

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.

Geological Survey of Canada
Resource Geophysics and Geochemistry Division
CONTRACTORS
Sample collection by Rogers Exploration Services Ltd., Whitehorse
Sample preparation by Golder Associates, Ottawa
Gold analysis by Chemex Labs Limited, Vancouver, B.C.
Sediment chemical analyses by Barringer Magenta Ltd., Rexdale, Ontario
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

This map forms one of a series of maps released by the Geological Survey of Canada, Open Files 1217 to 1220. Each Open File consists of maps of various geochemical variables: 21 for stream sediment, 3 for stream water and 1 sample site location

Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

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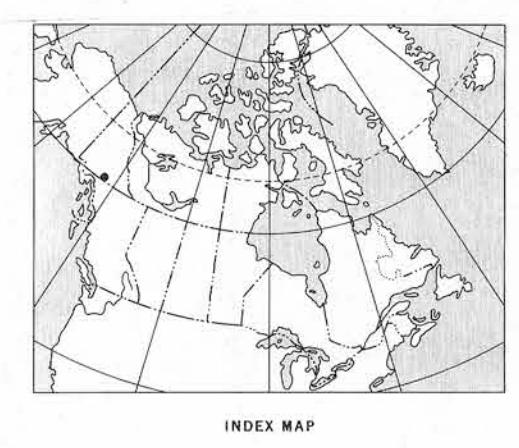
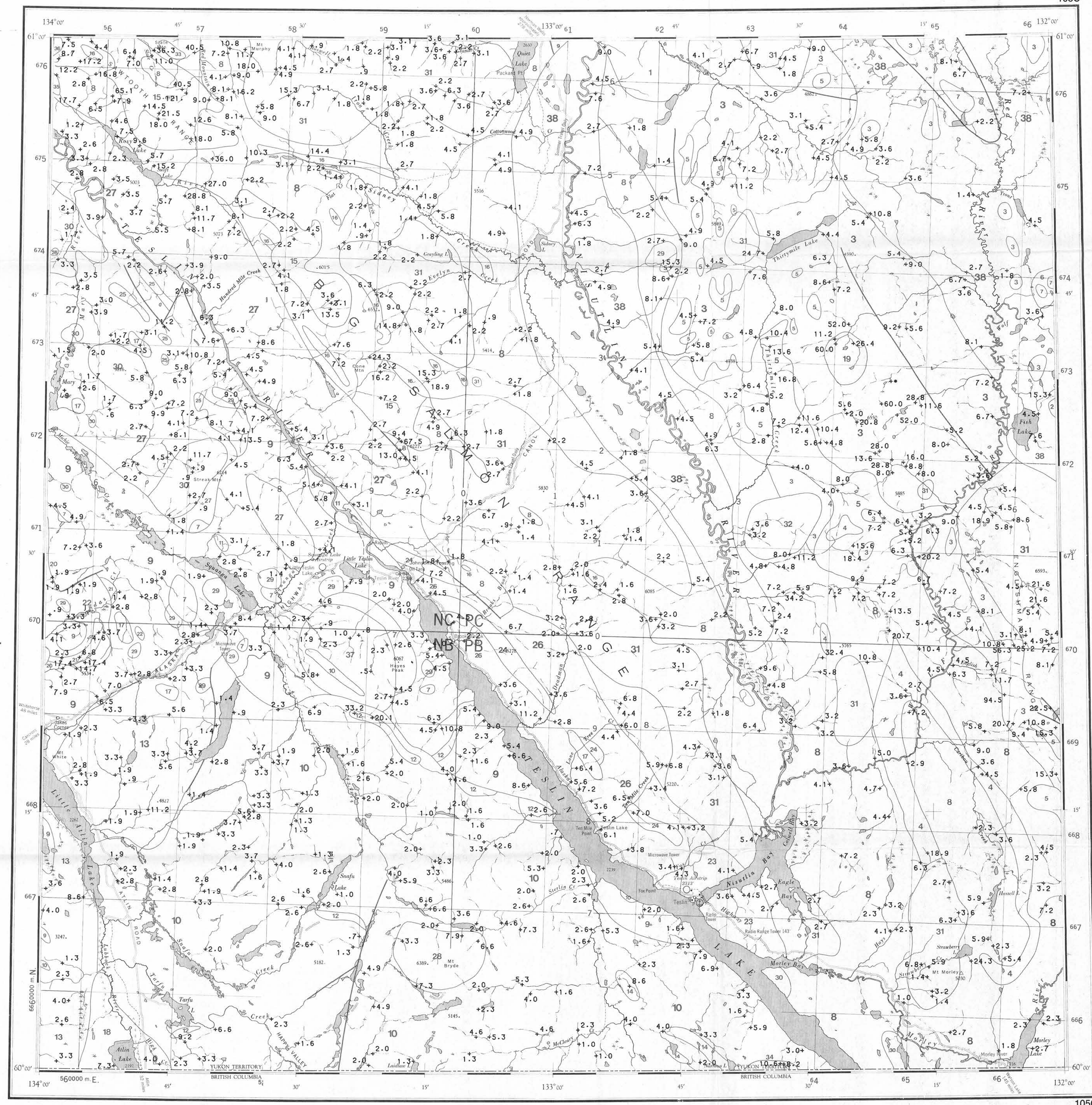
The data are also available in digital form. For further information please contact:

The Director
Computer Science Centre
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4

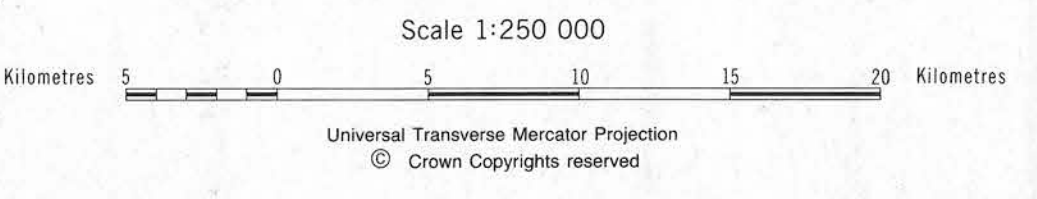
- Undivided surficial deposits; includes alluvium, glacial till, ground moraine, outwash and ice contact deposits, colluvium.
- Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features.

