

KILOMETERS - SCALE 1:100,000

MURICIAL GEOLOGY

- Op** Organics, peatland deposits
- GL** Glaciolacustrine and glaciomarine deepwater deposits, clay, silt
- GF** Glacioluvial deposits, includes shallow water, glaciolacustrine and glaciomarine deposits of predominantly sand and gravel
- Mb** Till, unsorted mixture of boulders, sand, silt, and clay sufficiently thick to mask bedrock topography
- WV** Shallow silt, thin glacial sediments, mostly overlying bedrock
- R** Bedrock, predominantly bare rock with thin glacial sediment cover

SYMBOLS

- Major moraine (includes end, recessional and interlobate types)
- Crag and tail forms
- Banker
- Beicut, beach and bar forms

- Sources of information:
- Gartner, J.F. 1980. Northern Ontario Engineering Geology Terrain Study, Data Base Map, Jellicoe, Ontario Geological Survey Map 5077, Scale 1:100,000.
 - Gartner, J.F. 1980. Northern Ontario Engineering Geology Terrain Study, Data Base Map, Heron Bay, Ontario Geological Survey Map 5059, Scale 1:100,000.
 - Mollard, D.G. 1979. Northern Ontario Engineering Geology Terrain Study, Data Base Map, Kaministiquia, Ontario Geological Survey Map 5049, Scale 1:100,000.
 - Mollard, D.G. 1979. Northern Ontario Engineering Geology Terrain Study, Data Base Map, Heaven Lake, Ontario Geological Survey Map 5054, Scale 1:100,000.
 - Mollard, D.G. 1980. Northern Ontario Engineering Geology Terrain Study, Data Base Map, Harmon Lake, Ontario Geological Survey Map 5074, Scale 1:100,000.
 - Mollard, D.G. 1980. Northern Ontario Engineering Geology Terrain Study, Data Base Map, Lac Des Milles Lacs, Ontario Geological Survey Map 5074, Scale 1:100,000.
 - Sado, E.V. and Carswell, B.F. 1987. Surficial Geology of Northern Ontario, Ontario Geological Survey Map 2518, Scale 1:1,200,000.

* This legend is common for all maps in this Open File.

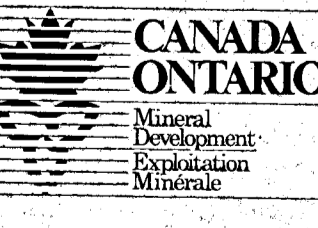
**GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
EXPLORATION GEOCHEMISTRY SUBDIVISION**

CONTRACTORS

- Collection: SIAL Geophysique Inc., Montreal
- Preparation: Golder Associates, Ottawa
- Sediment Analysis: Bondar-Clegg and Company Ltd., Ottawa
Chemex Labs Limited, Vancouver (Au only)
- Water Analysis: Chemex Labs Limited, Vancouver
- Cartography: GSC - Geological Information Division
Terra Surveys Ltd., Ottawa
- Reproduction: Ashley Reproductions Ltd., Ottawa

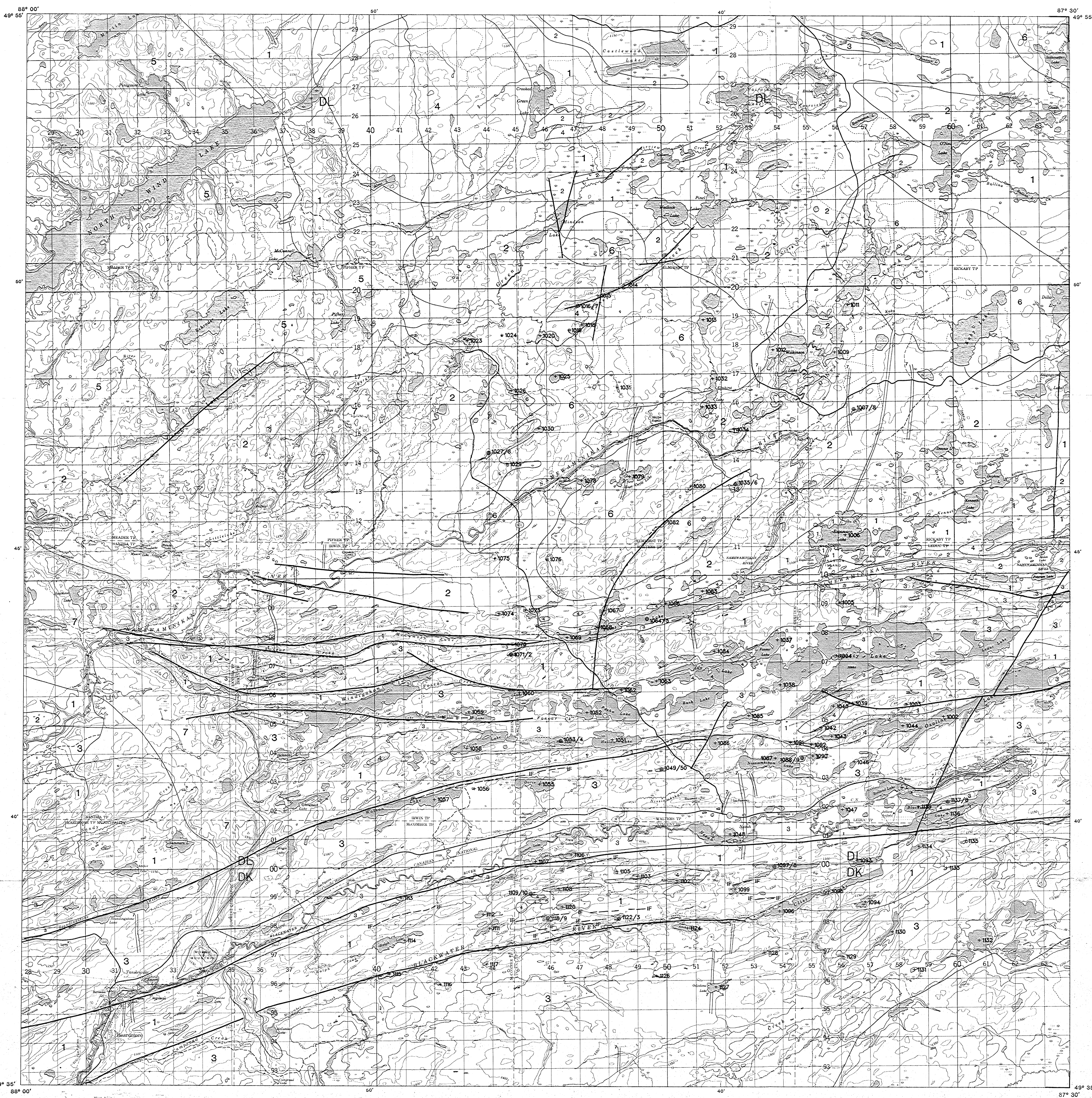
Copies of the OpenFile are available from:
Geological Survey of Canada
Publications Distribution
601 Booth Street
Ottawa, Ontario K1A 0E8
Tel.: (613) 995-4242

