

- LEGEND
- Note: This legend is common for Regional Geochemical Reconnaissance Map 70-1984, Open File 1105
- [A*] Metadiorite, hornblende of possible Archean age
 - [1] Amphibolite, volcanic derived with locally preserved pillows
 - [2a] Biotite-feldspar-quartz-paragneiss + garnet + granite ± muscovite
 - [2b] Biotite metatexite + garnet + granite (25-75% white granitic lit)
 - [2c] Biotite metatexite + garnet + cordierite
 - [3a] Light grey biotite (5-10% quartz-feldspar-gneiss + magnetite + garnet with discontinuous diorite gneiss lenses)
 - [3b] Light grey to dark grey biotite (5-15% quartz-feldspar-gneiss interlayered with thin layers of amphibolite and/or hornblende-biotite bearing layers)
 - [4] Calc-silicate rock
 - [5] Amphibolite, metagabbro, locally agmatitic
 - [6a] Metaconglomerate
 - [6b] Thin interlayered amphibolite and hornblende biotite-bearing layers
 - [6c] Arkosic gneiss
 - [6d] Metavolcanic rocks
 - [6e] Metagreywacke
 - [7] Gneissic diorite and leucodiorite
 - [7a] Biotite ± hornblende granodiorite gneiss with white granitic lit
 - [7b] Gabbro
 - [8] Grey, medium to coarse grained biotite (5%) + magnetite-tonalite to quartz monzonite
 - [8a] Hybrid gneiss of grey biotite-quartz monzonite and gneissic diorite
 - [9] Foliated quartz diorite + magnetite
 - [10] Biotite (15-20%) - tonalite ± garnet
 - [11a] Megacrystic biotite-granodiorite
 - [11b] Megacrystic biotite-hornblende ± pyroxene-granodiorite
 - [11c] Coarse grained leucocratic granodiorite
 - [12] White leucocratic medium grained to pegmatitic monzogranite ± garnet
 - [13] Coarse grained to megacrystic-pyroxene-hornblende-monzonite to monzogranite with olive-brown feldspar
 - [13a] Anorthositic gabbro
 - [13b] Hornblende-biotite-monzonite to quartz monzonite with variegated olive-brown and pink feldspar
 - [14] Megacrystic-biotite-magnetite quartz monzonite
 - [15] Biotite ± hornblende coarse grained to megacrystic pink granite to quartz monzonite
 - [15a] Biotite-hornblende granite gneiss
 - [15b] Leucocratic megacrystic pink granite
 - [15c] Fine grained quartz monzonite
 - [16] Magnetite-biotite-hornblende quartz monzonite
 - [17] Granite pegmatite
 - [18] Diabase
- Pyrite, chalcopryite, galena, sphalerite, Iron formation APy, ACp, APd, ASp, AIF
 Geological boundary (approximate, assumed, gradational)
 Drift covered
- * A four character mnemonic name recorded rock type as part of the 1984 field observations

Geological Survey of Canada
 Resource Geophysics and Geochemistry Division
 and
 Manitoba Department of Energy and Mines
 Mineral Resources Division

CONTRACTORS

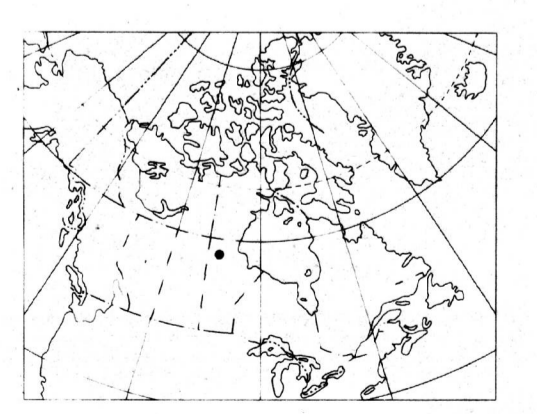
Sample collection by Marshall Macklin Monaghan Ltd., Toronto
 Sample preparation by Golder Associates, Ottawa

Sediment chemical analysis by Barringer Magenta Ltd., Rexdale, Ontario
 Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

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- PROGLACIAL AND GLACIAL ENVIRONMENT
- [Symbol] GLACIOLACUSTRINE DEPOSITS: beach and nearshore deposits: sand and gravel 1-4 m thick, forming distinct ridges
 - [Symbol] GLACIOLACUSTRINE DEPOSITS: deep basin deposits: silt, clay and sand, 1-30 m thick
 - [Symbol] GLACIOFLUVIAL DEPOSITS: gravel, sand and silt, 1-100 m thick
- GLACIAL ENVIRONMENT
- [Symbol] GLACIAL DEPOSITS: till: 1-5 m thick, derived primarily from Precambrian bedrock
- NONGLACIAL ENVIRONMENT
- [Symbol] BEDROCK
 - [Symbol] ORGANIC DEPOSITS: marsh, fen, swamp and bog deposits up to 6 m thick, characterized by seasonal flooding
- Striations
 Flutings, drumlins, and drumlinoid ridges, oriented parallel to ice flow direction
 Esker (flow direction known or inferred)

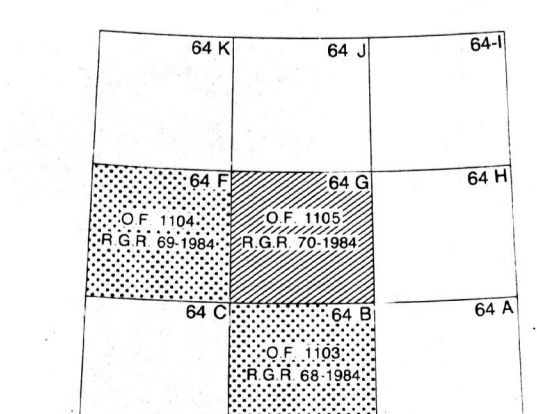


Elevation in feet above mean sea level

Mean magnetic declination 1985, 9°06' East, decreasing 23.1' annually. Readings vary from 7°35' in the NE corner to 10°28' in the SW corner of the map area

ZINC (ppm)
 GSC OPEN FILE 1105
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 70-1984
 CANADA - MANITOBA
 MINERAL DEVELOPMENT AGREEMENT (1984-89)
 LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
 NORTH-WEST MANITOBA, 1984

Base map at the same scale published by the Surveys and Mapping Branch in 1963



This map forms one of a series of maps released by the Geological Survey of Canada, Open File 1103 to 1105. Each Open File consists of maps of various geochemical variables: 16 for lake sediment, 3 for lake water and 1 sample site location

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