



Geological Survey of Canada  
 Resource Geophysics and Geochemistry Division  
 and  
 Department of Mineral Resources  
 Saskatchewan Geological Survey

**CONTRACTORS**

Sample collection by MN Consulting Ltd., Toronto  
 Sample preparation by Golder Associates

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

This map forms one of a series of maps released by the Geological Survey of Canada, Open File 1213. The Open File consists of maps of various geochemical variables: 16 for lake sediment, 3 for lake water and 1 sample site location.

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

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Saskatchewan Energy and Mines  
 Energy, Mines and Resources Canada

**MANGANESE (ppm)**  
 GSC OPEN FILE 1213  
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 78-1985

CANADA - SASKATCHEWAN  
 MINERAL DEVELOPMENT AGREEMENT (1984-89)

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY  
 NORTH-CENTRAL SASKATCHEWAN, 1985

Scale 1:250,000

Elevation in feet above mean sea level

Mean magnetic declination 1985, 17° 29' East, decreasing 20.4' annually. Readings vary from 15° 30' East in the SE corner to 20° 02' East in the NW corner of the map area.

Base map assembled by the Geological Survey of Canada from maps published at the same scale by Mapping and Charting Establishment, Department of National Defence and the Surveys and Mapping Branch, Department of Energy, Mines and Resources in 1974, 1971, 1962.

This map has been prepared from a computer version of the original map. Reproduction for non-commercial use is permitted.

3 of 20

**MANGANESE (ppm)**  
 GSC OPEN FILE 1213  
 NORTH-CENTRAL SASKATCHEWAN, 1985