Redington Mountain Wind Farm

Soils Maintenance Building Site

Prepared by: Albert Frick

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1.0 On-Site Subsurface Wastewater Disposal

The Redington Windfarm wind turbines and electrical transmission system produce no wastewater. The proposed Maintenance Facility design includes a standard light-commercial septic system, to process wastewater from the building. The proposed subsurface wastewater disposal system (HHE-200 form) is included in Appendix 17-1.

During the construction phase, Endless Energy Corporation (or their contractors) will supply temporary chemical toilets at convenient locations around the project site.

1.1 Site Plan

The sewage disposal system will be sited on the Maintenance Facility Lot in a location with adequate soil drainage, a minimum of 100' from the water supply well. The proposed Site Plan is shown on the Maintenance Facility Layout map, included in section 1 of this application. An assessment of the soil drainage has been done by Albert Frick Associates, included in Appendix A. The report and septic design shows that the proposed subsurface wastewater disposal system complies with the State of Maine Subsurface Wastewater Disposal Rules, and the soils for the proposed Maintenance Facility are suitable for development. The proposed septic design meets the LURC standards of Section 10.25 I.

1.2 Nitrate-Nitrogen Impact Assessment - Exempt

The sewage disposal system will be a conventional system disposing of less than 300 gallons per day of domestic wastewater (as defined in Maine Subsurface Wastewater Disposal Rules, 10-144A CMR 241). It will thus not require a Nitrate-Nitrogen impact assessment.

1.3 Soils Analysis of Maintenance Facility Lot

The proposed Maintenance Facility site is comprised of *Telos* and *Monarda* soils.

The *Telos* soil is somewhat poorly drained textured soil derived from glacial till sediments, and found in the upland positions.

The *Monarda* soil is poorly drained, sandy loam to loam textured soils derived from glacial till sediments, and found in the poorly drained areas of the site.

Class B High Intensity Soils map is included in Appendix B, along with Soil Narrative Report.

2.0 Appendices

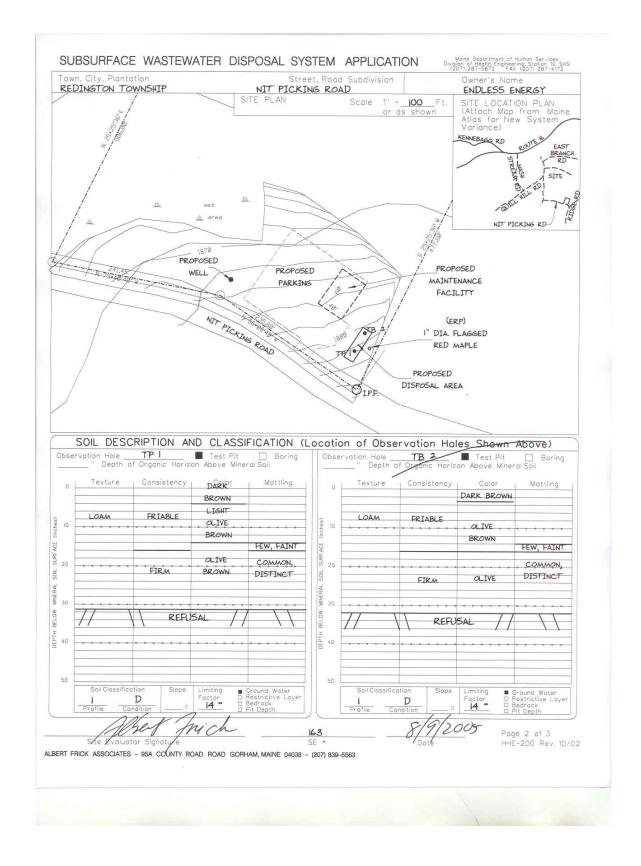
- A. Proposed Septic System Design (HHE-200), by Albert Frick, Licensed Site Evaluator
- B. Soils Analysis, by Albert Frick, Certified Soil Scientist

