

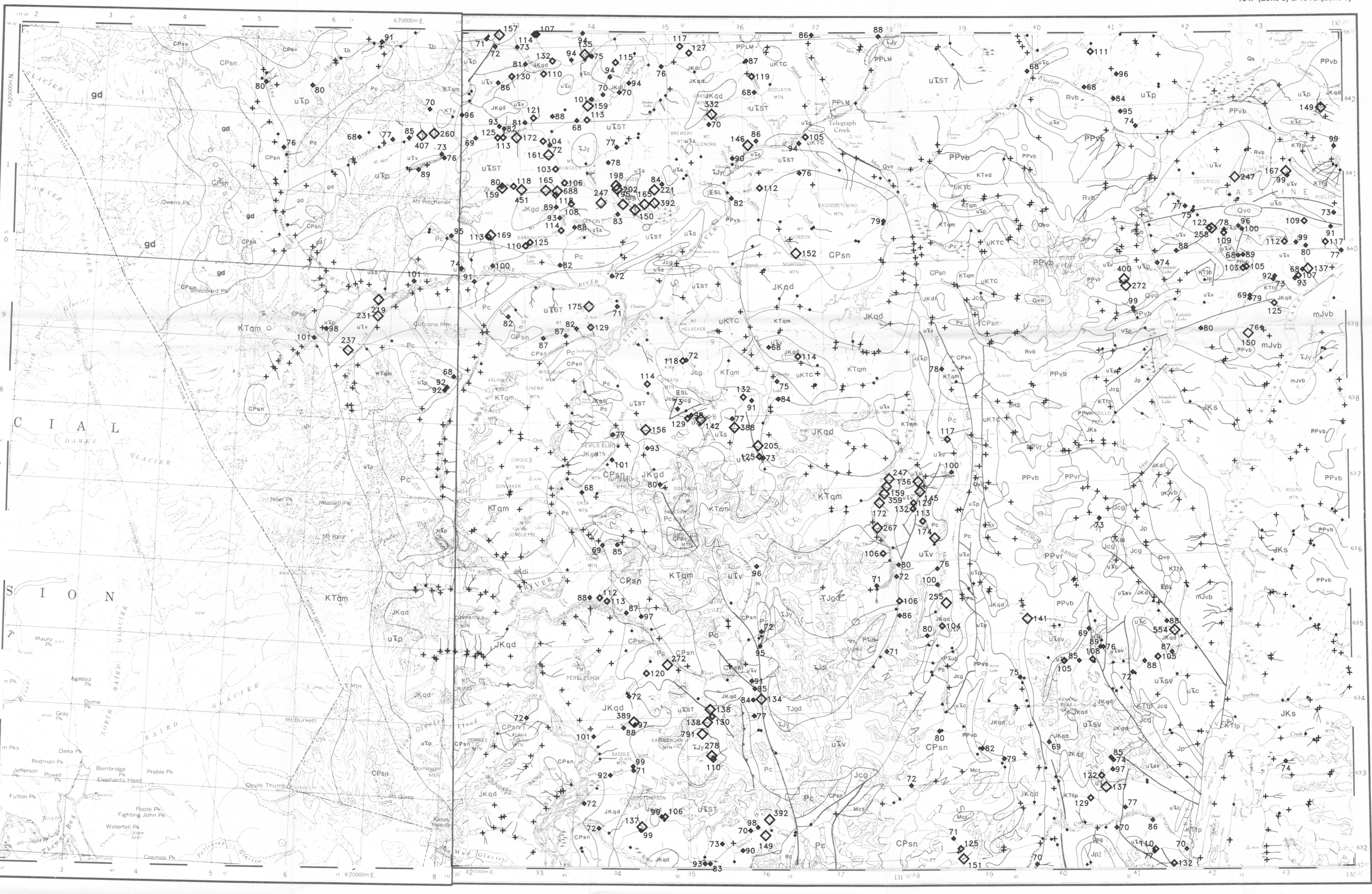
CONCENTRATION	FREQUENCY
133 - 791	◇ N = 62 (5.1%)
103 - 132	◆ N = 63 (5.2%)
68 - 102	● N = 180 (14.8%)
41 - 67	• N = 302 (24.8%)
1 - 40	+ N = 612 (50.2%)

**CONTRACTORS - 104F**  
 Sample collection by McElhenny Engineering Services Limited, Vancouver, B.C.  
 Sample preparation by Kamlopa Research and Assay Lab, Kamlopa, B.C.  
 Sediment chemical analyses by Bondar Clegg and Company Limited, North Vancouver, B.C.  
 Water chemical analyses by Barringer Magenta, Calgary, Alta.

