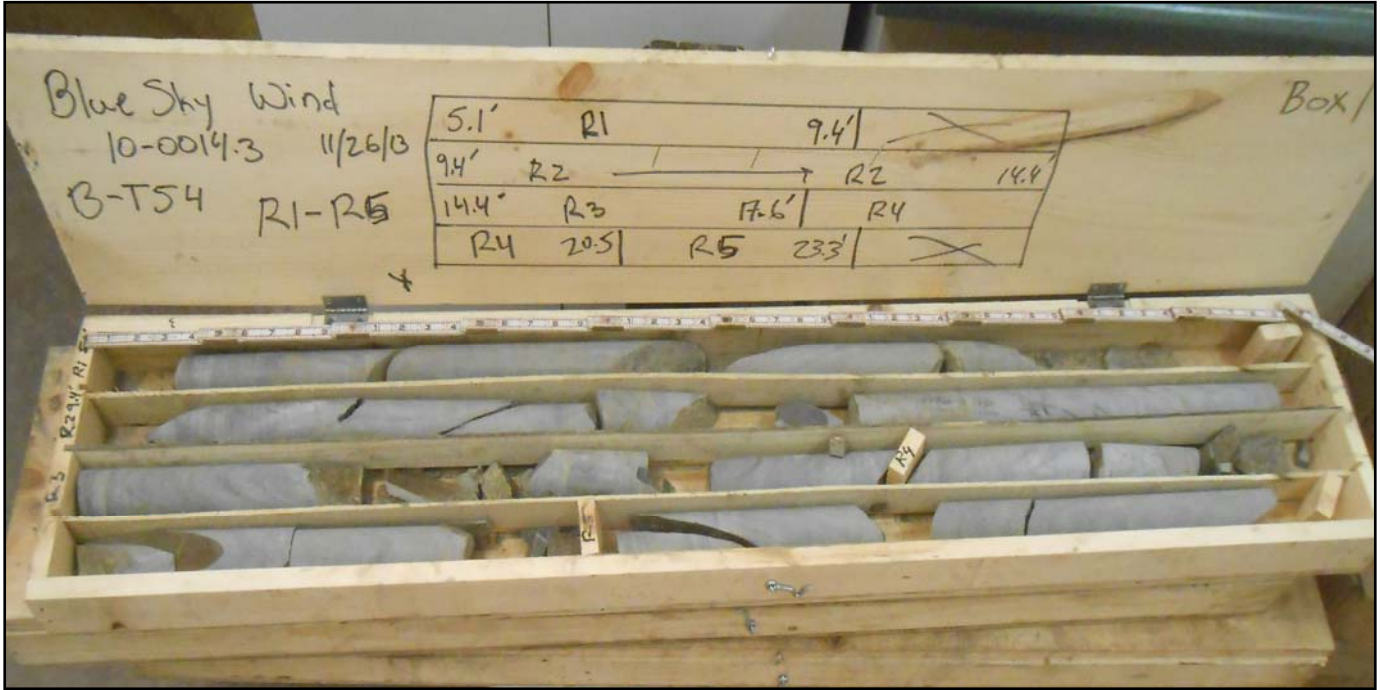
CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R9	5.0'	5.0'	41.0'						RQD = 95% EXCELLENT GRAY PELITIC SCHIST STEEP FOLIATION AT 60-80 DEGREES MODERATELY HARD, PRIMARY FRACTURES AT 60-70 DEGREES ALONG FOLIATION PLANES SECONDARY FRACTURES AT 5-15 DEGREES RQD = 96% EXCELLENT WIDELY SPACED FRACTURES RQD = 100% EXCELLENT
	R10	5.2'	5.0'	46.2'						
	R11	5.0'	5.0'	51.2'						
	R12	4.6'	4.6'	55.8'						
									55.8	RQD = 98% EXCELLENT
										BOTTOM OF EXPLORATION AT 55.8'

SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T54**

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



**B-T54, R6 TO R9 (23.3'-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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 2.5' ON 11/18/2013  
 WATER AT 1.6' ON 11/20/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW										FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~LOOSE~
	1D	24"	19"	2.0'	1	W O H	1	1	2.0'	
	2D	24"	15"	7.0'	16	13	9	11		BROWN GRAVELLY SAND AND SILT WITH COBBLES (GLACIAL TILL) ~MEDIUM DENSE~
	3D	24"	13"	12.0'	12	31	21	36		~VERY DENSE~ w=12.7%
	4D	16"	8"	16.3'	53	50/2"			20.0'	w=10.5%
	5D	8"	6"	20.7'						
	6D	16"	8"	26.3'	54	67	50/4"			~VERY DENSE~ w=10.7%
	7D	14"	9"	34.2'	51	72	50/3"			
	R1	3.6'	0.8'	39.9'					40.0'	ADVANCED BY CORE BARREL THROUGH COBBLES, BOULDERS AND GLACIAL TILL

