

- 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, D.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 S-1970, 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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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

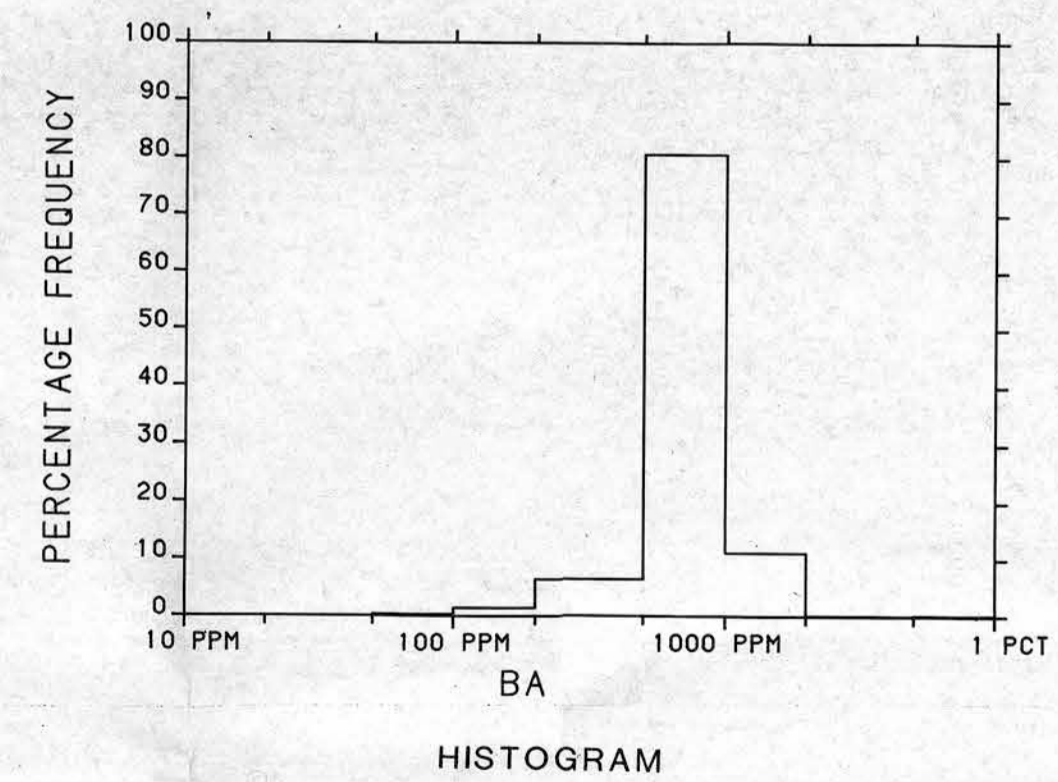
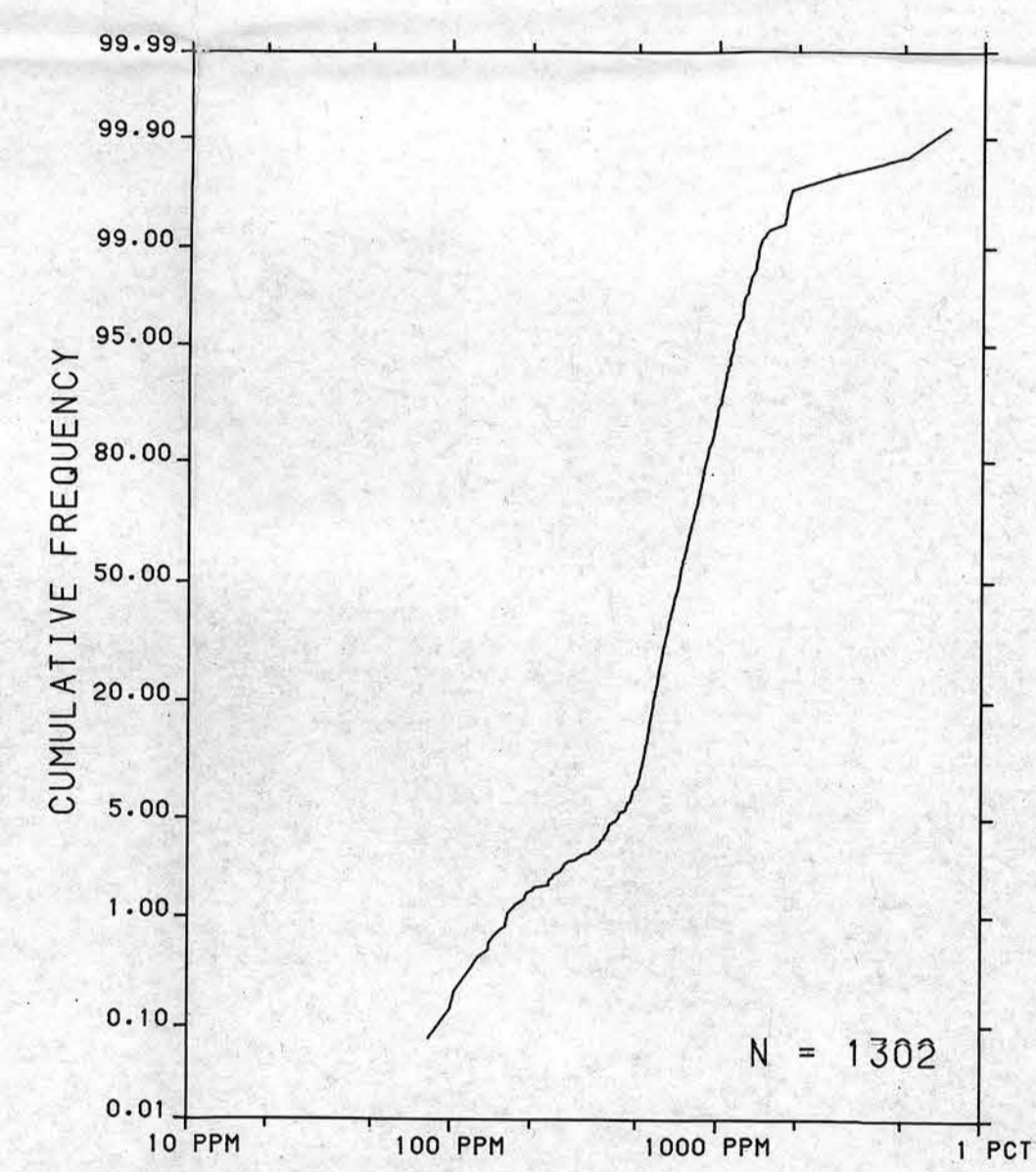
Au analyses by Chemex Labs Limited, Vancouver
 Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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

