

- LEGEND
- PRECAMBRIAN
LATE PRECAMBRIAN (HELIKIAN)
KEWEENAW
- 13 CARBONATITE - ALKALIC COMPLEXES [AKRK]*
Carbonatites: nepheline, hornblende, augite syenites, gabbro; olivine, nepheline gabbro
 - 12 LATE MAFIC IGNEOUS ROCKS
Diabase, gabbro, anorthosite
 - OSLER GROUP
 - 11 Porphyritic rhyolite or dacite, quartz porphyry, felsite
 - 10 Diabase, basalt, minor pyroclastic rocks, conglomerate, sandstone
 - MAFIC IGNEOUS ROCKS
 - 9 Diabase (DIBS), porphyritic diabase, gabbro, anorthositic gabbro (sills and dykes)
 - 8 SIBLEY GROUP [SMRK]
Conglomerate, sandstone, chert, shale, carbonate rocks
- MIDDLE PRECAMBRIAN (APHEBIAN)
ANIKIIE
- 7 Rove Formation [ARGL]; argillite, shale, greywacke
 - 6 Quartz Formation: chert [CHRT], chert-carbonate, carbonate rocks, argillite, buff, taconite
- EARLY PRECAMBRIAN (ARCHEAN)
FELSIC IGNEOUS AND METAMORPHIC ROCKS
- 5 Granite [GRNT], granite gneiss [GRNG], granodiorite [GRDR], quartz-feldspar porphyry [QZFP], monzonite, magnetite [MGNT], syenite, pegmatite
- MAFIC AND ULTRAMAFIC IGNEOUS ROCKS [UMFC]
- 4 Gabbro, diorite, serpentine, hornblende, amphibolite
- METASEDIMENTS
- 3 Conglomerate [GCLM], greywacke [GRCK], arkose, quartzite, argillite, slate, mica schist and gneiss, quartz-feldspar schist and gneiss [GCSF], garnet-feldspar schist and gneiss [GRSC]
- METAVOLCANICS
- 2 Felsic to intermediate metavolcanics [AEKV]: rhyolite, pillow lava, porphyritic lava, pyroclastic rocks, derived schists
 - 1 Intermediate to mafic metavolcanics [BEKV]: massive, schistose, pillow lava, porphyritic and amygdaloidal lava, pyroclastic rocks and derived schists, undifferentiated metavolcanics with some metasediments [MWCC]
- * A four letter mnemonic name recorded as rock type as part of field observations
- Geological boundary.....
- Fault.....
- Limit of geological mapping [UKWN].....
- No data.....
- Field duplicate site.....

- SURFICIAL GEOLOGY
- Op Organics, peatland deposits
 - GL Glaciolacustrine and glaciomarine deep water deposits; clay, silt and sand
 - GF Glaciolacustrine deposits; includes shallow water glaciolacustrine and glaciomarine deposits; predominantly sand and gravel
 - Mb Till; unsorted mixture of boulders, sand, silt and clay sized particles, sufficiently thick to mask bedrock topography
 - Nv Shallow drift; thin glacial sediments, mostly overlying bedrock
 - R Bedrock; predominantly bare rock or thin glacial sediment cover

- SYMBOLS
- Major moraines
 - Drumlin, drumlinoid forms
 - Crag and tail forms
 - Esker
 - Relict beach and bar forms

Sources of Information:
Sado, E.V. and Carswell, B.F. 1967. Surficial Geology of Northern Ontario. Ontario Geological Survey, Ministry of Mines and Northern Development, Map 2518, Scale 1:1,200,000.

GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
EXPLORATION GEOCHEMISTRY SUBDIVISION

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The legend modified and geology derived for this geochemical map from Geology Compilation Series maps 2220 and 2232, Ontario Division of Mines and map 2065, Ontario Department of Mines

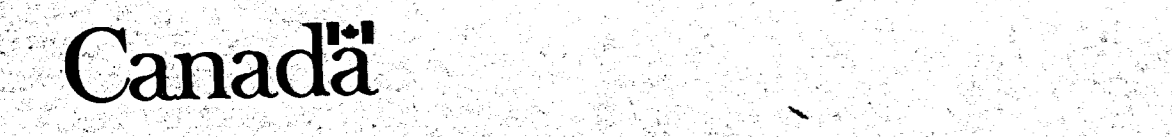
Elevation in feet above mean sea level

Magnetic declination in 1990 for the central part of the map area (48°45'N, 89°E) is 2°05'W increasing 6.1' annually. Magnetic declination ranges from 0°43'W increasing 6.4' annually in the southwest corner of the map area, to 3°33'W increasing 5.7' annually, in the northeast corner of the map area.

CANADA ONTARIO
Mineral Resources Division

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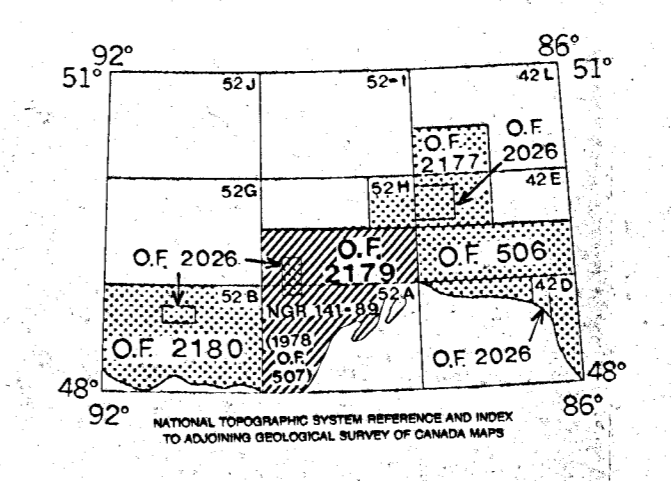


SAMPLE LOCATION LAKE SEDIMENTS
GSC OPEN FILE 2179
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 141-89
CANADA - ONTARIO
MINERAL DEVELOPMENT AGREEMENT (1985-1990)

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
NORTHWEST ONTARIO, 1989

Scale 1:250 000 - Échelle 1/250 000

Universal Transverse Mercator Projection
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SAMPLE LOCATION LAKE SEDIMENTS
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NORTHWEST ONTARIO, 1989

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