

163E: Tunbridge-Monadnock complex, 35 to 60 percent slopes, very stony

The Tunbridge component makes up 50 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 Monadnock component makes up 30 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 mountains, hills. The parent material consists of sandy and gravelly drift over sandy and gravelly drift. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: NPSL

Land capability: 7 s

Vermont Agricultural Value Group: 11

Vermont Residential Onsite Waste Disposal Group and Subgroup: IVb

This unit is generally not 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. Steep slopes in association with the depth to bedrock is the limiting condition. Cut and fill site modifications that reduce the slope gradient are difficult to achieve due to the depth to bedrock.

PHYSICAL and CHEMICAL PROPERTIES							EROSION FACTORS		
Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	Kw	Kf	T
Tunbridge	0-1	SPM	---	3.6 - 5.5	2-6	35-100	---	---	2
	1-4	FSL	1-15	4.5 - 6.0	0.6-6	2.0-8.0	.24	.24	
	4-25	FSL	1-15	4.5 - 6.0	0.6-6	0.5-4.5	.37	.37	
	25-35	UWB	---	---	0.01-20	---	---	---	
Monadnock	0-1	MPM	---	3.6 - 5.5	2-6	35-100	---	---	4
	1-5	FSL	1-15	4.5 - 6.0	0.6-2	3.0-8.0	.28	.28	
	5-22	COSL, LFS, VFSL	1-15	4.5 - 6.0	0.6-2	0.5-4.5	.37	.37	
	22-65	GR-COS, GRV-LCOS	1-5	4.5 - 6.0	2-6	0.0-1.0	.05	.24	

WATER FEATURES						SOIL FEATURES		
Soil name	Hydrologic group	Depth to seasonal high water table (Feet)	Flooding		Ponding		Hydric soil?	Depth to bedrock (range in inches)
			Frequency	Duration	Frequency	Duration		
Tunbridge	C	---	None		None		No	20-40
Monadnock	B	---	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	Slope		
Monadnock	Dwellings with basements:	Very limited	Slope		
Tunbridge	Pond reservoir areas:	Very limited	Slope		
Monadnock	Pond reservoir areas:	Very limited	Seepage		

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Tunbridge	Harvest equip operability:	Poorly 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
Monadnock	Harvest equip operability:	Poorly suited	Slope	
Tunbridge	Road suitability:	Poorly suited	Slope	
Monadnock	Road suitability:	Poorly suited	Slope	
Tunbridge	Erosion hazard (off-road):	Very severe	Slope/erodibility	
Monadnock	Erosion hazard (off-road):	Severe	Slope/erodibility	