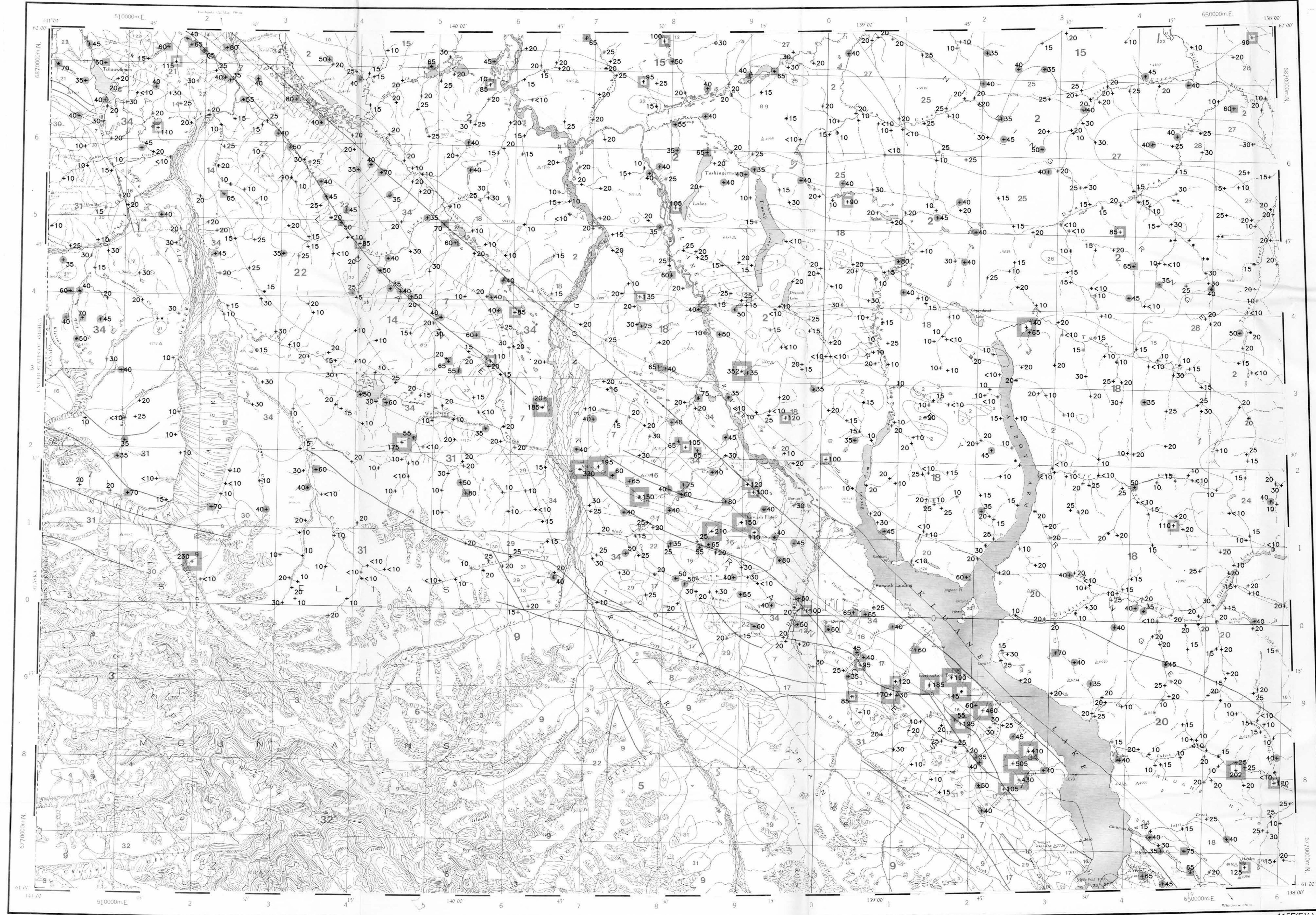


- QUATERNARY
- 34 Q5 64\* Glacial and surficial deposits
- TERTIARY
- 33 TQM 57 Quartz monzonite, granodiorite
  - 32 TGD 57 Quartz diorite, granodiorite
- MIOCENE AND PLEISTOCENE
- 31 MPV 62 MARGELL: Basalt, andesite pyroclastics, sediments
- LATE TERTIARY
- 30 LTF 62 Felsite, granite porphyry
- OLIGOCENE 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 ETOM 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 JKD 51 Argillite, greywacke, conglomerate, volcanics
  - 20 JKL 51 KLUNNE: Sericitic, biotitic schist, gneiss, amphibolite
  - 19 JGD 51 Granodiorite, quartz diorite, quartz monzonite, diorite
- TRIASSIC
- 18 TGD 42 RUBY RANGE: Granodiorite
- UPPER TRIASSIC
- 17 UTS 45 CHITISSONE, MCCARTHY: Limestone, dolomite, shale
  - 16 UTS 45 NIKOLAI: Greenstone, basalt, andesite, limestone
- MESOZOIC UNDIVIDED
- 15 MGD 41 Granodiorite, quartz monzonite
- PERMIAN AND TRIASSIC
- 14 PIV 40 Greenstone, diorite
