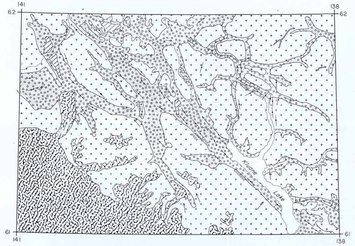


KILOMETERS - SCALE 1:1000000

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

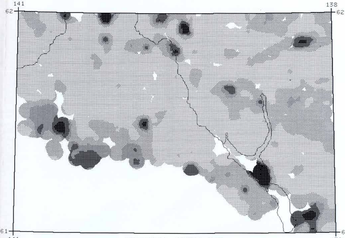
Au analyses by Chemex Labs Limited, Vancouver
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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

K.G. Campbell Corporation
880 Wellington St.
Bay 238
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



REGIONAL TREND MAP

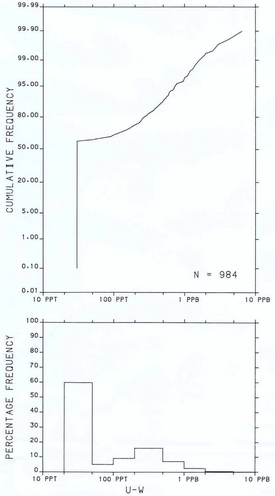
KILOMETERS - SCALE 1:1000000

UWAT

PPB	%TILE
6.50	MAX
1.20	98
0.72	95
0.50	90
0.16	70
0.03	MIN

984 SAMPLES

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
1.21 to 6.50	+	N= 19(1.9%)
0.73 to 1.20	⊡	N= 30(3.0%)
0.51 to 0.72	⊞	N= 49(5.0%)
0.17 to 0.50	⊕	N= 192(19.5%)
<0.05 to 0.16	·	N= 694(70.5%)

Canada

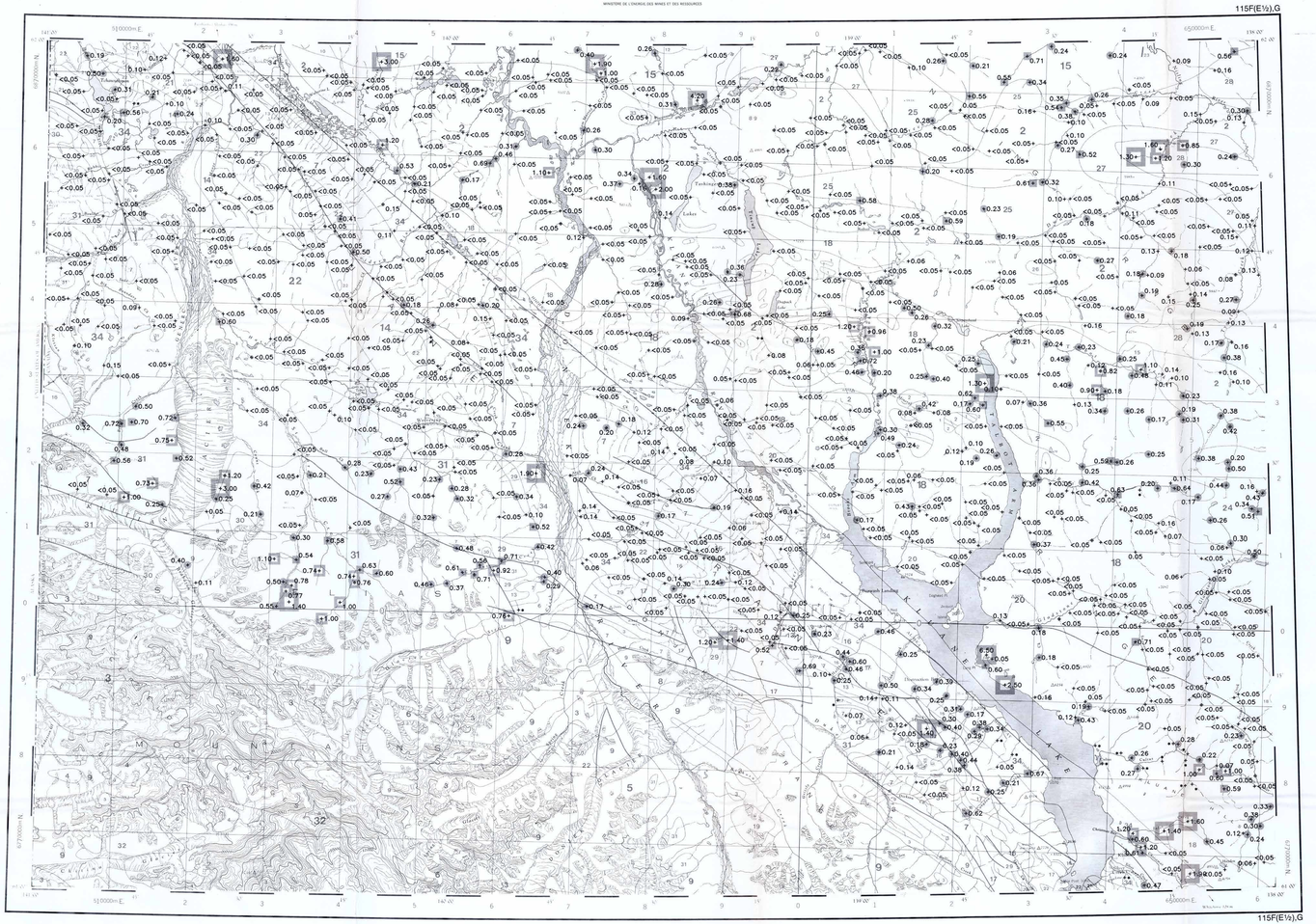
Contribution to the Canada/Yukon Subsidiary Agreement on Mineral Resources 1985-1989 under the Canada/Yukon Economic Development Agreement

Yukon Government

GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY MINES AND RESOURCES
MINISTÈRE DE L'ENERGIE, DES MINES ET DES RESSOURCES

115F(E½),G



115F(E½),G

INDEX MAP

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

URANIUM (ppb)
STREAM WATERS
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

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

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

34 QS 64* Glacial and surficial deposits

TERTIARY

33 TQM 57 Quartz monzonite, granodiorite

32 TQD 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 KGDM 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 CHITISINE, McCARTHY: Limestone, dolomite, shale

16 UTN 45 NICOLAI: 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 PPQD 35 Granodiorite, diorite, agmatite complex

4 PPQD 35 Quartz diorite, diorite, granodiorite

DEVONIAN

3 DC 25 Limestone, marble

HADRYNIAN AND CAMBRIAN

2 HCSM 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.

URANIUM (ppb)
STREAM WATERS
GSC OPEN FILE 1362
SOUTH-WEST YUKON, 1986