

#### SURFICIAL GEOLOGY

- Op** Organics, peatland deposits
- GL** Glaciolacustrine and glaciomarine deepwater deposits, clay, silt
- GF** Glaciofluvial 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
- NV** Shallow drift, thin glacial sediments, mostly overlying bedrock
- R** Bedrock, predominantly bare rock with thin glacial sediment cover

#### SYMBOLS

- Major moraines (includes end, recessional and interlobate types) .....
- crag and tail forms .....
- Esker .....
- Relict, beach and bar forms .....

#### Sources of information:

Sado, E.V., Carswell, B.F. (compilers) 1987, 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

#### CONTRACTORS

- Collection: SIAL Geophysique Inc., Montreal
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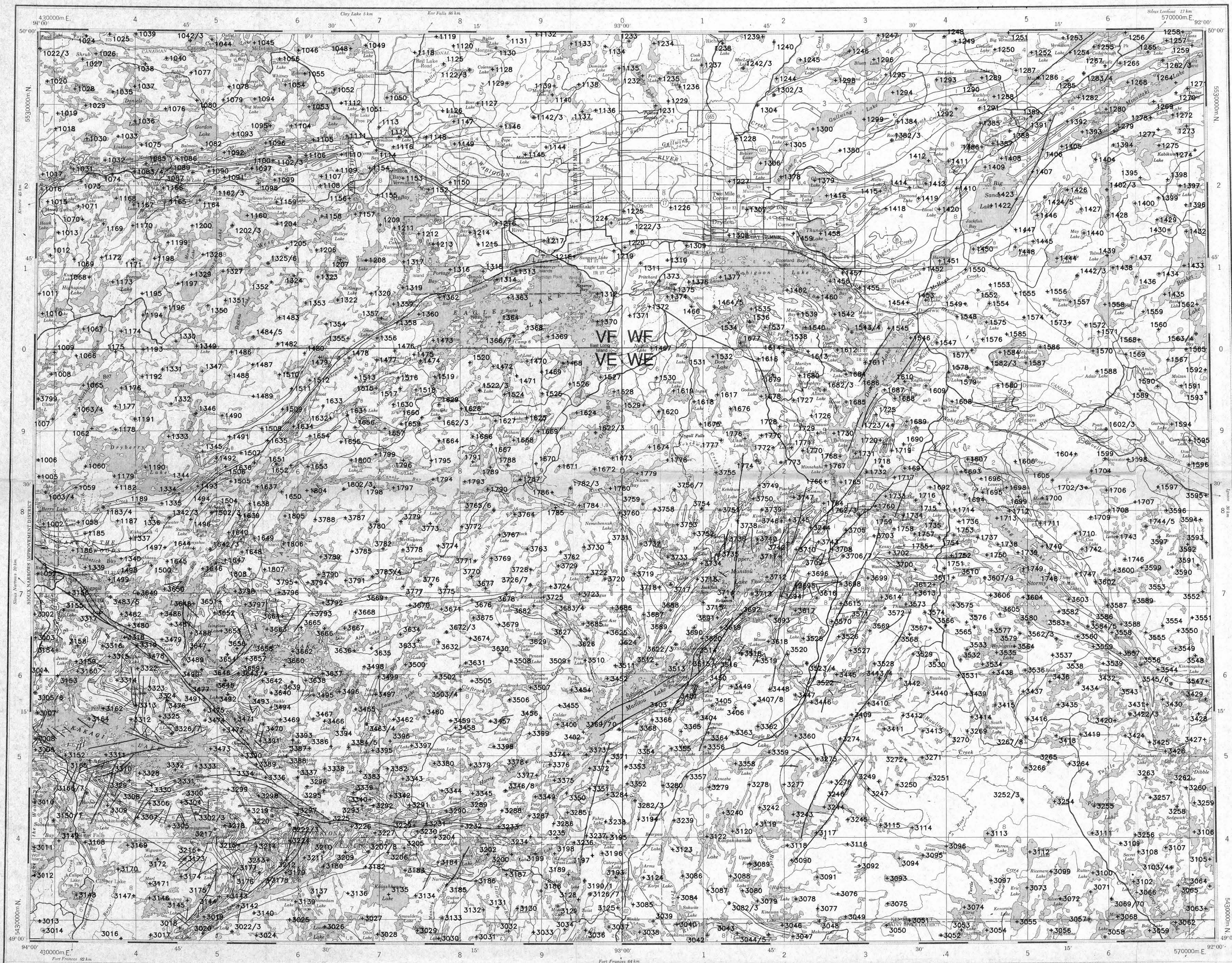
GEOLOGICAL SURVEY OF CANADA



