SIE43N: Tunbridge-Peru-Colonel complex, 15 to 25 percent slopes, rocky

The Tunbridge, rocky component makes up 29 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is low. This component is on hills, mountains. The parent material consists of loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Colonel, rocky component makes up 26 percent of the map unit. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. This component is on hills, mountains. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 10 to 20 inches.

The Dixfield, rocky component makes up 26 percent of the map unit. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. This component is on hills, mountains. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 20 to 36 inches.

Important farmland classification: NPSL	Land capability: 4 e	Vermont Agricultural Value Group: 8

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIf

This unit is marginally suited as a site for soil-based residential wastewater disposal systems, based on a review by the Natural Resources Conservation Service of criteria set forth in the Vermont 2007 Environmental Protection Rules. The depth to the seasonal high water table and the restricted depth to bedrock in some areas are the major limitations. On-site investigations can help avoid areas with limited depth to bedrock. Additional fill material may be needed in some areas in order to meet the separation distance requirement between the bottom of the leachfield and bedrock. A detailed, site-specific analysis with groundwater level monitoring and determination of induced groundwater mounding may be required to establish the suitability of this unit. Mound system construction and other site modifications are often necessary. On sloping sites, curtain drains can help lower the water table to an acceptable level.

PHYSICAL and CHEMICAL PROPERTIES

Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS Kw	Kf	T
Tunbridge, rocky	0-8	FSL	2-15	3.5 - 6.0	0.6-6	2.0-10	.28	.28	2
	8-25	FSL	1-12	3.5 - 6.0	0.6-6	1.0-10	.37	.37	
	25-35	UWB	---	---	0.01-20	---	---	---	
Colonel, rocky	0-6	FSL	1-15	3.5 - 6.5	0.6-2	2.0-12	.28	.28	2
	6-14	GR-FSL	1-15	3.5 - 6.5	0.6-2	1.0-10	.24	.37	
	14-65	GR-SL	1-15	4.5 - 6.5	0.06-0.6	0.0-0.3	.28	.43	
Peru, rocky	0-8	SL	1-15	3.5 - 6.5	0.6-2	2.0-10	.24	.24	3
	8-13	SL	1-15	3.5 - 6.5	0.6-2	1.0-9.0	.28	.28	
	13-27	SL	1-15	3.5 - 6.5	0.6-2	0.5-4.5	.37	.37	
	27-65	SL	1-15	4.5 - 6.5	0.06-0.6	0.0-0.3	.43	.43	

WATER FEATURES **SOIL FEATURES**

Soil name	Hydrologic group	Depth to seasonal high water table (Feet)	Flooding Frequency	Flooding Duration	Ponding Frequency	Ponding Duration	Hydric soil?	Depth to bedrock (range in inches)
Tunbridge, rocky	C	---	None		None		No	20-40
Colonel, rocky	D	0.5-1.5	None		None		No	---
Peru, rocky	C	1.5-2.5	None		None		No	---

LAND USE LIMITATIONS

Soil name	Land use	Rating	Reason **
Colonel, rocky	Dwellings with basements:	Very limited	Slope
Tunbridge, rocky	Dwellings with basements:	Very limited	Slope
Peru, rocky	Dwellings with basements:	Very limited	Slope

AGRICULTURAL YIELD DATA

Crop name	Yield / acre
Grass-legume hay	3 Tons
Grass-clover	4.8 AUM
Grass hay	3 Tons
Corn silage	15 Tons
Alfalfa hay	3.5 Tons
Pasture	10.5 AUM

Grass-legume hay	4 Tons
Corn silage	18 Tons
Pasture	5 AUM

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Colonel	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	Northern Hardwood Forest, Hemlock-Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Beech-Red Maple-Hemlock-Northern Hardwood Forest Variant, Hemlock Forest
Tunbridge	Harvest equip operability:	Moderately suited	Slope	
Peru	Harvest equip operability:	Moderately suited	Slope	
Colonel	Road suitability:	Poorly suited	Slope	
Tunbridge	Road suitability:	Poorly suited	Slope	
Peru	Road suitability:	Poorly suited	Slope	
Colonel	Erosion hazard (off-road):	Moderate	Slope/erodibility	
Tunbridge	Erosion hazard (off-road):	Moderate	Slope/erodibility	
Peru	Erosion hazard (off-road):	Moderate	Slope/erodibility	