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  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-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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

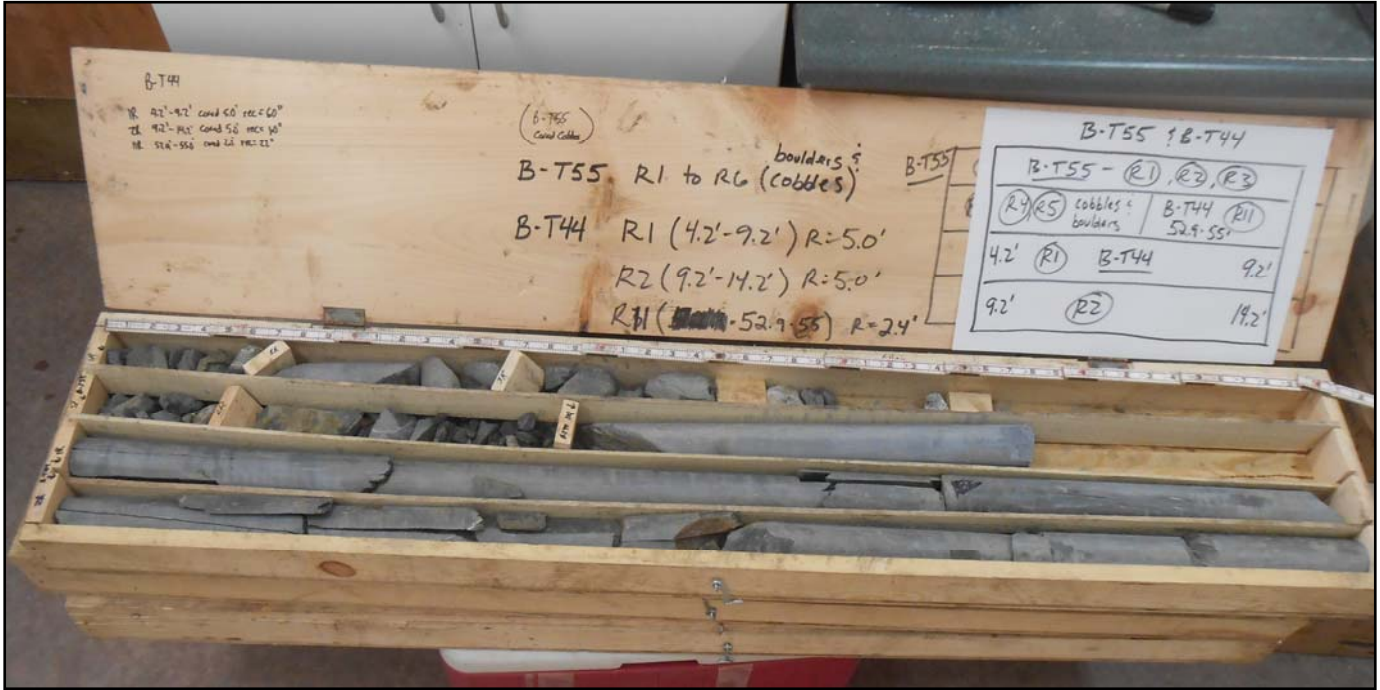
**WATER LEVEL INFORMATION**  
 WATER AT 2.5' ON 11/18/2013  
 WATER AT 1.6' ON 11/20/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R2	3.1'	1.3'	43.0'					55.0'	GRAY GRAVELLY SANDY SILT WITH FREQUENT COBBLES AND BOULDERS (GLACIAL TILL)  ADVANCED BY CORE BARREL THROUGH COBBLES, BOULDERS AND GLACIAL TILL
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T55**