  - 13 PIUB 40 Pyroxenite, serpentinite
- PALEOZOIC AND MESOZOIC UNDIVIDED
- 12 PIV 40 Basic to intermediate volcanic rocks
- PALEOZOIC UNDIVIDED
- 11 PIV 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 PPG 35 Granodiorite, diorite, agmatite complex
  - 4 PPD 35 Quartz diorite, diorite, granodiorite
- DEVONIAN
- 3 DC 25 Limestone, marble
- HADRYNAN AND CAMBRIAN
- 2 HCSM 08 Schist, gneiss, quartzite
- HADRYNAN
- 1 HC 07 Crystalline limestone

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

Geological boundary  
Fault  
No analytical result  
Field duplicate sample sites

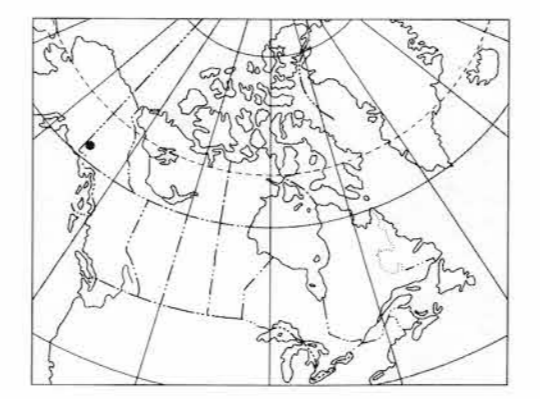
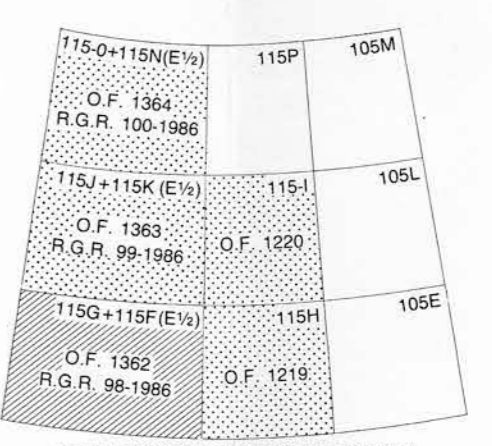
Geological base and legend are derived from:  
Gardner, R., Campbell, J., J., Blusson, S.L. and Campbell, R.S. (1987) Map 1362, Macmillan River, Yukon - District of Mackenzie, Alaska, NTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada, 1:1,000,000 Scale.