COMMISSION GÉOLOGIQUE DU CANADA

**SAMPLE LOCATION  
LAKE SEDIMENTS**  
GSC OPEN FILE 1958  
NORTHWEST ONTARIO, 1988

NTS 52F



#### GEOLOGY LEGEND

##### PRECAMBRIAN

- 9\* LPAD 04\*\* Diabase dykes

##### ARCHEAN

- 8 AGM 02 Quartz monzonite, granodiorite, trondjemite, quartz diorite, granite, quartz and feldspar porphyries (rock units may be massive, foliated, equigranular, or gneissic)
- 7 AGY 02 Equigranular and porphyritic monzonite, syenodiorite, syenite, diorite and quartz diorite
- 6 AUB 02 Gabbro, norite, diorite, anorthosite, anorthositic gabbro, peridotite, pyroxenite
- 5 AIF 02 Chemical metasediments, ironstone, magnetite and pyrite ironstone, chert
- 4 ACSP 02 Clastic metasediments, pebble and boulder conglomerate, sandstone, siltstone, argillite and derived schists, migmatite, metatextite
- 3 AMVA 02 Alkaline mafic metavolcanic flows
- 2 AMVF 02 Felsic to intermediate metavolcanics; flows, tuff, agglomerate, breccia and migmatite
- 1 AMVB 02 Mafic metavolcanics; massive and pillowed flows, tuff, agglomerate and breccia, amphibolite, amphibolite gneiss and migmatite

This geology legend is common for both GSC Open Files 1957 and 1958

\* Map unit number assigned to rock type

\*\* A mnemonic code assigned to rock type and age recorded as part of field observations

#### SYMBOLS

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

#### Source of information:

Ontario Geological Survey (1979) Kenora - Fort Frances Geological Compilation Series, Map 2443, Scale 1: 253,440

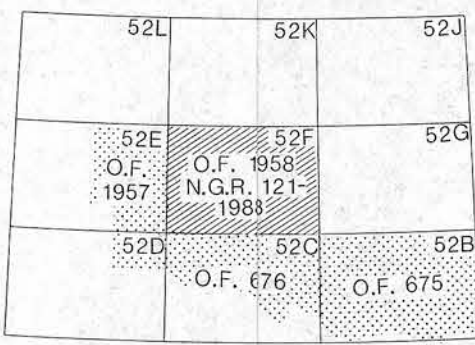
Elevation in feet above mean sea level

Magnetic declination in 1989 for the central part of the map area (49°30'N; 93°E) is 2°22'E, decreasing 7.4' annually. Magnetic declination ranges from 1°26'E, decreasing 7.2' annually, in the southeast corner of the map area, to 3°19'E, decreasing 7.5' annually, in the northwest corner of the map area.

### SAMPLE LOCATION LAKE SEDIMENTS GSC OPEN FILE 1958 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 121-88 CANADA -- ONTARIO MINERAL DEVELOPMENT AGREEMENT (1985-1990)

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY  
NORTHWEST ONTARIO, 1988

Scale 1:250 000 - Echelle 1/250 000  
Kilometres 5 10 15 20 Kilomètres  
Universal Transverse Mercator Projection  
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