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





# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

### WATER LEVEL INFORMATION

WATER AT 1.3' ON 11/15/2013  
 WATER AT 0.3' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW										
▼	1D	17"	8"	1.4'	1	3	50/5"		1.4'	FOREST DUFF / DARK BROWN SILT WITH ORGANICS AND ROOTLETS ~LOOSE~ ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 2.0'
	R1	3.3'	3.0'	5.3'						INTERBEDDED GRAY SCHIST AND METASANDSTONE RQD = 69% FAIR MODERATELY HARD, EXTERIOR OF CORE PITTED RQD = 27% POOR CONTAINS QUARTZ AND CALCITE VEINS SHALLOW TO MODERATE FRACTURE ANGLES AT 0-45 DEGREES. QUARTZ VEINS UP TO 1/4" THICK RQD = 61% FAIR
	R2	1.3'	1.2'	6.6'						
	R3	4.4'	4.3'	11.0'						SLIGHTLY WEATHERED SHALLOW TO STEEP FRACTURE ANGLES BETWEEN 0 AND 70 DEGREES RQD = 63% FAIR 1/4" THICK CALCITE VEINS RQD = 55% FAIR VERY SLIGHTLY WEATHERED
	R4	5.0'	4.6'	16.0'						
	R5	4.6'	4.4'	20.6'						GRANITE PEGMATITE ZONE RQD = 82% GOOD FROM 24.3' TO 26.7'
	R6	5.1'	5.1'	25.7'						FRACTURES PARALLEL AND CROSS-CUT FOLIATION AT 5, 80-90 DEGREES RQD = 61% FAIR
	R7	5.1'	5.0'	30.8'						SHALLOW TO STEEP FRACTURE ANGLES AT 10, 40, 70 AND 80 DEGREES RQD = 73% FAIR
	R8	5.0'	5.0'	35.8'						FRESH TO VERY SLIGHTLY WEATHERED WIDELY SPACED FRACTURES
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T57**



# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 1.3' ON 11/15/2013  
 WATER AT 0.3' ON 11/21/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ 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
										MODERATELY HARD TO HARD 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'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

