

COPPER (ppm)

G.S.C. OPEN FILE 868
YUKON AND NORTHWEST TERRITORIES, 1981
NAHANNI MAP (NTS 1051)

Geochemical Symbol and Data Presentation

The concentration of each element is represented by the actual value plotted adjacent to the sample site represented by a "+" symbol. In addition to enhance visual impact, values over the 75th percentile are designated by grey solid squares which are symmetrically arranged so that they increase in size from the 75th to the 99th percentile. The actual concentration range represented by each symbol is illustrated below with a histogram.

In addition to 25 geochemical maps, each Open File contains an appendix consisting of a short discussion of the geochemistry, survey and analytical methodologies, listing of field and analytical data, and statistical data. The statistical data is provided for the total data set as well as for data subsets grouped on the basis of major stratigraphic units.

CONCENTRATION	PERCENTILES
251. TO 470.	99TH TO MAX.
201. TO 250.	98TH TO 99TH
132. TO 200.	95TH TO 98TH
103. TO 131.	90TH TO 95TH
67. TO 102.	75TH TO 90TH

SELECTED MINERAL DEPOSITS AND OCCURRENCES

- Stratabound Zn-Pb (Lower Silurian Age)
- ▲ Stratabound Zn-Pb-Ba (Devonian Age)
- Stratabound Barite (Devonian Age)
- ◆ Replacement Zn, Pb (age unknown)
- Vein Zn, Pb, Ag, Au, Sb (age unknown)
- ▼ Skarn W, Zn (Cretaceous)

Note: Further information on each occurrence or deposit is given in the Appendix which accompanies this open file.

Geochemistry by W.D. Goodfellow
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Resource Geophysics and Geochemistry Division

CONTRACTORS

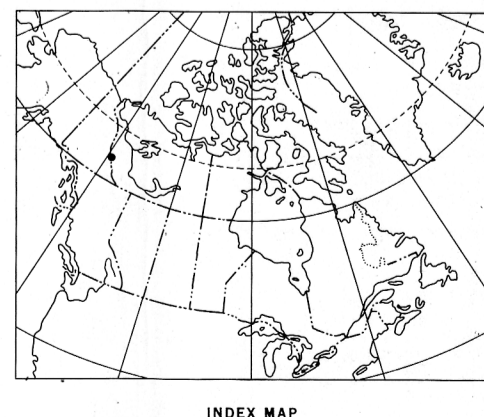
Sample collection by Marshall Macklin Monaghan Ltd., Toronto. Uranium in sediment chemical analysis by Nova Track Ltd., Vancouver. Other sediment chemical analysis by Bondar-Clegg and Company, Ottawa

This map forms one of a series of 26 maps released by the Geological Survey of Canada on Open File 868. Each Open File consists of maps for 19 elements for stream sediments, 5 elements for stream waters, and 1 each for water pH and sample site location.

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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
K1A 0E4



Mean magnetic declination 1982, 32058.1' East, decreasing 8.8 annually. Readings vary from 32044.2' in the SE corner to 3305.6' in the NW corner of the map.

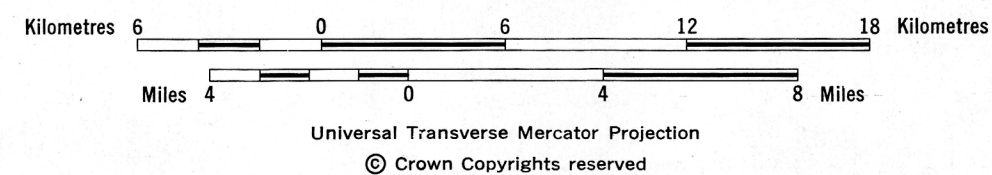
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NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 51-1981

STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY

YUKON AND NORTHWEST TERRITORIES, 1981
NAHANNI MAP (NTS 1051)

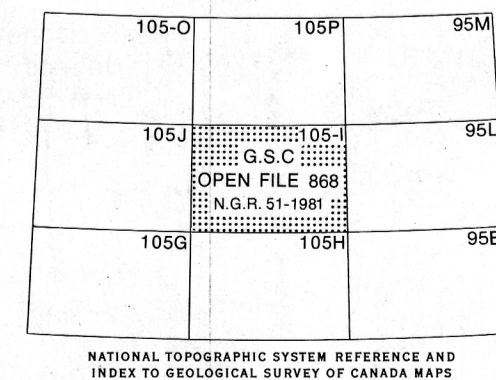
Scale 1:250,000



Universal Transverse Mercator Projection
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Elevation in feet above mean sea level

