

MERCURY (ppb)

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] (ITLL 64) Surficial clastic sediments and glacial deposits

[Qvo] (OLVB 64) Olivine basalt

TERTIARY AND QUATERNARY

PLIOCENE AND PLEISTOCENE

[PPLM] (BSLT 63) LEVEL MOUNTAIN GROUP: basalt

[PPvb] (BTRT 63) Basalt, rhyolite, olivine, basalt

[PPvt] (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] (SND5 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] (SHE 49) Shale

[JT] (CGLM 49) TAKWAHONI: conglomerate, grit, greywacke

[Jcg] (CGGK 49) Conglomerate, grit, greywacke

TRIASSIC

[UTP] (PLIT 45) Phyllite, argillite, siltstone, greywacke, limestone

[USL] (SLSN 45) Siltstone, chert, sandstone, tuff

[UTsv] (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks

[UTST] (VLAK 45) STUWIM GROUP: undifferentiated volcanic and sedimentary rocks

[UTv] (ANBT 45) Andesite, basalt

[UTvd] (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] (MTF 34) Limestone, tuff, chert

PLUTONIC ROCKS

CRETACEOUS AND TERTIARY

[KTtp] (FLSP 56) Felsite, feldspar porphyry

[KTam] (OTM2 56) Quartz monzonite

[KTy] (LSYN 56) Leucocratic syenite

JURASSIC AND CRETACEOUS

[JKgd] (GRDR 51) Granodiorite

[JKqd] (GRDZ 51) Quartz diorite

[JKdi] (DORT 51) Diorite

TRIASSIC AND JURASSIC

[TJgd] (GRDR 46) Granodiorite

[TJdi] (GRDZ 46) Quartz diorite, diorite, amphibolite

[TJy] (SYNT 46) Syenite, monzonite

TRIASSIC

[Tb] (DORT 42) Diorite, gabbro

[Td] (DORT 42) Diorite, monzonite

PERMIAN AND TRIASSIC

[Ptkb] (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 Chalkin, A.V. (compilers) (1979) Iakut River, Geological Survey of Canada, Map 1418A.