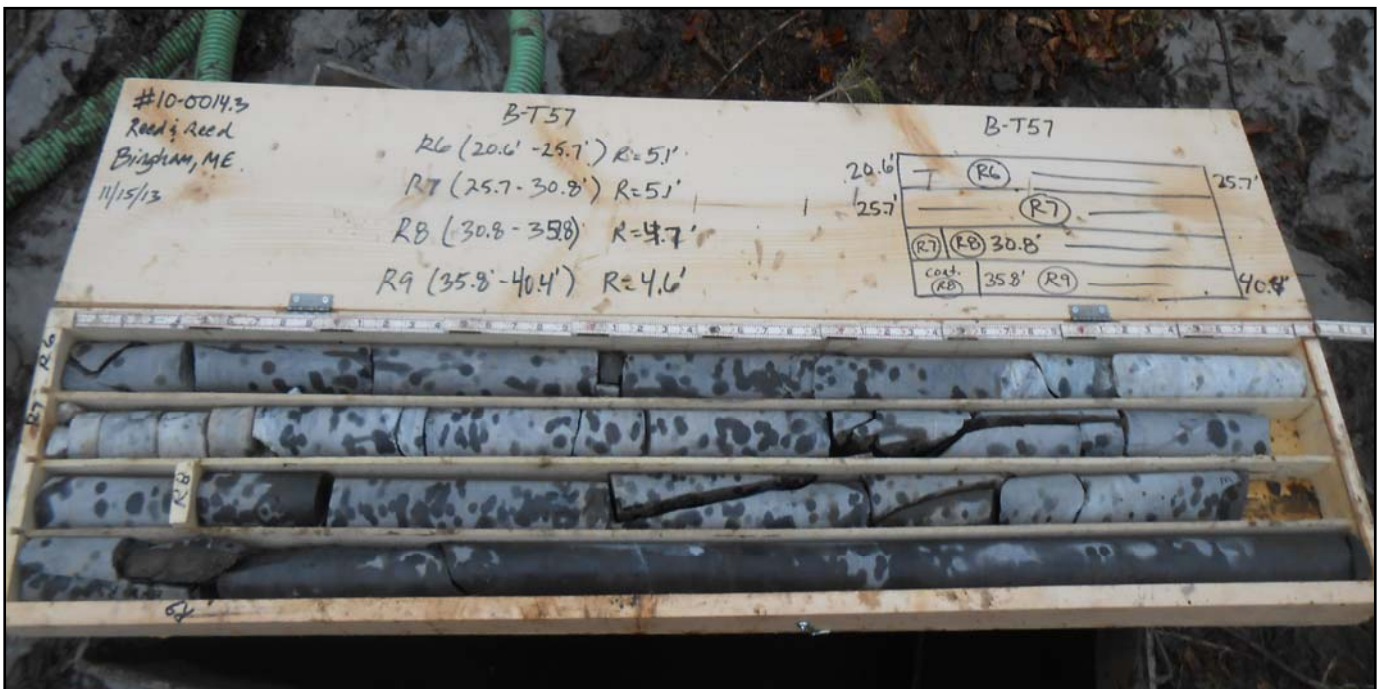
BORING NO.: **B-T57**



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



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



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





# BORING LOG

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'

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW									1.5'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~VERY LOOSE~ ~LOOSE~ BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~VERY DENSE~
	1D	24"	12"	2.0'	1	2	2	2		
	2D	10"	9"	5.8'	72	50/4"			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
	R3	5.0'	4.8'	22.1'						RQD = 94% EXCELLENT SHALLOW ANGLE FRACTURES AT 5-15 DEGREES FRACTURE SURFACES IRON OXIDE STAINED
	R4	4.9'	5.2'	27.0'						RQD = 86% GOOD
	R5	5.0'	5.0'	32.0'						RQD = 100% EXCELLENT WIDELY SPACED SHALLOW ANGLE FRACTURES AT 5, 10 AND 20 DEGREES
	R6	5.0'	5.0'	37.0'						RQD = 94% EXCELLENT
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T58**



# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 SOILS WET AT 2.0'

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	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  RQD = 76% GOOD  CONTAINS MICA AND THIN CALCITE AND QUARTZ VEINS  RQD = 80% GOOD  RQD = 98% EXCELLENT
	R8	4.5'	5.1'	46.5'						
	R9	5.0'	5.0'	51.5'						
	R10	3.5'	3.5'	55.0'						
										BOTTOM OF EXPLORATION AT 55.0'

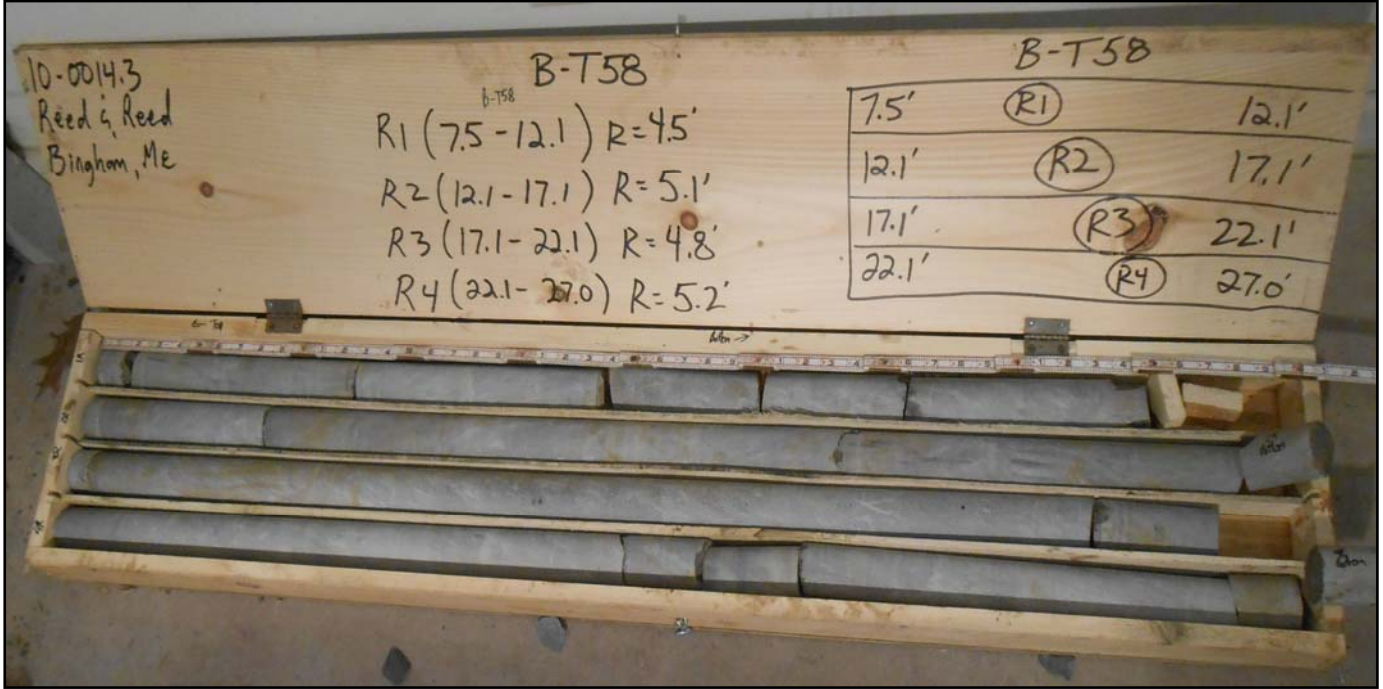
SAMPLES: SOIL CLASSIFIED BY: DRILLER - VISUALLY  
 D = SPLIT SPOON  SOIL TECH. - VISUALLY  
 C = 3" SHELBY TUBE  LABORATORY TEST  
 U = 3.5" SHELBY TUBE

