45'	15' DISTRICT OF KEEWATIN 97°00'NORTHWEST TERRITORIES 45'	30' 15' 96° UC	TO THE TANK OF THE PROPERTY OF
	X O (5 ¹²⁰ O MANITOBA 12 O O O O	O150 X O146 61472	
			5 Ess
5		The first of the first of the first	
araizon O	7 9		
			5 O Drift covered
Lake O	2 0 0		
	3	The state of the s	
July 15 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		STATE OF THE STATE	
0 0 0 0 0 5	The state of the s		
	Rapids I O		
3			
0/05			
2 5			
3		O Company of the contract of t	
OA			
	The Or the second of the first		700
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
0 0 0 0			
and the second of the second o	0 0		
0 8 0 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0			1 5 3 3 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		Rapids A	
		255 - 1 200 6 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
26	O CO		Rapids 1
	0	0 1 1 ×	
3			
0 + 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		6	
\$1 th Out of the state of the s		0 0	Drift reviews 5
A STATE OF THE STA	The state of the s		2 0 0
	O + A + A + A + A + A + A + A + A + A +		2 O C R R R R R R R R R R R R R R R R R R
			Mink
Late Duck O O		4	
) * * O O O O O O O O O O O O O O O O O	
Lake Co O	5 9 September 1 - Esker 1		Rapids Of Option
		0	O Con
O Sent Constitution of the		0 0 0	Rapids O Lake Rapids
Caribou (abgridoned)		and a second of the second of	CO RIVERS
× 9 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3		0 0	Sac X Rapids
5		× 0 0 0 0 0 0 0	Esker O O O
		Rapids 9 O S S S S S S S S S S S S S S S S S S	
		3 0 5 0	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 = 23 = 3 = 7		The second secon
ed O O O O O O O O O O O O O O O O O O O	00	Company of the compan	70
O Proposition of the second of		5 0 0 0 0	
		00 000	2
		0	
		Rapids 7	Control of the state of the sta
		0 0 0	
		MOTO STATE OF THE	RIVER OF THE PROPERTY OF THE P
		Rapids O C C C C C C C C C C C C C C C C C C	Drift covered O O O
2 MacLeod O		5 0 0 0 0	seald a seal of the seal of th
		TO THE WAY WE SEE THE THE SEE SEE SEE SEE	a difference of the state of th
Take De la land	00 00	Rapids A Paris	Jan Con Con Con Con Con Con Con Con Con Co

on the most detailed and up-to-date knowledge available.

The term reliability factor and value that appears below the table is an estimate of the reliability of the geochemcial map. On the basis of duplicate sampling 5% of all lakes sampled it can be stated that there is a 95% chance that if any lake is resampled and identical methods of sample preparation and analysis are used the new value will lie between X ÷ RF and X x RF where X is the original value obtained. This factor takes into account variability due to both heterogeneity of the centre-lake

4 Massive to pillowed basalt, dacite and derived metamorphic rocks.

Brown hypersthene-bearing granulite, minor pyroxene granulite and porphyroblastic granulite.

A Hornblende schist, amphibolite, metagabbro, magnetite gneiss.

Drift covered area.....

Limit of geological mapping.....

Geological contact.....

Washboard moraine (individual ridges not indicatd)..............

Legend modified and geology compiled for geochemical map by E.H. Hornbrook and R.G. Garrett from map 17-1965 by W.L. Davison and

Geological cartography by the Geological Survey of Canada

Base-map assembled by the Geological Cartography Unit from maps published at same scale by the Surveys and Mapping Branch 1963-1964.

Mean magnetic declination 1977, 8⁰19.8' East, decreasing 2.9' annually. Readings vary from 5⁰34.8' in the S.E corner to 11⁰10.2' in the NW corner of the map area

Elevation in feet above mean sea-level.

Geochemical Symbol and Data Presentation

The concentration of an element at a sample site is graphically represented as

one of 15 symbols, if a sample was collected but there is no data available a dot

is plotted. The symbols are symmetrically arranged so that they first increase in size to the eighth symbol and then increase in blackness to the fifteenth. The two small crosses at the low end of the scale are used to respectively denote concentrations below the analytical detection limit, or, in the data group containing the detection

limit. The data are grouped on a semi-logarithmic scale, i.e. 1,2,5,10,20,50,100 etc. Five decades can be spanned and this arbitrary division has been chosen for the continuing Canada wide series of maps constituting the National Geochemical Reconnaissance. The choice of symbols and the data groups they represent for any specific element

is based on the histogram and cumulative frequency plot for the total survey data from one, or more contiguous, open file sheets covered in one field season. The

eighth symbol is used for the model group as defined by the histogram, this group usually includes the median of the data as defined by the 0.5 (50%) point on the

cumulative frequency plot. Some, or all, of the remaining 14 symbols are chosen so as to achieve an appropriate graphical impact. An example of all 15 symbols is given

by the availability of ever increasing levels of knowledge in bedrock and surficial geology, and other environmental factors. Therefore, the raw data symbol maps are

only intended to assist the rapid inspection of the data for gross regional features. To fulfil the needs of a more specific and thorough interpretation, the raw symbol

again based on the total survey data, is presented below the histogram. This table

can be used along, or in conjuction, with the sample location map and data listings to indicate above threshold samples where they occur on the map. In many instances, the table will also illustrate, more clearly than the map, the dependence of mean

geochemical levels on bedrock type. It may often be also observed that whilst the total data appears to approximate a log-normal distribution the data for individual map or lithologic units appears to approximate a normal distribution. The proposed

factors, but one of these could be the presence of abnormal concentrations of the

To comprehensively study an area, all available geological, environmental and recorded data should be utilized. The data separation by bedrock type can often be

improved by constructing new data subsets and deriving local threshold levels based

element in a form of interest to the mineral explorationist.

bottom sediments and sample preparation and analytical causes.

thresholds presented are believed to be useful in interpreting the data from a mineral exploration viewpoint. Locations of samples with concentrations in excess of the threshold for the rock unit they appear to be derived from, should be studied carefully.