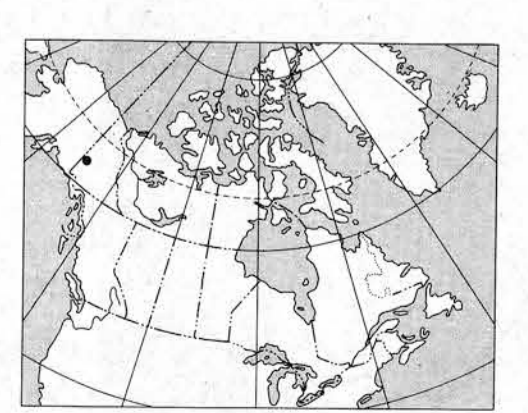
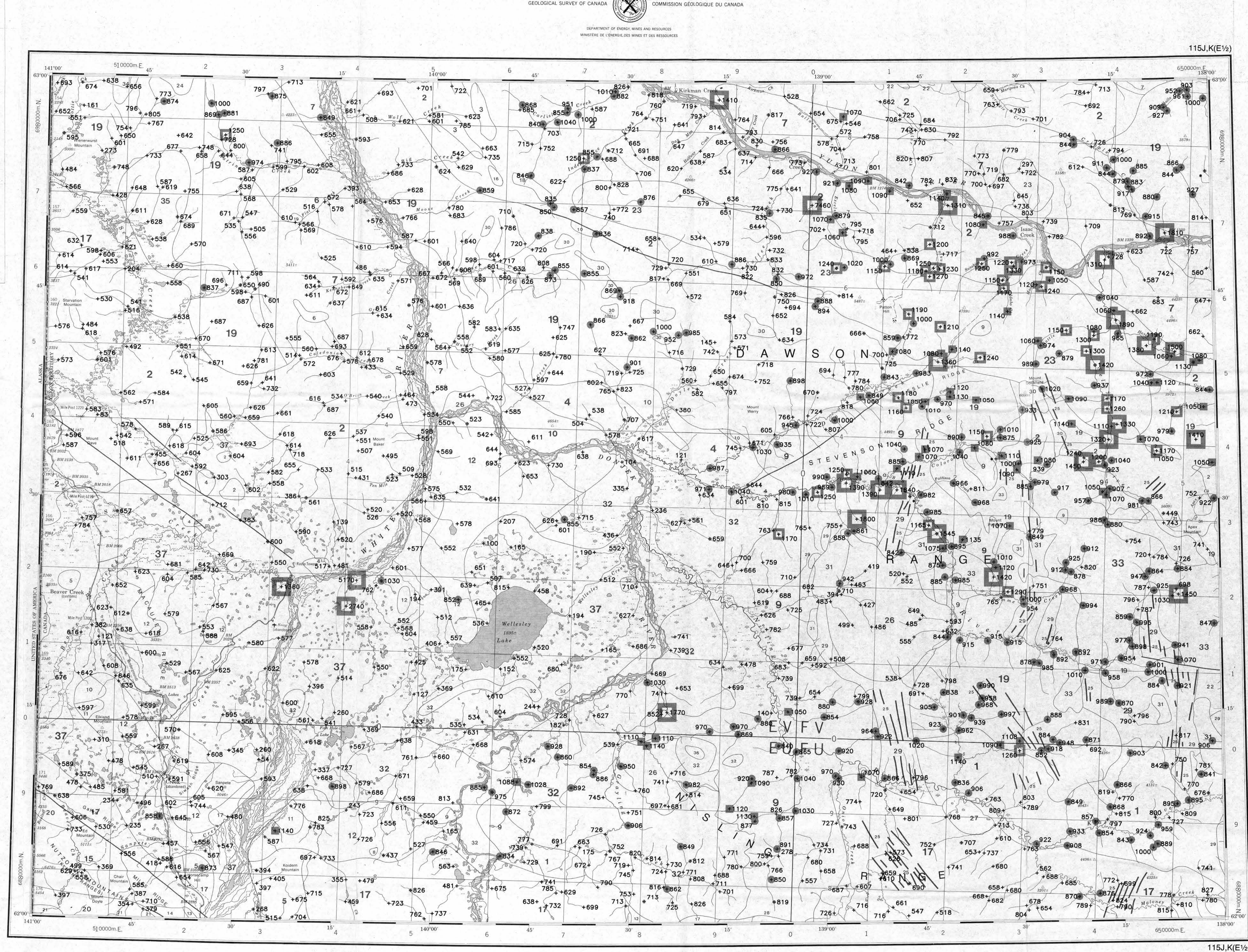
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Digital data are available on IBM-PC compatible diskette from:
 Geological Survey of Canada
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 601 Booth St.
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The regional geochemical trend map 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 =	%
1301 to 7460	+	26	(2.0%)
1141 to 1300	■	37	(2.8%)
1041 to 1140	■	61	(4.7%)
834 to 1040	●	267	(20.5%)
54 to 833	+	911	(70.0%)



