

- LEGEND
- MESOZOIC  
CRETACEOUS  
8 (SMRK) Mannville Group: interbedded fine to coarse sand, silt and clay.
- PALEOZOIC  
DEVONIAN  
7 (LMDM) Methy Formation: limestone and dolomite
- PRECAMBRIAN  
SEDIMENTARY COVER  
6 (SNDS) Athabasca Formation: predominantly fluvial sandstone with minor shale and conglomerate.

- Pronounced Unconformity  
Beneath this unconformity no stratigraphic order is implied by the sequence of the legend.
- BASEMENT COMPLEX  
5 (MGMT) Migmatite and mylonite zones  
4 (APBG) Amphibolite and hornblende-bearing gneisses  
3 Mixed metasediments  
2 (PCSC) Pelitic schists and gneisses  
1 (GRNT) Granites, granodiorite, quartz-monzonites

A four letter mnemonic name recorded as rock type as part of field observations.  
Geological boundary.....  
Fault.....  
No analytical result.....  
Field site duplicate .....

This legend was modified and the geology derived for this geochemical map from Geology Map of Saskatchewan, 1972

CONCENTRATION		FREQUENCY
11 to 69	+	N= 16( 1.8%)
8 to 10	+	N= 14( 1.5%)
6 to 7	+	N= 42( 4.6%)
3 to 5	+	N= 196(21.6%)
<2 to 2	+	N= 640(70.5%)

Geological Survey of Canada  
Mineral Resources Division  
Exploration Geochemistry Subdivision  
and  
Saskatchewan Department of Energy and Mines  
Saskatchewan Geological Survey

CONTRACTORS

Sample collection by Marshall Macklin Monaghan Ltd., Toronto  
Sample preparation by Golder Associates, Ottawa  
Sediment chemical re-analyses by Bondar-Clegg and Co. Ltd., Ottawa (1987)  
Uranium in sediment chemical analyses by Atomic Energy of Canada Ltd. (1984)  
Other sediment chemical analyses by Chemex Labs Ltd., Vancouver (1984)  
Water chemical analyses by Barringer Magenta Ltd., Rexdale (1984)



REGIONAL TREND MAP  
0 20 40 60  
KILOMETRES - SCALE 1:1000000

**GOLD (INAA)**  
IN  
LAKE SEDIMENTS

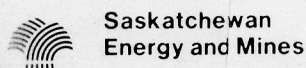
PPB	%TILE
69.0	MAX
10.0	98
7.0	95
5.0	90
2.0	70
1.0	MIN
908 SAMPLES	

To purchase copies of map material and listings of field observations and analytical data, from which the material was prepared, or copies of analytical data on IBM microcomputer compatible diskette, please direct inquiries to:

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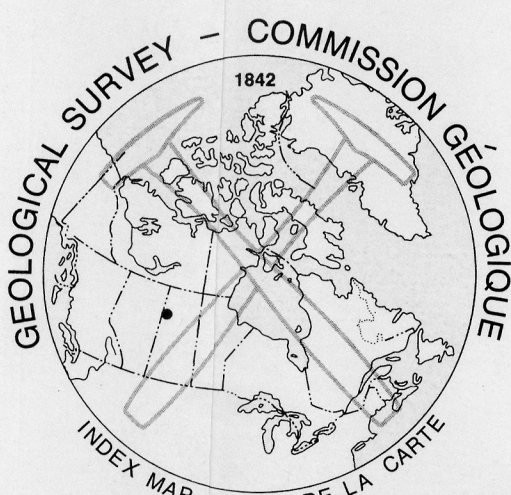
Contribution to Canada-Saskatchewan Mineral Development Agreement 1984-89, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.

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Energy, Mines and Resources Canada  
Energie, Mines et Ressources Canada

Canada



Elevation in feet above mean sea level

Mean magnetic declination 1988, 20°05' East, decreasing 12.9" annually. Readings vary from 18°50'E in the SE corner to 21°20'E in the NW corner of the map

**GOLD (ppb)**

GSC OPEN FILE 1642

REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 107-1987

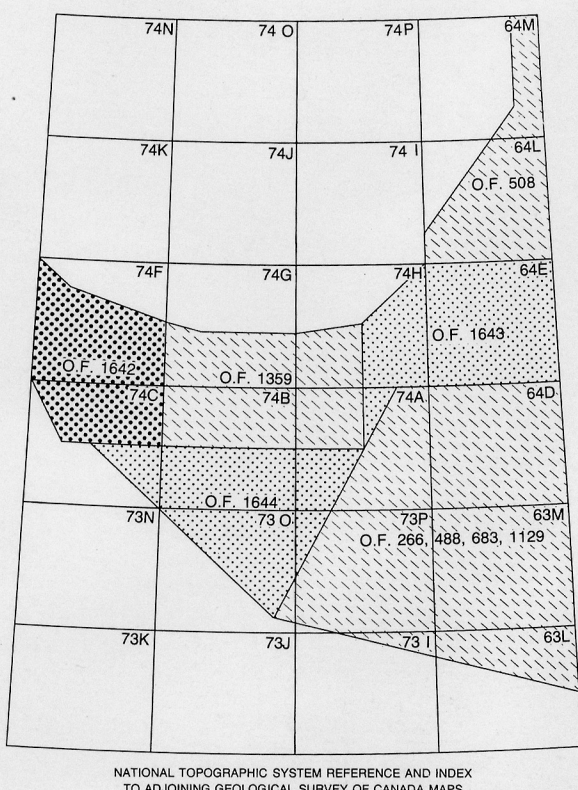
CANADA - SASKATCHEWAN  
MINERAL DEVELOPMENT AGREEMENT (1984-89)  
AND  
URANIUM RECONNAISSANCE PROGRAM (1978)

LAKE SEDIMENT AND WATER GEOCHEMISTRY SURVEY  
NORTHWESTERN SASKATCHEWAN 1978/1987

Scale 1:250 000 - Échelle 1/250 000

Kilometres 0 5 10 15 20  
Universal Transverse Mercator Projection  
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Base-map assembled by the Geological Cartography Unit from maps published at the same scale by the Surveys and Mapping Branch in 1960



This map forms one of a series of maps released by the Geological Survey of Canada as Open File 1642. Open File 1642 consists of one sample location and one gold value map at 1:250,000 scale, and 50 element-symbol plots of 28 x 36 cm.

**GOLD (ppb)**

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NORTHWESTERN SASKATCHEWAN 1978/1987