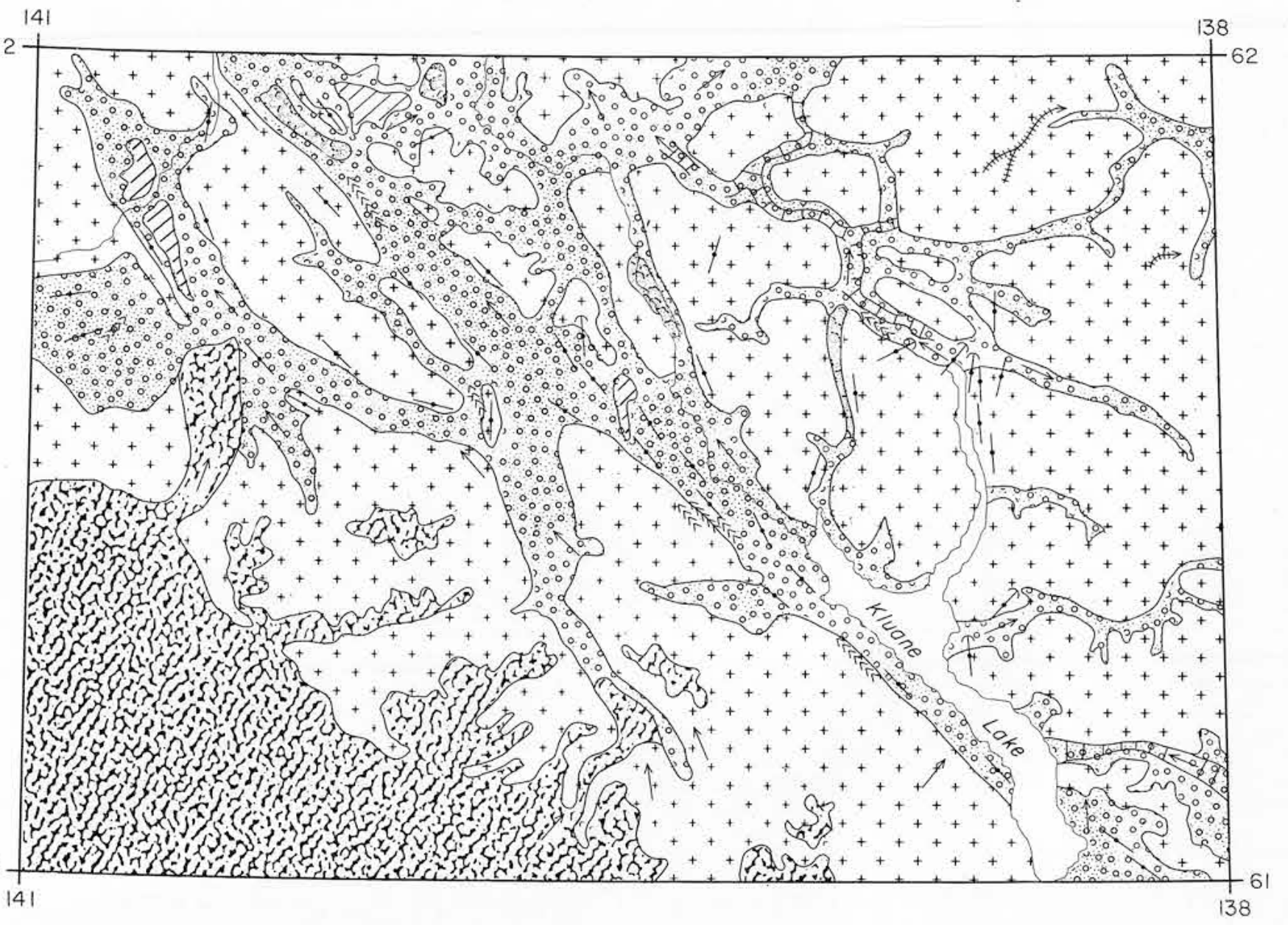

0 20 40 60
KILOMETERS - SCALE 1:1000000

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 moutonees 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 Kluane 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 ofCanada, 