



- LEGEND**
- ARCHEAN**
- Ag** Gabbro (age varies); massive to intensely foliated gabbroic and dioritic rocks; locally includes diabase.
 - Agm** Late granitic rocks (syn- to post-D2); massive, typically equigranular, muscovite-biotite and hornblende-biotite quartz monzonite, with minor quartz diorite, granodiorite and tonalite. Includes the Wingiskus Lake (c. 2696 Ma) and Reahil Lake plutons.
 - Agf** Early granitic rocks (pre-D2); foliated biotite, biotite-muscovite and biotite-hornblende granodiorite (c. 2704-2720).
- BEE LAKE ASSEMBLAGE** (c. 2704-2720) (units AOMv2-AKs)
Includes arkoses, arkosic breccia, biotite-feldspar quartzites, phyllite and granitic boulder conglomerates. Locally includes minor interbedded volcanic rocks of the Anderson Lake Formation.
- ANDERSON LAKE FORMATION**: felsic volcanic and volcanoclastic rocks (unit AAfv). Largely consists of felsic tuff and tuff-breccia, with minor rhyolite flows/domes. Locally includes minor interbedded Kangaroo Lake Formation clastic sedimentary rocks. Also included in this formation is a discrete lens of calc-alkalic pillow basalt (unit AAmv).
- ODD LAKE FORMATION**: arc-like mafic volcanic rocks. Consists of basaltic to andesitic, massive and pillowed flows, pillow breccias and tuffs. Locally includes plagioclase phryic basaltic rocks and minor interbedded biotite-feldspar quartzite. Chemically subdivided into a lower island arc tholeiite-like sequence (unit AOMv1) and an upper calc-alkaline sequence (unit AOMv2).

- SYMBOLS**
- Geological boundary (approximate) [dashed line]
 - Fault, undefined (approximate or assumed) [dotted line]
 - Thrust fault (approximate or assumed) [dotted line with triangles]
 - Areas with a high concentration of early granitic dykes [dotted line with circles]
 - Areas containing gneissic and/or magmatic rocks [dotted line with squares]
 - Bedding, top known (inclined, overturned) [dotted line with triangles]
 - Bedding (top unknown, vertical) [dotted line]
 - Bedding from pillow lavas, dip if known (upright) [dotted line with triangles]
 - Foliation, unknown generation (inclined, vertical) [dotted line with triangles]
 - Foliation, known generation (S₁, S₂, S₃) [dotted line with triangles]
 - Lineation, unknown generation (S₁, S₂) [dotted line with triangles]
 - S-fold, unknown generation (S₁, S₂, S₃, S₄) [dotted line with triangles]
 - Z-fold, unknown generation (S₁, S₂, S₃, S₄) [dotted line with triangles]
 - M-fold, unknown generation (S₁, S₂) [dotted line with triangles]
 - Fault zone (normal, dextral, sinistral) [dotted line with triangles]
 - Shear zone (unknown motion, dextral, sinistral) [dotted line with triangles]

Geology by N. Rogers, 2000

Geological compilation by N. Rogers, 2000

Co-ordinated through the auspices of the Western Superior NATMAP project

Additional geology compiled by R. Shkanka, 1967, Geology of the Bee Lake area, Ontario Department of Mines, Geological Report 47

Digital cartography by J.L. Dohar, Earth Sciences Sector Information Division (ESS Info)

This map was produced from processes that conform to the ESS Info Publishing Services Subdivision Quality Management System, registered to the ISO 9001:2000 standard

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Digital base map from data compiled by Geomatics Canada, modified by ESS Info

Magnetic declination 2003, 2°28'E, decreasing 5.5' annually

Elevations in feet above mean sea level west of 95° longitude, in metres above mean sea level east of 95° longitude

OPEN FILE 4315
GEOLOGY
BEE LAKE GREENSTONE BELT
ONTARIO-MANITOBA

Scale 1:50 000/Échelle 1/50 000

Kilometres 1 0 1 2 3 4 Kilomètres

Universal Transverse Mercator Projection / Projection transversale universelle de Mercator
North American Datum 1983 / Système de référence géodésique nord-américain, 1983
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52 L/14	52 L/15	52 L/16
52 L/11	52 L/10	52 L/9
52 L/8	52 L/7	52 L/6

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