

SURFICIAL GEOLOGY

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

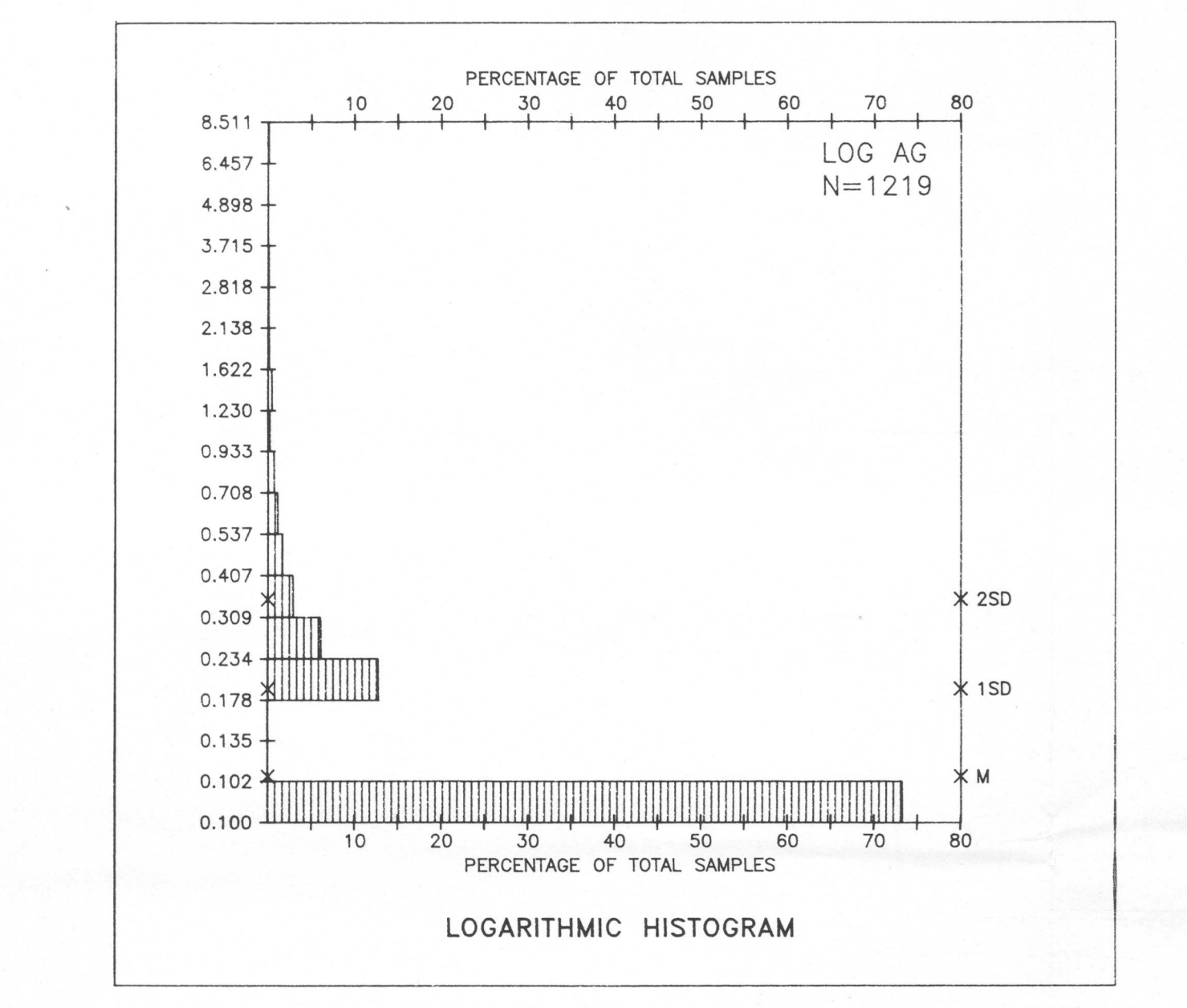
GLACIAL DEPOSITS
M Clay, sand and rock fragments deposited by glaciers, includes Fraser Glaciation III and recent moraines. This unit includes small areas of colluvium, bedrock, glaciofluvial, glaciolacustrine and eolian deposits.

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
 Melwater channel
 Glacial striation, direction of flow known, unknown
 Drumlins, direction of flow known

Source of information:
 Ryder, J.M. (1984) Inventory for the Skeena-Iskut Area (N75 104F, 104G, and parts of 104B and 104H), British Columbia Ministry of Environment, Technical Report 11.



