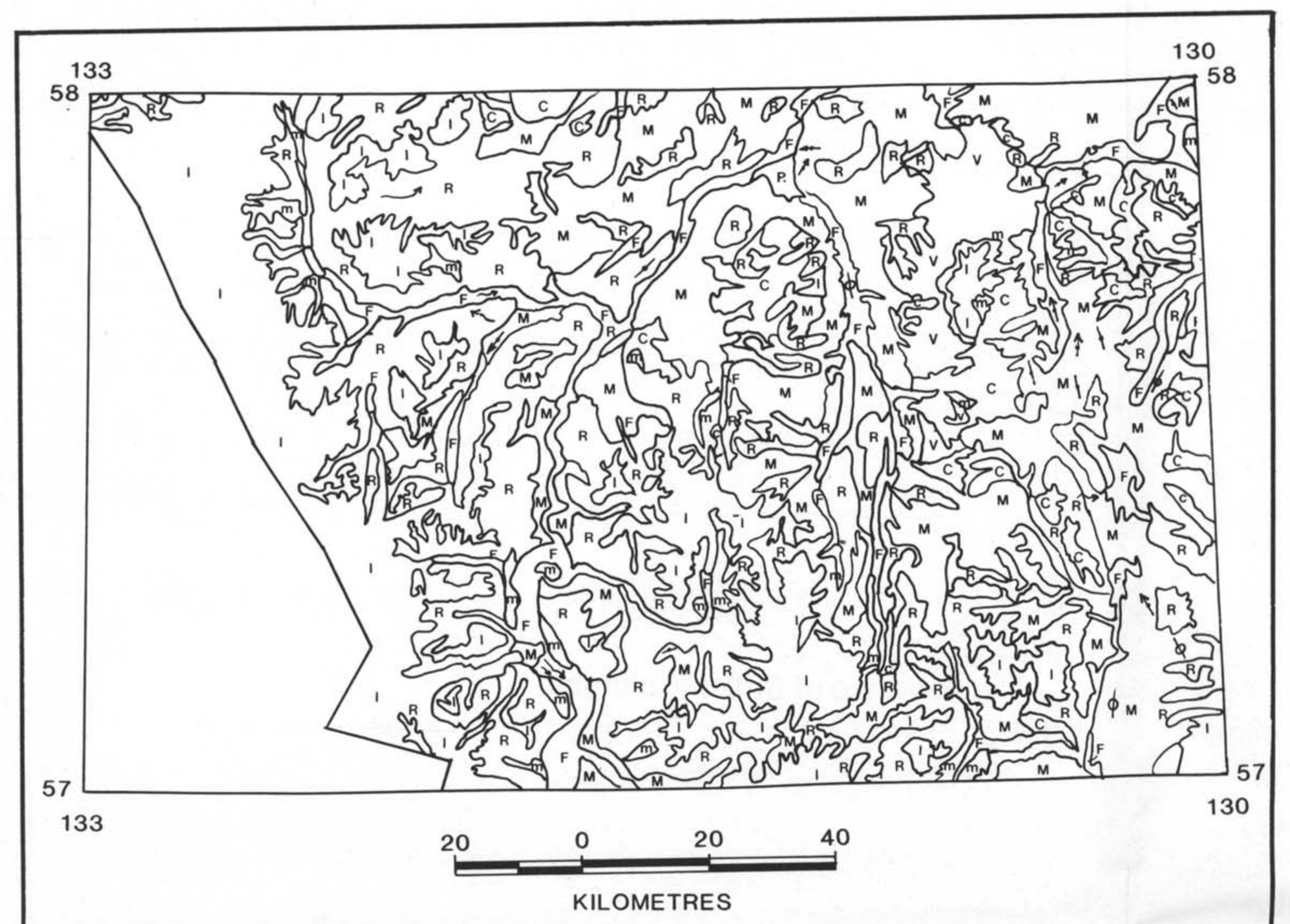


SURFICIAL GEOLOGY

COLLUVIUM

C Material transported by gravity or material on gentle slopes derived form physical weathering of bedrock. Includes talus, landslide debris, debris flow deposits and avalanche cones

FLUVIAL DEPOSITS

F Gravels, sands and silts deposited by streams and rivers, includes alluvial fans and river terraces