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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880 Wellington St.
Bay 238
Ottawa, Ontario
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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
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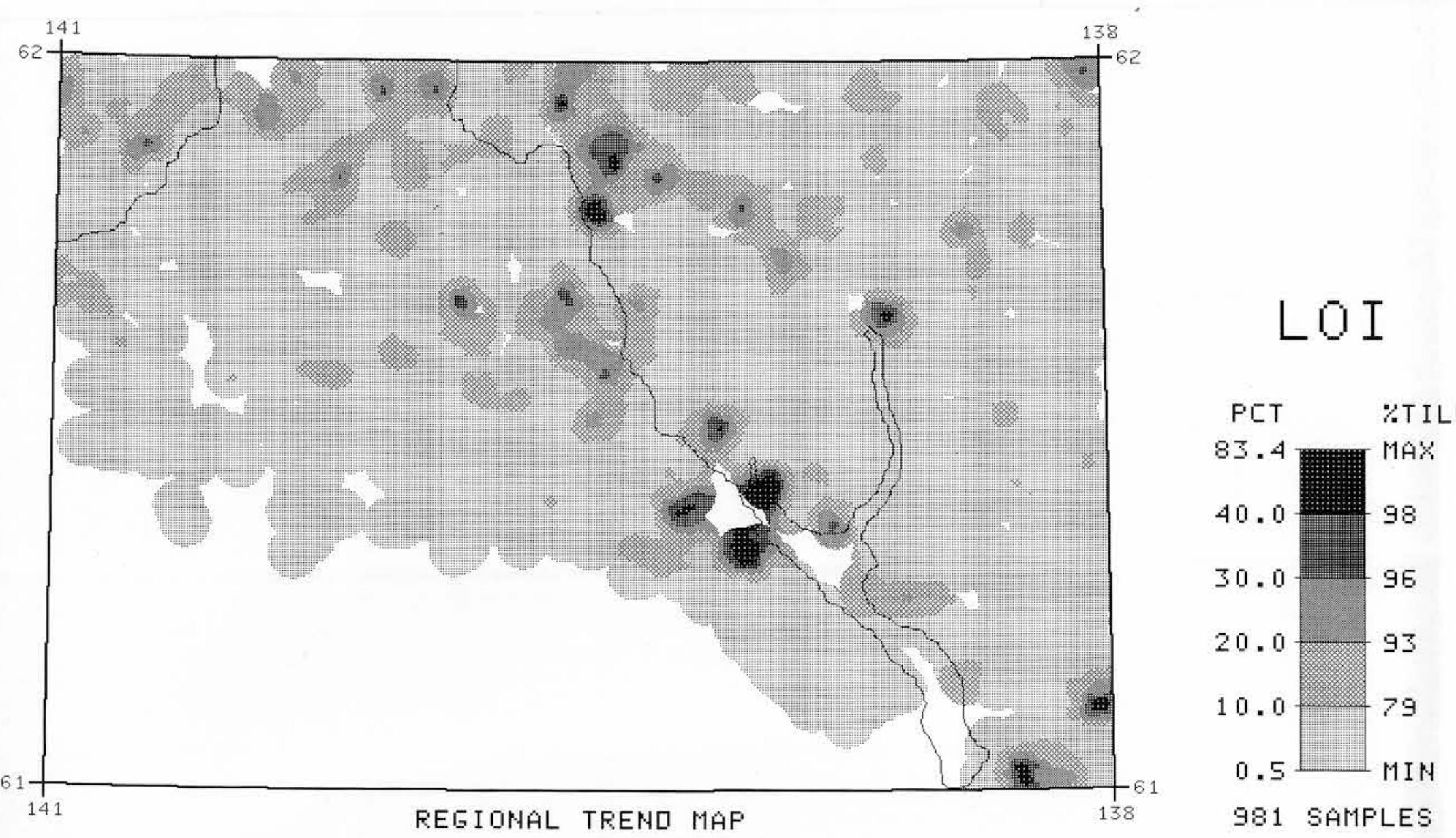
Canada

