

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, glacioluvial 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 lineation 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.
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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, 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, Gondon 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

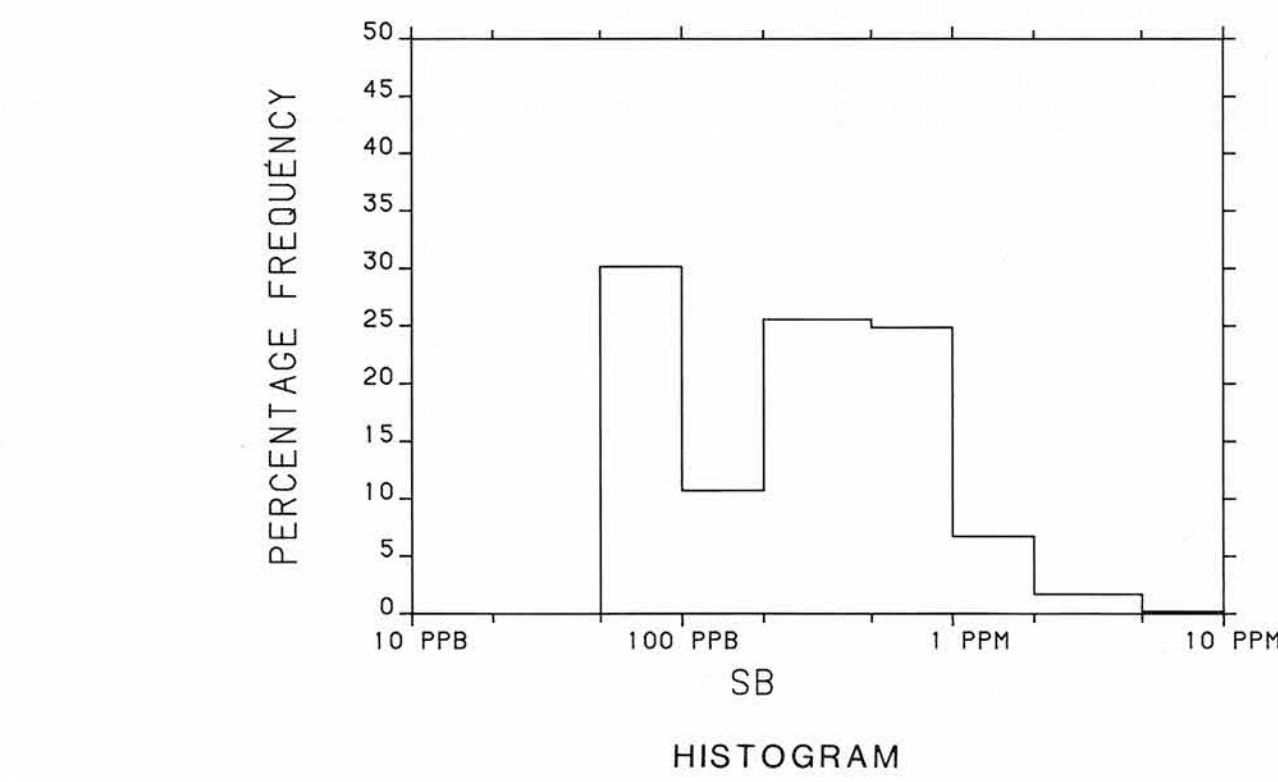
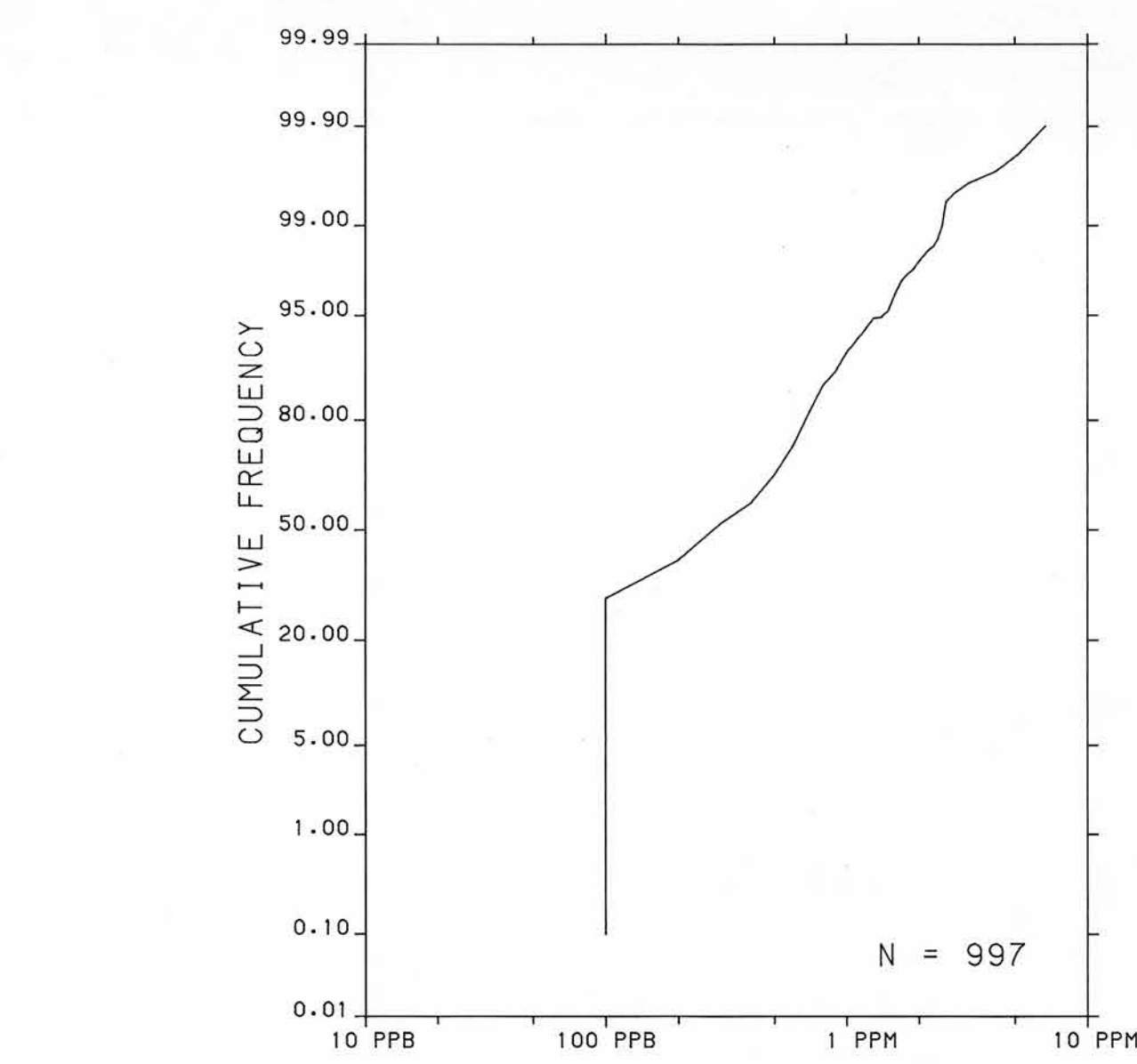
Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared, are available from:

K.G. Campbell Corporation
880 Wellington St.
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Ottawa, Ontario
K1R 6K7

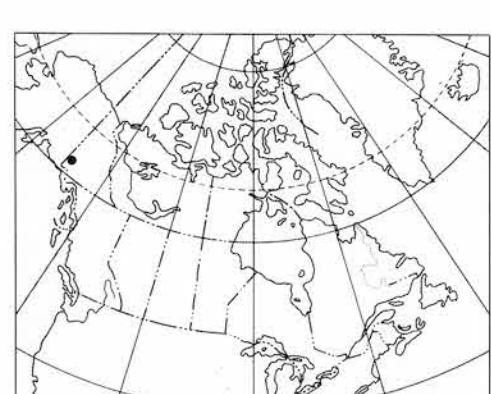
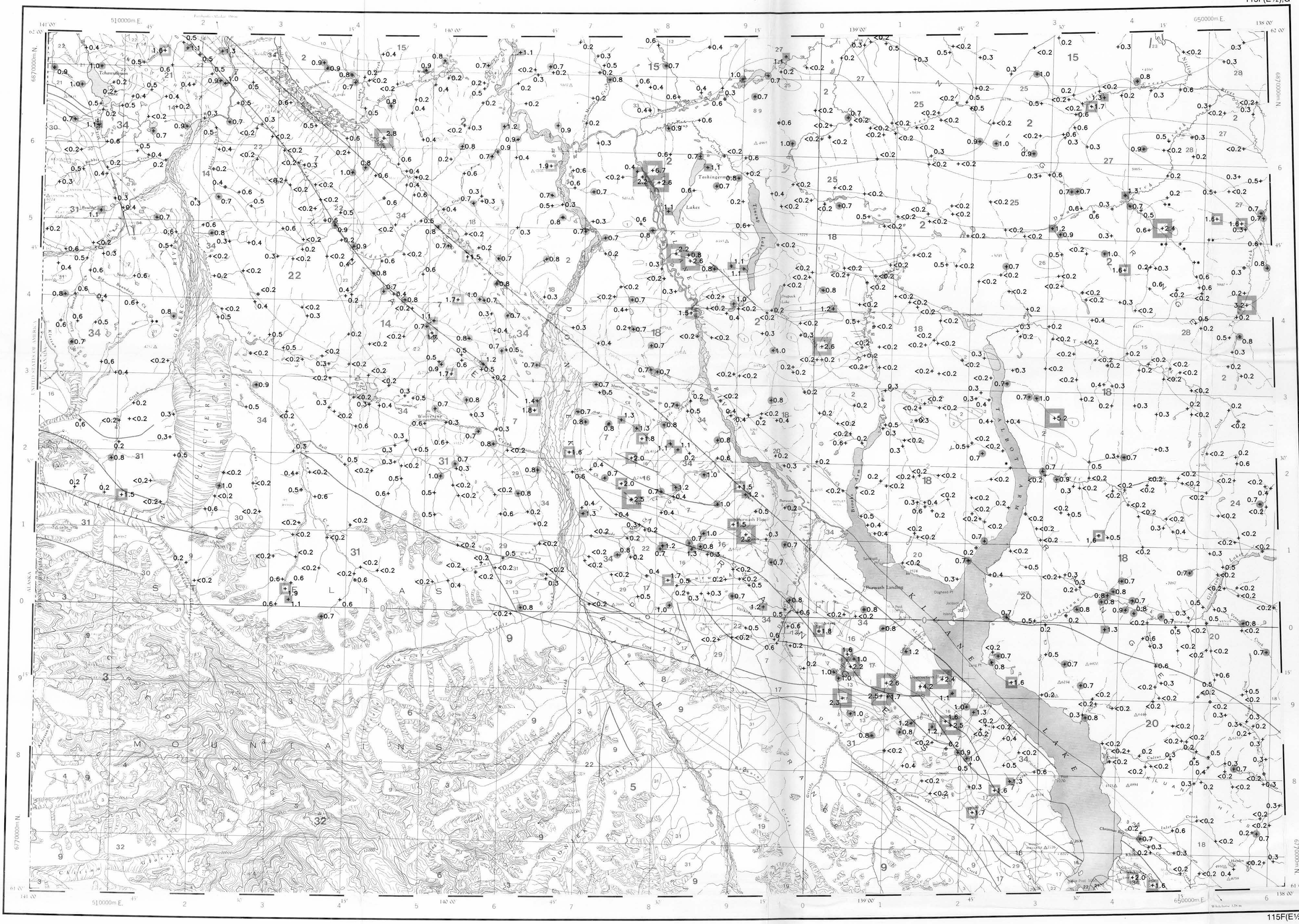
Digital data are available on IBM-PC compatible diskette from:

Geological Survey of Canada
Publications Distribution
601 Booth St.
Ottawa, Ontario K1A 0E8
Tel.: (613)995-4342

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
2.1 to 6.7	N = 19 (1.9%)
1.5 to 2.0	N = 31 (3.1%)
1.1 to 1.4	N = 36 (3.6%)
0.7 to 1.0	N = 171 (17.2%)
<0.2 to 0.6	N = 740 (74.2%)



Elevation in feet above mean sea level
Mean magnetic declination 1987, 29°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

**ANTIMONY (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 same scale published by the Surveys and Mapping Branch in 1961

Scale 1:250 000 - Echelle 1/250 000
Universal Transverse Mercator Projection
Projection transverse universelle de Mercator
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LEGEND

QUATERNARY	PLEISTOCENE AND RECENT
34	QS 64* Glacial and surficial deposits
TERTIARY	MIocene AND Pliocene
33	TM 57 Quartz monzonite, granodiorite
32	TD 57 Quartz diorite, granodiorite
31	MPV 62 WAGNELL: Basalt, andesite pyroclastics, sediments
LATE TERTIARY	OLIGOCENE AND MIOCENE
30	LTF 62 Felsite, granite porphyry
29	OMA 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal
LOWER (?) TERTIARY	EARLY TERTIARY
28	TFP 58 Feldspar porphyry dykes, flows
27	TV 58 Andesite, porphyritic basalt flows, dykes
26	ETG 57 Granodiorite, granite
25	ETM 57 Granite, quartz monzonite
24	ETM 57 Granite, quartz monzonite
23	FP 57 Feldspar porphyry dykes
CRETACEOUS	JURASSIC AND CRETACEOUS
22	KGM 52 Granodiorite, quartz diorite, diorite, agmatite complex
DEZADASH GROUP	PERMIAN AND TRIASSIC
21	JK 51 Argillite, greywacke, conglomerate, volcanics
20	JK 51 Klunne: Serpentine, biotitic schist, gneiss, amphibolite
19	JK 51 Granodiorite, quartz diorite, quartz monzonite, diorite
TRIASSIC	UPPER TRIASSIC
18	TD 42 RUBY RANGE: Granodiorite
LOWER TRIASSIC	MESOZOIC UNDIVIDED
17	UTS 45 CHITSONE, MCCARTHY: Limestone, dolomite, shale
16	UTN 45 NIKOLAI: Greenstone, basalt, andesite, limestone
PERMIAN AND TRIASSIC	PERMIAN AND TRIASSIC
15	MD 41 Granodiorite, quartz monzonite
14	PTV 40 Greenstone, diorite
13	PTB 40 Pyroxenite, serpentinite
PALEOZOIC UNDIVIDED	PALEOZOIC UNDIVIDED
12	PMV 40 Basic to intermediate volcanic rocks
PALEOZOIC UNDIVIDED	EARLY PALEOZOIC
11	PN 09 NASINA: Graphitic quartzite, schist
10	PTP 09 Chert, argillite, quartzite
9	PS 09 Greywacke, argillite, limestone; local basalt, andesite, volcanoclastic sediments
EARLY PALEOZOIC	PERMIAN
8	EPUB 09 Gabbro complex
PERMIAN	SKOLAI GROUP
7	PS 36 Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestone, conglomerate
PENINSULAR AND PERMIAN	DEVONIAN
6	PPM 35 Quartz monzonite
5	PPG 35 Granodiorite, diorite, agmatite complex
4	PPQ 35 Quartz diorite, diorite, granodiorite
DEVONIAN	HARDYNIAN AND CAMBRIAN
3	DC 25 Limestone, marble
HARDYNIAN AND CAMBRIAN	HARDYNIAN
2	HCSM 00 Schist, gneiss, quartzite
HARDYNIAN	HARDYNIAN
1	HC 07 Crystalline limestone

*A numeric 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., Blason, S.L. and Campbell, R.B. (1980) Map 1360A, MacMillan River, Yukon - Districts of Mackenzie - Alaska, NTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada, 1:1,000,000 Scale.