Base map drawn and printed by the
Army Survey Establishment R.C.E. 1949-54



LEGEND	
CRETACEOUS	Kgm Grey weathering, resistant, medium- to coarse-grained, megacrystic (K-feldspar), biotite-quartz monzonite
Mf	Pelitic hornfels: red-rust to brown weathering, extremely well indurated, massive, fine grained
Triassic	Tc Tan weathering, thin bedded, ripple cross-laminated siltstone, fine grained sandstone, and shale
Permian	Pt Orange to grey weathering, thin bedded, locally lenticular, pale green to blue-grey chert; minor dark green to brown weathering, pale green, silty shale
CARBONIFEROUS	Cp Brown weathering, recessive, thin bedded, blue-grey shale, black laminated quartz siltstone, and pale green shale; minor fine- to medium-grained quartz arenite
	Cs Grey weathering resistant, massive, fine- to medium-grained quartz arenite
	u0m0s Grey weathering, resistant, thin- to very thick-bedded, massive, chert pebble conglomerate, and medium- to coarse-grained, light- to dark-grey, chert-quartz arenite and wacke; minor brown weathering, blue-grey to black shale, siltstone, and slate
	u0m0p Brown weathering, recessive, thin bedded, laminated, blue-grey to black shale, siltstone, and slate; minor grey brown weathering, thin- to medium-bedded, fine- to medium-grained, chert-quartz arenite and wacke
DEVONIAN	u0m0p Black to gun-blue weathering, massive, chert and shale clast granule to pebble conglomerate with mud matrix; contains minor quartz sand; class commonly matrix supported
	u0m0p Black weathering, thin- to medium-bedded, black chert; minor black weathering, black, siliceous shale
	u0m0p Black, gun-blue or silvery white weathering, thin bedded, siliceous, black shale, chert, and slate; merges with mud to southwest by increase in proportion of chert
	u0m0p Light grey weathering, resistant, thin- to thick-bedded, fine- to medium crystalline, dark grey limestone
DEVONIAN	u0m0p Orange weathering, recessive, thin bedded, finely crystalline, dark blue-grey limestone
	u0m0p Orange-brown weathering, thin- to medium-bedded, finely crystalline, light- to dark-grey limestone
	u0m0p Light grey weathering, resistant, thin- to thick-bedded, fine- to medium crystalline, dark grey limestone, in part crinoidal
	u0m0p Dark grey weathering, recessive, thin bedded, platy, finely crystalline, black limestone; minor grey weathering, medium bedded, finely crystalline, grey limestone
DEVONIAN, SILURIAN AND ORDOVICIAN	u0m0p Dark grey weathering, thick bedded, finely crystalline black dolomite; white dolomite filling veins and vugs; sparse chert nodules
	u0m0p Light grey weathering, medium bedded, fine- to medium crystalline light- to dark-grey dolomite; member in middle part of unit of dark grey weathering, medium- to thick-bedded, fine- to medium crystalline, in part crinoidal, dark grey dolomite; top of unit marked by alternating light and dark grey dolomite
	u0m0p Blue-grey weathering, resistant, thin- to very thick-bedded, grey crinoidal limestone characterized by abundant crinoid stem fragments with twin axial canals; massive fine- to medium crystalline, grey limestone; minor limestone breccia
	u0m0p Dark grey weathering, thin- to medium-bedded, finely crystalline, black limestone
DEVONIAN, SILURIAN AND ORDOVICIAN	u0m0p Tan, buff or dark grey weathering, recessive, thin bedded, laminated, argillaceous, finely crystalline, black limestone; in the northeast, black weathering, finely crystalline, black, crinoidal limestone with crinoid stem fragments having twin axial canals occurs near top of unit
	u0m0p Blue-grey weathering, thin bedded, finely crystalline, porcellaneous, black or dark blue-grey limestone
	u0m0p Orange weathering, resistant, thick bedded, dolomitic, silty, grey mudstone characterized by discontinuous wavy black lamination and locally by abundant small pyrite cubes
	u0m0p Black, gun-blue or silvery white weathering, recessive, black slate; minor thin interbeds of finely crystalline, black limestone and black chert; merges with u0s to southwest by increase in proportion of chert, and with upper part of u0s to east by increase in proportion of limestone
DEVONIAN, SILURIAN AND ORDOVICIAN	u0m0p Black weathering, thin- to medium-bedded, dark grey to black chert; rare black siliceous shale; minor tan to brown weathering, recessive dark grey shale at base
	u0m0p White to grey weathering, thick- to very thick-bedded, massive, medium crystalline, grey dolomite, locally containing abundant nodules of black or grey chert
	u0m0p Grey to white weathering, medium- to thick-bedded, massive, fine- to medium crystalline, grey dolomite; in upper part minor thick beds of medium crystalline, black dolomite
	u0m0p Brick red weathering, thin- to thick-bedded, maroon mudstone; orange to grey weathering, thick bedded, fine- to medium crystalline, light coloured dolomite; medium bedded, medium- to coarse-grained, dolomitic, grey quartz arenite; thick bedded, finely crystalline, blue-grey limestone
