64C: Salmon-Adamant complex, 8 to 15 percent slopes, very rocky

The Salmon component makes up 45 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 knolls on dissected lake plains. The parent material consists of coarse-silty glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches.

The Adamant component makes up 35 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 knolls on lake plains. The parent material consists of coarse-silty glaciolacustrine deposits. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

Important farmland classification: NPSL	Land capability: 3 e	Vermont Agricultural Value Group: 8e

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

Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS Kw	Kf	T
Salmon	0-3	MPM	---	3.2 - 5.7	2-6	25-95	---	---	5
	3-7	VFSL	2-18	3.6 - 6.0	0.6-2	2.0-6.0	.32	.32	
	7-19	VFSL	2-18	3.6 - 6.0	0.6-2	0.5-3.0	.43	.43	
	19-68	VFSL	2-18	5.1 - 6.0	0.6-2	0.0-1.0	.49	.49	
Adamant	0-4	HPM	---	3.2 - 5.7	2-6	25-95	---	---	2
	4-9	VFSL	1-10	4.5 - 6.0	0.6-6	1.0-8.0	.37	.37	
	9-22	VFSL	1-10	4.5 - 6.0	0.6-6	0.5-3.0	.64	.64	
	22-28	VFSL	1-10	4.5 - 6.0	0.6-6	0.5-3.0	.64	.64	
	28-38	UWB	---	---	0.01-20	---	---	---	

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)
Salmon	B	---	None		None		No	---
Adamant	C	---	None		None		No	20-40

LAND USE LIMITATIONS

Soil name	Land use	Rating	Reason **
Salmon	Dwellings with basements:	Somewhat limited	Slope
Adamant	Dwellings with basements:	Very limited	Depth to hard bedrock
Salmon	Pond reservoir areas:	Very limited	Slope
Adamant	Pond reservoir areas:	Very limited	Slope

AGRICULTURAL YIELD DATA

Crop name	Yield / acre
Alfalfa hay	5.5 Tons
Pasture	8.5 AUM
Grass-legume hay	4.5 Tons
Grass-clover	6.4 AUM
Grass hay	4 Tons
Alfalfa hay	4.5 Tons
Corn silage	18 Tons
Grass-legume hay	4 Tons

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Salmon	Harvest equip operability:	Well suited		Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest
Adamant	Harvest equip operability:	Well suited		
Salmon	Road suitability:	Moderately suited	Slope	

Adamant	Road suitability:	Moderately suited	Slope
Salmon	Erosion hazard (off-road):	Slight	
Adamant	Erosion hazard (off-road):	Moderate	Slope/erodibility