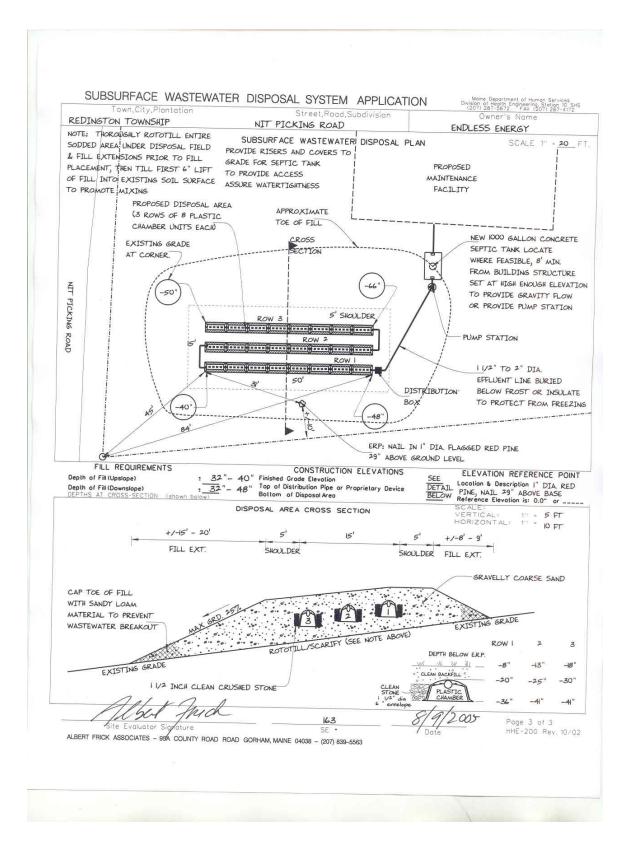
APPENDIX A

Proposed Septic System Design (HHE-200), by Albert Frick,

Licensed Site Evaluator

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ALBERT FRICK (207) 839-5563 AFA@MAINERR.COM	AL BER	T FRICK	(2	07) 839-5563	AFAQ	AINFRE	COM





REDINGTON TOWNSHIP NIT PICKING ROAD ENDLESS ENERGY TOWN LOCATION APPLICANT'S NAME 1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system Installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems. This application is intended to represent facts pertinent to the Rules only. It shall be the 2) responsibility of the owner/applicant, system Installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations. Prior to the commencement of construction/installation, the local plumbing inspector or Code Enforcement Officer shall inform the owner/applicant and Albert Frick Associates, Inc of any local ordinances which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Albert Frick Associates, Inc.'s liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations in effect at the time of preparation of this application. 3) All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based solely upon information provided by the owner/applicant and has been relied upon by Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties but not readily visible above grade should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.

4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter shall be connected in series to the proposed septic tank.

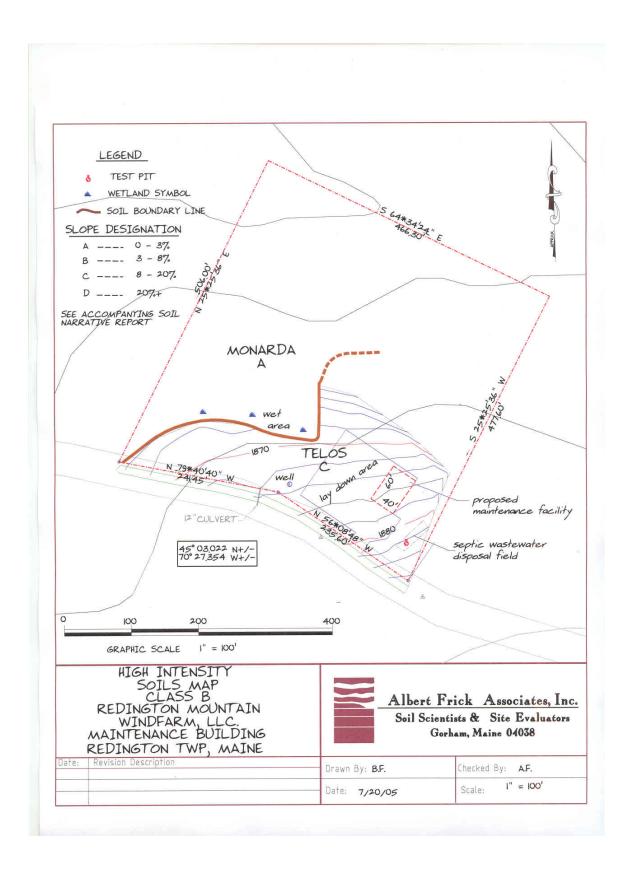
5) The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life.

6) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than every three years. All septic tank, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration.

REDINGTON TOWNSHIP	NIT PICKING ROAD	ENDLESS ENERGY
TOWN	LOCATION	APPLICANT'S NAME
indicated on this app supplied by public period should be div	water flow or number of bedrooms sh blication without a re-evaluation of the sy water or a private service with a water ided by the number of days to calculate th x 7.48 cu. ft. (gallons per cu. ft.) divided	vstem as proposed. If the system is meter, the water consumption per ne average daily water consumption
residence is 100-300 installed by an abutto	minimum setbacks between a well and se feet, unless the local municipality has a n er within the minimum setback distances l system may void this design.	more stringent requirement. A well
BEGINS, the system in this application an inverts for compatibil septic tank(s) outlet(the disposal area. W that surface ground v seams and connection warning of a pump fa system, install a "T"	ity system is proposed: BEFORE CONST installer or building contractor shall revie d the elevation of the existing and/or prop lity to minimum slope requirement. In gr s) shall be at least 4 inches above the inve hen an effluent pump is required, provisio vater does not enter the septic tank or pum ns, and by placement of a riser and lid at c illure shall be installed. Also, when pump connection in the distribution box and pla ther. Insulate gravity pipes, pump lines an	we the elevations of all points given bosed building drain and septic tank avity systems, the invert of the rt of the distribution box outlet at ons shall be made to make certain ap station, by sealing/grouting all or above grade. An alarm device boing is required of a chamber ice 3 inches of stone or a splash
under the disposal a be installed in natur with a rake. Do not installed in fill, scar the entire disposal a Place fill in loose la (this ensures that vo leakage or different until after 12 inches the surface water av	ms, remove the vegetation, organic dur- trea and any fill extension. On sites we al soil, scarify the bottom and sides of truse wheeled equipment on the scarifi- ify the native soil by roto-tilling to a d nd fill extension area to prevent glazin yers no deeper that 8 inches and comp bids and loose pockets are eliminated t ial setting). Do not use wheeled equip of fill is in place. Keep equipment of way from the disposal area by ditching d otherwise, fill shall be gravelly coars nd clay).	here the proposed system is to the excavated disposal area ed soil surface. For systems epth of at least 8 inches over ag and to promote fill bonding. act before placing more fill o minimize the chance of ment on the scarified soil area ff proprietary devices. Divert or shallow landscape swales.
soil smearing/glazin 13) Seed all fillec equivalent material to	ll systems on loamy, silty, or clayey so g may seal off the soil interface. I and disturbed surfaces with perennial gr prevent erosion. Alternatively, bark or r system, Woody trees or shrubs are n is.	ass seed, then mulch with hay or r permanent landscape mulch
		Albert Frick Associates, Inc. Soil Scientists & Site Evaluators 95A County Road Gorham, Maine 04038 (207) 839-5563

APPENDIX B

Soils Report for Maintenance Building Site



REDINGTON MOUNTAIN WINDFARM

Endless Energy LLC

Redington Ridge

SOIL NARRATIVE REPORT

DATE:	Soil profiles observed on June 13, 2005.

- **BASE MAP:** Contour map -foot intervals, scaled 1"=2', provided by Licensed Land Surveyor.
- **GROUND CONTROL:** Test pits located by tape measure.