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

**BARIUM (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
 Projection Transverse Universelle de Mercator
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- LEGEND**
- PLEISTOCENE AND RECENT
 - 37 QS 64* Glacial and surficial deposits
 - TIERTIARY AND QUATERNARY
 - 36 PPP 63 Olivine basalt
 - PLIOCENE AND PLEISTOCENE
 - 35 LTB 62 Rhyolite porphyry, granite, granodiorite
 - OLIGOCENE AND MIOCENE
 - 34 OMA 61 Amphitheatre: Sandstone, conglomerate, shale, coal
 CARMAKCS GROUP
 - 33 OKV 61 Andesite, basalt, breccia
 - 32 OMO 61 DONDEX: Tuff, breccia
 - Eocene
 - 31 EWN 59 Acid to intermediate tuff, breccia
 - LOWER (?) TIERTIARY
 - 29 TC 58 CASIND: Tuff, ignimbrite, breccia
 - 28 TFF 58 Feldspar porphyry dykes, flow
 - 27 TWS 58 Andesite, porphyritic basalt flows and dykes
 - EARLY TIERTIARY
 - 27 ETG 57 Granodiorite, granite
 - 26 ETGA 57 Alaskite, granite, quartz monzonite
 - 25 FPP 57 Feldspar porphyry dykes
 - CRETACEOUS
 - 24 KY 63 Arenite, monzonite
 - 23 KG 52 Granite
 - 22 KOW 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
 - 21 KGM 52 Granodiorite, quartz diorite, diorite, agnaitic complex
 - JURASSIC AND CRETACEOUS
 - 20 JKD 51 Argillite, greywacke, conglomerate, volcanics
 - DECADEASH GROUP
 - 19 TGM 42 Foliated hornblende granodiorite, quartz
 - MESOZOIC UNDIVIDED
 - 18 MDM 41 Porphyritic quartz monzonite
 - 17 MGO 41 Granodiorite, quartz monzonite
 - 16 MDI 41 Diorite
 - PERMIAN AND TRIASSIC
 - 15 PTF 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 PMS 40 Hornblende gabbro
 - 10 PMS 40 Ultramafic rocks
 - PALEOZOIC UNDIVIDED
 - 9 PM 09 WASINA: Graphitic quartzite, schist
 - 8 PC 09 Limestone
 - 7 PGM 09 PELLY GNEISS: Foliated to gneissic granodiorite
 - 6 PM 09 Amphibolite, schist, gneiss
 - 5 PTF 09 Chert, argillite, quartzite
 - 4 PV 09 Greenstone, amphibolite
 - CARBONIFEROUS AND PERMIAN
 - 3 CPS 35 Quartz-muscovite schist
 - 2 CPS 35 Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX
 - HARDYANIAN AND CAMBRIAN
 - 1 HCSN 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: Garrison, H., Templeman-Kluit, D.J., Blusson, S.L., and Campbell, R.B. (1980) Map 1398, Macklin River, Yukon - District of Mackenzie - Alaska, NTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada, 1:1,000,000 Scale.

**BARIUM (ppm)
 STREAM SEDIMENTS
 GSC OPEN FILE 1363**
 SOUTH-WEST YUKON, 1986



Contribution to the Canada/Yukon Subsidiary Agreement on Mineral Resources 1985-1989 under the Canada/Yukon Economic Development Agreement



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