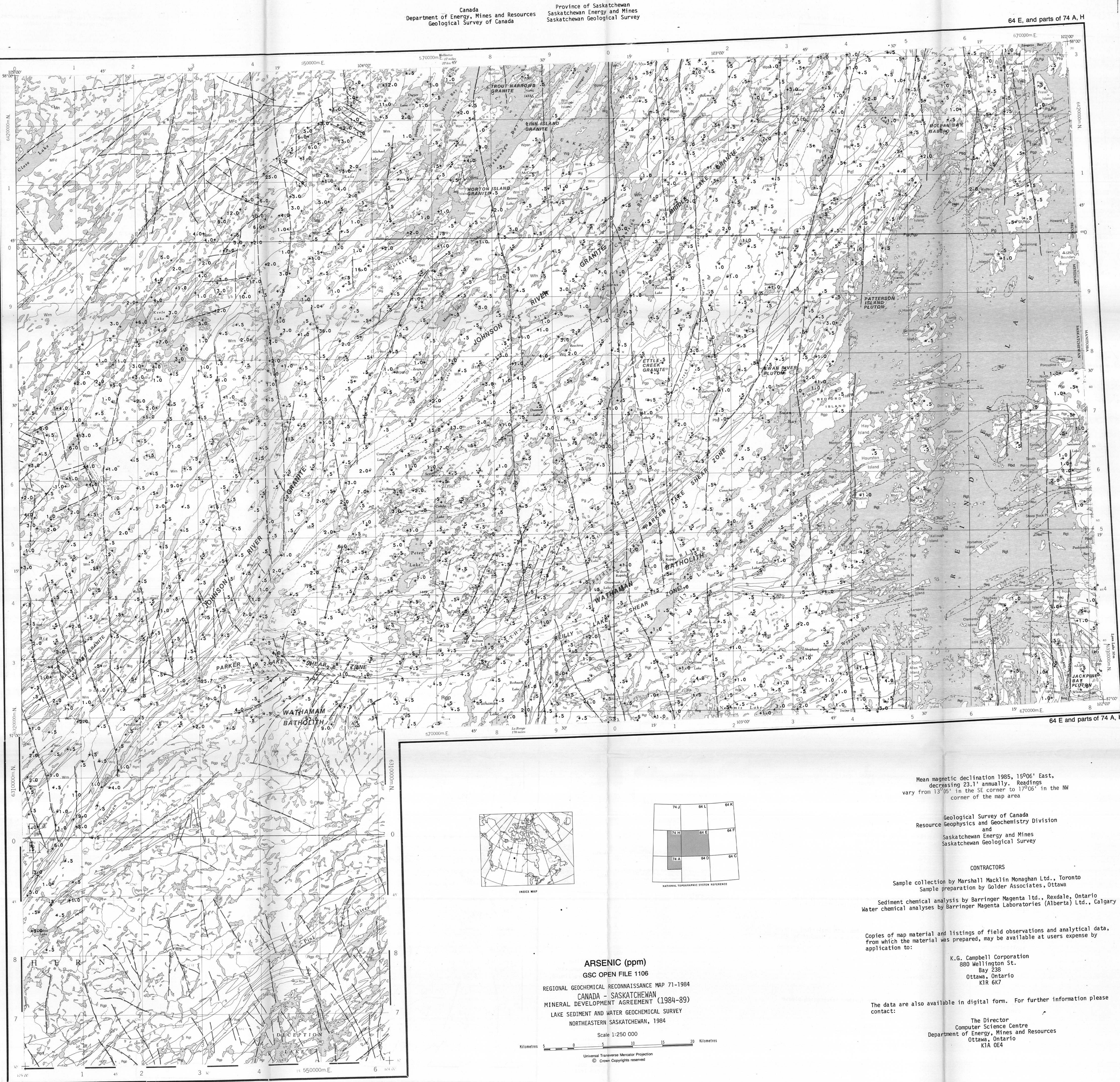


Complexes: where two or more classes of terrain are interspersed in a mosaic or repeating pattern the proportion of each component in the combination is given in a three-position designation set off by slashes denoting arbitrary percentage limits. For example, "Wu/Ou/R" means that at least 50% of the area is underlain by thin till, with up to 40% boggy areas, and less than 10% scattered rock outcrops. "Rc/R" indicates more than 60% bedrock concealed by vegetation and less than 10% outcrop.