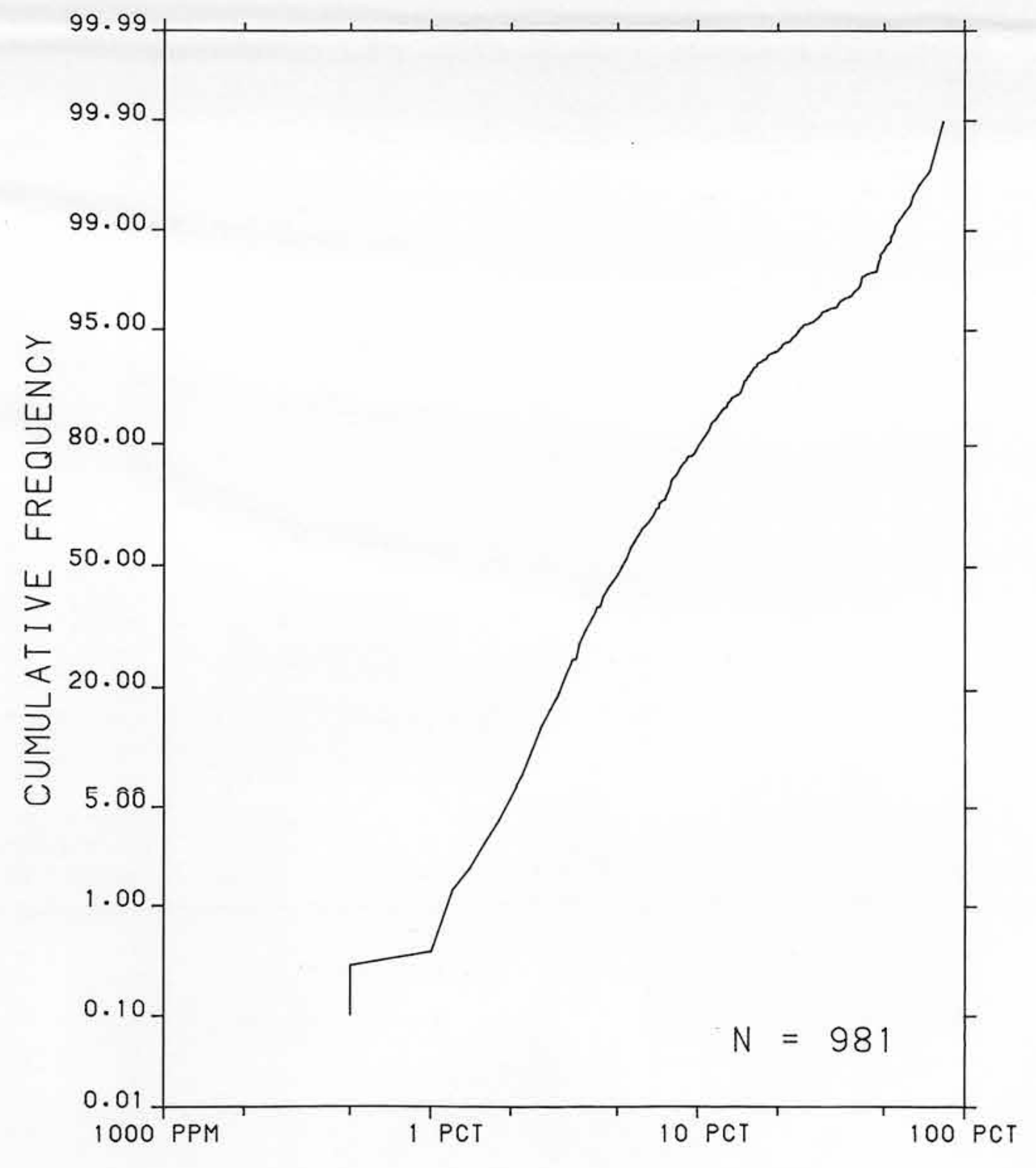
Contribution to the Canada/Yukon Subsidiary Agreement on Mineral Resources 1985-1989 under the Canada/Yukon Economic Development Agreement

