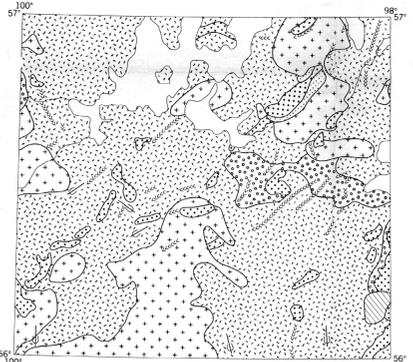
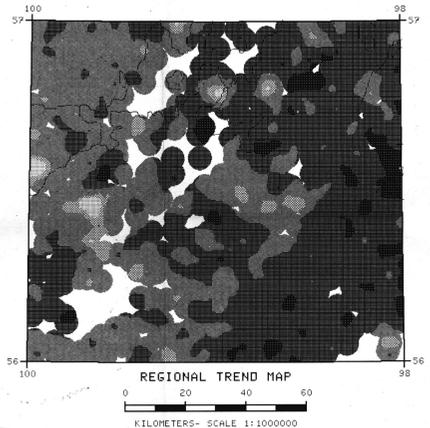
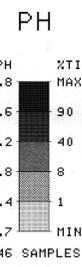


LEGEND
Note: This legend is common for Regional Geochemical Reconnaissance Map 68-1984, Open File 1103.

- PROTEROZOIC (APHEBIAN)**
- 31 GRANITIC INTRUSIVE ROCKS, POST-SICKLE (HUDSONIAN) (AH1a to AH1f)*
31a granite (AH1a); 31b granodiorite, tonalite; 31c megacrystic granite; 31c - granite, granodiorite ± muscovite; 31d leucogranite, tonalite; 31e monzonite, syenite; 31f pegmatite
 - 30 GRANITIC INTRUSIVE ROCKS, POST-SICKLE and remobilized PRE-SICKLE
30 - granite, granodiorite (AH1g)
 - 29 INTERMEDIATE INTRUSIVE ROCKS, POST-SICKLE and remobilized PRE-SICKLE
29 - tonalite, granodiorite, quartz diorite (AH1i); 29a - pyroxene tonalite (AH1p)
 - 28 MAFIC INTRUSIVE ROCKS, POST-SICKLE
28 - gabbro, minor ultramafic rock (AH1r)
 - 27 BLACK TROUT INTRUSIVE SUITE
27 - quartz diorite, diorite (AT1q)
- | SICKLE GROUP | | SICKLE METAMORPHIC SUITE | SOUTHERN INDIAN GNEISS |
|--------------|--|---|------------------------|
| 26 | ARKOSIC METASEDIMENTARY ROCKS, DERIVED GNEISS
26a - conglomerate (ASac)
26b - arkosic sandstone (ASas) | 26c - sandstone-derived gneiss, migmatite (ASan)
<i>conformable?</i>
<i>on Burntwood River M.S.</i> | |
- 25 PRE-SICKLE INTRUSIVE ROCKS
25a - gabbro, norite, ultramafic rock (AP1r)
25b - tonalite, granodiorite, diorite (AP1t)
25c - granite (AP1g); 25d - gabbro-quartz diorite (AP1d)
- | WASEKAN or SICKLE GROUP | GNEISSIC ROCKS OF PROBABLE WASEKAN AGE | BURNTWOOD RIVER METAMORPHIC SUITE |
|-------------------------|--|-----------------------------------|
| 24 | AMPHIBOLITE, CALC-SILICATE ROCK, METASEDIMENTARY ROCKS
24a - conglomerate, gneiss (AGmc); 24b - felsic gneiss (AGmf)
<i>unconformable?</i> | |
- 23 METASEDIMENTARY ROCKS
23a - gneiss, conglomerate, mafic mudstone (AWsw)
23b - gneiss, mafic mudstone (AWsw)
conformable
 - 22 FELSIC, INTERMEDIATE VOLCANICS
22a - dacite, rhyolite (AWvd)
 - 21 MAFIC, INTERMEDIATE VOLCANICS
21a - basalt andesite (AWva)
21b - basalt (AWvb)

Geological boundary (approximate, inferred).....
Fault approximate or inferred.....
Area of no outcrop.....
No analytical result.....

* A four character mnemonic name recorded rock type as part of the 1984 field observations
Provisional Compilation map by H.W. Zwanzig,
Manitoba Department of Energy and Mines



- PROGLACIAL AND GLACIAL ENVIRONMENT**
- GLACIOLACUSTRINE DEPOSITS: beach and nearshore deposits: sand and gravel 1-4 m thick, forming distinct ridges
 - GLACIOLACUSTRINE DEPOSITS: deep basin deposits: silt, clay and sand, 1-30 m thick
 - GLACIOFLUVIAL DEPOSITS: gravel, sand and silt, 1-100 m thick
- GLACIAL ENVIRONMENT**
- GLACIAL DEPOSITS: till: 1-5 m thick, derived primarily from Precambrian bedrock
- NONGLACIAL ENVIRONMENT**
- BEDROCK
 - ORGANIC DEPOSITS: marsh, fen, swamp and bog deposits up to 6 m thick, characterized by seasonal flooding

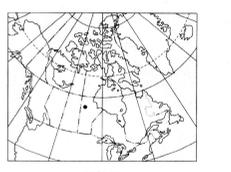
Geological Survey of Canada
Resource Geophysics and Geochemistry Division
and
Manitoba Department of Energy and Mines
Mineral Resources Division

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

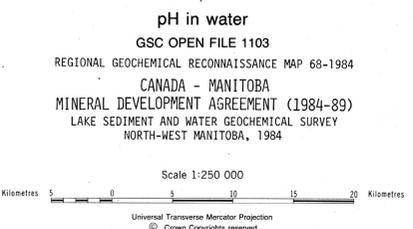
Sediment chemical analysis by Barringer Magenta Ltd., Rexdale, Ontario
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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:
K.G. Campbell Corporation
880 Wellington St.
Bay 238
Ottawa, Ontario
K1R 6K7

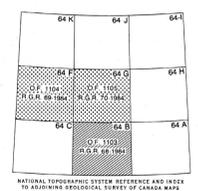
The data are also available in digital form. For further information please contact:
The Director
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Ottawa, Ontario
K1A 0E4



pH in water
GSC OPEN FILE 1103
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 68-1984
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



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