

SURFICIAL GEOLOGY

- Thermokarst depression developed on alluvial floodplain
- Pits and kettles developed on gravelly glaciofluvial plain
- Organic deposits mantling lacustrine floodplain, glaciofluvial plain, or less commonly, moraine deposits
- Undivided surficial deposits; includes alluvium, glacial till, glaciofluvial and glaciolacustrine deposits, ice contact deposits, colluvium, volcanic ash, loess, and scattered bedrock exposures.
- Colluvium; poorly sorted blanket of rubble commonly <3 m thick overlying bedrock, ubiquitous in unglaciated terrain.
- Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features.

Symbols

- Surficial deposit boundary
- Limit of Reid ice advance, maximum extent of glaciation
- Major meltwater channels, outwash deposits, indicating direction of flow
- Drumlinoid form; rock drumlin, crag and tail, fluted bedrock or till, direction of movement not inferred
- Esker, direction of flow indicated

Sources of information:
Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968, (1:1,000,000 scale) to accompany GSC Paper 68-34.
Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada (1:5,000,000 scale).
Rampton, V.N. (1977) Surficial Geology and Geomorphology, Koidern Mountain - Yukon Territory, Geological Survey of Canada, Map 5-1978, 1:100,000 scale.
(1977) Surficial Geology and Geomorphology, Mirror Creek - Yukon Territory, Geological Survey of Canada, Map 4-1978, 1:100,000 scale.
Templeman-Kluit, D.J. (1973) Geology, Snag - Yukon Territory, Geological Survey of Canada, Map 16-1973 (1:250,000 scale) to accompany GSC Paper 73-41.

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Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared, are available from:

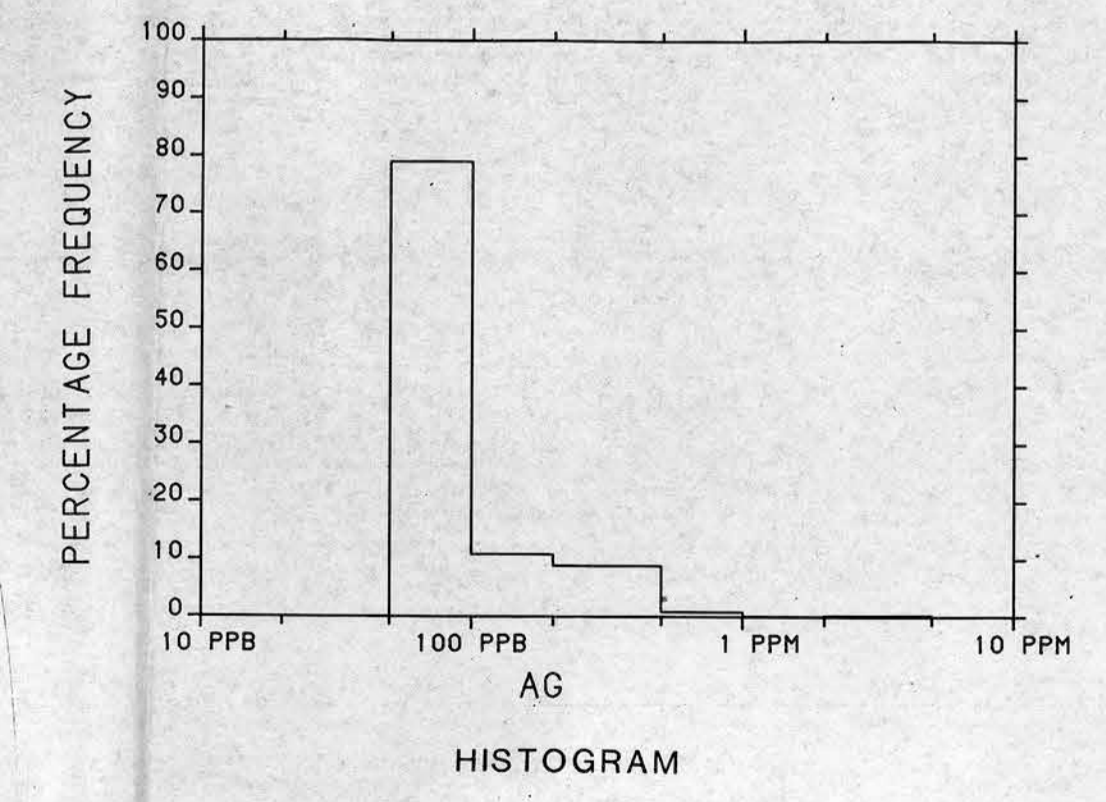
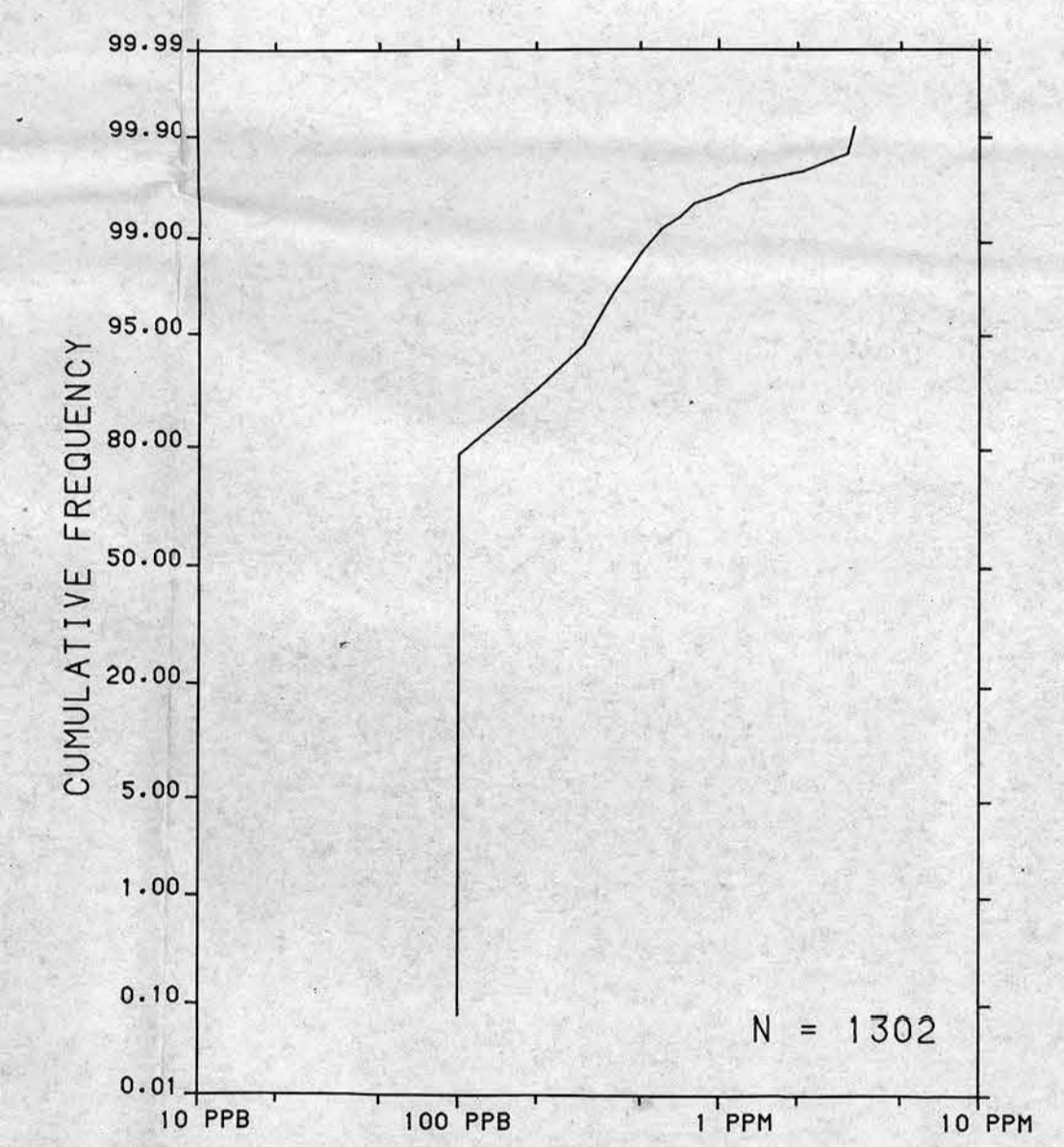
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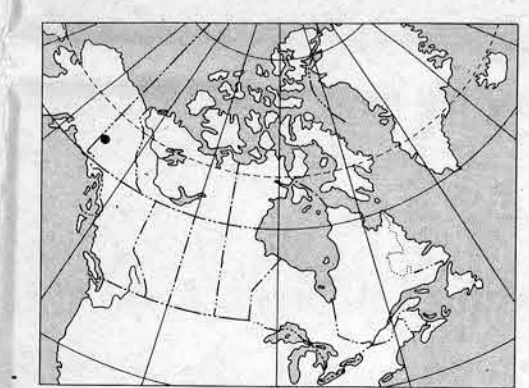
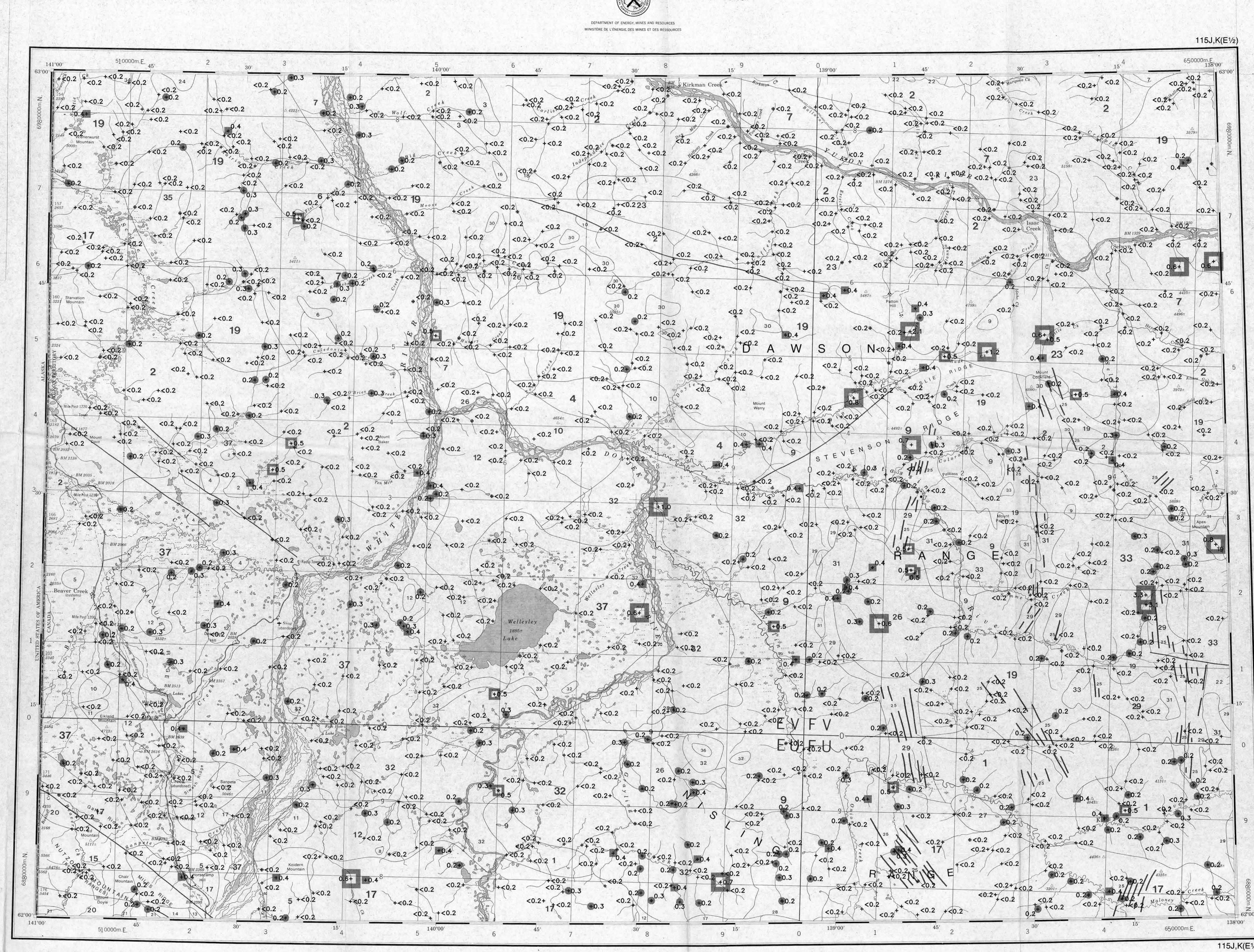
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The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d²) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched, or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.



