SIE61N: Sunapee-Moosilauke complex, 3 to 8 percent slopes

The Sunapee 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 loamy ablation till. Depth to a root restrictive layer is greater than 60 inches.

The Moosilauke 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: Prime (b)	Land capability: 2 w	Vermont Agricultural Value Group: 3d

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	0-8	FSL	2-12	3.5 - 5.5	0.6-2	2.0-15	.24	.24	5
	8-38	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	0-9	VFSL	2-10	4.5 - 6.0	2-6	2.0-13	.37	.37	2
	9-18	FSL	0-7	4.5 - 6.4	2-6	0.8-4.0	.37	.37	
	18-65	S	0-5	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	B/D	1.5-3.0	None		None		No	---
Moosilauke	A/D	0.0-1.5	None		None		Yes	---

LAND USE LIMITATIONS

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

AGRICULTURAL YIELD DATA

Crop name	Yield / acre
Pasture	2.8 AUM
Grass-legume hay	3 Tons
Grass-clover	5 AUM
Grass hay	3 Tons
Corn silage	16 Tons

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Sunapee	Harvest equip operability:	Moderately suited	30-60cm to water table >=6mos	Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest, Hemlock Forest
Moosilauke	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	
Sunapee	Road suitability:	Moderately suited	Wetness	
Moosilauke	Road suitability:	Moderately suited	Wetness	
Sunapee	Erosion hazard (off-road):	Slight		

Moosilauke Erosion hazard (off-road): Slight