SIE61: Sunapee-Moosilauke complex, 0 to 8 percent slopes, very stony

The Sunapee, very stony component makes up 51 percent of the map unit. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. This component is on moraines. The parent material consists of sandy and gravelly ablation till. Depth to a root restrictive layer is greater than 60 inches.

The Moosilauke, very stony component makes up 16 percent of the map unit. The natural drainage class is poorly drained. Water movement in the most restrictive layer is high. This component is on moraines. The parent material consists of sandy and gravelly ablation till. Depth to a root restrictive layer is greater than 60 inches.

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

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIc

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 in association with the minimal slope is the major limitation. A detailed, site-specific analysis is generally required. On-site groundwater level monitoring and determination of induced groundwater mounding is often necessary to establish the suitability of this unit. Curtain drains may help lower the water table to an acceptable level, however, the minimal slope may prevent their use in many areas.

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
Sunapee, very stony	0-2	MPM	---	3.5 - 5.5	2-6	35-100	---	---	5
	2-6	FSL	2-12	3.5 - 5.5	0.6-2	2.0-13	.24	.24	
	6-38	FSL	1-12	3.5 - 5.5	0.6-2	0.2-4.5	.37	.37	
	38-65	GR-LFS	0-10	3.5 - 6.0	0.6-6	0.0-1.5	.24	.37	
Moosilauke, very stony	0-1	MPM	---	3.5 - 5.5	2-6	35-100	---	---	2
	1-9	VFSL	2-12	4.5 - 6.0	2-6	2.0-13	.37	.37	
	9-18	FSL	1-12	4.5 - 6.4	2-6	0.8-4.0	.37	.37	
	18-65	S	0-10	5.6 - 7.2	6-100	0.0-1.5	.02	.02	

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)
Sunapee, very stony	B/D	1.5-3.0	None		None		No	---
Moosilauke, very stony	A/D	0.0-1.5	None		None		Yes	---

LAND USE LIMITATIONS

Soil name	Land use	Rating	Reason **
Sunapee, very stony	Dwellings with basements:	Very limited	Depth to saturated zone
Moosilauke, very stony	Dwellings with basements:	Very limited	Depth to saturated zone
Sunapee, very stony	Pond reservoir areas:	Somewhat limited	Seepage
Moosilauke, very stony	Pond reservoir areas:	Very limited	Seepage

AGRICULTURAL YIELD DATA

Crop name	Yield / acre
Pasture	2.8 AUM
Pasture	6 AUM

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Sunapee	Harvest equip operability:	Moderately suited	0.1 to 3% surface cover fragments >=600mm (m bouldery)	Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest, Hemlock Forest
Moosilauke	Harvest equip operability:	Poorly suited	<30cm to water table fo >=6mos	
Sunapee	Road suitability:	Moderately suited	Rock fragments	

Moosilauke	Road suitability:	Moderately suited	Rock fragments
Sunapee	Erosion hazard (off-road):	Slight	
Moosilauke	Erosion hazard (off-road):	Slight	