REMARKS: 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, R5 TO R8 (27.0'-46.5')**





**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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW									1.0'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS
↓									2.8'	BROWN SILTY SAND, SOME GRAVEL (GLACIAL TILL) ~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 RQD = 27% POOR STEEP ANGLE TO VERTICAL FRACTURES, IRON OXIDE STAINED
	R1	3.0'	3.0'	7.6'						RQD = 82% GOOD
	R2	3.0'	2.6'	10.6'						STEEP ANGLE FOLIATION
	R3	4.3'	4.3'	14.9'						RQD = 70% FAIR 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'						RQD = 69% FAIR
	R7	4.8'	4.6'	34.4'						RQD = 80% GOOD
	R8	4.0'	4.0'	38.4'						RQD = 92% EXCELLENT
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-T73**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**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

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R9	4.9'	5.0'	43.3'						GRAY PELITIC SCHIST WITH ZONES OF PHYLITTE  RQD = 100% EXCELLENT  MODERATELY HARD VERY SLIGHTLY WEATHERED SLIGHT IRON OXIDE STAINING  RQD = 93% EXCELLENT  CONTAINS THINS QUARTZ VEINS  RQD = 72% FAIR  RQD = 80% GOOD
	R10	5.0'	5.0'	48.3'						
	R11	3.9'	2.9'	52.2'						
	R12	3.0'	3.0'	55.2'						
									55.2'	BOTTOM OF EXPLORATION AT 55.2'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING.  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES 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')**







# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT

CLIENT: REED & REED, INC.

LOCATION: BINGHAM, MAINE

DRILLING FIRM: MAINE TEST BORINGS DRILLER: BRAD ENOS

CASING:	NW	3"	140 LBS.	30"
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SAMPLER:	SS	1 3/8"	140 LBS.	30"
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CORE BARREL:	NQ	2"		
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**WATER LEVEL INFORMATION**

WATER AT 18.5' ON 10/31/2013

WATER AT 21.7' ON 11/5/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
									2.0'	FOREST DUFF / BROWN SANDY SILT
	1D	24"	14"	4.0'	10	12	15	28	4.0'	BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL) -MEDIUM DENSE-
										ADVANCED BY SOLID STEM AUGER THROUGH BEDROCK TO 4.8'
	R1	2.4'	2.3'	7.2'						INTERBEDDED GRAY PELITIC SCHIST AND METASANDSTONE 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'						RQD = 84% GOOD SHALLOW TO STEEP FRACTURE ANGLES
	R4	1.5'	1.5'	11.8'						RQD = 33% POOR AT 15-80 DEGREES
	R5	3.2'	3.2'	15.0'						SOFT TO MEDIUM HARD
	R6	1.0'	0.7'	16.0'						RQD = 0% VERY POOR HIGHLY FRACTURED
	R7	1.0'	0.5'	17.0'						RQD = 0% VERY POOR HIGHLY WEATHERED
	R8	1.5'	1.3'	18.5'						RQD = 0% VERY POOR IRON OXIDE STAINED
	R9	2.7'	2.6'	21.2'						RQD = 45% VERY POOR
	R10	2.6'	2.7'	23.8'						HIGHLY FRACTURED
	R11	2.9'	2.9'	26.7'						RQD = 0% VERY POOR
	R12	3.8'	3.8'	30.5'						RQD = 35% POOR
	R13	5.0'	5.0'	35.5'						RQD = 90% GOOD / EXCELLENT
	R14	3.8'	3.6'	39.3'						RQD = 47% POOR
									40.0'	RQD = 47% POOR

