Map Symbols

- Isopach (Estimated)
- Isopach (Inferred)
- Overburden Thickness > 100 feet
- Bedrock Outcrop (Point/Polygon)
- Cross-Section Line
- Seismic Line (Stewart, 1974)
- Water Well (n = 336)
- Summit (Elevation)
- Railroad
- Road
- NAD27 USGS Quadrangle Corner Tick
- NAD83 USGS Quadrangle Boundary

Isopach Interval: 20 feet (20 feet through 100 feet)
Land Surface Contour Interval: 50 feet
Coordinate System: NAD83 Vermont State Plane FIPS 4400
Grid Overlay: NAD83 UTM 18N Meters

This map shows the thickness of unconsolidated sediment in the Jeffersonville Quadrangle, Vermont. Isopachs, lines connecting points of equal thickness, show the spatial variation in the depth from the land surface to the top of the bedrock surface in the mapped area. Shaded areas highlight zones where the thickness of the unconsolidated material likely exceeds 100 feet. Data sources for this map include surficial geologic maps of the area such as Plate 1 of this publication, well driller's logs, bedrock outcrop locations, and seismic profiles. In places, the thickness of unconsolidated sediment and the elevation of the bedrock surface change over short distances, and mapping at this scale (1:24,000) may not provide sufficient detail. Report VG01-2 includes additional detail and description of the thickness of unconsolidated sediment and the elevation of the bedrock surface in the mapped area.

Data Sources:

Christman, R. A., 1959, Geology of the Mount Mansfield quadrangle, Vermont, Vermont Geological Survey Bulletin 12.

Stewart, D. P., 1974, Geology for Environmental Planning in the Milton-St. Albans Region, Vermont, Vermont Geological Survey Environmental Geology No. 5.

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Vermont Drinking Water and Groundwater Protection Division, 2018, Well Completion Report Database. (https://anrweb.vt.gov/DEC/WellDrillerReports/Default.aspx)

Vermont Geological Survey, 2017, Bedrock Outcrops Compilation Dataset. Accessed via Vermont Open Geodata Portal.

United States Geological Survey, 2007-2014, National Hydrography Dataset. (https://nhd.usgs.gov)

Isopach Map of the Jeffersonville Quadrangle, Vermont

Vermont Geological Survey Open-File Report VG2018-5: Plate 3

Stephen F. Wright and Colin W. Dowey

Scale 1:24,000

0 0.25 0.5 1 Kilometers

0 0.25 0.5 1 Miles

Magnetic Declination 14.3° W

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