

- SURFICIAL GEOLOGY**
- Thermokarst depression developed on alluvial floodplain
 - Organic deposits mantling lacustrine floodplain of silt and clay, or less commonly, moraine or eolian deposits
 - Undivided surficial deposits; includes alluvium, glacial till, glaciofluvial and glaciolacustrine deposits, ice contact deposits, colluvium, volcanic ash, loess, and scattered bedrock exposures.
 - Glacial ice, snow, and firn veneer with seasonal bedrock exposures.
 - Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features.

- Symbols**
- Surficial deposit boundary
 - Major meltwater channels, outwash deposits, indicating direction of flow
 - Glacial lamination parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow indicated
 - Drumlinoid form; rock drumlin, crag and tail, fluted bedrock or till, direction of movement inferred, 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.
 Muller, J.E. (1966) Geology Klwane Lake - Yukon Territory, Geological Survey of Canada Map 1177A, (1:253 440 scale), to accompany GSC Memoir 340.
 Prest, V.K., Grant, D., 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, Burwash Creek - Yukon Territory, Geological Survey of Canada, Map 6-1978, 1:100 000 scale.
 Surficial Geology and Geomorphology, Generc River - Yukon Territory, Geological Survey of Canada, Map 7-1978, 1:100 000 scale.
 Surficial Geology and Geomorphology, Congdon Creek - Yukon Territory, Geological Survey of Canada, Map 8-1978, 1:100 000 scale.

Geological Survey of Canada
 Mineral Resources Division
 Exploration Geochemistry Subdivision

CONTRACTORS
 Sample collection by Monaghan Delph Miller Limited, Don Mills, Ontario
 Sample preparation by Golder Associates, Ottawa