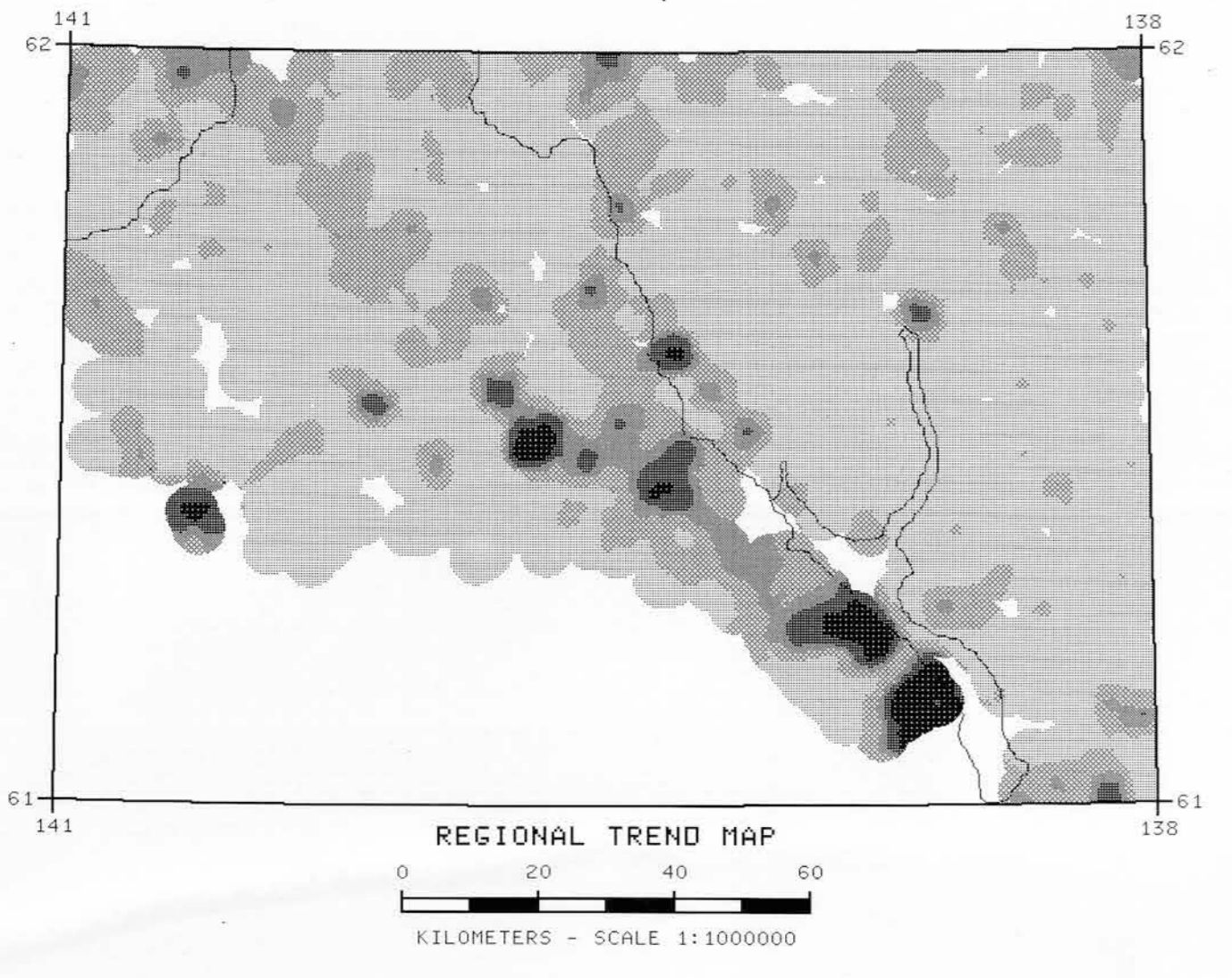
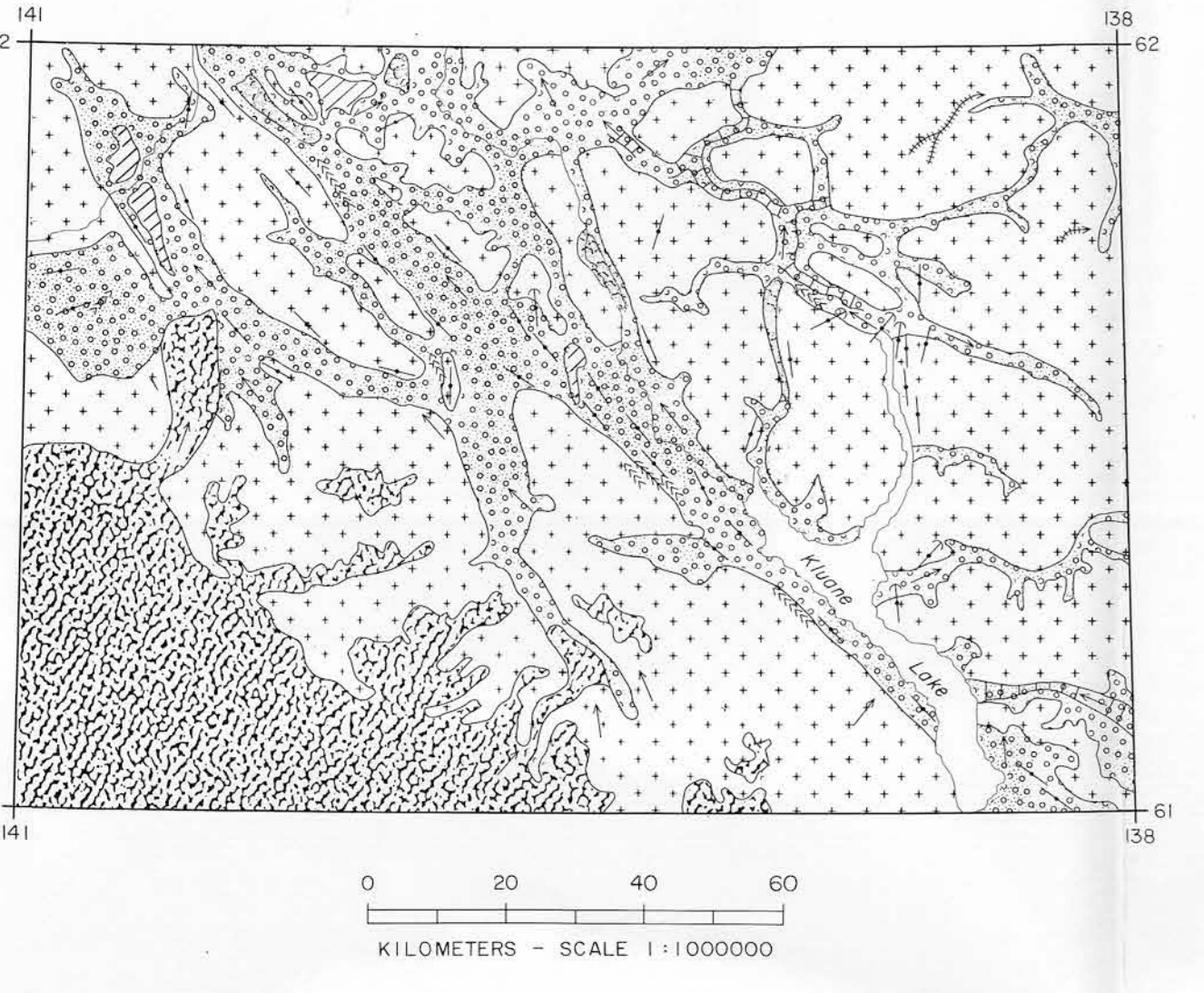
MERCURY (ppb)  
STREAM SEDIMENTS  
GSC OPEN FILE 1362  
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 98-1986  
CANADA - YUKON  
SUBSIDIARY AGREEMENT ON MINERAL RESOURCES (1985-1989)  
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY  
SOUTH-WEST YUKON, 1986