**CONTRACTORS - 104G**  
 Sample collection by McElhenny Engineering Services Limited, Vancouver, B.C.  
 Sample preparation by Golder Associates, Ottawa, Ont.  
 Sediment chemical analyses by Bondar Clegg and Company Limited, Ottawa, Ont.  
 Water chemical analyses by Chemex Labs, North Vancouver, B.C.

**OPEN FILE PRODUCTION**  
 British Columbia  
 Ministry of Energy, Mines and Petroleum Resources  
 Geological Survey Branch  
 Applied Geochemistry

104F (Zone 8) & 104G (Zone 9)



This map forms one of a series of open file maps (B.C. RGS 18-20) released in 1988 by the British Columbia Geological Survey in cooperation with the Geological Survey of Canada. Open File RGS 19 consists of sample location maps at 1:100 000 and 1:250 000 scale, symbol and value maps for 20 elements in stream sediments and 2 elements in stream waters, a current mineral inventory map, listings of field and analytical results and a statistical summary. Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared are available for reference at:  
 Ministry Library in Victoria  
 Libraries of the Geological Survey of Canada  
 Map Library at the University of British Columbia, Vancouver

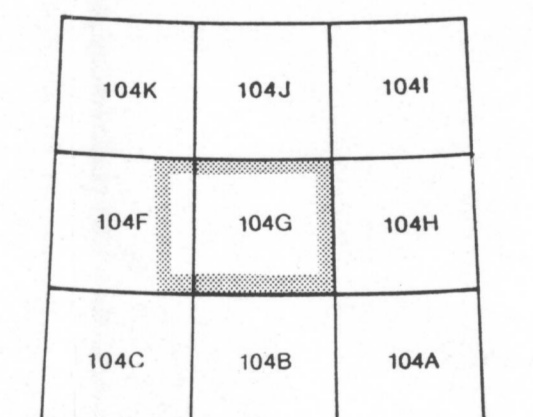
for purchase at:  
 Maps B.C.  
 600 Superior Street  
 Victoria, B.C.  
 V8V 1X2  
 (604) 387-1441

The data are also available in digital form on MS-DOS 5 1/4" diskettes. For further information please contact:  
 Applied Geochemistry Subsection  
 Geological Survey Branch  
 Ministry of Energy, Mines and Petroleum Resources  
 Parliament Buildings  
 Victoria, British Columbia, V8V 1X4  
 (604) 387-3234

**COPPER (ppm)  
 STREAM SEDIMENTS**  
 B.C. RGS 19  
 GSC OPEN FILE 1646  
 NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 111  
 CANADA-BRITISH COLUMBIA  
 MINERAL DEVELOPMENT AGREEMENT (1985-1989)  
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY  
 NORTHWESTERN BRITISH COLUMBIA, 1987  
 SCALE 1: 250,000

Elevation in feet above mean sea level  
 104G: Mean magnetic declination 1954, 30°15' East in centre of map area, decreasing 4.0' annually  
 104F: Mean magnetic declination 1966, 28°45' East in centre west edge of map area, increasing 3.8' annually

Province of British Columbia  
 Ministry of Energy, Mines and Petroleum Resources  
 Energy, Mines and Petroleum Resources Canada  
 This project is a contribution to the Canada-British Columbia Mineral Development Agreement, 1985-1990



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**COPPER (ppm)  
 STREAM SEDIMENTS**  
 B.C. RGS 19  
 GSC OPEN FILE 1646  
 104F - SUNDUM / 104G - TELEGRAPH CREEK  
 NORTHWESTERN BRITISH COLUMBIA, 1987