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

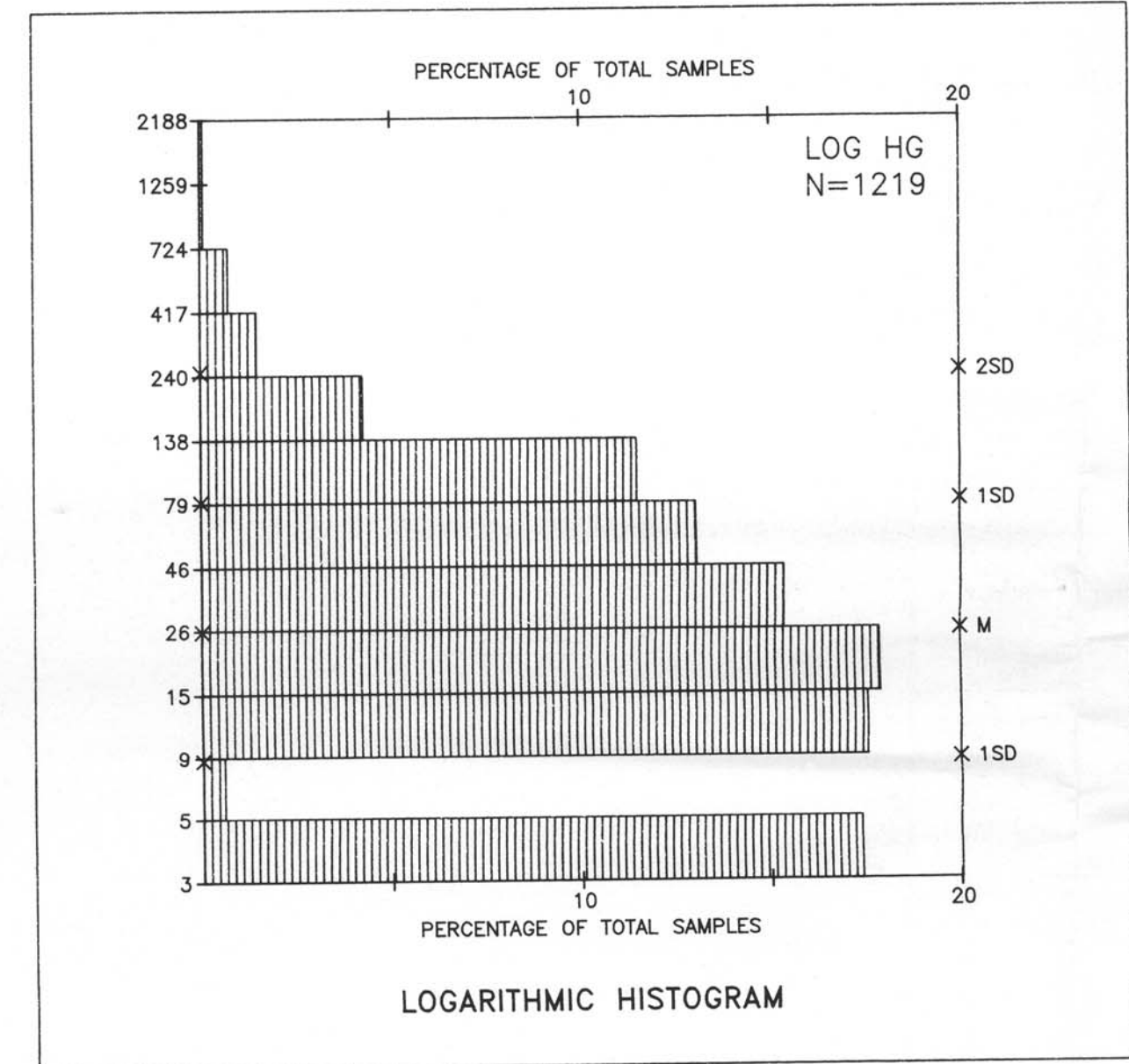
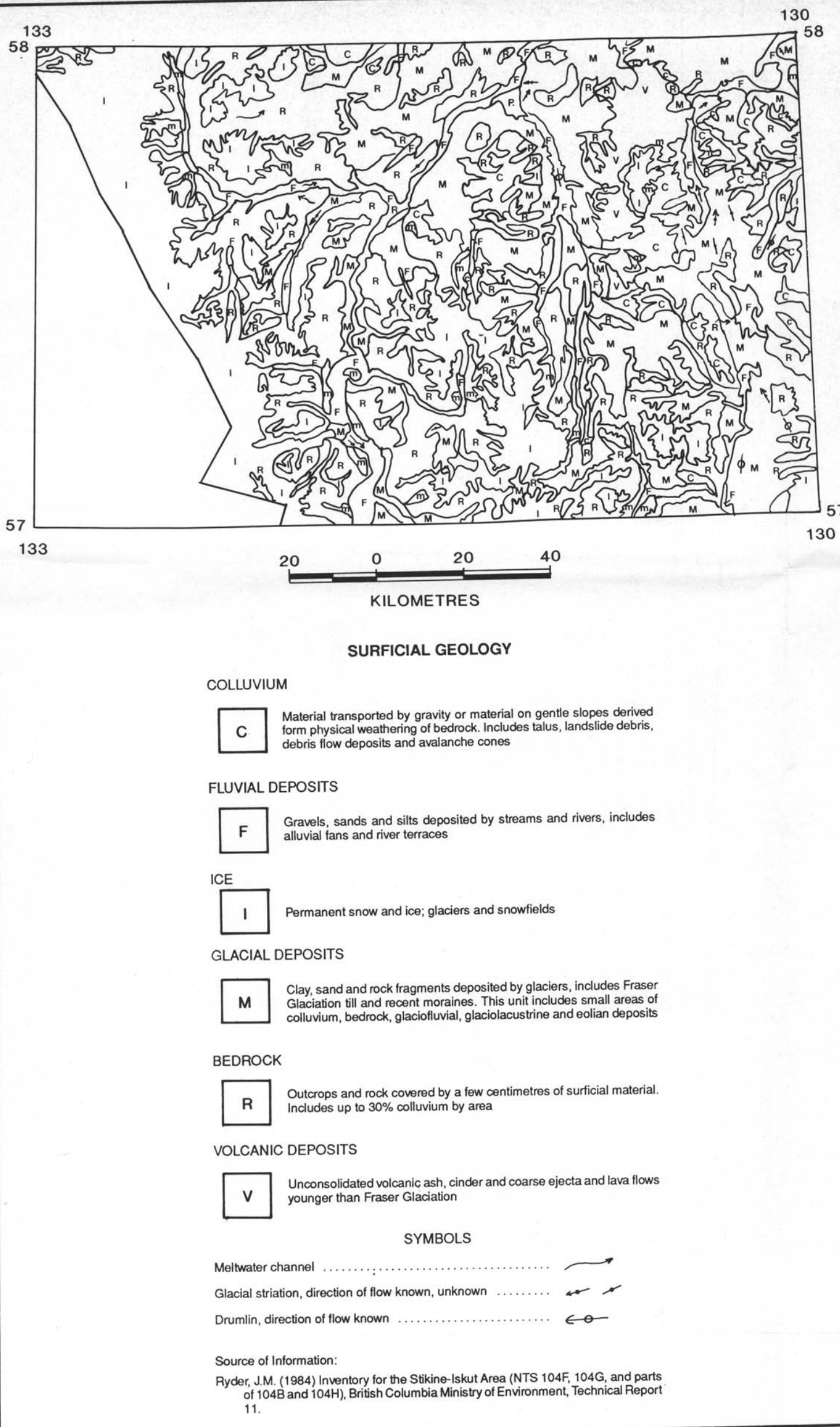
For location of the following specific information for this area refer to British Columbia Ministry of Energy, Mines and Petroleum Resources, mineral deposits refer to: Mineral Inventory Map, MT 104F - SUMDUM and MT 104G - TELEGRAPH CREEK; Assessment reports refer to: Assessment Report Index Map, AR 104F - SUMDUM 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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CONCENTRATION	FREQUENCY
161 - 2145	◇ N = 60 (4.9%)
116 - 160	◆ N = 57 (4.7%)
61 - 115	♦ N = 174 (14.3%)
26 - 60	• N = 276 (22.6%)
5 - 25	• N = 652 (53.5%)

CONTRACTORS - 104F

Sample collection by McElhannay 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 Barringer Magenta, Calgary, Alta.