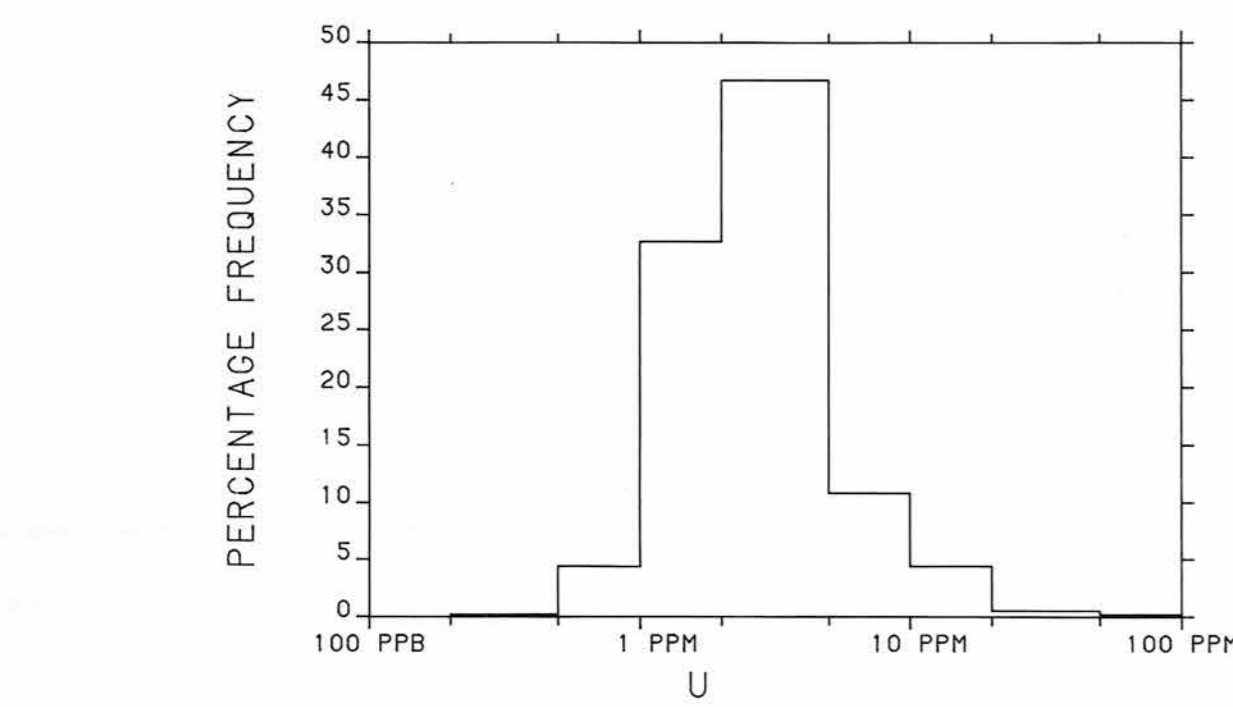
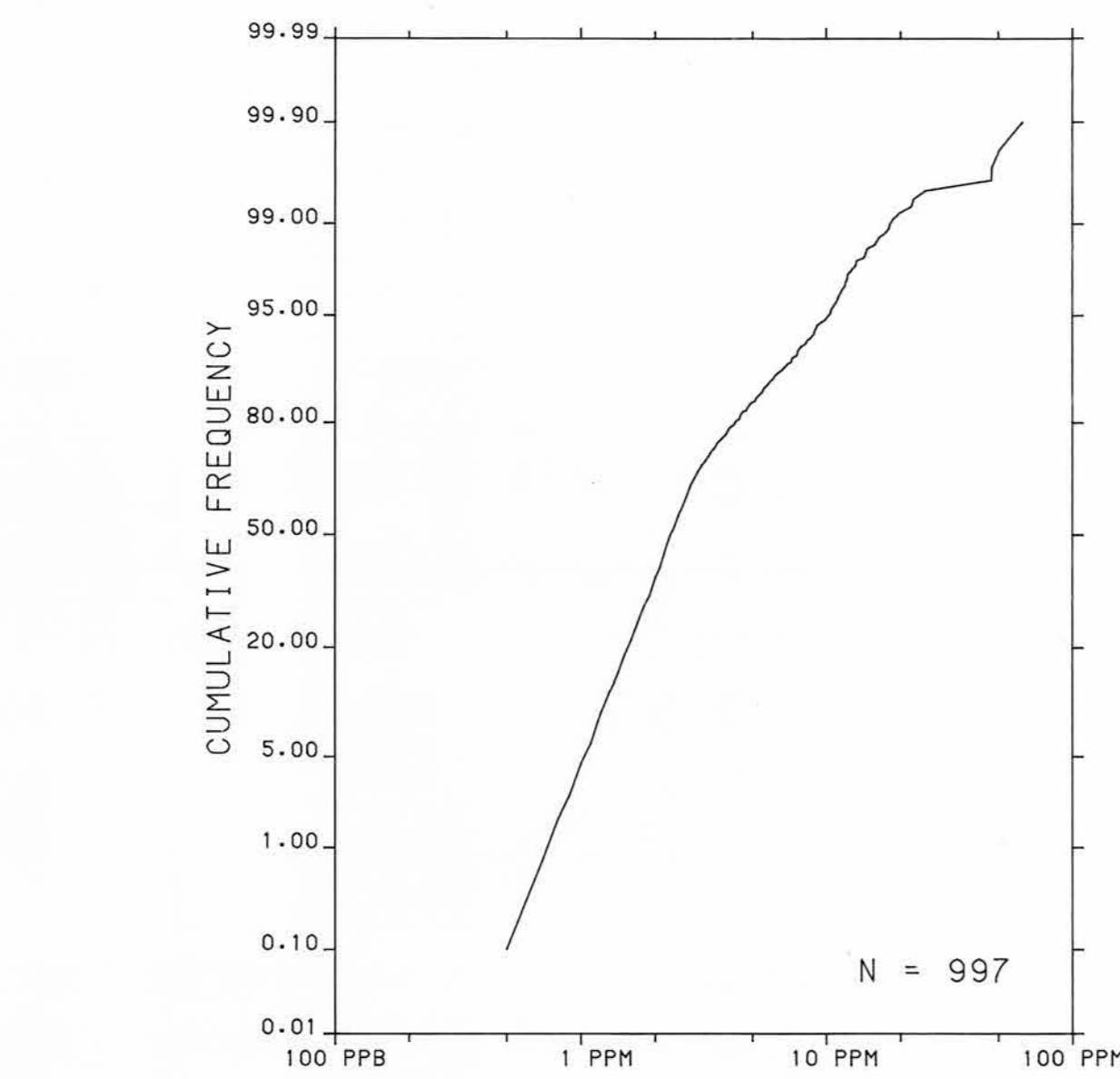
Sediment chemical analyses by Bondar Clegg and Company Ltd., Ottawa, Ontario
 Au analyses by Chemex Labs Limited, Vancouver
 Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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

