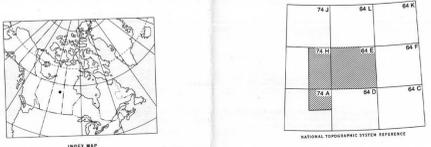
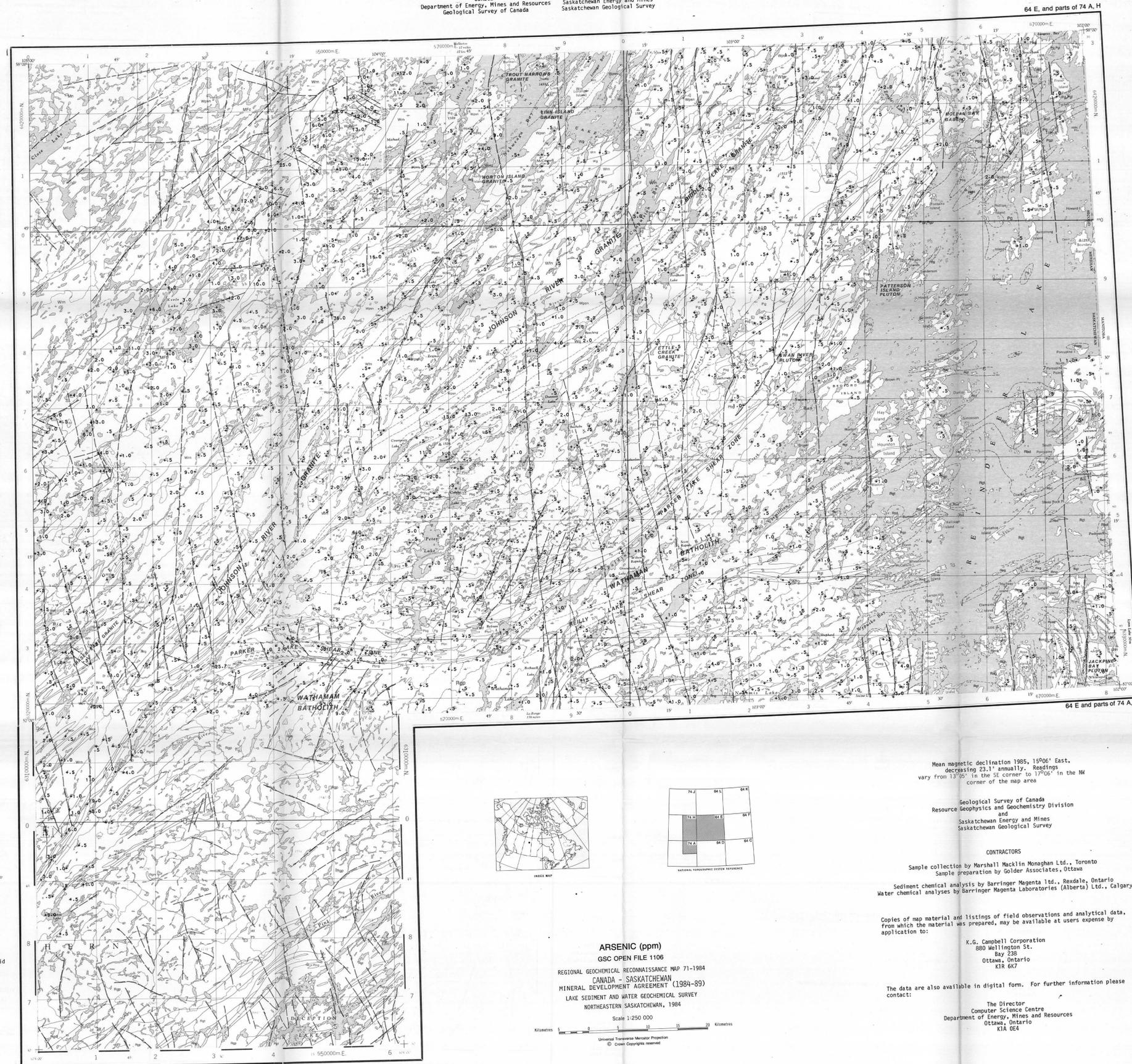


**SURFICIAL GEOLOGY**

Kilometres 0 20 40 60  
Scale 1:1 000 000

Rock	Geomorphic Modifier
Morainal	concealed
Glaciolacustrine	weathered
Glaciofluvial	eroded
Organic	hummocky
	drumlinoid
	terrace
	collapsed
	plain
	veneer
	ridged

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, "Mw/Ov" means that at least 60% of the area is underlain by thin till, with up to 40% boggy areas, and less than 15% scattered rock outcrops. "Rv/R" indicates more than 60% bedrock concealed by vegetation and less than 15% 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  
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Mean magnetic declination 1985, 15°06' 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

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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:

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

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Department of Energy, Mines and Resources  
Ottawa, Ontario  
K1A 0E4

LEGEND

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

NECHELKIANNADRYANIAN	NECHELKIANNADRYANIAN	LA ROCHEE DOMAIN
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Granulite and quartzite, medium grained, well foliated to massive, siltstone to siltstone, abundant vesicles of porphyry and air Lgn.
PALEOCHALKIAN	PALEOCHALKIAN	Quartzite, medium grained, well foliated to massive, siltstone to siltstone, abundant vesicles of porphyry and air Lgn.
ATLABASCA GROUP	ATLABASCA GROUP	
Mt. Royal Formation sandstone and conglomerate	Mt. Royal Formation sandstone and conglomerate	
LATE APHEBIAN (HUDSONIAN)	LATE APHEBIAN (HUDSONIAN)	
Canolite, mylonite and shear rocks of the North Falls Zone, derived from rocks of the Wollaston and other Lake Ontario.	Canolite, mylonite and shear rocks of the North Falls Zone, derived from rocks of the Wollaston and other Lake Ontario.	

WOLLASTON DOMAIN	WOLLASTON DOMAIN	ROTTENSTONE DOMAIN
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.

EARLY TO MIDDLE APHEBIAN	EARLY TO MIDDLE APHEBIAN	ROTTENSTONE METAMORPHIC COMPLEX
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.

PETER LAKE DOMAIN	PETER LAKE DOMAIN	PETER LAKE COMPLEX
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.

HUDSONIAN WITH POSSIBLE ARCHEAN ELEMENTS	HUDSONIAN WITH POSSIBLE ARCHEAN ELEMENTS	PETER LAKE COMPLEX
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.

PROBABLY EARLY APHEBIAN (LATE ARCHEAN?)	PROBABLY EARLY APHEBIAN (LATE ARCHEAN?)	PETER LAKE COMPLEX
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.

UNCONFORMITY	UNCONFORMITY	PETER LAKE COMPLEX
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.
Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.	Basaltic siltstone to coarse grained, massive to weakly bedded, silty shale to siltstone to siltstone.

\* 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 220A, 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

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