SAMPLES: SOIL CLASSIFIED BY:

D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

	DRILLER - VISUALLY
X	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-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')**





# 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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

### WATER LEVEL INFORMATION

WATER AT 11.1' ON 11/1/2013  
 WATER AT 8.3' ON 11/5/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
NW										FOREST DUFF / RUST BROWN SILT AND SAND WITH ROCK FRAGMENTS -LOOSE-
	1D	24"	21"	2.0'	1	2	3	6	2.0'	
										BROWN SAND AND SILT, SOME GRAVEL (GLACIAL TILL) -MEDIUM DENSE-
	2D	24"	20"	6.0'	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 STEEP ANGLE FRACTURES AT 70-85 DEGREES
	R2	2.0'	2.0'	13.4'						RQD = 0% VERY POOR HIGHLY FRACTURED IRON OXIDE STAINED
	R3	2.2'	2.2'	15.6'						RQD = 0% VERY POOR
	R4	2.7'	2.5'	18.3'						RQD = 68% FAIR
	R5	2.7'	2.7'	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'						RQD = 24% VERY POOR
	R9	4.6'	3.0'	35.3'						RQD = 0% VERY POOR HIGHLY FRACTURED
	R10	3.7'	3.7'	39.0'						RQD = 11% VERY POOR
									40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE  
 DRILLER - VISUALLY  
 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-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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 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"

**WATER LEVEL INFORMATION**  
 WATER AT 11.1' ON 10/31/2013  
 WATER AT 8.3' ON 11/5/2013

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R11	2.2'	1.1'	41.2'						RQD = 0% VERY POOR  INTERBEDDED PELITIC SCHIST AND METASANDSTONE  RQD = 92% EXCELLENT  VERY SLIGHTLY WEATHERED MODERATELY HARD TO HARD  RQD = 82% GOOD  RQD = 94% EXCELLENT RQD = 90% GOOD / EXCELLENT
	R12	4.5'	4.1'	46.7'						
	R13	4.3'	4.2'	50.0'						
	R14	3.3'	3.7'	53.3'						
	R15	1.7'	1.5'	55.0'						
										BOTTOM OF EXPLORATION AT 55.0'

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST  
 WATER INTRODUCED DURING DRILLING.  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T75**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**  
 WATER AT 2.9' IN OPEN BOREHOLE  
 WHILE DRILLING

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA	
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24			
NW									1.2'	FOREST DUFF / BROWN SANDY SILT WITH ORGANICS ~LOOSE~	
	1D	24"	13"	2.0'	W O H	1	2	7		BROWN SAND AND SILT, SOME GRAVEL WITH COBBLES (GLACIAL TILL)  ~DENSE~	
	2D	24"	14"	7.0'		12	16	14	14		
	3D	24"	16"	12.0'		19	21	34	50	13.0'	~VERY DENSE~
	4D	22"	15"	15.8'		19	24	56	50/4"		GRAY GRAVELLY SILT AND SAND WITH COBBLES AND BOULDERS (GLACIAL TILL) ~VERY DENSE~ 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... HIGHLY FRACTURED, IRON OXIDE STAINS ON FRACTURES RQD = 0% VERY POOR HIGH ANGLE TO VERTICAL FRACTURES: 80-90 DEGREES RQD = 0% VERY POOR  HIGH ANGLE FRACTURES: 65-85 DEGREES RQD = 13% VERY POOR RQD = 0% VERY POOR ...MODERATELY WEATHERED AND MODERATELY HARD RQD = 45% POOR  RQD = 55% FAIR HIGH ANGLE FRACTURES: 70-80 DEGREES RQD = 0% VERY POOR
	R1	4.0'	2.0'	28.0'							
	R2	2.0'	1.4'	30.0'							
	R3	2.5'	2.5'	32.5'							
	R4	1.4'	1.4'	33.9'							
	R5	1.7'	1.1'	35.6'							
	R6	1.7'	1.7'	37.3'							
	R7	2.0'	1.6'	39.3'						40.0'	

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  
 C = 3" SHELBY TUBE  
 U = 3.5" SHELBY TUBE

DRILLER - VISUALLY  
 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-T76**