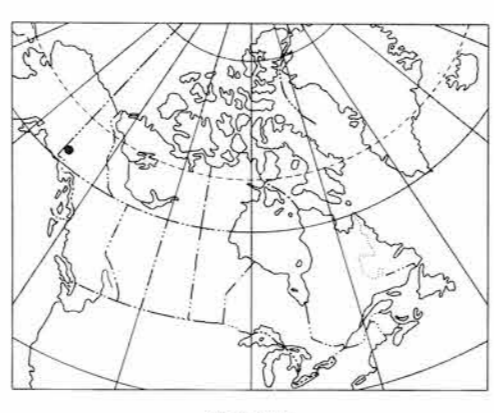
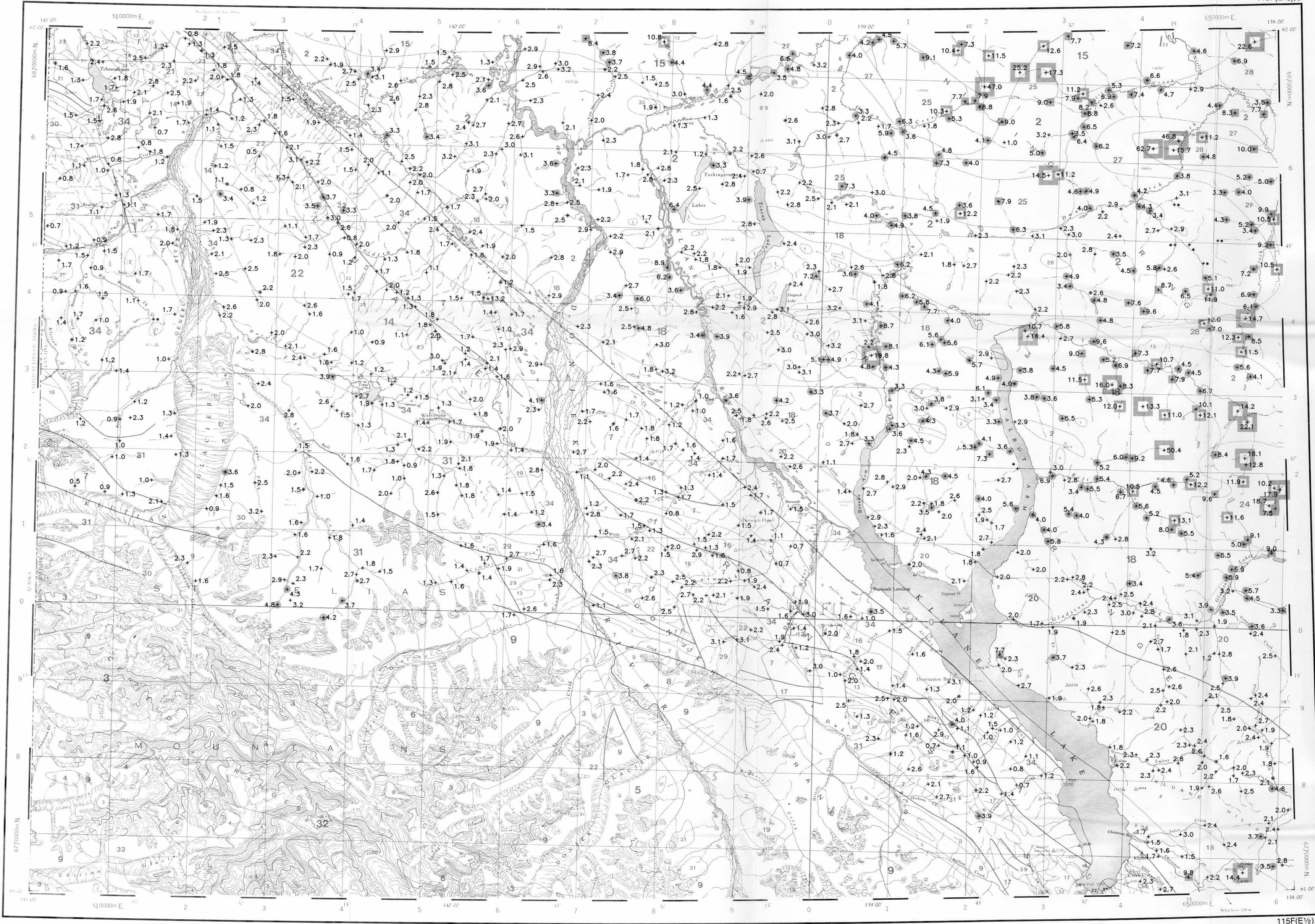
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Digital data are available on IBM-PC compatible diskette from:
 Geological Survey of Canada
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 601 Booth St.
 Ottawa, Ontario K1A 0E8
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The regional 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	N =	%
13.3 to 62.7	+	20	(2.0%)
10.2 to 13.2	•	30	(3.0%)
7.0 to 10.1	•	50	(5.0%)
3.3 to 6.9	•	189	(19.0%)
0.5 to 3.2	+	708	(71.0%)

