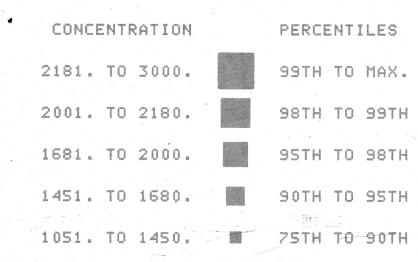
FLUORINE (ppm)

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.



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 Geological Survey of Canada 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

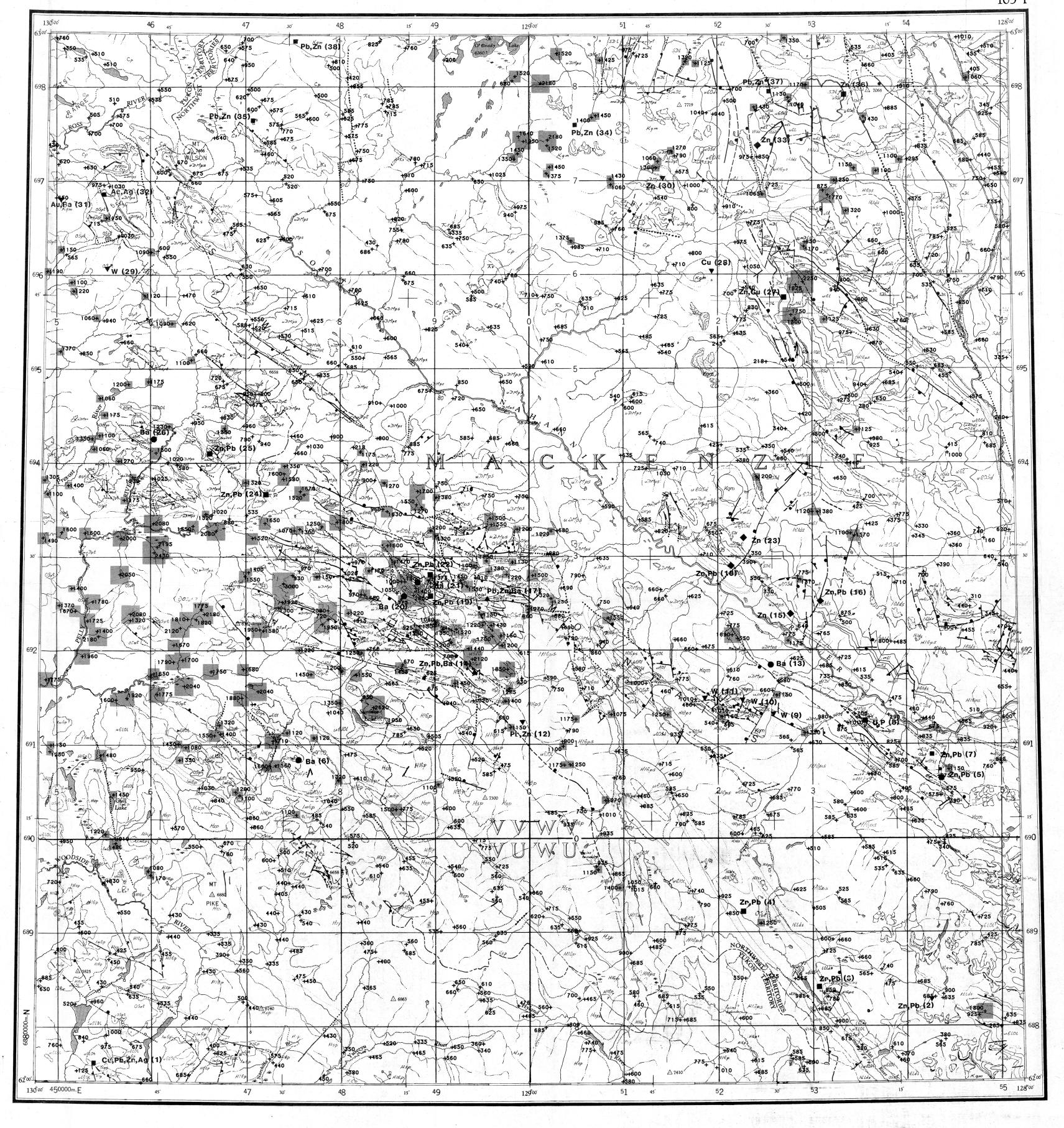
This map forms one of a series of 26 maps released by the Geological Survey of Canada on Open File 868. Each Open File consists of maps for 19 elements for stream sediments, 5 elements for stream waters, and 1 each for water pH and sample site location.

