

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.

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

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

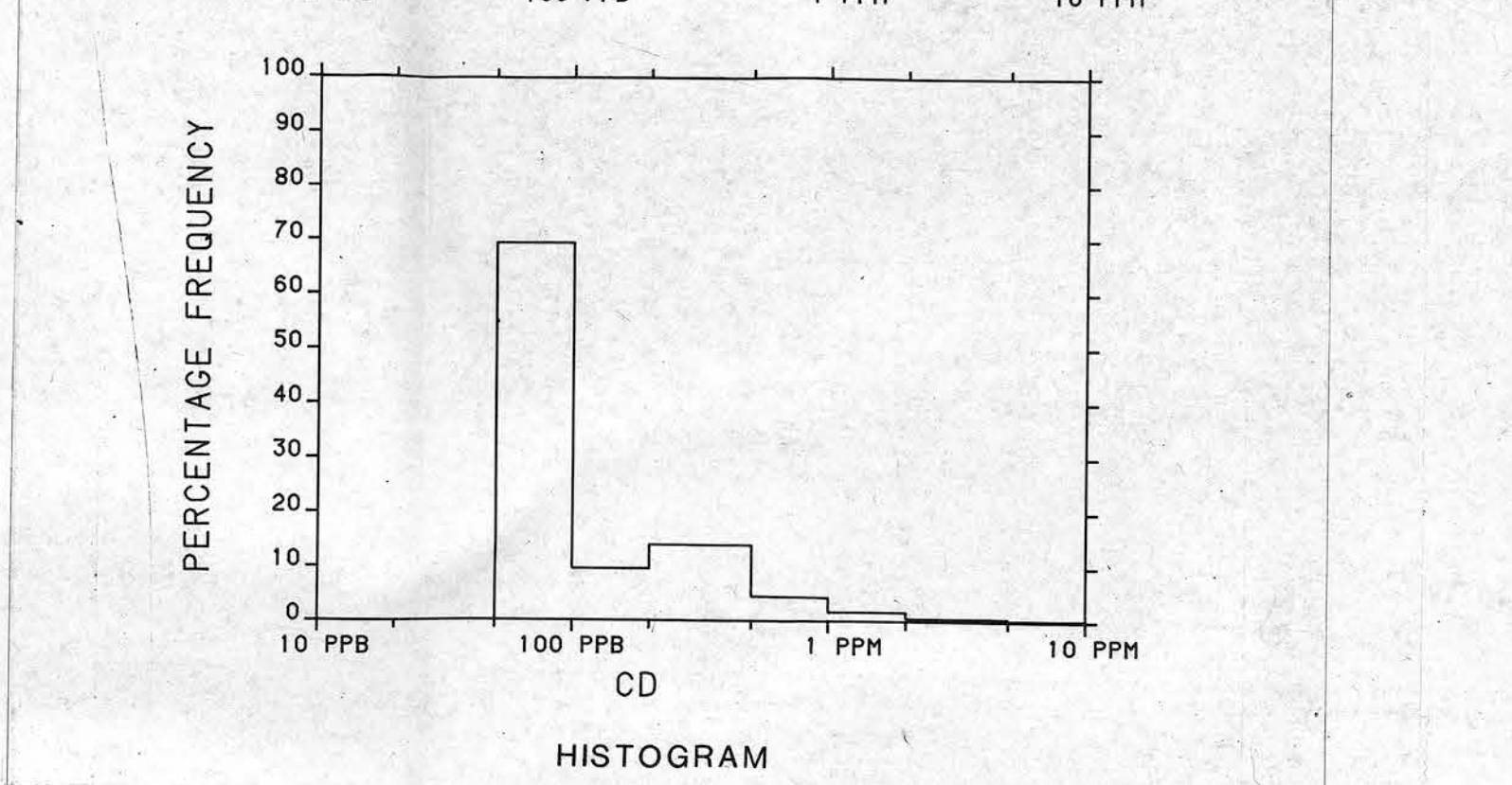
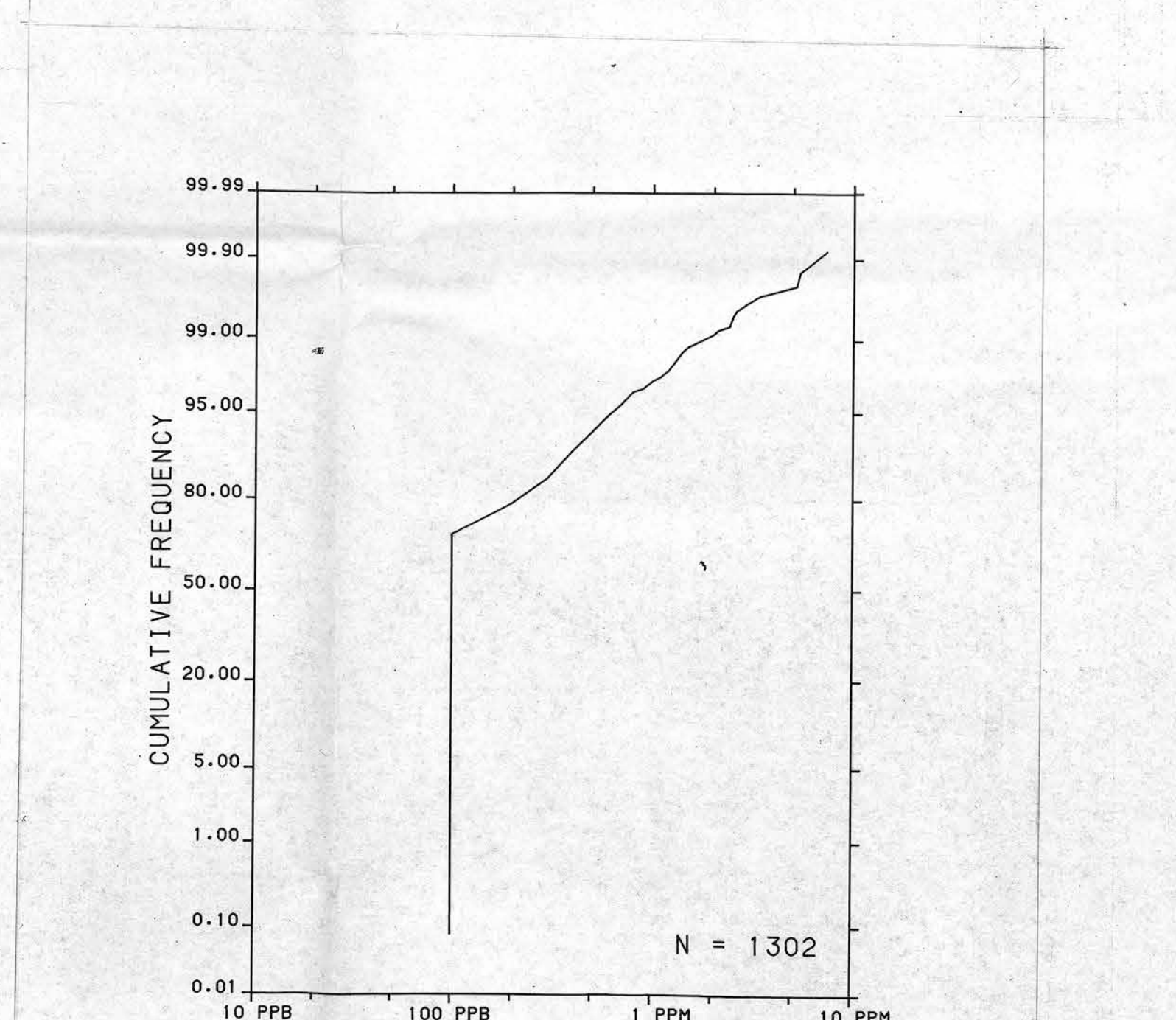
Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared, are available from:

K.G. Campbell Corporation
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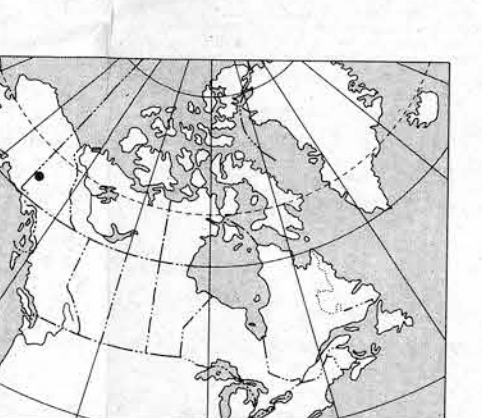
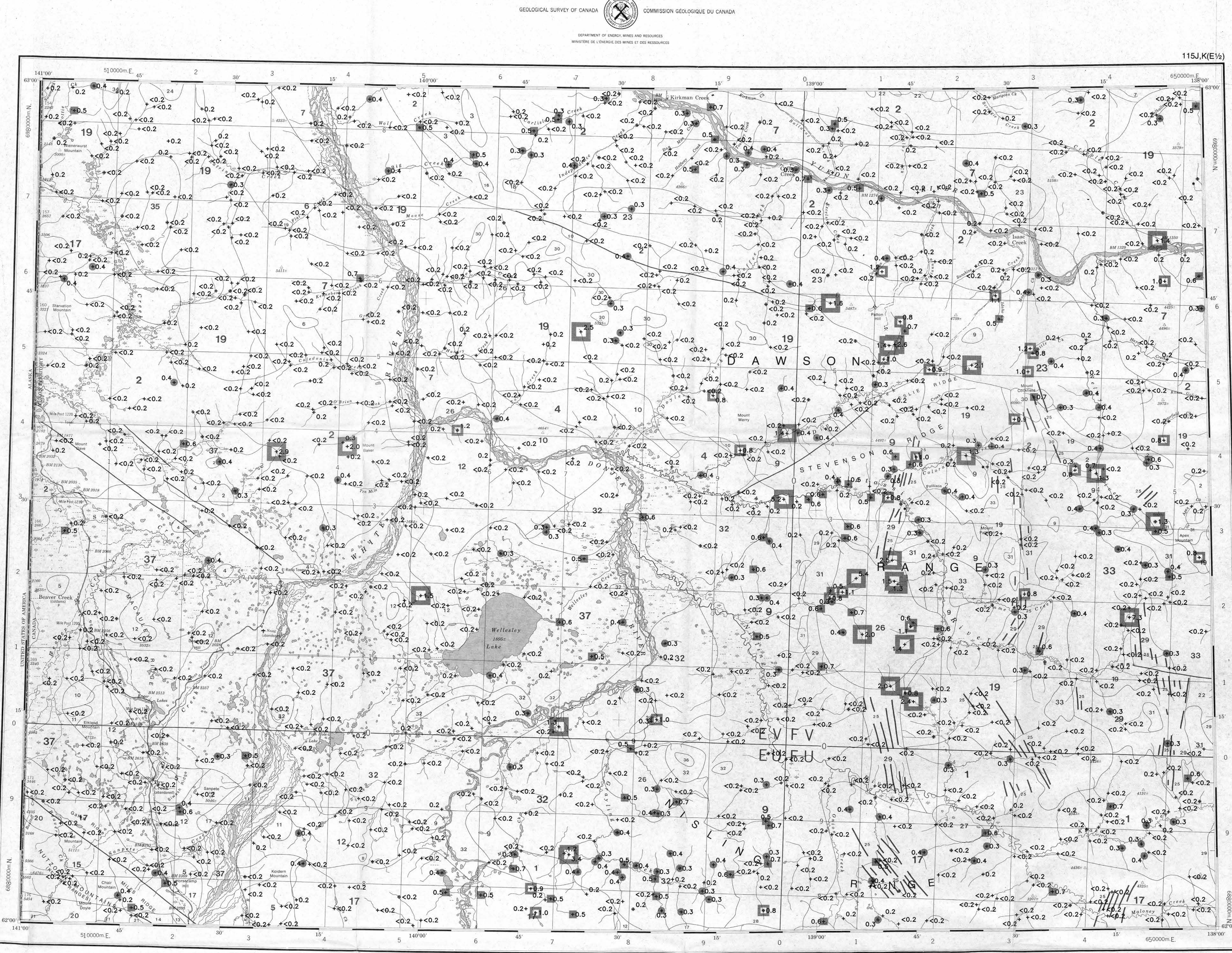
Digital data are available on IBM-PC compatible diskette from:
 Geological Survey of Canada
 Publications Distribution
 601 Booth St.
 Ottawa, Ontario K1A 0E8
 Tel.: (613)995-4342

