

| CONCENTRATION |   | FREQUENCY       |
|---------------|---|-----------------|
| 25 - 55       | ◇ | N = 59 (4.8%)   |
| 23 - 24       | ◆ | N = 43 (3.5%)   |
| 18 - 22       | ◆ | N = 185 (15.2%) |
| 14 - 17       | + | N = 303 (24.9%) |
| 1 - 13        | + | N = 629 (51.6%) |

**CONTRACTORS - 104F**

Sample collection by McElhenny Engineering Services Limited, Vancouver, B.C.

Sample preparation by Kamloops Research and Assay Lab, Kamloops, B.C.

Sediment chemical analyses by Bondar Clegg and Company Limited, North Vancouver, B.C.

Water chemical analyses by Berrington Magenta, Calgary, Alta.

**CONTRACTORS - 104G**

Sample collection by McElhenny Engineering Services Limited, Vancouver, B.C.

Sample preparation by Golder Associates, Ottawa, Ont.

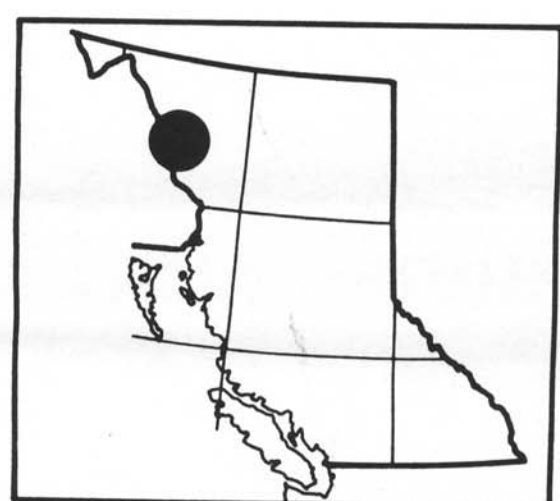
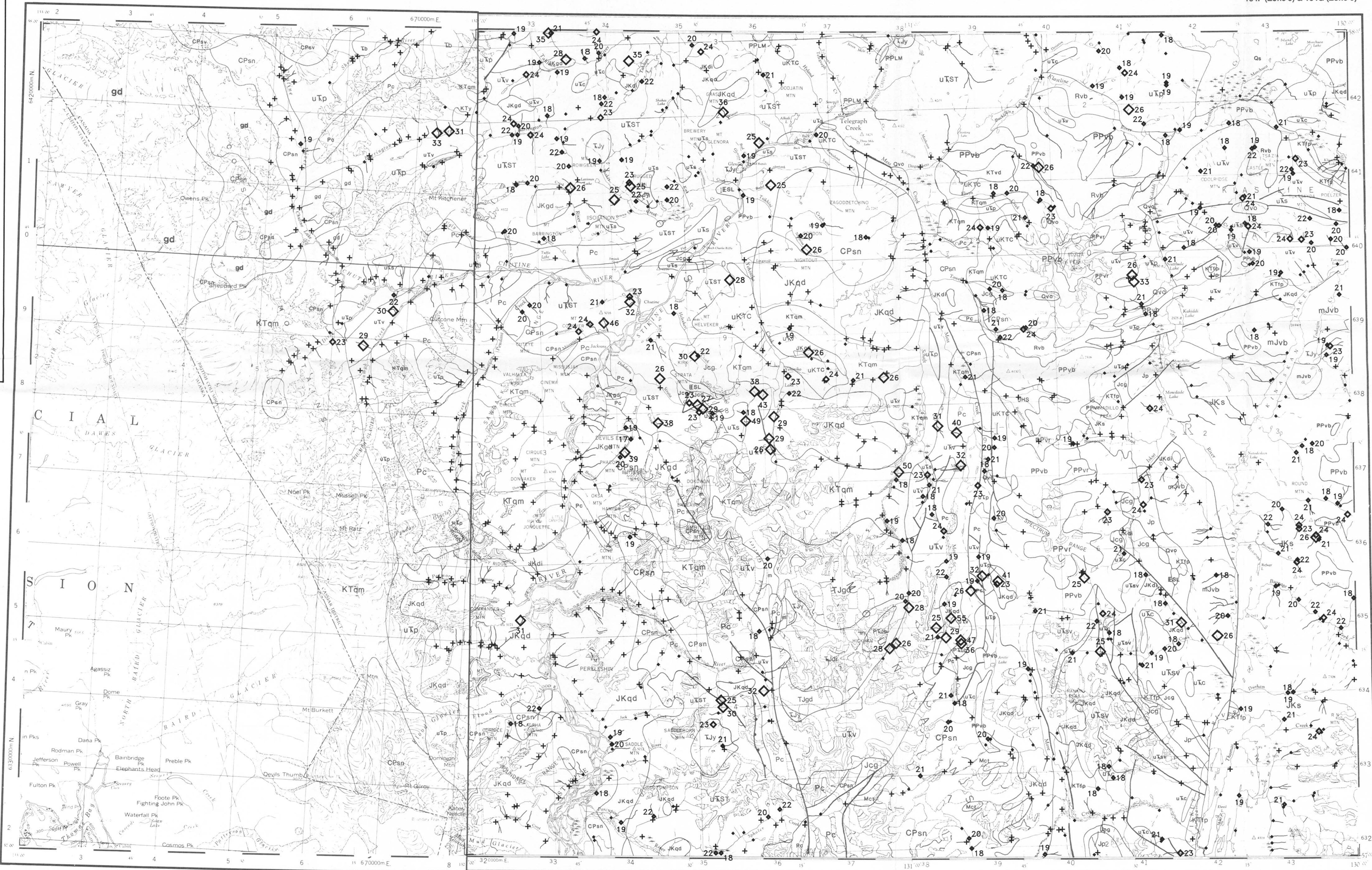
Sediment chemical analyses by Bondar Clegg and Company Limited, Ottawa, Ont.

