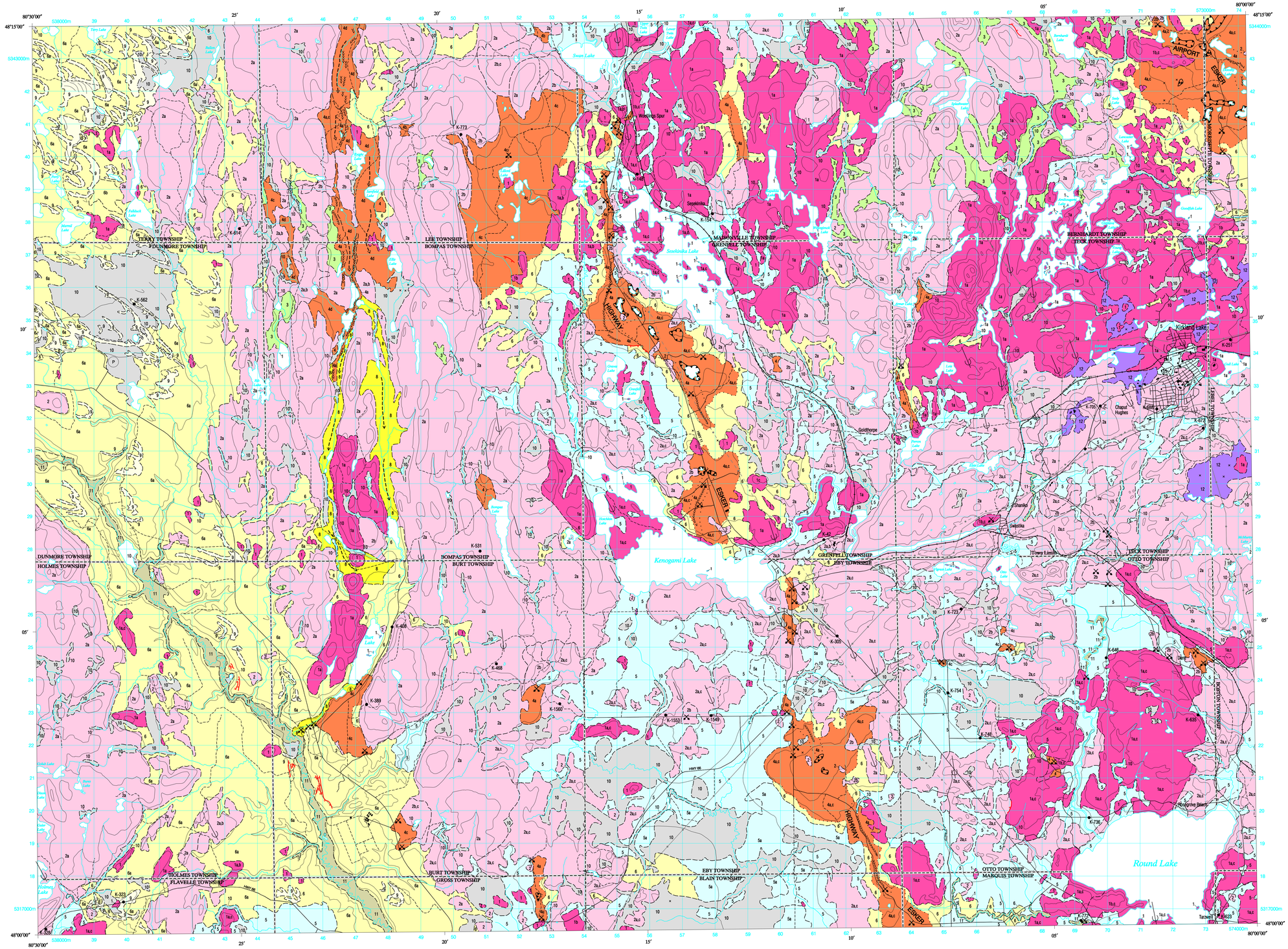


LEGEND[a]

