

pH in water

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 "x" 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
7.61 TO 8.00	33TH TO 51TH
7.21 TO 7.60	21TH TO 33TH
6.81 TO 7.20	15TH TO 21TH
6.41 TO 6.80	9TH TO 15TH
6.01 TO 6.40	8TH TO 9TH
5.61 TO 6.00	7TH TO 8TH
3.41 TO 5.60	MIN. TO 7TH

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.

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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:

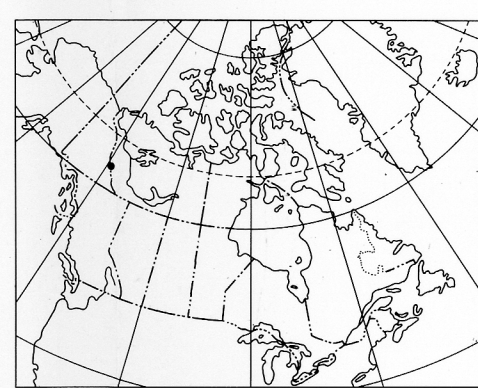
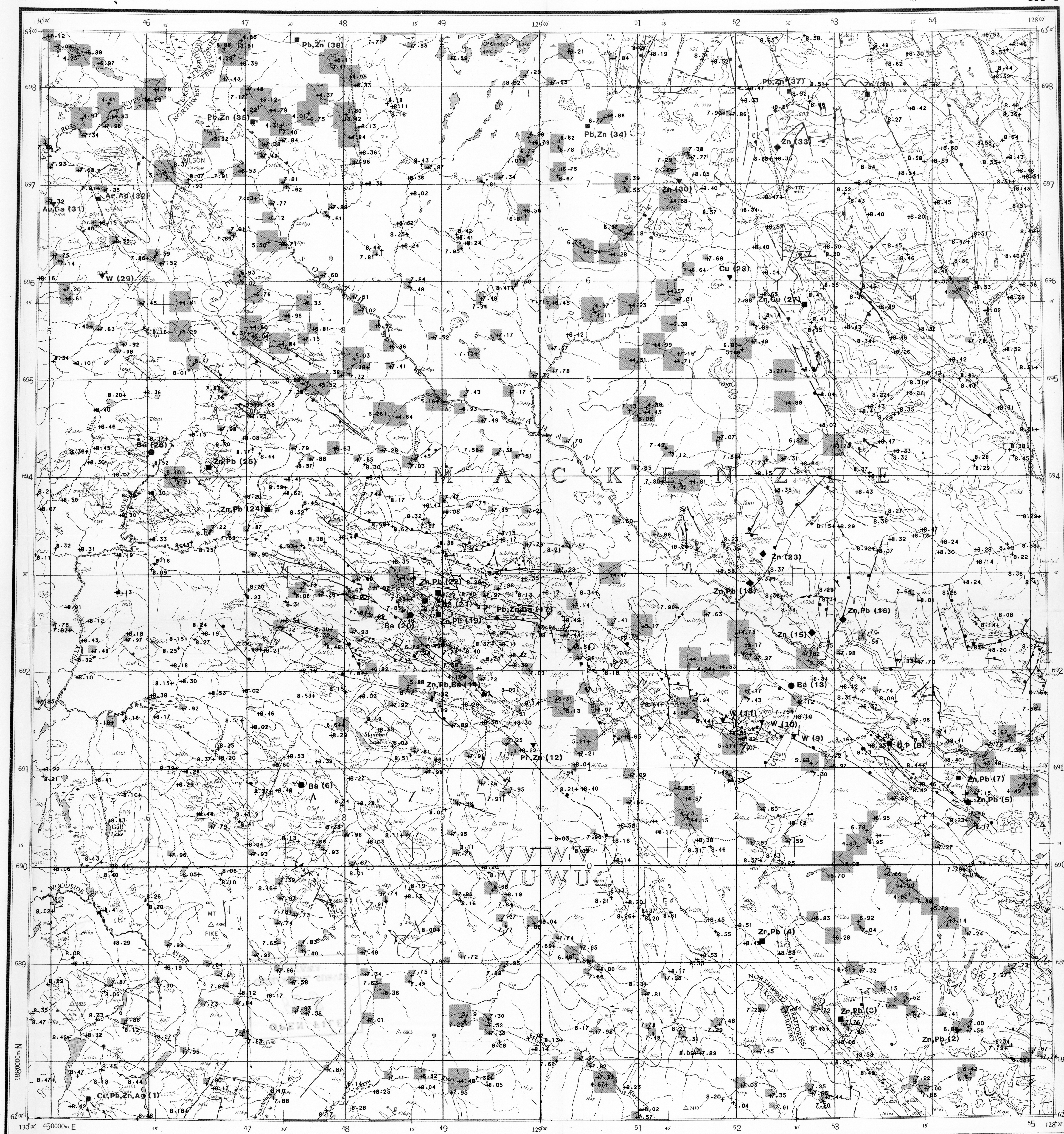
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GEOLOGICAL SURVEY OF CANADA



COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES



Mean magnetic declination 1982, 32°05.1' East, decreasing 8.8 annually. Readings vary from 32°04.2' in the SE corner to 33°05.6' 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)

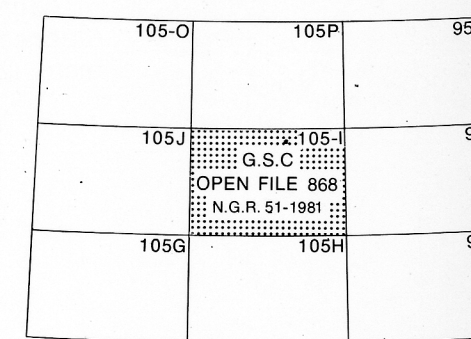
Scale 1:250,000

Kilometres 6 0 12 18 Kilometres
Miles 4 0 4 8 Miles

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



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

LEGEND

CRETACEOUS	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 u60.
TRIASSIC	ts	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 shale; minor fine to medium-grained quartz arenite
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
	u0Mps	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 waste; 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, thin- to medium-bedded, fine- to medium-grained, chert-quartz arenite and waste
		Black to gun-blue weathering, massive, chert and shale clast granule to pebble conglomerate with mud matrix; contains minor quartz sand; clasts commonly matrix supported
	mu0pt	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 mud to southwest by increase in proportion of chert
DEVONIAN	mm02	Light grey weathering, resistant, thin- to thick-bedded, fine- to medium crystalline, dark grey limestone
	m01	Orange weathering, recessive, thin bedded, finely crystalline, dark blue-grey limestone
	mm011	Orange-brown weathering, thin- to medium-bedded, finely crystalline, light- to dark-grey limestone
	ln011	Light grey weathering, resistant, thin- to thick-bedded, fine- to medium crystalline, dark grey limestone, in part crinoid
	l01	Dark grey weathering, recessive, thin bedded, platy, finely crystalline, black limestone; minor grey weathering, medium bedded, finely crystalline, grey limestone
	m0d	Dark grey weathering, thick bedded, finely crystalline black dolomite; white dolomite filling veins and vugs; sparse chert nodules
	l0d	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
	u01	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
	S01	Dark grey weathering, thin- to medium-bedded, finely crystalline, black limestone
DEVONIAN, SILURIAN AND ORDOVICIAN		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
		Blue-grey weathering, thin bedded, finely crystalline, porcellaneous, black or dark blue-grey limestone
	05pt	Orange weathering, resistant, thick bedded, dolomitic, silty, grey mudstone characterized by discontinuous wavy 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 05t to southwest by increase in proportion of chert, and with upper part of u01 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
	u05d	White to grey weathering, thick- to very thick-bedded, massive, medium crystalline, grey dolomite, locally containing abundant nodules of black or grey chert
	u05d	Grey to white weathering, medium- to thick-bedded, massive, fine- to medium crystalline, grey dolomite; in upper part minor thin beds of medium crystalline, black dolomite
	u06d	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
	u06d	White to orange weathering, massive, fine- to medium crystalline, grey dolomite
	u001	Rust-brown weathering, resistant, pyritic, amygdaloidal basalt; grey and rust-grey weathering, fissile, green tuff; minor dolomite
	u001	Buff to grey weathering, recessive, thin bedded, finely crystalline, dark grey to black limestone
	u001	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
	u0101	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
	u61	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
	u6d	Light grey weathering, resistant, thick bedded, massive, fine- to medium crystalline, grey dolomite
	u61	Tan to brown weathering, recessive, thin bedded, finely crystalline, grey limestone
	l61ds	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
		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; locally thin interbeds of orange weathering dolomite towards top
CAMBRIAN		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 l61d is white weathering, massive, finely crystalline, grey dolomite
	l61p	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
		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 archeocyath; matrix is orange to grey weathering, fine grained, locally sandy limestone
	l161ps	Dark brown to rust weathering, thin- to thick-bedded, greenish grey siltstone; very fine grained quartz arenite 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
	l161p	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
		Orange, grey or tan weathering, thin- to medium-bedded, fine grained, pale green, quartz arenite to subarkose and interbedded pale green to tan slate
	l161p	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 chloritoid and orthoclase

Geology by S.P. Gordey, 1977, 1978, 1979, 1980 [with contributions from previous work by S.L. Blusson, J.A. Rodrick, 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; bars on downthrown side).....

No analytical result.....

Geology by S.P. GORDEY (1981), Geological Survey of Canada, Open File 860

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