CONTRACTORS - 104G

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

Sample preparation by Golder Associates, Ottawa, Ont.

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

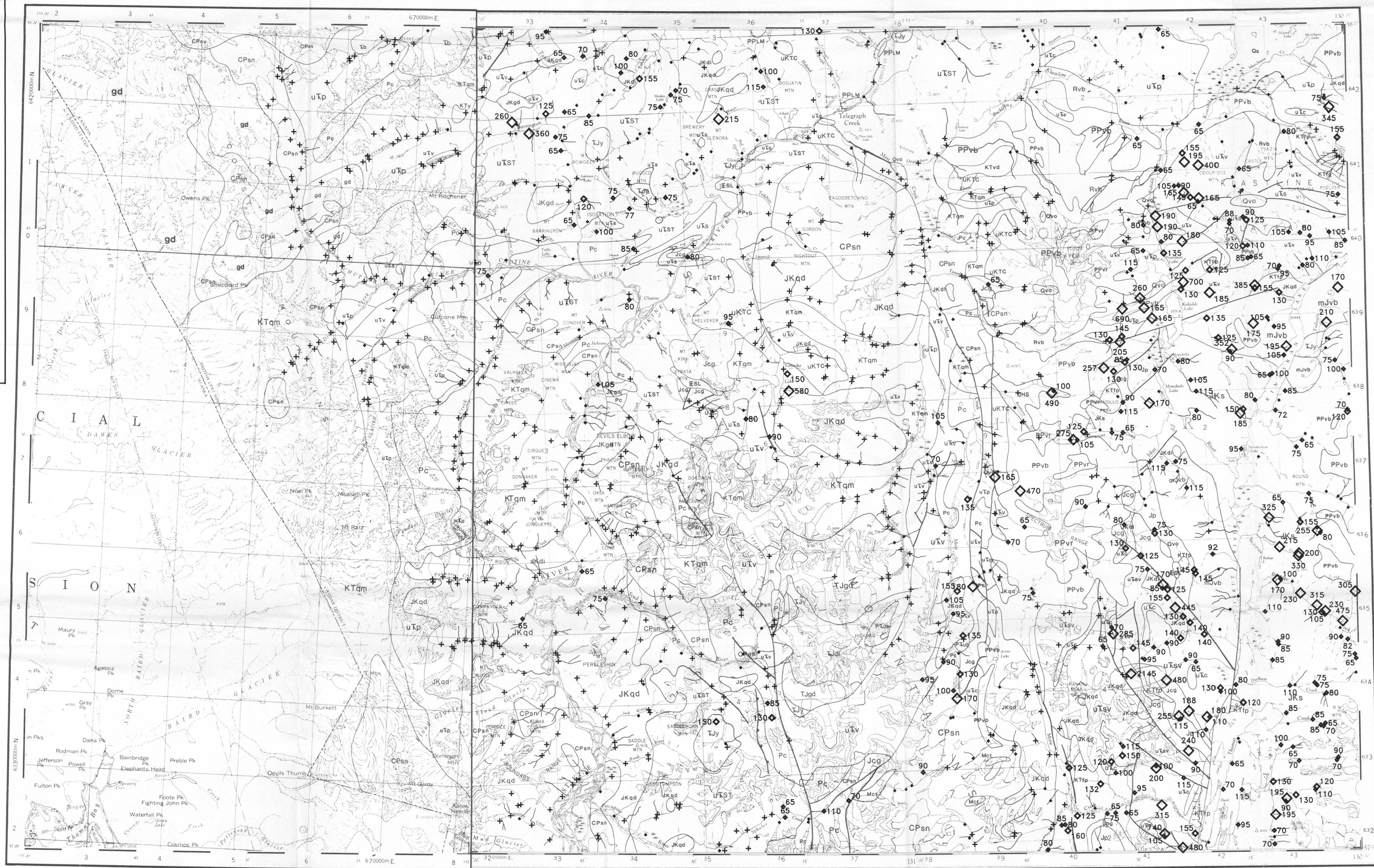
Water chemical analyses by Chemex Labs, North Vancouver, B.C.

OPEN FILE PRODUCTION

British Columbia
Ministry of Energy, Mines and Petroleum Resources
Geological Survey Branch

Applied Geochemistry

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



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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

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 co-operation 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 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:

Mapa B.C.
555 Superior Street
Victoria, B.C.
V8V 1G3
(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 Subaction
Geological Survey Branch
Ministry of Energy, Mines and Petroleum Resources
Parliament Buildings
Victoria, British Columbia, V8V 1X4
(604) 387-3234

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 1956, 28°45' East in centre west edge of map area, increasing 3.5' 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 - 1990

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