PHANEROZOIC

CENOZOIC

QUATERNARY

RECENT

- 12 **Mine Tailings, Waste Rock Piles and Other Man-Made Features**
- 11 **Alluvium:** mainly sand and silt with minor gravel
- 10 **Swamp and Organic Deposits:** mud, muck, peat
- 9 **Eolian Deposits:** fine to medium sand

PLEISTOCENE

- 8 **Fluvial Deposits:** sand, gravel
- 7 **Glaciolacustrine Nearshore Beach and Bar Deposits:** sand, gravel[b]
- 6 **Glaciolacustrine Coarse-Grained Deposits:** sand with minor gravel
  - 6a Modified by eolian activity
  - 6b Overlain by thin swamp deposits
- 5 **Glaciolacustrine Fine-Grained Deposits:** clay, varved clay, silt
  - 5a Overlain by thin swamp deposits
- 4 **Glaciofluvial Ice-Contact Deposits:** sand, gravel, cobbles, boulders
  - 4a Esker
  - 4b Kame
  - 4c Delta
  - 4d Overlain by thin fluvial deposits
- 3 **Till:** stony, silty sand till

PRECAMBRIAN

- 2 **Bedrock–Drift Complex:** extensive but discontinuous thin drift cover, in places sufficiently thick to subdue the bedrock topography
  - 2a Till cover
  - 2b Glaciofluvial cover
  - 2c Glaciolacustrine cover
- 1 **Bedrock:** exposed or covered by a very thin veneer
  - 1a Till cover
  - 1b Glaciofluvial cover
  - 1c Glaciolacustrine cover

[a] Deposits on this sheet are mapped only where they reach 1 m or more in thickness. Thinner deposits are not shown.
[b] Unit does not occur on this map.

SYMBOLS

- Geological boundary (observed or interpreted)
- Geological boundary (gradational or assumed)
- Glacial striae; direction of ice movement known or assumed
- Glacial striae; direction of ice movement known or assumed (numbers indicate relative ages: 1 = oldest)
- Fluting
- Fluvial terrace, wave-cut notch or shore bluff
- Meltwater channel; direction of flow known or inferred
- Esker ridge; direction of flow known or assumed
- Ice-contact slope
- Kettle hole
- Sand dune; crest only
- Small bedrock outcrop
- Sand or gravel pit
- Sample site[a]
- K-723
- Peat cutting

[a] Further details on sample are provided in OFR 5553.

Ontario

Ontario Geological Survey

MAP 2649

QUATERNARY GEOLOGY

KIRKLAND LAKE AREA

Scale 1:50 000

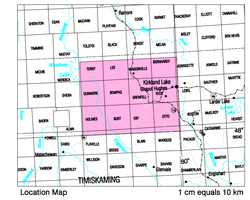
1000 m 0 1 2 km

NTS Reference: 42 A/1

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This map is published with the permission of the Senior Manager, Sedimentary Geoscience Section, Ontario Geological Survey.

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SOURCES OF INFORMATION

Base map derived from map 42 A/1 of the National Topographic System, scale 1:50 000.

Baker, C.L. 1980. Quaternary geology of the Kirkland Lake area, District of Timiskaming; Ontario Geological Survey, Preliminary Map P.2382, scale 1:50 000.

Baker, C.L. 1985. Quaternary geology of the Kirkland Lake area, districts of Cochrane and Timiskaming; Ontario Geological Survey, Open File Report 5553, 144p.

Airphotos from the Ontario Ministry of Natural Resources.

Geology is not tied to surveyed lines.

Contour interval = 50 feet.

Magnetic declination approximately 11°45'W in 2000.

Metric conversion factor: 1 foot = 0.3048 m.

CREDITS

Geology by C.L. Baker and assistants, 1978, 1979.

Cartographic production by S. MacLean.

Edit by G.H. Brown.

Every possible effort has been made to ensure the accuracy of the information presented on this map; however, the Ontario Ministry of Northern Development and Mines does not assume any liability for errors that may occur. Users may wish to verify critical information.

Issued 2000.

Information from this publication may be quoted if credit is given. It is recommended that reference to this map be made in the following form:

Baker, C.L. 2000. Quaternary geology, Kirkland Lake area; Ontario Geological Survey, Map 2649, scale 1:50 000.