- LEGEND**
- QUATERNARY**
- RECENT**
- Rvb (BSLT 64\*) Basalts, cinder, ash
- PLEISTOCENE AND RECENT**
- Qa (TILL 64) Surficial clastic sediments and glacial deposits
  - Qvb (OLVB 64) Olivine basalt
- TERTIARY AND QUATERNARY**
- PLIOCENE AND PLEISTOCENE**
- PPM (BSLT 63) LEVEL MOUNTAIN GROUP: basalt
  - PPvb (BRTL 63) Basalt, rhyolite, olivine, basalt
  - PPv (RYLT 63) Rhyolite, trachyte, tuff
- TERTIARY**
- Eocene**
- ESL (RYLT 59) SLOWO GROUP: rhyolite, trachyte, andesite, basalt
- CRETACEOUS AND TERTIARY**
- KTvd (ANDS 56) Andesite
- CRETACEOUS**
- KTc (SNDS 55) TANGO CREEK: sandstone, siltstone, coal
- JURASSIC AND CRETACEOUS**
- JKs (SLSN 51) Siltstone, greywacke, conglomerate, shale (upper Hazelton Group in part)
- JURASSIC**
- JHs (SLSN 50) HAZELTON GROUP: siltstone, greywacke, sandstone, tuff
  - mJvb (BSLT 49) Basalt, pillow lava, tuff, volcaniclastic rocks
  - Jp (SHLE 49) Shale
  - JT (COLM 49) TANKWAHON: conglomerate, grit, greywacke
  - Jcg (COGK 49) Conglomerate, grit, greywacke
- TRIASSIC**
- uTp (PLT 45) Phyllite, argillite, siltstone, greywacke, limestone
  - uTs (SLSN 45) Siltstone, chert, sandstone, tuff
  - uTv (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks
  - uTst (VLRK 45) STEPHEN GROUP: undifferentiated volcanic and sedimentary rocks
  - uTv (ANBT 45) Andesite, basalt
  - uTv (ANDS 45) Andesite, pyroclastic rocks, greenstone
- PERMIAN**
- Pc (LMSH 36) Limestone, minor calcareous shale
- CARBONIFEROUS AND PERMIAN**
- CPsn (SCST 35) Schist, gneiss
  - CPsv (GRNS 35) Greenstone, limestone, shale, clastic sedimentary rocks
- MISSISSIPPIAN**
- Mcl (LMTF 34) Limestone, tuff, chert
- PLUTONIC ROCKS**
- CRETACEOUS AND TERTIARY**
- KTtp (FLSP 56) Felsite, felspar porphyry
  - KTqm (QTMZ 56) Quartz monzonite
  - KTly (LSYN 56) Leucocratic syenite
- JURASSIC AND CRETACEOUS**
- JKgd (GRDR 51) Granodiorite
  - JKqd (GRZD 51) Quartz diorite
  - JKdi (DORT 51) Diorite
- TRIASSIC AND JURASSIC**
- TKgd (GRDR 48) Granodiorite
  - TKdi (GRZD 48) Quartz diorite, diorite, amphibolite
  - TKly (SYNT 46) Syenite, monzonite
- TRIASSIC**
- Tb (DORT 42) Diorite, gabbro
  - Td (DORT 42) Diorite, monzonite
- PERMIAN AND TRIASSIC**
- Ptub (UMFC 40) Ultramafic rocks, serpentinite
- AGE UNKNOWN**
- gd (GRDR 65) Granodiorite
  - m (AMPH 65) Amphibolite, gneiss, migmatite
- SYMBOLS**
- Geological boundary
  - Fault
  - Thrust fault
  - Glaciers
  - Field duplicate sample sites
- GEOLOGY AND MINERAL DEPOSITS**
- Geological base and legend are derived from:  
 Souther, J.G., Brew, D.A. and Okulitch, A.V. (compilers) (1979) Iskut River - Geological Survey of Canada, Map 1418A.
- \*A mnemonic code assigned to rock types and recorded as part of field observations.
- For location of the following specific information for this area refer to British Columbia Ministry of Energy, Mines and Petroleum Resources; mineral deposits; Mineral Inventory Map, M 104F - SUNDUM and M 104G - TELEGRAPH CREEK; assessment reports refer to Assessment Report Index Map, AR 104F - SUNDUM and AR 104G - TELEGRAPH CREEK; bedrock geological mapping refer to Index of Bedrock Mapping, 1983; for mineral and placer claim maps contact the Ministry of Energy, Mines and Petroleum Resources, Mineral Titles Branch, Victoria, for current editions and status.

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