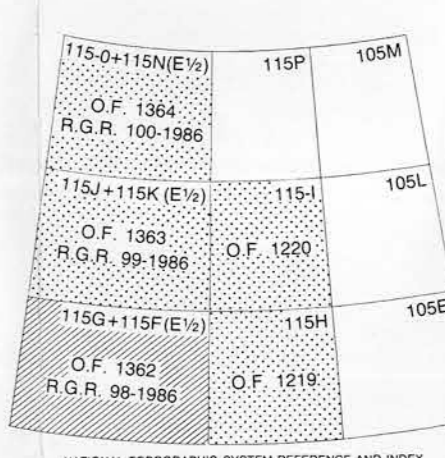


Elevation in feet above mean sea level
 Mean magnetic declination 1987, 28°52' East, decreasing 13.3' annually. Readings vary from 28°52' E in the SE corner to 28°46' E in the NW corner of the map area

URANIUM (ppm)
 STREAM SEDIMENTS
 GSC OPEN FILE 1362
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 98-1986
 CANADA - YUKON
 SUBSIDIARY AGREEMENT ON MINERAL RESOURCES (1985-1989)
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
 SOUTH-WEST YUKON, 1986

Base map at the same scale published by the Surveys and Mapping Branch in 1961

Scale 1:250 000 - Echelle 1/250 000
 Kilometers 0 5 10 15 20
 Universal Transverse Mercator Projection
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- LEGEND**
- QUATERNARY
 PLEISTOCENE AND RECENT
 34 Q5 64* Glacial and surficial deposits
- TERTIARY
 33 TQM 57 Quartz monzonite, granodiorite
 32 TGD 57 Quartz diorite, granodiorite
 MIOCENE AND PLEIOCENE
 31 MPV 62 MARGELL: Basalt, andesite pyroclastics, sediments
 LATE TERTIARY
 30 LTF 62 Felsite, granite porphyry
 OLIIGOGENE AND MIOCENE
 29 OMA 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal
 LOWER (?) TERTIARY
 28 TFP 58 Felspar porphyry dykes, flows
 27 TWD 58 Andesite, porphyritic basalt flows, dykes
 EARLY TERTIARY
 26 ETG 57 Granodiorite, granite
 25 ETGA 57 Alaskite, granite, quartz monzonite
 24 ETM 57 Granite, quartz monzonite
 23 FPPP 57 Felspar porphyry dykes
- CRETACEOUS
 22 KGM 52 Granodiorite, quartz diorite, diorite, agmatite complex
- JURASSIC AND CRETACEOUS
 DEZADEASH GROUP
 21 JKO 51 Argillite, greywacke, conglomerate, volcanics
 20 JKI 51 KLUANE: Serpentic, biotitic schist, gneiss, amphibolite
 19 JKD 51 Granodiorite, quartz diorite, quartz monzonite, diorite
- TRIASSIC
 18 TGD 42 RUBY RANGE: Granodiorite
- UPPER TRIASSIC
 17 UTS 45 CHITSLINE, McCARTHY: Limestone, dolomite, shale
 16 UTM 45 NIKOLAI: Greenstone, basalt, andesite, limestone
- MESOZOIC UNDIVIDED
 15 MGD 41 Granodiorite, quartz monzonite
- PERMIAN AND TRIASSIC
 14 PTY 40 Greenstone, diorite
 13 PTB 40 Pyroxenite, serpentinite
- PALEOZOIC AND MESOZOIC UNDIVIDED
 12 PMW 40 Basic to intermediate volcanic rocks
- PALEOZOIC UNDIVIDED
 11 PM 09 NASINA: Graphitic quartzite, schist
 10 PTP 09 Chert, argillite, quartzite
 9 PS 09 Greywacke, argillite, limestone; local basalt, andesite, volcanoclastic sediments
- EARLY PALEOZOIC
 8 EPUB 09 Gabro complex
- PERMIAN
 SKOLAI GROUP
 7 PS 36 Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestone, conglomerate
- PENNSYLVANIAN AND PERMIAN
 6 PPM 35 Quartz monzonite
 5 PPD 35 Granodiorite, diorite, agmatite complex
 4 PPD 35 Quartz diorite, diorite, granodiorite
- DEVONIAN
 3 DC 25 Limestone, marble
- HADRYNTAN AND CAMBRIAN
 2 HCSN 08 Schist, gneiss, quartzite
- HADRYNTAN
 1 HC 07 Crystalline limestone

*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:
 Geology, H.L. Tupper, Department of Geology, University of British Columbia, S.L. and Campbell, R.B. (1980) Map 1398A, Macmillan River, Yukon - District of Mackenzie - Alaska, H.S. Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada, 1:1,000,000 Scale.