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

Scale 1:250 000 - Échelle 1/250 000  
Kilometers 5 10 15 20  
Projection Transverse Mercator Projection  
Projection transversale universelle de Mercator



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HG  
PPB X TILE  
505 MAX  
135 98  
80 95  
55 90  
5 70  
397 SAMPLES

- 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 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.  
Muller, J.E. (1966) Geology Klunne Lake - Yukon Territory, Geological Survey of Canada Map 1177A, (1:253 440 scale), to accompany GSC Memoir 340.  
Prest, V.K., Grant, D.R., and Rampton, V.N. 91967) 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

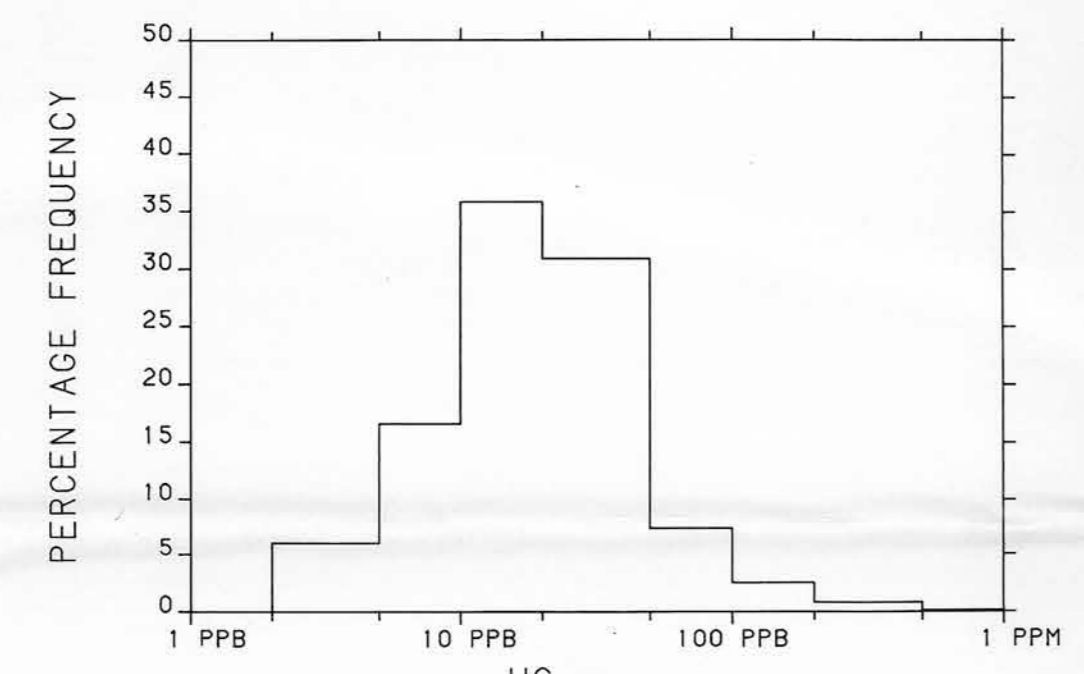
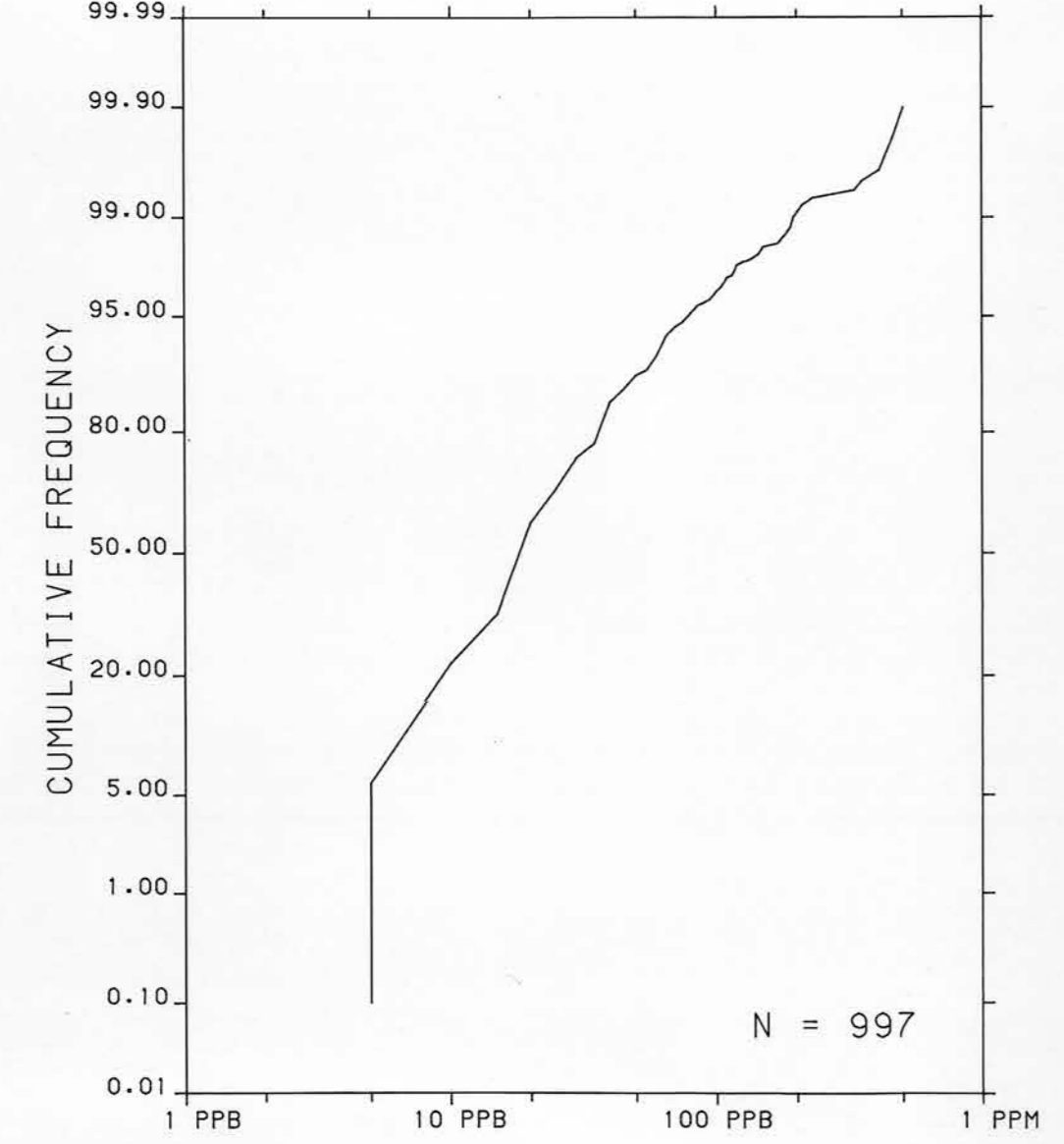
Au analyses by Chemex Labs Limited, Vancouver  
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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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Ottawa, Ontario K1A 0E8  
Tel.: (613)995-4342



CONCENTRATION	FREQUENCY
136 to 505	N = 20 (2.0%)
81 to 135	N = 27 (2.7%)
56 to 80	N = 53 (5.3%)
31 to 55	N = 152 (15.2%)
<10 to 30	N = 745 (74.7%)