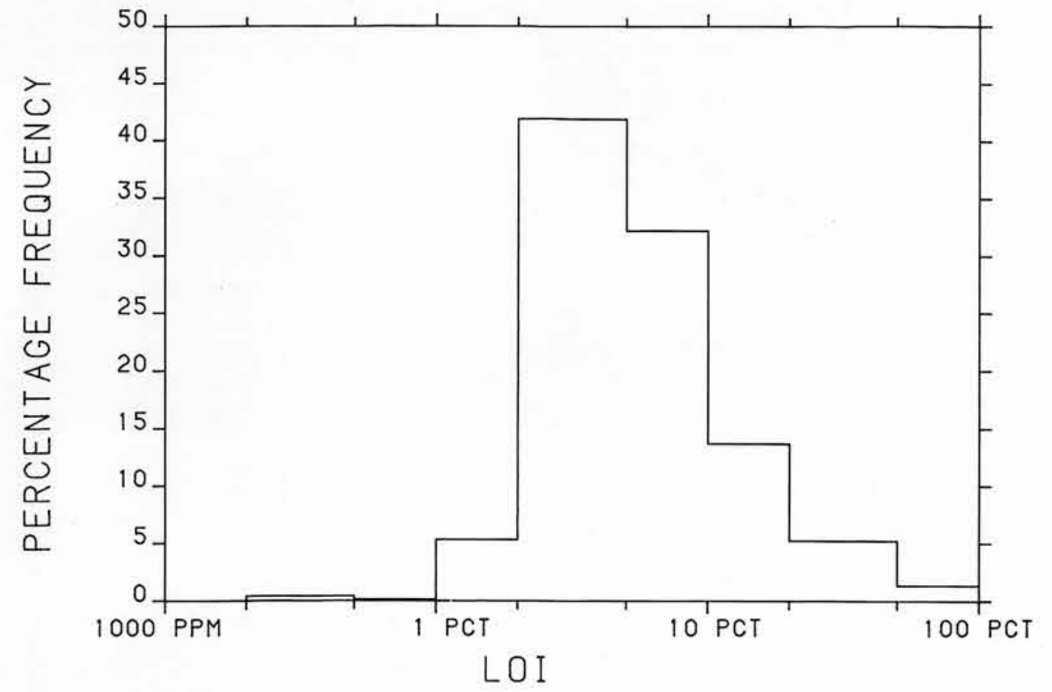
Yukon
Government



REGIONAL TREND MAP
0 20 40 60
KILOMETERS - SCALE 1:1000000

The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function ($1/d^3$) 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.