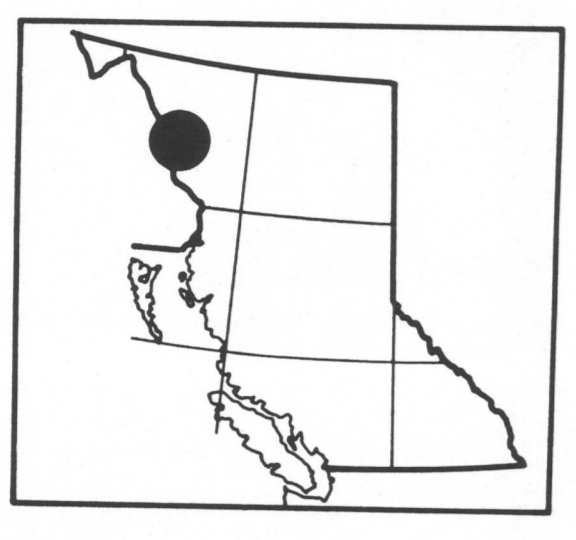
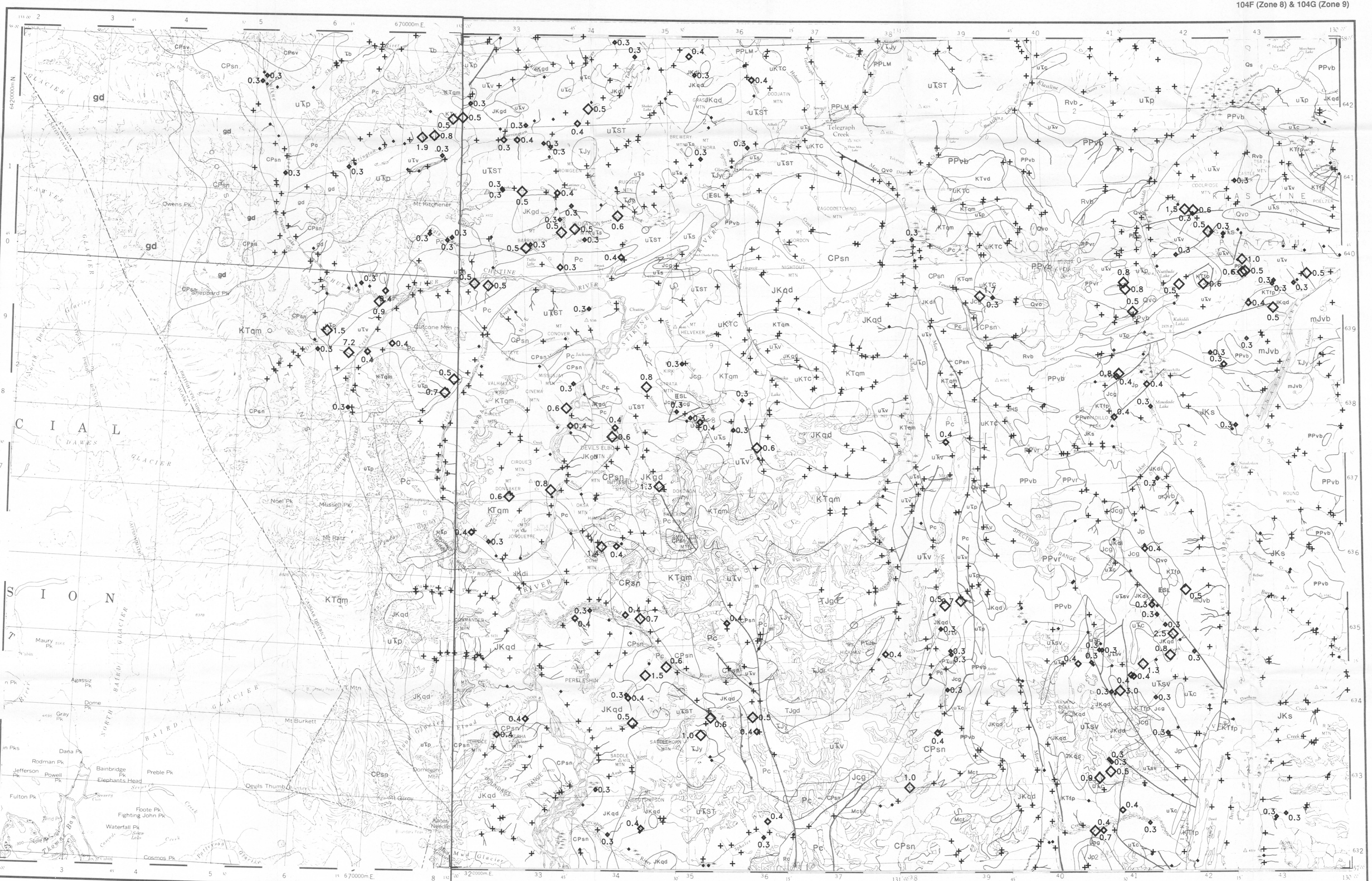
CONCENTRATION	FREQUENCY
0.5 - 7.2	◇ N = 58 (4.8%)
0.4 - 0.4	◇ N = 36 (3.0%)
0.3 - 0.3	◆ N = 75 (6.2%)
0.2 - 0.2	• N = 156 (12.8%)
0.1 - 0.1	+ N = 894 (73.3%)

