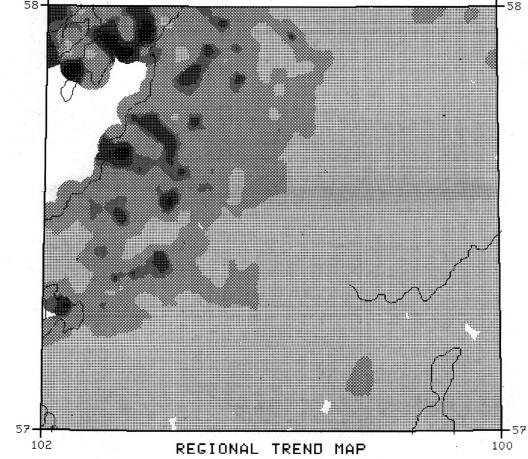
99.99



0 20 40 60

KILOMETERS- SCALE 1:1000000

FWAT

966 SAMPLES

%TILE

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

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

CONTRACTORS

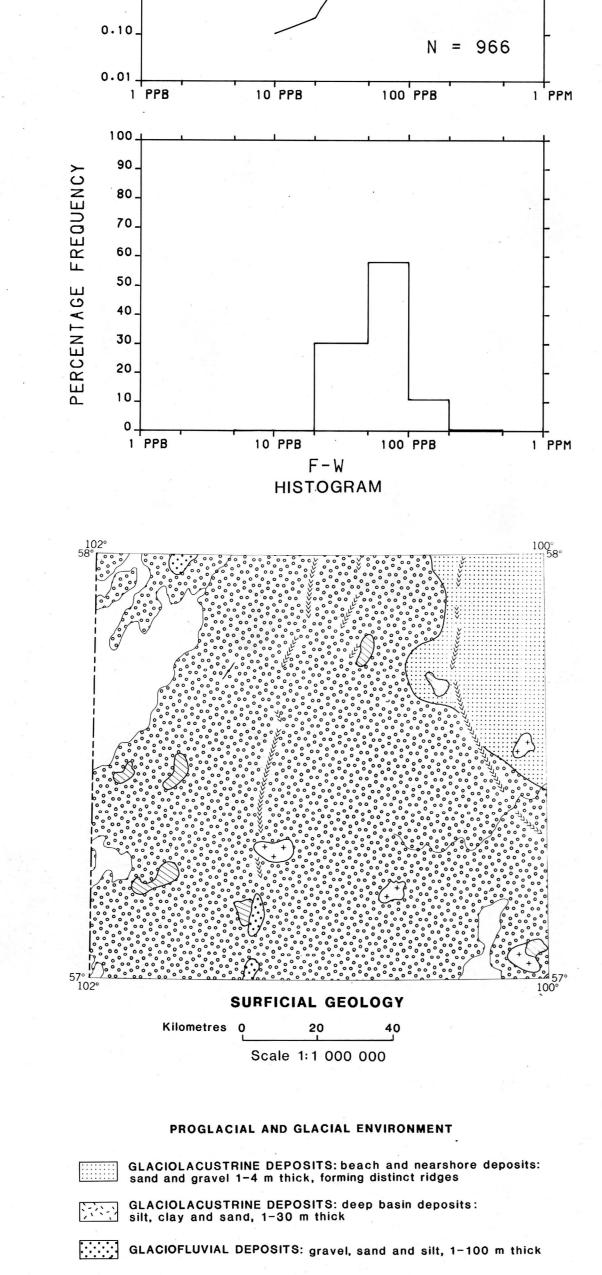
Sediment chemical analysis by Barringer Magenta ltd., Rexdale, Ontario Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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:

K.G. Campbell Corporation 880 Wellington St. Bay 238 Ottawa, Ontario KIR 6K7

The data are also available in digital form. For further information please contact:

The Director
Computer Science Centre
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4