CONCENTRATION	FREQUENCY
0.6 to 3.3	N = 15 (1.2%)
0.5	N = 15 (1.2%)
0.4	N = 44 (3.4%)
0.2 to 0.3	N = 199 (15.3%)
<0.2	N = 1029 (79.0%)



Elevation in feet above mean sea level

Mean magnetic declination 1987, 29°37' East, decreasing 13.4' annually. Readings vary from 29°37'E in the SE corner to 29°32'E in the NW corner of the map area

SILVER (ppm)
STREAM SEDIMENTS
GSC OPEN FILE 1363
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 99-1986
CANADA - YUKON
SUBSIDIARY AGREEMENT ON MINERAL RESOURCES (1985-1989)
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
SOUTH-WEST YUKON, 1986

Scale 1:250 000 - Echelle 1/250 000

Base map at the same scale published by the Surveys and Mapping Branch in 1971

Universal Transverse Mercator Projection
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LEGEND

QUATERNARY

- 37 Q5 64* Glacial and surficial deposits

TERTIARY AND QUATERNARY

- 36 PPV 63 Olivine basalt

PALEOCENE AND PLEISTOCENE

- 35 LTG 62 Rhyolite porphyry, granite, granodiorite

OLIGOCENE AND MIOCENE

- 34 OMA 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal

CARMACKS GROUP

- 33 OMCV 61 Andesite, basalt, breccia
- 32 OMO 61 DONJEX: Tuff, breccia

Eocene

- 31 HNS 59 Acid to intermediate tuff, breccia

MOUNT NANSSEN GROUP

- 30 TC 58 CASINO: Tuff, ignimbrite, breccia
- 29 TTP 58 Feldspar porphyry dykes, flow
- 28 TTD 58 Andesite, porphyritic basalt flows and dykes

EARLY TERTIARY

- 27 ETG 57 Granodiorite, granite
- 26 ETGA 57 Alaskite, granite, quartz monzonite
- 25 FPPP 57 Feldspar porphyry dykes

CRETACEOUS

- 24 KY 52 Syenite, monzonite
- 23 KG 52 Granite
- 22 KOM 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
- 21 KSDM 52 G⁺-diorite, quartz diorite, diorite, agmatite complex

JURASSIC AND CRETACEOUS

DECADEASH GROUP

- 20 JKD 51 Argillite, greywacke, conglomerate, volcanics

TRIASSIC

- 19 TGM 42 Foliated hornblende granodiorite, quartz

MESOZOIC UNDIVIDED

- 18 PM 41 Porphyritic quartz monzonite
- 17 MSD 41 Granodiorite, quartz monzonite
- 16 MDI 41 Diorite

PERMIAN AND TRIASSIC

- 15 PTV 40 Greenstone, greywacke, shale, limestone
- 14 PTV 40 Greenstone, diorite
- 13 PTB 40 Pyroxenite, serpentinite

PALEOZOIC AND MESOZOIC UNDIVIDED

- 12 PMW 40 Basic to intermediate volcanic rocks
- 11 PMB 40 Hornblende gabbro
- 10 PMB 40 Ultramafic rocks

PALEOZOIC UNDIVIDED

- 9 PN 09 NASTINA: Graphitic quartzite, schist
- 8 PC 09 Limestone
- 7 PGM 09 PELLY GNEISS: Foliated to gneissic granodiorite
- 6 PM 09 Amphibolite, schist, quartzite
- 5 PTP 09 Chert, argillite, quartzite
- 4 PV 09 Greenstone, amphibolite

CARBONIFEROUS AND PERMIAN

- 3 CPS 35 Quartz-muscovite schist
- 2 CSPM 35 Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX

MADRINIAN AND CAMBRIAN

- 1 HCSM 08 Schist, gneiss, quartzite

*A mnemonic code assigned to rock types and recorded as part of field observations.

Geological boundary

Fault

No analytical result

Field duplicate sample sites

Geological base and legend are derived from:
Gabrielse, H., Templeman-Kluit, D.J., Blusson, S.L. and Campbell, R.B. (1980) Map 1362A, MacMillan River, Yukon - District of Mackenzie - Alaska, NTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada. 1:1,000,000 Scale.