

70B: Groton gravelly fine sandy loam, 3 to 8 percent slopes

The Groton component makes up 80 percent of the map unit. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. This component is on outwash terraces on river valleys. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: Statewide

Land capability: 3 s

Vermont Agricultural Value Group: 4

Vermont Residential Onsite Waste Disposal Group and Subgroup: Ia

This unit is well 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 rapid permeability in the substratum is a concern. Backfilling absorption trenches with at least one foot of finer textured material or other site modifications may be necessary to slow the percolation rate enough to allow for thorough filtering of effluent.

| 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 |
| Groton | 0-8 | GR-FSL | 2-8 | 5.6 - 7.3 | 2-20 | 1.0-4.0 | .15 | .28 | 3 |
| | 8-14 | GR-FSL | 2-6 | 5.6 - 7.3 | 2-20 | 0.5-2.0 | .17 | .37 | |
| | 14-22 | GRV-SL | 2-5 | 5.6 - 7.8 | 20-100 | 0.0-0.5 | .15 | .32 | |
| | 22-65 | GRV-COS | 0-2 | 6.6 - 8.4 | 20-100 | 0.0-0.5 | .02 | .02 | |

| 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 | | |
| Groton | A | --- | None | | None | | No | --- |

| LAND USE LIMITATIONS | | | | AGRICULTURAL YIELD DATA | |
|----------------------|---------------------------|--------------|-----------|-------------------------|--------------|
| Soil name | Land use | Rating | Reason ** | Crop name | Yield / acre |
| Groton | Dwellings with basements: | Not limited | | Grass-legume hay | 3 Tons |
| Groton | Pond reservoir areas: | Very limited | Seepage | Grass-clover | 5.5 AUM |
| | | | | Grass hay | 3.5 Tons |
| | | | | Corn silage | 16 Tons |
| | | | | Alfalfa hay | 4.5 Tons |

| WOODLAND MANAGEMENT | | | | |
|---------------------|----------------------------|-------------|--------|---|
| Soil name | Management concern | Rating | Reason | Vermont natural communities |
| Groton | Harvest equip operability: | Well suited | | White Pine-Red Oak-Black Oak Forest, White Pine-Northern Hardwood Forest Variant |
| Groton | Road suitability: | Well suited | | |
| Groton | Erosion hazard (off-road): | Slight | | |