ICE

I Permanent snow and ice; glaciers and snowfields

GLACIAL DEPOSITS

M Clay, sand and rock fragments deposited by glaciers, includes Fraser Glaciation till and recent moraines. This unit includes small areas of colluvium, bedrock, glaciofluvial, glaciolacustrine and eolian deposits

BEDROCK

R Outcrops and rock covered by a few centimetres of surficial material. Includes up to 30% colluvium by area

VOLCANIC DEPOSITS

V Unconsolidated volcanic ash, cinder and coarse ejecta and lava flows younger than Fraser Glaciation

SYMBOLS

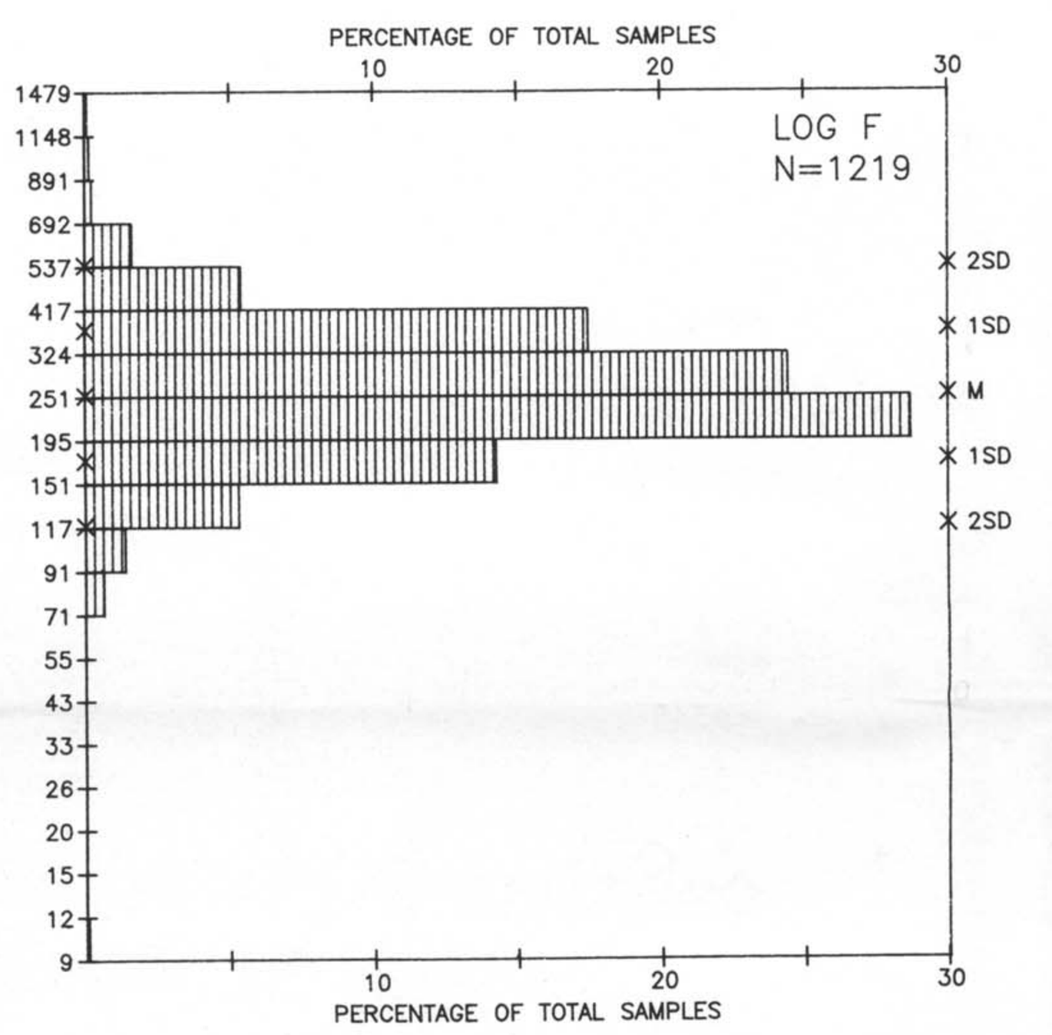
Meltwater channel ....

Glacial striation, direction of flow known, unknown ....