- SYMBOLS
- Surficial deposit boundary
 - Meltwater channels, outwash deposits, indicating direction of flow
 - Glaciation lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow known, unknown
 - Drumlinoid form, direction of movement inferred, not inferred

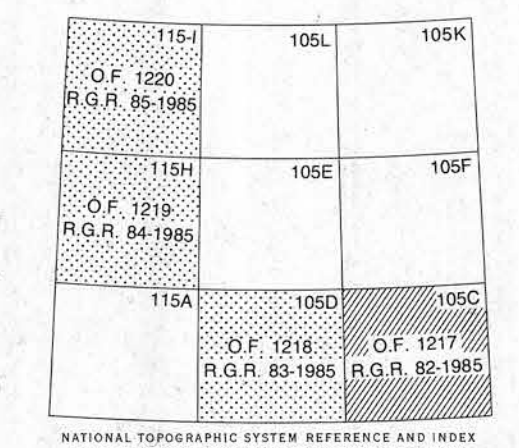
Sources of information:
Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.J. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968, (1:1 000 000 scale) to accompany GSC Paper 68-34.
Mulligan, R. (1963) Geology TESLIN, Yukon Territory, Geological Survey of Canada, Map 1125A (1:253 440 scale).
Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacia Map of Canada, Geological Survey of Canada (1:5 000 000 scale).



Elevation in feet above mean sea level
Mean magnetic declination 1986, 29°38' East, decreasing 15.3' annually. Readings vary from 29°23' E in the SE corner to 29°50' E in the NW corner of the map area



Base map at the same scale published by the Surveys and Mapping Branch in 1979
Streams were revised by the Geological Survey of Canada for this edition



LEGEND

QUATERNARY	38	QS 64*	Glacial and surficial deposits
TERTIARY			
LATE TERTIARY	37	LTG 62	Rhyolite porphyry, granite, granodiorite
PLIOCENE			
36	PV 62	Basalt	
Eocene			
MOUNT NANSEN GROUP			
35	EMN 59	Acid to intermediate tuff, breccia	
SLOKO GROUP			
34	ESL 59	Rhyolite, trachyte	
CRETACEOUS AND TERTIARY			
33	KTVD 56	Andesite and dacite porphyry	
CRETACEOUS			
32	KY 52	Syenite, monzonite	
31	NQM 52	Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alkaliite	
30	KG 52	Granodiorite	
JURASSIC AND CRETACEOUS			
29	JKD1 51	Diorite, hornblende diorite	
28	JKB 51	Gabbro, diorite, some ultramafic rocks	
TRIASSIC AND JURASSIC			
27	TJS 46	Argillite, sandstone, siltstone	
26	TJSV 46	Volcanic and sedimentary rocks	
25	TJC 46	Limestone	
24	TJVP 46	Augite, hornblende feldspar porphyry	
TRIASSIC			
23	TV 42	Basaltic greenstone	
UPPER TRIASSIC			
LEWES RIVER GROUP (UTLW, UTC, UTLV)			
22	UTLW 45	Greywacke, argillite, conglomerate	
21	UTC 45	Limestone	
20	UTLV 45	Andesite, basalt	
MESOZOIC UNDIVIDED			
19	MGD 41	Granodiorite, quartz monzonite	
18	MGDM 41	Foliated hornblende granodiorite, quartz monzonite	
PERMIAN AND TRIASSIC			
17	PTUB 40	Pyroxenite, serpentinite	
PALEOZOIC UNDIVIDED			
16	PC 09	Limestone	
15	PGDN 09	PELLY GNEISS: Foliated to gneissic granodiorite	
PERMIAN			
14	PT 36	TESLIN: Limestone	
CARBONIFEROUS AND PERMIAN			
13	CPH 35	HORSEFEED: Limestone	
12	CPK 35	KEDAHDA: Limestone	
11	CPC 35	Limestone	
10	CPK 35	KEDAHDA: Chert, argillite	
9	CPV 35	Andesite, basalt, chert, tuff	
8	CPSN 35	Schist, gneiss; includes BIG SALMON METAMORPHIC COMPLEX	
7	CPUB 35	Serpentinite, diorite, pyroxenite, peridotite	
PENNSYLVANIAN			
6	PCG 33	Limestone	
MISSISSIPPIAN			
5	MC 34	Limestone	
CARBONIFEROUS			
4	CC 30	Limestone	
ENGLISHMAN'S GROUP			
3	CE 30	Quartzite, phyllite, schist, chert, conglomerate, limestone	
2	CTP 30	Chert, argillite, phyllite, quartzite	
SILURIAN AND DEVONIAN			
1	SDQ 24	Dolomite, quartzite, argillite	

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

Geological boundary
Fault
No analytical result

Geological base and legend are derived from: Map 1398A, MACKILLAN RIVER, YUKON - DISTRICT OF MACKENZIE - ALASKA, NTS SHEET 105, 115. Compiled by H. Gabrielsen, D.J. Tempelman-Kluit, S.L. Blusson and R.B. Campbell, Geological Survey of Canada, Energy, Mines and Resources Canada, 1980. 1:1 000 000 scale