SILURIAN, ORDOVICIAN AND CAMBRIAN	u0m0p White to orange weathering, massive, fine- to medium crystalline, grey dolomite
	u0m0p Rust-brown weathering, resistant, pyritic, amygdaloidal basalt; grey and rust-grey weathering, fissile, green tuff; minor dolomite
	u0m0p Buff to grey weathering, recessive, thin bedded, finely crystalline, dark grey to black limestone
	u0m0p Blue-grey weathering, thin bedded, finely crystalline, porcellaneous, black limestone, minor grey weathering, thin bedded, finely crystalline, grey dolomite
SILURIAN, ORDOVICIAN AND CAMBRIAN	u0m0p Grey to white weathering, thick bedded, massive, fine- to medium crystalline, grey to black dolomite; local dolomite breccia with large blocks of finely crystalline, grey dolomite in matrix of coarsely crystalline, white dolomite
	u0m0p White to buff weathering, laminated or thin bedded, finely crystalline, blue-grey limestone; includes in upper part northeast of Howard's Pass, thin bedded, finely crystalline, nodular, silty limestone; local thin bedded to massive, pale green, lapilli tuff
	u0m0p Tan to orange brown weathering, thin bedded, finely crystalline, blue-grey limestone, locally nodular; at base is minor thin bedded, fine grained, grey quartz arenite
	u0m0p Light grey weathering, resistant, thick bedded, massive, fine- to medium crystalline, grey dolomite
SILURIAN, ORDOVICIAN AND CAMBRIAN	u0m0p Tan to brown weathering, recessive, thin bedded, finely crystalline, grey limestone
	u0m0p Orange weathering, thin- to thick-bedded, finely crystalline, locally sandy, cream, orange, or grey dolomite; minor medium- to thick-bedded, medium grained, white quartz arenite; minor purple weathering, thin bedded, purple siltstone
	u0m0p upper - bright orange weathering, thin- to thick-bedded, finely crystalline light coloured dolomite middle - purple weathering, recessive, thin- to thick-bedded, brown to purple siltstone and dolomitic siltstone; minor thin bedded, orange weathering dolomite lower - light orange to brown weathering, resistant, medium- to thick-bedded, medium grained, grey quartz arenite and interbedded brown siltstone; thin to thick interbeds of orange weathering dolomite towards top
	u0m0p Grey to buff weathering, thin bedded, locally wavy bedded and nodular, finely crystalline blue-grey to black limestone; minor limestone conglomerate with rounded to subangular clasts of blue-grey weathering grey limestone and oolitic limestone in orange weathering, locally sandy, limestone matrix; upper 1/3 of u0m0p is white weathering, massive, finely crystalline, grey dolomite
CAMBRIAN	u0m0p Tan weathering, resistant, medium bedded, variably calcareous and dolomitic, blue-grey siltstone and mudstone; parallel lamination in grey to black disrupted to discontinuous wavy lamination
	u0m0p Brown to orange brown weathering, recessive, thin bedded, blue-grey slate and siltstone; minor fine grained subarkose to quartz arenite
	u0m0p Lenticular bodies of white weathering limestone conglomerate and minor blue-grey finely crystalline limestone; conglomerate clasts include fine grained blue-grey limestone, oolitic limestone, and archaeocyath; matrix is orange to grey weathering, fine grained, locally sandy limestone
	u0m0p Dark brown to rust weathering, thin- to thick-bedded, greenish grey siltstone; very fine grained quartz arenite and subarkose slates; southwest of South Nahanni River - dark brown weathering, pale green to blue-grey slate and siltstone, and minor greenish grey, very fine grained, quartz sandstone
CAMBRIAN AND MARYNAN	u0m0p Buff weathering massive dolomite
	u0m0p Maroon, purple or green weathering, recessive slate, thin bedded or laminated in like colours; minor thin intervals of thin- to medium-bedded, fine grained, pale green, quartz arenite to subarkose and interbedded pale green to tan slate
	u0m0p Orange, grey or tan weathering, thin- to medium-bedded, fine grained, pale green, quartz arenite to subarkose and interbedded pale green to tan slate
	u0m0p Grey to brown weathering, thin- to thick-bedded, coarse grained, calcareous, grey quartz arenite and subarkose; quartz pebble conglomerate; brown to pale green slate; minor thin bedded grey or white finely crystalline limestone; sandstone contains conspicuous blue quartz, minor plagioclase and orthoclase

Geology by S.P. Gordey 1977, 1978, 1979, 1980 (with contributions from previous work by S.L. Blusson, J.A. Roddick, and L.H. Green (1967))
Limit of outcrop.....
Geological boundary (defined, approximate, assumed or extrapolated beneath overburden).....
Fault, steeply dipping (defined, approximate, assumed or extrapolated beneath overburden).....
No analytical result
Geology by S.P. GORDEY (1981), Geological Survey of Canada, Open File 780

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