130B: Tunbridge-Berkshire complex, 0 to 8 percent slopes, very stony

The Tunbridge, very stony component makes up 50 percent of the map unit. Slopes are 0 to 8 percent. This component is on mountains on glaciated uplands, hills on glaciated uplands. The parent material consists of loamy supraglacial till derived from granite and gneiss and/or phyllite and/or mica schist. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches (depth from the mineral surface is 19 to 33 inches). The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Below this thin organic horizon the organic matter content is about 3 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

The Berkshire, very stony component makes up 35 percent of the map unit. Slopes are 0 to 8 percent. This component is on mountains on glaciated uplands, hills on glaciated uplands. The parent material consists of loamy supraglacial meltout till derived from phyllite and/or granite and gneiss and/or mica schist. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 85 percent. Below this thin organic horizon the organic matter content is about 11 percent. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria.

Important farmland classification: NPSL	Land capability: 6 s	Vermont Agricultural Value Group: 9

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIc

This unit is moderately 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 bedrock in some areas is the primary concern. A significant percentage of this map unit has sufficient soil depth over bedrock to accept a range of designs. 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.

	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, very stony	0-3	MPM	---	3.5 - 5.5	1-14	35-95	---	---	2
	3-5	HPM	---	3.5 - 5.5	1-14	35-95	---	---	
	5-8	FSL	1-10	3.5 - 6.0	0.1-14	1.4-5.7	.37	.37	
	8-11	FSL	1-10	3.5 - 6.0	0.1-14	3.1-25	.32	.32	
	11-26	FSL	1-10	3.5 - 6.0	0.1-14	2.2-18	.37	.37	
	26-28	FSL	1-10	5.1 - 6.5	0.1-14	1.0-4.2	.43	.43	
	28-38	BR	---	---	0.001-14	---	---	---	
Berkshire, very stony	0-2	SPM	---	3.5 - 5.5	1-14	35-95	---	---	5
	2-4	FSL	1-10	3.5 - 6.0	0.1-14	5.0-15	.32	.32	
	4-5	FSL	1-10	3.5 - 6.0	0.1-14	1.0-5.0	.37	.37	
	5-7	FSL	1-10	3.5 - 6.0	0.1-14	2.0-20	.32	.32	
	7-13	FSL	1-10	3.5 - 6.0	0.1-14	2.0-10	.32	.32	
	13-21	FSL	1-10	3.5 - 6.0	0.1-14	1.0-6.0	.43	.43	
	21-28	FSL	1-10	3.5 - 6.0	0.1-14	0.0-3.0	.49	.49	
	28-33	FSL	1-10	3.5 - 6.0	0.1-14	0.0-2.0	.49	.49	
	33-65	FSL	1-10	3.5 - 6.0	0.1-14	0.0-1.0	.55	.55	

		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, very stony	C	---	None		None		No	20-40
Berkshire, very stony	B	---	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Tunbridge, very stony	Dwellings with basements:	Very limited	Depth to hard bedrock	Pasture	3.1 AUM
Berkshire, very stony	Dwellings with basements:	Not limited			
Tunbridge, very stony	Pond reservoir areas:	Somewhat limited	Depth to bedrock		
Berkshire, very stony	Pond reservoir areas:	Somewhat limited	Seepage		

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Tunbridge	Harvest equip operability:	Moderately suited	0.1 to 3% surface cover	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:	Well suited		
Tunbridge	Road suitability:	Moderately suited	Rock fragments	
Berkshire	Road suitability:	Well suited		
Tunbridge	Erosion hazard (off-road):	Slight		
Berkshire	Erosion hazard (off-road):	Slight		