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 16-20) released in 1987 by the British Columbia Geological Survey in cooperation with the Geological Survey of Canada.

Open File RGS 16 consists of sample location maps at 1:100 000 and 1:250 000 scales, symbol and value maps for 20 elements in stream sediments and 24 elements in stream water, 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.  
555 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  
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Victoria, British Columbia, V8V 1X4  
(604) 387-3234

**COBALT (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**

**KILOMETRES**

Elevation in feet above mean sea level

104G : Mean magnetic declination 1954, 2015° East in centre of map area, decreasing 4.0° annually

104F : Mean magnetic declination 1966, 2004° East in centre west edge of map area, increasing 3.8° annually

Universal Transverse Mercator Projection  
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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, 1985-1989

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**COBALT (ppm)**  
**STREAM SEDIMENTS**

**B.C. RGS 19**  
**GSC OPEN FILE 1646**

**104F - SUMDUM / 104G - TELEGRAPH CREEK**  
**NORTHWESTERN BRITISH COLUMBIA, 1987**

**LEGEND**  
**STRATIFIED ROCKS**

**QUATERNARY**

**RECENT**

**Rvb** (BSLT 64) Basalts, cinder, ash

**PLEISTOCENE AND RECENT**

**Qs** (TLL 64) Surficial clastic sediments and glacial deposits

**Qv** (OLVB 64) Olivine basalt

**TERTIARY AND QUATERNARY**

**PLIOGENE AND PLEISTOCENE**

**PpLm** (BSLT 63) LEVEL MOUNTAIN GROUP: basalt

**PpVb** (BSTR 63) Basalt, rhyolite, olivine, basalt

**PpVr** (RYLT 63) Rhyolite, trachyte, tuff

**TERTIARY**

**EOCENE**

**ESL** (RYLT 59) SLOKO GROUP: rhyolite, trachyte, andesite, basalt

**CRETACEOUS AND TERTIARY**

**KTVd** (ANDS 56) Andesite

**CRETACEOUS**

**UKTC** (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, volcanoclastic rocks

**Jp** (SHLE 49) Shale

**JT** (COLM 49) TAKWAHONI: conglomerate, grit, greywacke

**Jcg** (CGOK 49) Conglomerate, grit, greywacke

**TRIASSIC**

**uTp** (PLT 45) Phyllite, argillite, siltstone, greywacke, limestone

**uTs** (SLSN 45) Siltstone, chert, sandstone, tuff

**uTsv** (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks

**uST** (VLKR 45) STUHN 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**

**CPan** (SCST 35) Schist, gneiss

**CPsv** (GRNS 35) Greenstone, limestone, shale, clastic sedimentary rocks

**MISSISSIPPIAN**

**Mct** (LMTF 34) Limestone, tuff, chert

**PLUTONIC ROCKS**

**CRETACEOUS AND TERTIARY**

**KTp** (FLSP 56) Felsite, feldspar porphyry

**KTm** (QTMZ 56) Quartz monzonite

**KTy** (LSYN 56) Leucocratic syenite

**JURASSIC AND CRETACEOUS**

**JKgd** (GRDR 51) Granodiorite

**JKqd** (GRZO 51) Quartz diorite

**JKdi** (DORT 51) Diorite

**TRIASSIC AND JURASSIC**

**TJgd** (GRDR 46) Granodiorite

**TJdi** (GRZO 46) Quartz diorite, diorite, amphibolite

**TJy** (SYNT 46) Syenite, monzonite

**TRIASSIC**

**Tb** (DORT 42) Diorite, gabbro

**Tdi** (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:  
Southern, J.G., Brew, D.A. and Oculish, 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 refer to Mineral Inventory Map, 104F - SUMDUM and 104G - TELEGRAPH CREEK; assessment reports refer to Assessment Report Index Map, 104F - SUMDUM and 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.

**COBALT (ppm)**  
**STREAM SEDIMENTS**

**B.C. RGS 19**  
**GSC OPEN FILE 1646**

**104F - SUMDUM / 104G - TELEGRAPH CREEK**  
**NORTHWESTERN BRITISH COLUMBIA, 1987**