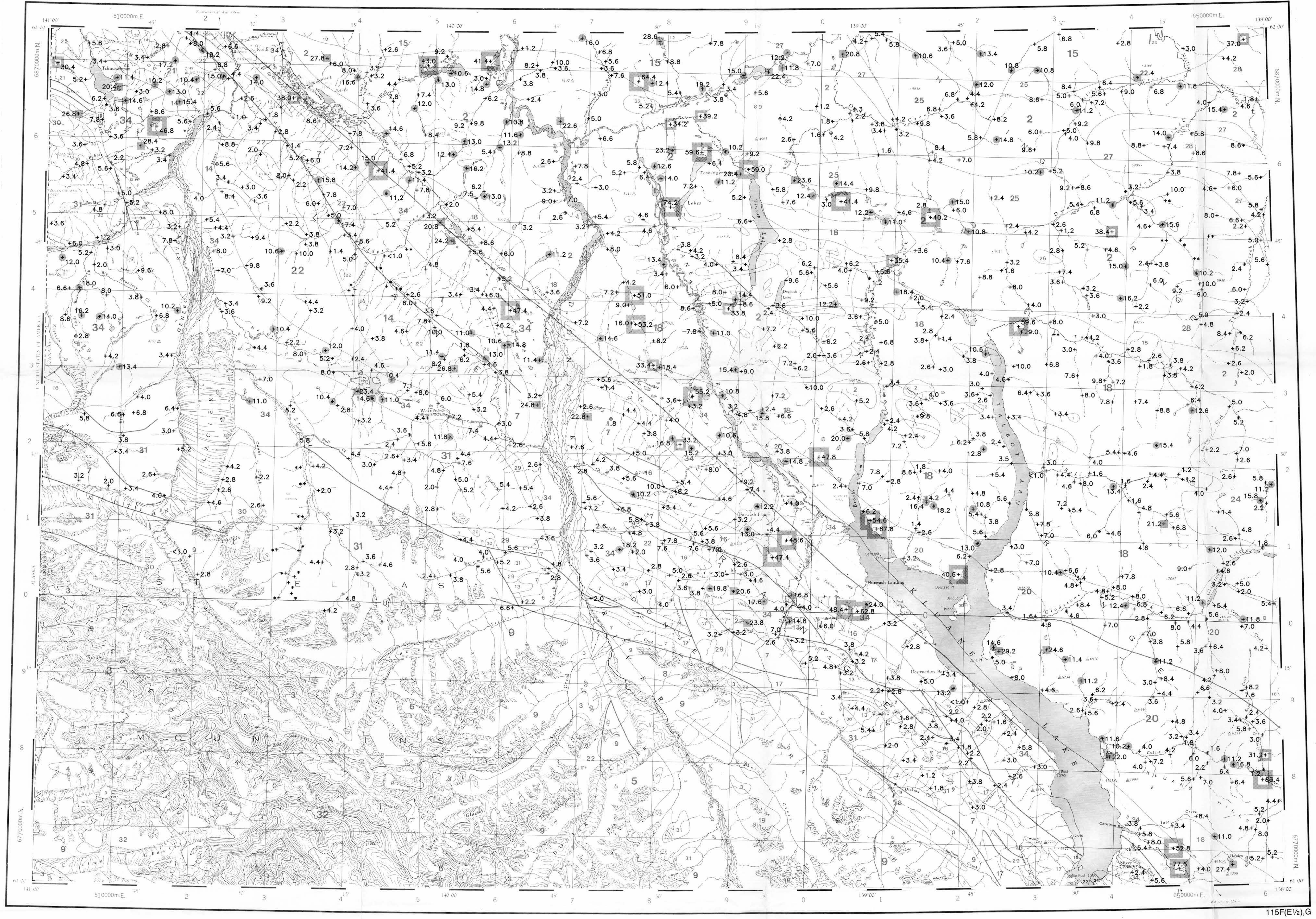


HISTOGRAM

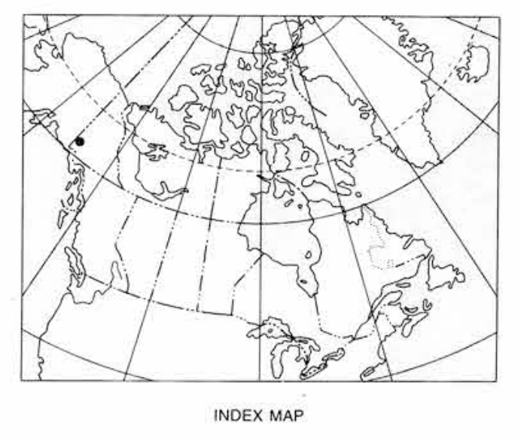
CONCENTRATION		FREQUENCY
40.1 to 83.4	▣	N= 26(2.7%)
30.1 to 40.0	▣	N= 11(1.1%)
20.1 to 30.0	■	N= 27(2.8%)
10.1 to 20.0	●	N= 134(13.7%)
<1.0 to 10.0	+	N= 783(79.8%)

GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

115F(E½),G



115F(E½),G



Elevation in feet above mean sea level

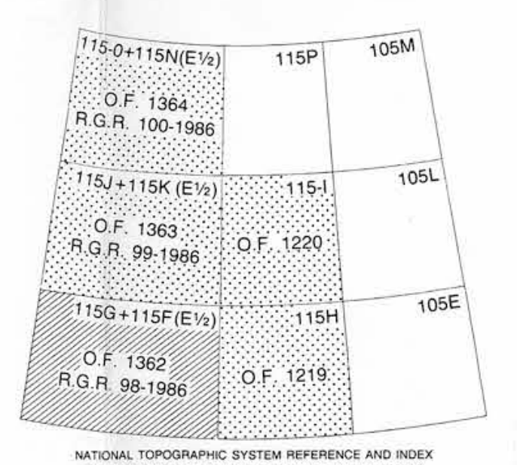
Mean magnetic declination 1987, 28°52' East, decreasing 13.3' annually. Readings vary from 28°52'E in the SE corner to 28°46'E in the NW corner of the map area

LOSS ON IGNITION (%)
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

Scale 1:250 000 - Échelle 1/250 000
Kilometres 5 0 5 10 15 20 Kilomètres
Universal Transverse Mercator Projection — Projection transverse universelle de Mercator

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



LOSS ON IGNITION (%)
STREAM SEDIMENTS
GSC OPEN FILE 1362
SOUTH-WEST YUKON, 1986

LEGEND

QUATERNARY		
		PLEISTOCENE AND RECENT
34	QS 64*	Glacial and surficial deposits
TERTIARY		
33	TQM 57	Quartz monzonite, granodiorite
32	TGD 57	Quartz diorite, granodiorite
		MIOCENE AND PLIOCENE
31	MPV 62	WRANGELL: 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	Feldspar porphyry dykes, flows
27	TVD 58	Andesite, porphyritic basalt flows, dykes
		EARLY TERTIARY
26	ETG 57	Granodiorite, granite
25	ETGA 57	Alaskite, granite, quartz monzonite
24	ETQM 57	Granite, quartz monzonite
23	FPPP 57	Feldspar porphyry dykes
CRETACEOUS		
22	KGDN 52	Granodiorite, quartz diorite, diorite, agmatite complex
JURASSIC AND CRETACEOUS		
		DEZADEASH GROUP
21	JKD 51	Argillite, greywacke, conglomerate, volcanics
20	JKK 51	KLUANE: Sericitic, biotitic schist, gneiss, amphibolite
19	JKGD 51	Granodiorite, quartz diorite, quartz monzonite, diorite
TRIASSIC		
18	TGD 42	RUBY RANGE: Granodiorite
		UPPER TRIASSIC
17	UTS 45	CHITISONE, McCARTHY: Limestone, dolomite, shale
16	UTN 45	NIKOLAI: Greenstone, basalt, andesite, limestone
MESOZOIC UNDIVIDED		
15	MGD 41	Granodiorite, quartz monzonite
PERMIAN AND TRIASSIC		
14	PTV 40	Greenstone, diorite
13	PTUB 40	Pyroxenite, serpentinite
PALEOZOIC AND MESOZOIC UNDIVIDED		
12	PMV 40	Basic to intermediate volcanic rocks
PALEOZOIC UNDIVIDED		
11	PN 09	NASINA: Graphitic quartzite, schist
10	PTP 09	Chert, argillite, quartzite
9	PS 09	Greywacke, argillite, limestone; local basalt, andesite, volcaniclastic sediments
		EARLY PALEOZOIC
8	EPUB 09	Gabbro complex
PERMIAN		
		SKOLAI GROUP
7	PS 36	Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestone, conglomerate
PENNSYLVANIAN AND PERMIAN		
6	PPQM 35	Quartz monzonite
5	PPGD 35	Granodiorite, diorite, agmatite complex
4	PPQD 35	Quartz diorite, diorite, granodiorite
DEVONIAN		
3	DC 25	Limestone, marble
HADRYNIAN AND CAMBRIAN		
2	HCSN 08	Schist, gneiss, quartzite
HADRYNIAN		
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:
Gabrielse, H., Tempelman-Kluit, D.J., Blusson, S.L. and Campbell, R.B. (1980) Map 1398A, 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.

LOSS ON IGNITION (%)
STREAM SEDIMENTS
GSC OPEN FILE 1362
SOUTH-WEST YUKON, 1986