205D: Tunbridge-Berkshire-Marlow association, hilly, rocky

The Tunbridge component makes up 45 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 ridges on glaciated uplands, hills on glaciated uplands, knolls on glaciated uplands. The parent material consists of coarse-loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Berkshire component makes up 25 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. This component is on ridges on glaciated uplands, knolls on glaciated uplands, hills on glaciated uplands. The parent material consists of coarse-loamy till. Depth to a root restrictive layer is greater than 60 inches.

The Marlow component makes up 15 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. This component is on hills on glaciated uplands, knolls on glaciated uplands, ridges on glaciated uplands. The parent material consists of coarse-loamy basal till. Depth to a root restrictive layer, densic material, is 14 to 35 inches.

Important farmland classification: NPSL	Land capability: 7 s	Vermont Agricultural Value Group: 11

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	0-4	GR-FSL	5-9	3.6 - 6.0	0.6-6	2.0-8.0	.10	.20	2
	4-35	STV-FSL	3-9	3.6 - 6.0	0.6-6	0.5-4.5	.15	.32	
	35-45	UWB	---	---	0.01-20	---	---	---	
Berkshire	0-5	GR-FSL	3-10	3.6 - 6.0	0.6-6	2.0-5.0	.15	.28	5
	5-32	GR-FSL	3-10	3.6 - 6.0	0.6-6	0.5-4.5	.17	.32	
	32-60	GR-FSL	1-10	3.6 - 6.0	0.6-6	0.0-1.0	.24	.43	
Marlow	0-4	FSL	3-10	3.6 - 6.0	0.6-2	2.0-6.0	.24	.24	3
	4-23	FSL	3-10	3.6 - 6.0	0.6-2	0.5-4.5	.37	.37	
	23-60	GR-FSL	3-10	3.6 - 6.0	0.06-0.6	0.0-1.0	.20	.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	C	---	None		None		No	20-40
Berkshire	B	---	None		None		No	---
Marlow	C	2.0-3.5	None		None		No	---

LAND USE LIMITATIONS **AGRICULTURAL YIELD DATA**

Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Tunbridge	Dwellings with basements:	Very limited	Depth to hard bedrock		
Berkshire	Dwellings with basements:	Very limited	Slope		
Marlow	Dwellings with basements:	Very limited	Slope		
Tunbridge	Pond reservoir areas:	Very limited	Slope		
Berkshire	Pond reservoir areas:	Very limited	Slope		

Marlow	Pond reservoir areas:	Very limited	Slope

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Tunbridge	Harvest equip operability:	Moderately suited	Slope	Northern Hardwood Forest, Hemlock-Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Beech-Red Maple-Hemlock-Northern Hardwood Forest Variant, Hemlock Forest
Berkshire	Harvest equip operability:	Moderately suited	Slope	
Marlow	Harvest equip operability:	Moderately suited	Slope	
Tunbridge	Road suitability:	Poorly suited	Slope	
Berkshire	Road suitability:	Poorly suited	Slope	
Marlow	Road suitability:	Poorly suited	Slope	
Tunbridge	Erosion hazard (off-road):	Moderate	Slope/erodibility	
Berkshire	Erosion hazard (off-road):	Moderate	Slope/erodibility	
Marlow	Erosion hazard (off-road):	Moderate	Slope/erodibility	