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

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
1.3 to 7.3	N = 25 (1.9%)
0.8 to 1.2	N = 28 (2.2%)
0.5 to 0.7	N = 72 (5.5%)
0.3 to 0.4	N = 146 (11.2%)
<0.2 to 0.2	N = 1031 (79.2%)



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

**CADMIUM (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 - Échelle 1/250 000
 Universal Transverse Mercator Projection
 Projection transversale universelle de Mercator
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Base map at the same scale published by the Surveys and Mapping Branch in 1971

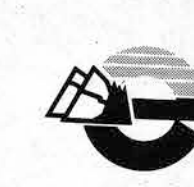
- LEGEND**
- QUATERNARY
 - PLEISTOCENE AND RECENT
 - 37 Q5 64* Glacial and surficial deposits
 - TERTIARY AND QUATERNARY
 - 36 PPV 63 Olivine basalt
 - LATE TERTIARY
 - 35 LTG 62 Rhyolite porphyry, granite, granodiorite
 - OLIGOCENE AND MIOCENE
 - 34 OM 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal
 - CARMACKS GROUP
 - 33 ONCY 61 Andesite, basalt, breccia
 - 32 OND 61 DOWSEX: Tuff, breccia
 - EOCENE
 - MOUNT NASEN GROUP
 - 31 ENW 59 Acid to intermediate tuff, breccia
 - LOWER (?) TERTIARY
 - 30 TC 58 CASINO: Tuff, lignite, breccia
 - 29 TTP 58 Feldspar porphyry dykes, flow
 - 28 TVP 58 Andesite, porphyritic basalt flows and dykes
 - EARLY TERTIARY
 - 27 ETG 57 Granodiorite, granite
 - 26 ETGA 57 Alaskite, granite, quartz monzonite
 - 25 PFP 57 Feldspar porphyry dykes
 - CRETACEOUS
 - 24 KY 52 Syenite, monzonite
 - 23 KG 52 Granite
 - 22 KQM 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, Alaskite
 - 21 KGM 52 Granodiorite, quartz diorite, diorite, agmatite complex
 - JURASSIC AND CRETACEOUS
 - DEADGEASH GROUP
 - 20 JGD 51 Argillite, greywacke, conglomerate, volcanics
 - TRIASSIC
 - 19 TDGM 42 Foliated hornblende granodiorite, quartz
 - MESOZOIC UNDIVIDED
 - 18 MFM 41 Porphyritic quartz monzonite
 - 17 MGD 41 Granodiorite, quartz monzonite
 - 16 MDI 41 Diorite
 - PERMIAN AND TRIASSIC
 - 15 PTSV 40 Greenstone, greywacke, shale, limestone
 - 14 PTV 40 Greenstone, diorite
 - 13 PTBS 40 Pyroxenite, serpentinite
 - PALEOZOIC AND MESOZOIC UNDIVIDED
 - 12 PMV 40 Basic to intermediate volcanic rocks
 - 11 PMS 40 Hornblende gabbro
 - 10 PMU 40 Ultramafic rocks
 - PALEOZOIC UNDIVIDED
 - 9 PM 09 NASINA: Graphitic quartzite, schist
 - 8 PG 09 Limestone
 - 7 PGM 09 PELLY GNEISS: Foliated to gneissic granodiorite
 - 6 PM 09 Amphibolite, schist, gneiss
 - 5 PTP 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
 - HARBRYNAN 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, R., Templeman-Kluit, D.J., Blusson, S.L., and Campbell, R.B. (1980) Map 1363A, Macmillan River, Yukon - District of Mackenzie - Alaska, NTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada, 1:100 000 Scale.

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



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