ARSENIC (ppm)
GSC OPEN FILE 1106
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 71-1984
CANADA - SASKATCHEWAN
MINERAL DEVELOPMENT AGREEMENT (1984-89)
LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
NORTHEASTERN SASKATCHEWAN, 1984

Scale 1:250 000
Universal Transverse Mercator Projection
© Crown Copyright reserved

Mean magnetic declination 1985, 1906' East,
decreasing 23.1' annually. Readings
vary from 13°05' in the SE corner to 17°06' in the NW
corner of the map area

Geological Survey of Canada
Resource Geophysics and Geochemistry Division
and
Saskatchewan Energy and Mines
Saskatchewan Geological Survey

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 6C7

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

ARSENIC (ppm)
GSC OPEN FILE 1106
NORTHEASTERN SASKATCHEWAN, 1984

LEGEND

Note: This legend is common for Regional Geochemical
Reconnaissance Map 71-1984, Open File 1106

- NEOCHELIKIAN-HADRYANIAN**
 - dt: Basaltic siltstone, fine to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- PALEOCHELIKIAN**
 - ATAMBAKA GROUP**
 - MT: Massive siltstone, medium to coarse grained, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- LATE APHEBIAN (HUDSONIAN)**
 - X: Calcic gneiss, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- WOLLASTON DOMAIN**
 - LATE APHEBIAN (HUDSONIAN)
 - Wp: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wg: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wgt: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- ROTTERSTONE DOMAIN**
 - APHEBIAN (HUDSONIAN) WITH POSSIBLE ARCHEAN ELEMENTS
 - Rp: Metagranite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Rm: Metagranite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Rd: Metagranite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Rng: Metagranite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Rgr: Metagranite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- LA RONGE DOMAIN**
 - Lgn: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- EARLY TO MIDDLE APHEBIAN**
 - Wollaston Group
 - Wp: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wg: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wgt: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- PROBABLY EARLY APHEBIAN (LATE ARCHEAN)**
 - Wp: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wg: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wgt: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- UNCONFORMITY**
 - Wp: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wg: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wgt: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- ARCHEAN, DEFORMED AND METAMORPHOSED WITH APHEBIAN SUPERGENEAL ROCKS DURING THE HUDSONIAN OROGENY**
 - Wp: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wg: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wgt: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- PROBABLY MAINLY ARCHEAN**
 - Wp: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wg: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
 - Wgt: Granite, medium to coarse grained, massive to weakly foliated, locally silty, locally laminated, locally abundant vesicles of paragonite and unit Lgn.
- SYMBOLS**
 - Single bedrock exposure, approximate area of abundant bedrock exposure
 - Geological contact defined to approximate, inferred
 - Structural fault, possible to probable fault, as interpreted from geological, geophysical and/or geochronological evidence
 - Major fold axial trace, antiform, synform
 - Trend and approximate dip of basement foliation surface: dip shallow (0-20°), moderate (20-30°), steep (30-45°), subvertical (45-90°)
 - Minor prospect:
 - 1. Spring Lake, Zn, Pb, Mn, Mg, Fe, and Branner
 - 2. Spring Lake, Zn, Pb, Mn, Mg, Fe, and Branner
 - Sample location (geochronology):
 - 1. 1875-1878 Ma, K-Ar muscovite (Wollaston et al., 1979)
 - 2. 1875-1878 Ma, K-Ar whole rock (Wollaston et al., 1979)
 - 3. 1875-1878 Ma, K-Ar whole rock (Wollaston et al., 1979)
 - 4. 1875-1878 Ma, K-Ar whole rock (Wollaston et al., 1979)
 - No analytical result

* A mnemonic name recorded as rock types as part of field observations

This legend was modified and the geology derived for these geochemical maps from Compilation Bedrock Geology Series 2204, 2206 and 2207, Saskatchewan Energy and Mines, Saskatchewan Geological Survey

This map forms one of a series of maps released by the Geological Survey of Canada, Open File 1106. The Open File consists of maps of various geochemical variables: 16 for lake sediment, 3 for lake water and 1 sample site location

ARSENIC (ppm)
GSC OPEN FILE 1106
NORTHEASTERN SASKATCHEWAN, 1984

This map has been reprinted from a
revised version of the original map
reproduction per nomenclature done
after the paper