Bedrock Geologic Map of Calais, Vermont

Map References: Kim and others 2003, 2011, 2015; Ratcliffe and others, 2011

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REFERENCES:

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Pleistocene Deposits

Delta Deposits, glacial Lake Winnebago. Course gravel and gravely sand deposits, generally well-sorted, deposited on an arm of glacial Lake Winnebago in the valley of the Long Pond River in the town of South Brookfield, in the town of Lenox, or in higher-level glacial lakes of limited areal extent.

Lake Deposits, Finely-sorted. Clay, silty, and sandy silts and sands deposited in glacial lakes in the upland portions of the study area.

Lake Deposits, Coarse-grained. Well-sorted sand, pebbly sand and/or sandy gravel deposited in channel, shallow water, or lake bottom environments of glacial Lake Winnebago.

Lake Deposits, Finely-sorted. Clay, silty, and sandy silts and sands deposited in glacial lakes in the upland portions of the study area.

Ice-contact Deposits. Unsorted to poorly-sorted gravel, sand, and silt deposited in contact with glacial ice.

Till. Deposits of very dense, unsorted to very poorly sorted, fine- to medium gravel, sand, silt, and clay. Surface boulder diameters are common, with boulders of this local bedrock. Granite conterminous with the northern part of the town. Thickness of the till is highly variable, from less than 1 meter to greater than 50 meters, although the till is generally less than 3 meters thick over most of the upland portions of the town.

Holocene Deposits

Lake Deposits, Finely-sorted. Clay, silty, and sandy silts and sands deposited in glacial lakes in the upland portions of the study area.

Alluvial Fan Deposits. Boulder, pebble, and cobble gravel and pebbly sand deposited at the mouths of tributaries.

Stream Terrace Deposits. Silt, sand, pebble, cobbles, and boulder gravel deposited on terraces above the modern floodplain of streams. They represent former floodplains that have been dissected by younger streams.

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REFERENCES


Base map from U.S. Geological Survey.

Geographic System: Vermont State Plane, meters, NAD-83
Geographic coordinates shown at corners are in NAD 83.
Grid-overlay on map is UTM, Zone 19N, NAD83.

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Surficial Geologic Map of Calais, Vermont
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