THE SOIL MAPPING CONFORMS WITH A CLASS B SURVEY.

<u>Class B</u> - Soil Survey

- 1. Mapping units of 1 acre or greater.
- 2. Scale of 1" = 200' or larger.

3. Up to 35% inclusions in mapping units of which no more than 25% may be dissimilar soils.

- 4. Ground control test pits located from known, surveyed, control points.
- 5. Base map with 5' contour lines.

The accompanying soil profile descriptions, soil map and this soil narrative report were done in accordance with the standards adopted by the Maine Association of Professional Soil Scientists, and the Maine Board of Certification of Geologists and Soil Scientists.

_____ C.S.S. #66, S.E. #163 / /

Albert Frick

Date

MONARDA

(Aeric Fragiaquepts)

SETTING					
Parent Material:	Loamy glacial till.				
Landform:	Nearly level to sloping soils.				
Position in Landscape:		ccupies lower positions in the landscape, base of long opes, swales, and depressional areas.			
Slope Gradient Ranges:	(B) 3-8% (C) 8-20	%			
COMPOSI	TION AND SOIL	CHARACTERISTICS			
Drainage Class:	feet beneath the	h a perched groundwater table 0 to 1.5 soil surface from October through May Is of heavy precipitation.			
Typical Profile	Surface layer:	Black organic layer, 0-4"			
Description:	Subsurface layer:	Light brownish gray, gravelly silt loam, 4- 9"			
	Subsoil layer:	Gray, olive gray and olive, gravelly silt loam, 9-33"			
	Substratum:	Gray, gravelly silt loam, 33"+			
Hydrologic Group:	ydrologic Group: Group D				
Permeability:	Moderate to moderately slow in the solum, moderately slow to slow in the substratum.				
Depth to Bedrock:	Deep, greater than 60".				
Hazard to Flooding:	rd to Flooding: None				
INCLUSIONS					
(Within Mapping Unit)					
Similar: Brayton Telo	s Colonel Scantic				

Similar: Brayton, Telos, Colonel, Scantic

Contrasting: Peacham

USE AND MANAGEMENT

Maintenance facility utilizing on-site septic and on-site water supplies: The limiting factor for building site development is wetness due to the presence of a high perched water table 0 to 1.5 feet below the existing the soil surface for a significant portion of the year This soil is unsuitable for on-site subsurface wastewater disposal. Monarda soil may be classified as wetlands, based on the combined consideration of hydric conditions, hydrology, and vegetation.

TELOS

(Typic Haplorthods)

SETTING					
Parent Material:	Loamy dense bas	al till.			
Landform:	Lower side slopes in glaciated uplands.				
Position in Landscape:	Nearly level to steeply sloping soils on upland till ridges.				
Slope Gradient Ranges:	(B) 3-8% (C) 8-20%				
COMPOSI	TION AND SOIL	CHARACTERISTICS			
Drainage Class:	Somewhat poorly	drained.			
Typical Profile	Surface layer:	Pinkish gray silt loam, 0-4"			
Description	Subsurface layer:	Dark reddish to yellowish brown silt Ioam, 4-15"			
	Subsoil layer:	Light olive brown silt loam, 15-20"			
	Substratum:	Olive gravelly silt loam, 20-65"			
Hydrologic Group:	Group C				
Surface Run Off:	Slow				
Permeability: Moderate in the substratum.		olum, and slow or very slow in the			
Depth to Bedrock:	Very deep, greate	er than 65".			
Hazard to Flooding:	None				
INCLUSIONS					

(Within Mapping Unit)

Similar: Chesuncook, Colonel

Contrasting: Brayton, Monarda

USE AND MANAGEMENT

Maintenance facility utilizing on-site septic and on-site water supplies: The limiting factor for building site development is wetness, due to the presence of a groundwater table 1.0

to 1.5 feet beneath the soil surface for some portion of the year. Proper foundation drainage or other site modification is recommended for construction.