Drumlin, direction of flow known ....

Source of Information:

Ryder, J.M. (1984) Inventory for the Stikine-Iskut Area (NTS 104F, 104G, and parts of 104B and 104H), British Columbia Ministry of Environment, Technical Report 11.



LOGARITHMIC HISTOGRAM

CONCENTRATION		FREQUENCY	
461 – 1430	◇ (large)	N = 57	(4.7%)
396 – 460	◇ (small)	N = 63	(5.2%)
326 – 395	◆	N = 173	(14.2%)
251 – 325	♦ (small)	N = 311	(25.5%)
10 – 250	+	N = 615	(50.5%)

CONTRACTORS - 104F

Sample collection by McElhanney 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 McElhanney 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
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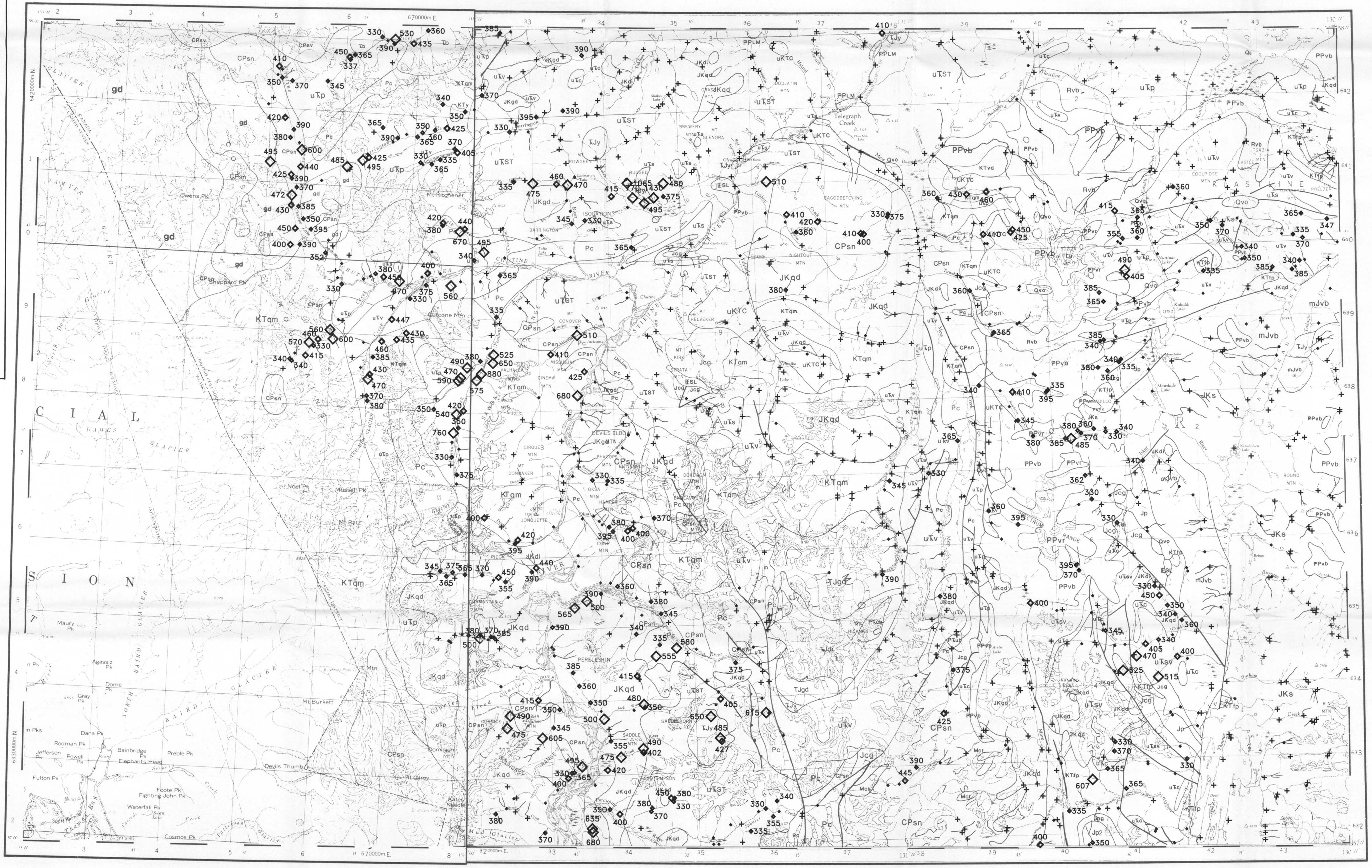
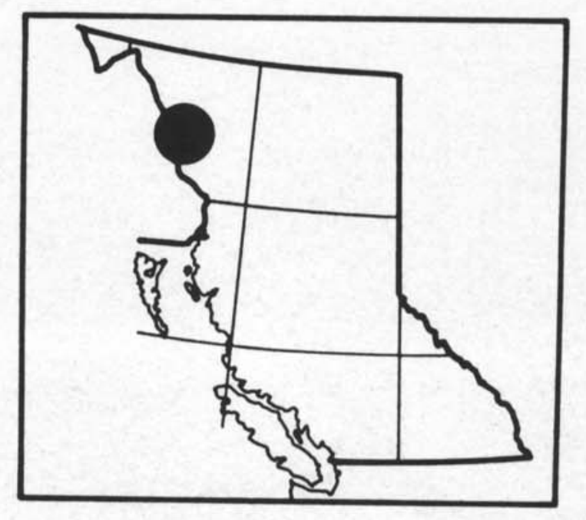
104F (Zone 8) & 104G (Zone 9)





