

**MaD: Melrose fine sandy loam, 15 to 25 percent slopes**

The Melrose component makes up 85 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. This component is on terraces on lake plains. The parent material consists of coarse-loamy glaciolacustrine deposits over clayey glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: NPSL	Land capability: 4 e	Vermont Agricultural Value Group: 8
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIb

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 slow permeability in the substratum and slopes greater than 20 percent in some areas are the primary concerns. Mound system construction and other site modifications may be necessary. There may be less-sloping areas within the unit that are suitable for siting a septic system, or, if feasible, cut and fill site modifications may produce an acceptable area within the unit. An erosion prevention and sediment control plan is required by the State for construction on sites over 20 percent slope.

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
Melrose	0-7	FSL	5-10	5.1 - 6.0	2-6	3.0-7.0	.20	.20	4
	7-23	FSL	5-10	5.1 - 6.0	2-6	0.5-3.0	.37	.37	
	23-65	SICL	30-55	5.1 - 7.3	0-0.2	0.0-0.5	.37	.37	

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		
Melrose	C	---	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Melrose	Dwellings with basements:	Very limited	Slope	Pasture	6.7 AUM
Melrose	Pond reservoir areas:	Very limited	Seepage	Grass-legume hay	3.5 Tons
				Grass hay	3.5 Tons
				Corn silage	20 Tons
				Alfalfa hay	4 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Melrose	Harvest equip operability:	Moderately suited	Slope	Valley Clayplain Forest, Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest
Melrose	Road suitability:	Poorly suited	Slope	
Melrose	Erosion hazard (off-road):	Moderate	Slope/erodibility	