Contribution to Canada-Ontario Mineral Development Agreement 1985-1990, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.



Contribution to the Canada-Ontario Mineral Development Agreement 1985-1990, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.

Contribution à l'Entente auxiliaire Canada/Ontario sur l'exploitation minière 1985-1990 dans le cadre de l'Entente de développement économique et régional. Ce projet a été financé par la Commission géologique du Canada.



LEGEND

- PRECAMBRIAN**
- MIDDLE TO LATE PRECAMBRIAN (PROTEROZOIC)**
- 7*** PMT O4** Mafic intrusive rocks; diabase dykes and sills
- EARLY PRECAMBRIAN (ARCHEAN)**
- 6** POFI 02 Unmetamorphosed felsic to intermediate intrusive rocks; biotite and hornblende-biotite tonalite to granodiorite, syenite, monzonite, monzodiorite, diorite
 - 5** PMFI 02 Metamorphosed felsic to intermediate intrusive rocks; diorite, tonalite, granodiorite, quartz feldspar porphyry
 - 4** PMMI 02 Metamorphosed mafic to intermediate intrusive rocks; gabbro, norite, diorite, quartz diorite
 - 3** PCIM 02 Clastic metasediments; conglomerate, mudstone, siltstone, argillite, slate, wacke, arenite and metamorphic equivalents
 - 1F** PIP 02 Chemical metasediments; magnetite chert ironstone
 - 2** PPMV 02 Felsic to intermediate metavolcanics; fine pyroclastic rocks (tuffs, lapillistones), coarse pyroclastic rocks (tuff breccia, pyroclastic breccia) both with some interbedded flows, dacite to rhyolite; quartz feldspar porphyritic flows
 - 1** PPMV 02 Mafic and intermediate metavolcanics; basalt to andesite flows, massive; pillowed flows

* Map unit identifier assigned to rock type.
** A mnemonic code assigned to rock type.

SYMBOLS

- Geological boundary
- Fault
- No data
- Field duplicate site

- Geology base derived from:
- Mackasey, W.O. 1974. Dorothea, Sandra and Irwin Townships, Thunder Bay District; Ontario Geological Survey Map 2294. Scale 1:31,680 or 1 inch to 1/2 mile.
 - Mackasey, W.O. 1976. Walters and Leduc Townships, Thunder Bay District; Ontario Geological Survey Map 2356. Scale 1:36,880 or 1 inch to 3/2 mile.
 - Mackasey, W.O. and Wallace, H. 1977. Elshirah and Rickaby Townships, Thunder Bay District; Ontario Geological Survey Map 2373. Scale 1:31,680 or 1 inch to 1/2 mile.
 - Scott, G.M. 1984. Geraldton Sheet, Thunder Bay and Cochrane Districts; Ontario Geological Survey, Map P-241 (Rev.), Compilation Series - Preliminary Map, Scale 1:126,720 or 1 inch to 2 miles. Compilation 1984.
 - Scott, G.M. 1984. Lake Nipigon Sheet, Thunder Bay District; Ontario Geological Survey, Map P-257 (Rev.), Compilation Series - Preliminary Map, Scale 1:126,720 or 1 inch to 2 miles. Compilation 1984.

Elevation in feet above mean sea level

Magnetic declination at the centre of the map area (49°45'N; 87°45'W) in 1985 is 3°04' increasing 6.4" annually. Magnetic declination ranges from 1°16' increasing 6.3" annually in the southwest corner of the map area, to 4°01' increasing 6.3" annually, in the northeast corner of the map area.

**SAMPLE LOCATION
LAKE SEDIMENTS**
GSC OPEN FILE 2026
BEARDMORE-JELlicoe AREA
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 1278-87
**CANADA - ONTARIO
MINERAL DEVELOPMENT AGREEMENT
(1985-1990)**
LAKE SEDIMENT AND WATER GEOCHEMICAL INFILL SURVEY
NORTHWESTERN ONTARIO, 1987

Scale 1:50 000 - Échelle 1:50 000
Universal Transverse Mercator Projection / Projection Universelle Transversale de Mercator
© Crown copyright reserved / © Droits de la Couronne réservés

