

EXPLANATION

100212
29122012

Recent
Pleistocene and Recent
Pleistocene
Cretaceous
Middle Ordovician
Lower Ordovician
PRE-ORDOVICIAN

Qc
Alluvium
Dip symbol in alluvium, beach deposits or surficial cover indicates an isolated outcrop of bedrock too small to show on map
Surficial cover is principally tundra and soil, but frost-broken regolith and slope wash locally are included

Qcb
Beach deposits

Qtc
Talus cones

Qaf
Alluvial fan deposits

Qm
Glacial moraine
Shown only where it almost completely mantles bedrock
Qm, ground moraine, terminal moraine, and smaller high level moraines of Recent age in cirques
Qlm, lateral moraine

Qoc
Glacial outwash

Qot
Terrace deposits
Includes deposits on the marine platforms, and younger stream terrace deposits

Qcc
Conglomerate

Km
Mafic intrusive rock
Principally dark quartz-bearing plugs containing undigested limestone and dolomite

Gk
Granite
Includes coarse-grained porphyritic granite of Brooks Mountain, and medium to fine-grained biotite granite in Tin Creek and in the valley of Lost River

Qdi
Limestone
Principally medium-bedded, medium-gray to dark gray fossiliferous limestone exposed only in the klippe between the Mint River and the east headwaters of Skookum Creek

Qshl
Shale and limestone
At base consists of black shale and siltstone with graptolites; grades upward to black sugary-textured limestone, and thence upward to medium-gray to dark gray fossiliferous limestone containing local chert lenses and nodules. The shale ranges between 20 and 50 feet in thickness. In the valley of Lost River, these rocks are completely dolomitized, elsewhere, partly so.

Qli
Limestone and argillaceous limestone
Massive to thick-bedded micritic limestone containing chert nodules locally, and minor interbeds of argillaceous limestone. Fossils include sparse cephalopod siphuncles and brachiopods, and, near top, trilobite fragments. Upper 200 feet distinctly white to pinkish gray

Qlu
Undifferentiated limestone and argillaceous limestone

Qol
Argillaceous limestone and limestone
Thin-bedded ruditic argillaceous and silty limestone and dolomitic limestone, carbonaceous limestone, and subordinate massive micritic limestone containing chert locally; abundant ripple marks, swash marks, casts of worm tubes, cross-bedding, and limestone clasts. Local stromatolites in massive beds

pOg
Gabbro
Sills and dikes of medium to coarse-grained gabbro and olivine gabbro, locally with noticeable magnetite and chromite

pOal
Argillaceous limestone and limestone
pOal, thin-bedded argillaceous and dolomitic limestone, light gray to olive gray on fresh fracture; some beds are silty limestone; weathers limonitic yellow-orange
pOa, upper part lacks dark shaly beds and weathers distinctly redder than lower part
pOl, lower part contains sufficient dark shaly beds that it weathers locally to a greenish-gray soil
Unit subdivided only north of Brooks Mountain

pOlu
Undifferentiated argillaceous limestone
Includes pOal and locally the uppermost part of pOs. Between Mint River and Skookum Creek, includes some thin to medium-bedded dolomitic limestones that are older than the Oal, and probably younger than pOal

pOs
Slate of the York Region
pOs, undifferentiated shale, slate, graywacke, limy siltstone, and light gray pelitic rock
pOsl, buff-weathering laminated siltstone, lenticular black limestone veined with white calcite, and schistose slate
pOsp, fine-grained schistose pelitic rock that weathers a distinctive light gray with light bluish streaks
pOsg, slate, slaty limestone, and sheared graywacke

Tact
Tactite
Includes garnet-magnetite-hornblende-dioptide rock, and massive idocrase rock

B
Breccia
Limestone brecciated and locally dolomitized near major faults

A
Veins
A, tourmaline-fluorite, or sulfides-fluorite
B, quartz-tourmaline
Not shown outside of Brooks Mountain area

Contact, showing dip
Dashed where gradational or approximately located, dotted where concealed

U-----D
High angle fault; U, upthrown side, D, downthrown side

Thrust fault, sawteeth on upper plate

Faults, showing dip
Dashed where approximately located, dotted where concealed, queried where probable

Strike and dip of beds

Strike of beds and direction of dip

Strike and dip of crenulated beds
Showing range of dips to either side

Strike and direction of dip of crenulated beds

Strike and dip of cleavage or schistosity

Horizontal fold axis

Folds
Showing crestline and direction of plunge, dashed where approximately located, dotted where concealed

Bearing and plunge of dragfold axis

Mineral prospects or occurrence of a rare element
U, uranium, tin, fluorite and sulfide minerals
T, tin, sulfide minerals, and fluorite
B, beryllium, fluorite, and sulfide minerals locally
BT, beryllium, tin, fluorite, and sulfide minerals
BX, large areas with beryllium-fluorite veins and veinlets
MB, location of a mineral that contains anomalous amounts of beryllium

Glacial erratic of granite of Brooks Mountain

Slightly improved landing strip
Larger rocks thrown off