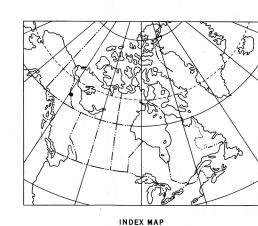
> The Director Geological Survey of Canada 601 Booth Street Ottawa, Ontario K1A OE8

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 OE4





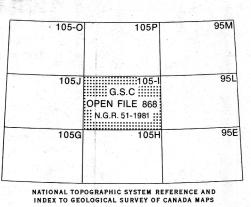


Mean magnetic declination 1982, 32°58.1' East, decreasing 8.8 annually. Readings vary from 32°44.2' in the SE corner to 33°5.6' . in the NW corner of the map.

FLUORINE (ppm) G.S.C. OPEN FILE 868 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 © Crown Copyrights reserved

Elevation in feet above mean sea level Base map drawn and printed by the Army Survey Establishment R.C.E. 1949-54



Kqm	Grey weathering, resistant, medium-to coarse-grained, megacrystic (K-feldspar), biotite quartz monzonite
hf	Pelitic hornfels: red-rust to brown weathering, extremely well indurated, massive, fine grained Carbonate hornfels: white to grey weathering, extremely well indurated, fine-to coarse crystalline; large tremolite porphyroblasts abundant in hornfelsed u60L
Ts	Tan weathering, thin bedded. ripple cross-laminated siltstone, fine grained sandstone, and stale
Pt	Orange to grey weathering, thin bedded, locally lenticular, pale green to blue-grey chert; minor dark dreen to brown weathering, pale green, splintery shale
Ср	Brown weathering, recessive, thin bedded, blue-grey shale, black laminated quartz siltstone, and pale green shale; minor fige- to medium-grained quartz arenite
Cs uDMps	Grey weathering resistant, massive, fine-to medium-grained quartz arenite 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 Brown weathering, recessive, thin bedded, laminated, blue-grey to black shale, siltstone, and slate; minor grey
•	brown weathering, recessive, thin bedded, familiated, blue-grey to black shall brown weathering, thin- to medium-bedded, fine- to medium-grained, chert-quartz arenite and wacke Black to gun-blue weathering, massive, chert and shale clast granule to pebble conglomerate with mud matrix;
muDpt	Contains minor quartz sand; clasts commonly matrix supported Black weathering, thin- to medium-bedded, black chert; minor black weathering, black, siliceous shale
	Black, gun-blue or silvery white weathering, thin bedded, siliceous, black shale, chert, and slate; merges with muDt to southwest by increase in proportion of chert
mmDI2	Light grey weathering, resistant, thin- to thick-bedded, fine- to medium crystalline, dark grey limestone
mDI	Orange weathering, recessive, thin bedded, finely crystalline, dark blue-grey limestone Orange-brown weathering, thin- to medium-bedded, finely crystalline, light- to dark-grey limestone
<u>1</u> mDI1	Light grey weathering, resistant, thin- to thick-bedded, fine- to medium crystalline, dark grey limestone, in part crinoidal
IDI	Dark grey weathering, recessive, thin bedded, platy, finely crystalline, black limestone; minor grey weathering, medium bedded, finely crystalline, grey limestone
<u>m</u> I Dd	Dark grey weathering, thick bedded, finely crystalline black dolomite; white dolomite filling veins and vugs; sparse chert nodules
IDd	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;
<u>u</u> IDI	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
SDI	Dark grey veathering, thin- to medium-bedded, finely crystalline, black limestone
	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
OSpt	with crinoid stem fragments having twin axial canals occurs near top of unit Blue-grey weathering, thin bedded, finely crystalline, porcellaneous, black or dark blue-grey limestone
	Orange weathering, resistant, thick bedded, dolomitic, silty, grey mudstone characterized by discontinuous wispy black lamination and locally by abundant small pyrite cubes
	Black, gun-blue or silvery white weathering, recessive, black slate; minor thin interbeds of finely crystalline, black limestone and black chert; merges with OSt to southwest by increase in proportion
