

Geochemical Symbol and Data Presentation

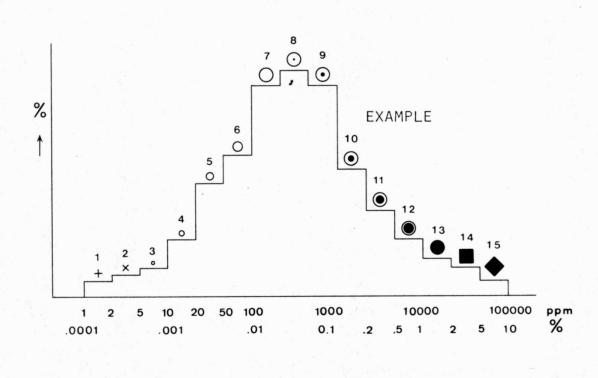
The concentration of an element at a sample site is graphically represented as one of 15 symbols. If a sample was collected but there is no data available a dot is plotted. The symbols are symmetrically arranged so that they first increase in size to the eighth symbol and then increase in blackness to 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 (above). 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 below.

The symbol maps, being based on the total survey data distributions, are unaffected 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 fulfill the needs of a more specific and thorough interpretation, the raw symbol maps should be modified using the field and analytical data provided in the data listings and any other knowledge available.

The data listings contain notes on survey and analytical methods, raw data listing with legend and statistics for total data as well as for data grouped on the basis of rock type.

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 on the most detailed and upto-date knowledge available.



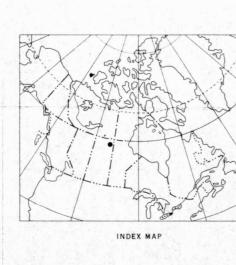
Copies of map material and listings of field observations and analytical data from which the material was prepared may be available at users ex-

pense by application to:

K.G. Campbell Corporation 880 Wellington Street Bay No. 238 Ottawa, Ontario

K1R 6K7 The data is also available in digital form. For further information please contact:

> The Director Computer Science Centre Department of Energy, Mines and Resources Ottawa, Ontario K1A OE4



Elevations in feet above mean sea level Mean magnetic declination 1978, 18⁰11.4' East, decreasing 6.3' annually. Readings vary from 16°20.0' in the SE corner to 20°11.4' in the NW corner of

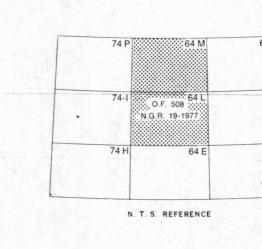
the map-area

HATCHET.

OPEN FILE 508 NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 19-1977 URANIUM RECONNAISSANCE PROGRAM

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

ZINC (ppm) Base-map assembled by the Geological Cartography Unit from maps published at the same scale by the Surveys and Mapping Branch in 1962, 1963



64 L, 64 M

Note: This legend is for the National Reconnaissance Map 19-1977, Open File 508. PRECAMBRIAN SEDIMENTARY COVER Athabasca Formation; predominantly fluviate sandstone [SNDS]* with minor shale and conglomerate Pronounced Unconformity Beneath the unconformity no stratigraphic order is implied by the sequence of the legend BASEMENT COMPLEX Migmatite [MGMT] and mylonite zones; complexes of mixed metasediment and granite 6 Marble [MRBL] and calc-silicate gneisses Amphibolite [AMPB] and hornblende-bearing gneisses; in part may be volcanic, intrusive or sedimentary in origin Mixed metasediments [MSDM]; undifferentiated schists and gneisses of pelitic, semi-pelitic and psammitic composition Pelitic schists [PCSC] and gneisses; essentially aluminous metasediments including cordierite -, sillimanite-, staurolite-, and granite-bearing biotite gneisses Psammites; essentially meta-arkose [MARK], quartzite and micaceous psammites Granite [GRNT], granodiorite, quartz monzonites; may be massive or gneissic, includes areas in which metasediments may be intimately * A four letter mnemonic name recorded as rock type as part of field observations Geological boundary..... Fault..... The legend modified and geology derived for this geochemical map from Geology Map of Saskatchewan, 1972.

LEGEND

Geological Survey of Canada Resource Geophysics and Geochemistry Division

> Department of Mineral Resources Saskatchewan Geological Survey

> > CONTRACTORS

Sample collection by Marshall Macklin Monaghan Ltd. Sample preparation by Golder Associates. Uranium in sediment chemical analyses by Atomic Energy of Canada Ltd. Other sediment chemical analyses by Chemex Labs Ltd. Water chemical analyses by Barringer Research Ltd.

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

This map forms one of a series of 14 sheets released under the Geological Survey of Canada, Open File 508. The Open File consists of maps of 11 elements, each for lake sediments, 2 elements for lake waters and sample site location.

> ZINC (ppm) OPEN FILE 508 NORTHEASTERN SASKATCHEWAN, 1977