This map forms one of a series of open file maps (B.C. RGS 18-20) released in 1980 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 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.
553 Superior Street
Victoria, B.C.
V8V 1X5
(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

FLUORINE (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

5 0 5 10 15 20 25 30

KILOMETRES

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

Universal Transverse Mercator Projection
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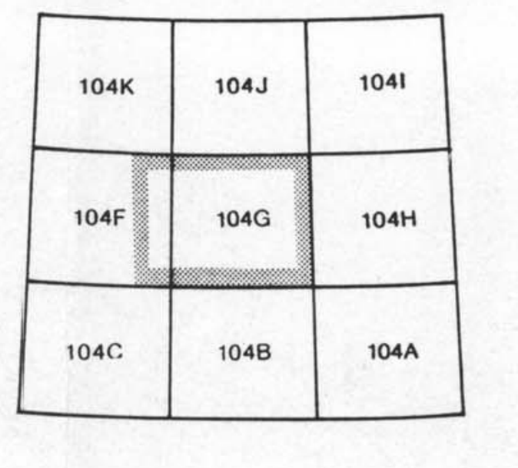
Province of British Columbia — Ministry of Energy, Mines and Petroleum Resources — Energy, Mines and Resources Canada — Énergie, Mines et Ressources Canada

THIS PROJECT IS A CONTRIBUTION TO THE CANADA / BRITISH COLUMBIA MINERAL DEVELOPMENT AGREEMENT, 1985 - 1990



FLUORINE (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	(TILL 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
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, volcaniclastic rocks
Jp	(SHLE 49)	Shale
JT	(CGLM 49)	TAKWAHONI: conglomerate, grit, greywacke
Jcg	(CGGK 49)	Conglomerate, grit, greywacke

TRIASSIC

uTp	(PLLT 45)	Phyllite, argillite, siltstone, greywacke, limestone
uTs	(SLSN 45)	Siltstone, chert, sandstone, tuff
uTsv	(ANDV 45)	Undifferentiated andesitic volcanic and clastic sedimentary rocks
uTST	(VLRK 45)	STUHINI 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

CPsn	(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

KTfp	(FLSP 56)	Felsite, feldspar porphyry
KTqm	(QTMZ 56)	Quartz monzonite
KTy	(LSYN 56)	Leucocratic syenite

JURASSIC AND CRETACEOUS

JKgd	(GRDR 51)	Granodiorite
JKqd	(QRZD 51)	Quartz diorite
JKdi	(DORT 51)	Diorite

TRIASSIC AND JURASSIC

TJgd	(GRDR 46)	Granodiorite
TJdi	(QRZD 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:

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 refer to, Mineral Inventory Map, MI 104F – SUMDUM and MI 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.

FLUORINE (ppm)

STREAM SEDIMENTS

B.C. RGS 19
GSC OPEN FILE 1646

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