	of chert, and with upper part of ueOl to east by increase in proportion of limestone 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
uOSd	White to grey weathering, thick- to very thick-bedded, massive, medium crystalline, grey dolomite, locally containing abundant nodules of black or grey chert
u60Sd	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
u60d u60I	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 quar
	arenite; thick bedded, finely crystalline, blue-grey limestone White to orange weathering, massive, fine- to medium crystalline, grey dolomite
	Rust-brown weathering, resistant, pyritic, amydgaloidal basalt; grey and rust-grey weathering, fissile, green tuff; minor dolomite
	Buff to grey weathering, recessive, thin bedded, finely crystalline, dark grey to black limestone
u60d1	Blue-grey weathering, thin bedded, finely crystalline, porcellaneous, black limestone, minor grey weathering, thin bedded, finely crystalline, grey dolomite
	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
ne101	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
uGI	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
mGd	Light grey weathering, resistant, thick bedded, massive, fine- to medium crystalline, grey dolomite
mGI	Tan to brown weathering, recessive, thin bedded, finely crystalline, grey limestone Orange weathering, thin- to thick-bedded, finely crystalline, locally sandy, cream, orange, or grey
IEIds	dolomite; minor medium- to thick-bedded, medium grained, white quartz arenite; minor purple weathering, thin bedded, purple siltstone
	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
	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 IGId is
Im€p	white weathering, massive, finely crystalline, grey dolomite Tan weathering, resistant, medium bedded, variably calcareous and dolomitic, blue-grey siltstone and mudstone parallel lamination in grey to black disrupted to discontinuous wispy lamination
	Brown to orange brown weathering, recessive, thin bedded, blue-grey slate and siltstone; minor fine grained subarkose to quartz arenite
	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 archeocyatha; matrix is orange to grey weathering, fine grained, locally sandy limestone
HIEps	Dark brown to rust weathering, thin- to thick-bedded, greenish grey siltstone; very fine grained quartz areni and/or subarkose; slate; 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
	Buff weathering massive dolomite
	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
НІЄР	: 사람들은 마다 가장 마다 가장 마다를 하는데 하는데 되었다. 그런데 마다 아니라 아니라 아니라 다른데
HIEp	Orange, grey or tan weathering, thin- to medium-bedded, fine grained, pale green, quartz arenite to subarkose and interbedded pale green to tan slate
HI6p Hsp	Orange, grey or tan weathering, thin- to medium-bedded, fine grained, pale green, quartz arenite to subarkose and interbedded pale green to tan slate
Geology by by S.L. Bl	Orange, grey or tan weathering, thin- to medium-bedded, fine grained, pale green, quartz arenite to subarkose and interbedded pale green to tan slate 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 S.P. Gordey 1977, 1978, 1979, 1980 (with contributions from previous work 'usson, J.A. Roddick, and L.H. Green (1967))
Geology by by S.L. Bl Limit of o Geological	Orange, grey or tan weathering, thin- to medium-bedded, fine grained, pale green, quartz arenite to subarkose and interbedded pale green to tan slate 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 S.P. Gordey 1977, 1978, 1979, 1980 (with contributions from previous work)
	TS Pt Cp Cs UDMps mmDI2 mDI mmDI1 InDI InDI IDI IDI IDI IDI IDI IDI IDI I

Canada, Open File /80

FLUORINE (ppm) G.S.C. OPEN FILE 868 YUKON AND NORTHWEST TERRITORIES, 1981

NAHANNI MAP (NTS 1051)

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