The above threshold concentration can be due to a wide range of geological and environmental

listings and any other knowledge available. To assist in the appraisal and modification of the data in terms of the symbol map bedrock geology, a table of summary statistics and proposed threshold values for each mapped bedrock unit, or broad lithologic unit,

maps should be modified using the field and analytical data provided in the data

The symbol maps, being based on the total survey data distributions, are unaffected

3 Metasedimentary gneiss, biotite-quartz-feldspar-gneiss.

W.W. Heywood, and map 14-1967 by W.L. Davison.

2 Metasedimentary schist and gneiss, quartzite.

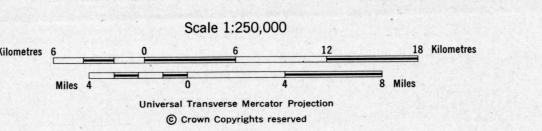
% ↑

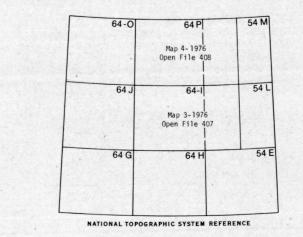
1 2 5 10 20 50 100 1000 10000 ppr

0.1 .2 .5 1 2 5 10 %

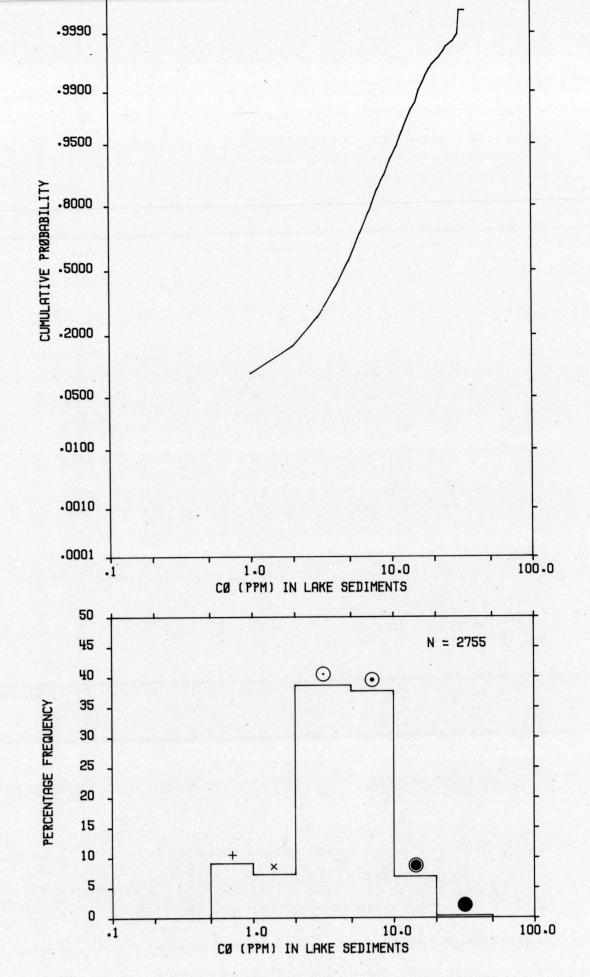
NATIONAL GEOCHEMICAL RECONNAISSANCE Map 4-1976
COBALT IN LAKE SEDIMENTS

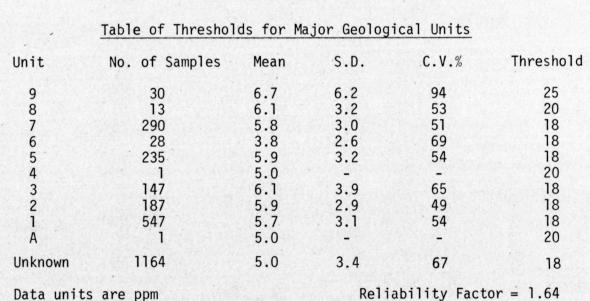
CANADA-MANITOBA SUBSIDIARY AGREEMENT ON MINERAL EXPLORATION AND DEVELOPMENT





64 P - 54 M W/2





NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 4 -1976 OPEN FILE 408

Resource Geophysics and Geochemistry Division

Geological Survey of Canada, Ottawa

Geochemistry and Federal-Provincial coordination by E.H.W. Hornbrook Analytical chemistry by J.J. Lynch Data monitoring by R.G. Garrett, N.G. Lund and D. Ellwood

Manitoba, Mineral Resources Division

Federal-Provicial coordination by J.F. Stephenson

Contractors
Sample collection by Trigg, Woollett & Associates Ltd.
Sample preparation by Golder Associates

Chemical analyses by Chemex Labs Ltd.

This map forms a series of 28 sheets released under Geological Survey of Canada, Open Files 407-408. The open files consist of data for 12 elements each, per cent loss on ignition and sample site location.

This map has been reprinted from a scanned version of the original map Reproduction par numérisation d'une carte sur papier

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 KIA OE8

> NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 4-1976 OPEN FILE 408 NORTHEASTERN MANITOBA, 1976 COBALT