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 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 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
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 The data are also available in digital form on MS-DOS 5 1/4" diskettes.
 For further information please contact:
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 Geological Survey Branch
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 Victoria, British Columbia, V8V 1X4
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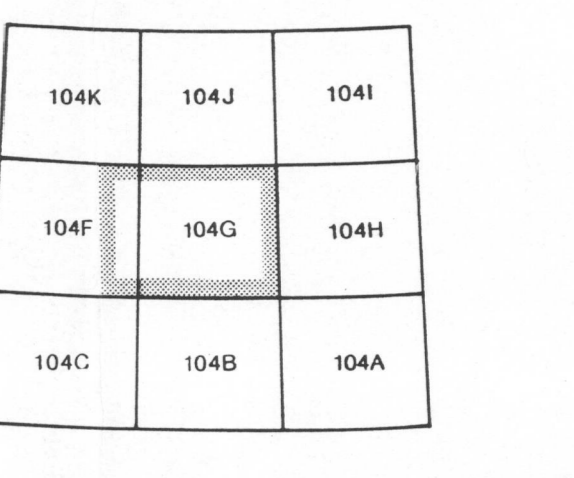
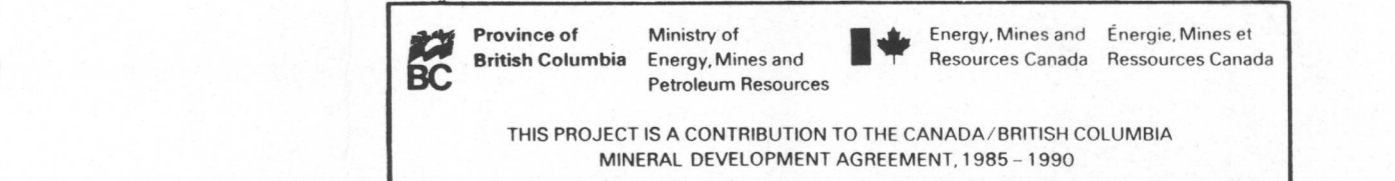
SILVER (ppm)
STREAM SEDIMENTS
 B.C. RGS 19
 GSC OPEN FILE 1646
 NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 111
 CANADA-BRITISH COLUMBIA
 MINERAL DEVELOPMENT AGREEMENT (1985-1989)
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
 NORTHWESTERN BRITISH COLUMBIA, 1987
 SCALE 1 : 250 000



Province of British Columbia
 Ministry of Energy, Mines and Petroleum Resources
 Energy, Mines and Petroleum Resources Canada
 Energy, Mines and Petroleum Resources
 THIS PROJECT IS A CONTRIBUTION TO THE CANADA-BRITISH COLUMBIA MINERAL DEVELOPMENT AGREEMENT, 1985-1990

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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SILVER (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
Rv1s (BSLT 647) Basalts, cinder, ash

PLEISTOCENE AND RECENT
Qs (TILL 64) Surficial clastic sediments and glacial deposits
Qv0 (OLVB 64) Olivine basalt

TERTIARY AND QUATERNARY

PLIOCENE AND PLEISTOCENE
Pp1m (BSLT 63) LEVEL MOUNTAIN GROUP: basalt
Pp1v (BTRT 63) Basalt, rhyolite, olivine, basalt
Pp1v (RYLT 63) Rhyolite, trachyte, tuff

TERTIARY

Eocene
Es1 (RYLT 59) SLOKO GROUP: rhyolite, trachyte, andesite, basalt

CRETACEOUS AND TERTIARY
Ktvd (ANDS 56) Andesite

CRETACEOUS
Uk1c (ANDS 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 (ICGLM 49) TAKAHONAI: conglomerate, grit, greywacke
Jcg (CGGK 49) Conglomerate, grit, greywacke

TRIASSIC
Utp (PLLT 45) Phyllite, argillite, siltstone, greywacke, limestone
Us (SLSN 45) Siltstone, chert, sandstone, tuff
Usv (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks
Ust (VLRK 45) STUHNH GROUP: undifferentiated volcanic and sedimentary rocks
Utv (ANDT 45) Andesite, basalt
Uvd (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
Ktp (FLSP 56) Felsite, feldspar porphyry
Ktam (DTM2 56) Quartz monzonite
Kty (LSYN 56) Leucocratic syenite

JURASSIC AND CRETACEOUS
Jkad (GRDR 51) Granodiorite
Jkqd (GRZD 51) Quartz diorite
Jkdi (DORT 51) Diorite

TRIASSIC AND JURASSIC
Jugd (GRDR 46) Granodiorite
Jtdi (GRZD 46) Quartz diorite, diorite, amphibolite
Jty (SYNT 46) Syenite, monzonite

TRIASSIC
td (DORT 42) Diorite, gabbro
tdi (DORT 42) Diorite, monzonite

PERMIAN AND TRIASSIC
Pkub (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.C., Brew, D.A. and Oulitch, A.V. (compilers) (1979) Iskut River, TELEGRAPH CREEK, Assessment Report for the Assessment Report Index Map, AR 104F - SUMDUM and AR 104G - TELEGRAPH CREEK, bedrock geological mapping series, 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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