GLACIAL ENVIRONMENT

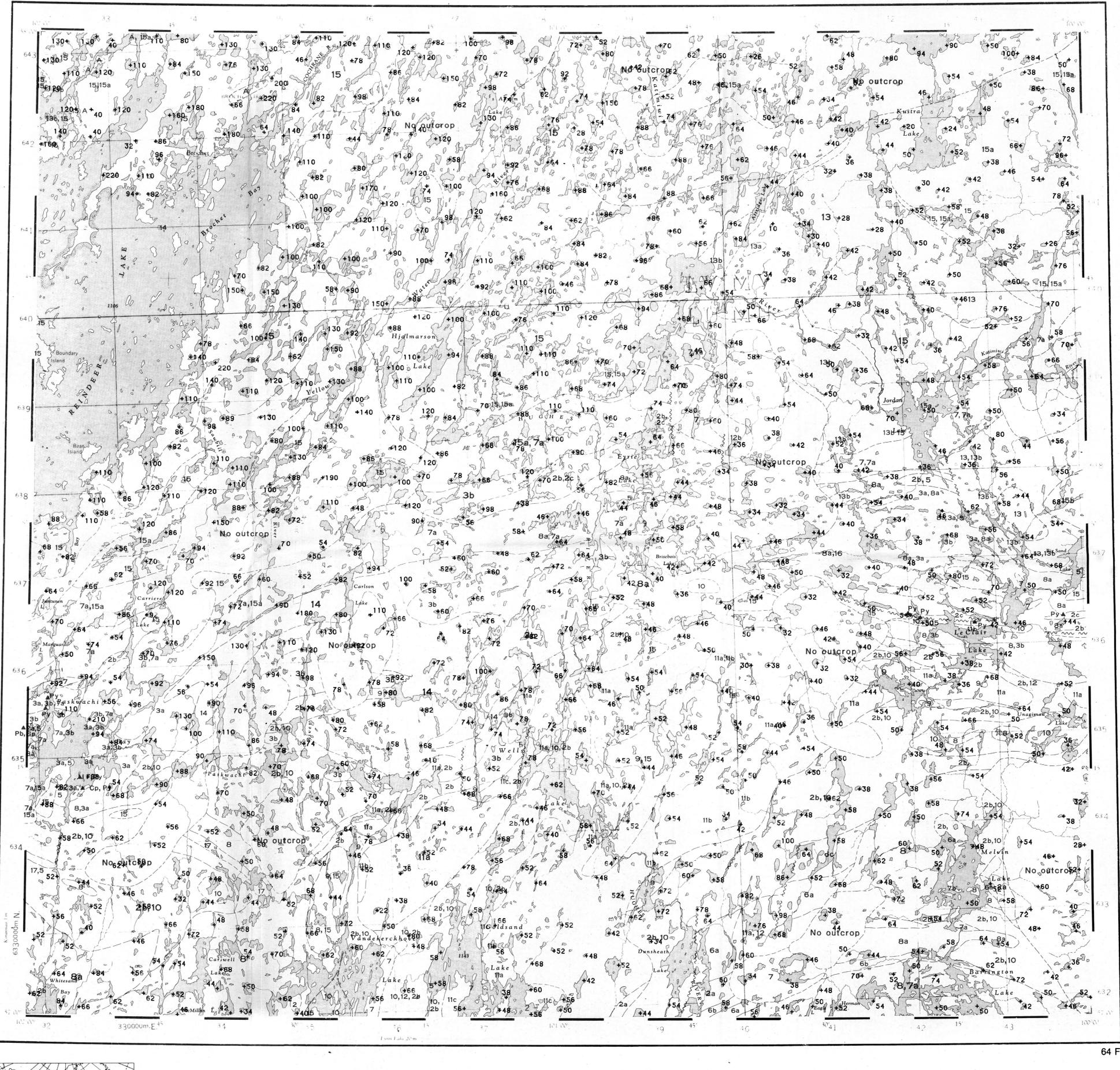
NONGLACIAL ENVIRONMENT

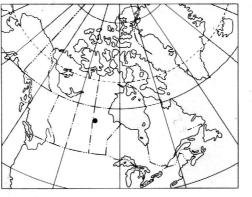
ORGANIC DEPOSITS: marsh, fen, swamp and bog deposits up to 6 m thick, characterized by seasonal flooding

Flutings, drumlins, and drumlinoid ridges, oriented

GLACIAL DEPOSITS: till: 1-5 m thick, derived primarily from Precambrian bedrock

+ + + BEDROCK





Elevation in feet above mean sea level

Mean magnetic declination 1985, 11°52' East, decreasing 23.2' annually. Readings vary from 10°28' in the SE corner to 13°05' in the NW corner of the map area

FLUORINE in water (ppb)

GSC OPEN FILE 1104

REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 69-1984

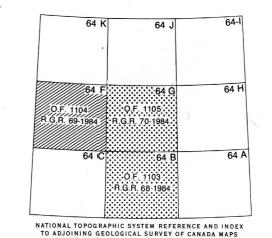
CANADA - MANITOBA
MINERAL DEVELOPMENT AGREEMENT (1984-89)
LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
NORTH-WEST MANITOBA, 1984

Scale 1:250 000

5 0 5 10 15 20 Kilometres

Universal Transverse Mercator Projection
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Base map at the same scale published by the Surveys and Mapping Branch in 1963



LEGEND

Note: This legend is common for Regional Geochemical Reconnaissance Map 69-1984, Open File 1104.

A* Metadiorite, hornblendite of possible Archean age

A The dual of the state of the

2a Biotite-feldspar-quartz-paragneiss + garnet + granite + muscovite

1 Amphibolite, volcanic derived with locally preserved pillows

2c Biotite metatexite + garnet + cordierite

3a Light grey biotite (5-10%) quartz-feldspar-gneiss + magnetite + garnet
with discontinuous diorite gneiss lenses

2b Biotite metatexite + garnet + granite (25-75% white granitic <u>lit</u>)

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 <u>lit</u>

7b Gabbro

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

Coarse grained to megacrystic-pyroxene-hornblende-monzonite to monzogranite with olive-brown feldspar

13a Anorthositic gabbro

Hornblende-biotite-monzonite to quartz monzonite with varigated olive-brown and pink feldspar

14 Megacrystic-biotite-magnetite quartz monzonite

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

> Provisional Compilation map by H.W. Zwanzig, Manitoba Department of Energy and Mines

* A four character mnemonic name recorded rock type as part of the 1984 field observations

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

This map has been reprinted from a scanned version of the original map Reproduction par numérisation d'une carte sur papier

FLUORINE in water (ppb)

GSC OPEN FILE 1104

NORTH-WEST MANITOBA, 1984