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



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





# BORING LOG

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**

PROJECT: **BLUE SKY WEST WIND POWER PROJECT**  
 CLIENT: **REED & REED, INC.**  
 LOCATION: **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"**  
 SAMPLER: **SS 1 3/8" 140 LBS. 30"**  
 CORE BARREL: **NQ 2"**

**WATER LEVEL INFORMATION**

**WATER AT 2.9' IN OPEN BOREHOLE**  
**WHILE DRILLING**

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	R8	2.8'	1.4'	42.1'						<p>GRAY INTERBEDDED PELITIC SCHIST AND METASANDSTONE SEVERELY WEATHERED, SOFT TO MEDIUM HARD BECOMING....            RQD = 0% VERY POOR</p> <p>MODERATELY DIPPING TO HIGH ANGLE FRACTURES: 45, 65-75 DEGREES</p> <p>IRON OXIDE STAINS ON FRACTURES            RQD = 7% VERY POOR            SEVERELY WEATHERED, VERY SOFT AND HIGHLY FRACTURED: 48.8-50 FT.            RQD = 0% VERY POOR</p> <p>HIGHLY FRACTURED            LOW ANGLE AND HIGH ANGLE TO VERTICAL FRACTURES: 30, 60-90 DEGREES            RQD = 0% VERY POOR            ...MODERATELY WEATHERED AND MODERATELY HARD TO HARD</p> <p>RQD = 41% POOR</p> <p>BOTTOM OF EXPLORATION AT 55.2'</p>
	R9	5.0'	5.0'	47.1'						
	R10	2.9'	2.9'	50.0'						
	R11	2.3'	2.3'	52.3'						
	R12	2.9'	2.9'	55.2'					55.2'	

SAMPLES: SOIL CLASSIFIED BY: REMARKS:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  LABORATORY TEST

WATER INTRODUCED DURING DRILLING.  
 STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: **B-T76**



# BORING LOG

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

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: 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"  
 SAMPLER: SS 1 3/8" 140 LBS. 30"  
 CORE BARREL: NQ 2"

**WATER LEVEL INFORMATION**

WATER AT 8.0' DURING DRILLING  
 WATER AT 0.5' ON 12/6/13  
 WATER AT 0.8' ON 12/9/13

CASING BLOWS PER FOOT	SAMPLE				SAMPLER BLOWS PER 6"				DEPTH	STRATA & TEST DATA
	NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24		
	1D	24"	14"	2.0'	1	1	6	7	2.0'	FOREST DUFF / BROWN SANDY SILT WITH ROOTLETS ~LOOSE~
	2D	24"	21"	7.0'	5	6	7	7	10.0'	BROWN SANDY SILT, SOME GRAVEL (GLACIAL TILL) ~MEDIUM DENSE~
	3D	24"	20"	12.0'	15	28	41	50		~ VERY DENSE ~
	4D	8"	8"	15.7'	35	50/2"				GRAY SILT AND SAND, SOME GRAVEL WITH COBBLES (GLACIAL TILL) ~ VERY DENSE ~
	5D	15"	13"	21.3'	27	31	50/3"			
	6D	9"	9"	25.8'	57	50/3"				
	7D	5"	5"	30.4'	75/5"				30.5'	
									35.0'	WEATHERED BEDROCK INFILLED WITH GLACIAL TILL
	R1	2.4'	2.4'	35.6'						RQD = 0% VERY POOR GRAY PHYLLITIC METASILTSTONE FOLIATION AT 80-85°, WITH PRIMARY FRACTURES ALONG FOLIATION PLANES
	R2	2.0'	2.0'	37.6'						RQD = 35% POOR SECONDARY FRACTURES AT 40-50 DEGREES SOFT TO MODERATELY HARD
	R3	1.9'	1.9'	39.5'					40.0'	RQD = 40% POOR IRON OXIDE STAINING 33.2 - 38.0'

SAMPLES: SOIL CLASSIFIED BY:  
 D = SPLIT SPOON  DRILLER - VISUALLY  
 C = 3" SHELBY TUBE  SOIL TECH. - VISUALLY  
 U = 3.5" SHELBY TUBE  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-T77**





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



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









## PROBE DATA

PROJECT: BLUE SKY WEST WIND POWER PROJECT  
 CLIENT: REED & REED, INC.  
 LOCATION: BINGHAM, MAINE  
 DRILLING CO. : MAINE TEST BORING, INC. & NORTHERN TEST BORING, INC.

Probe Number	Depth of Exploration (feet)	Probe Number	Depth of Exploration (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