

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 relictic 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.

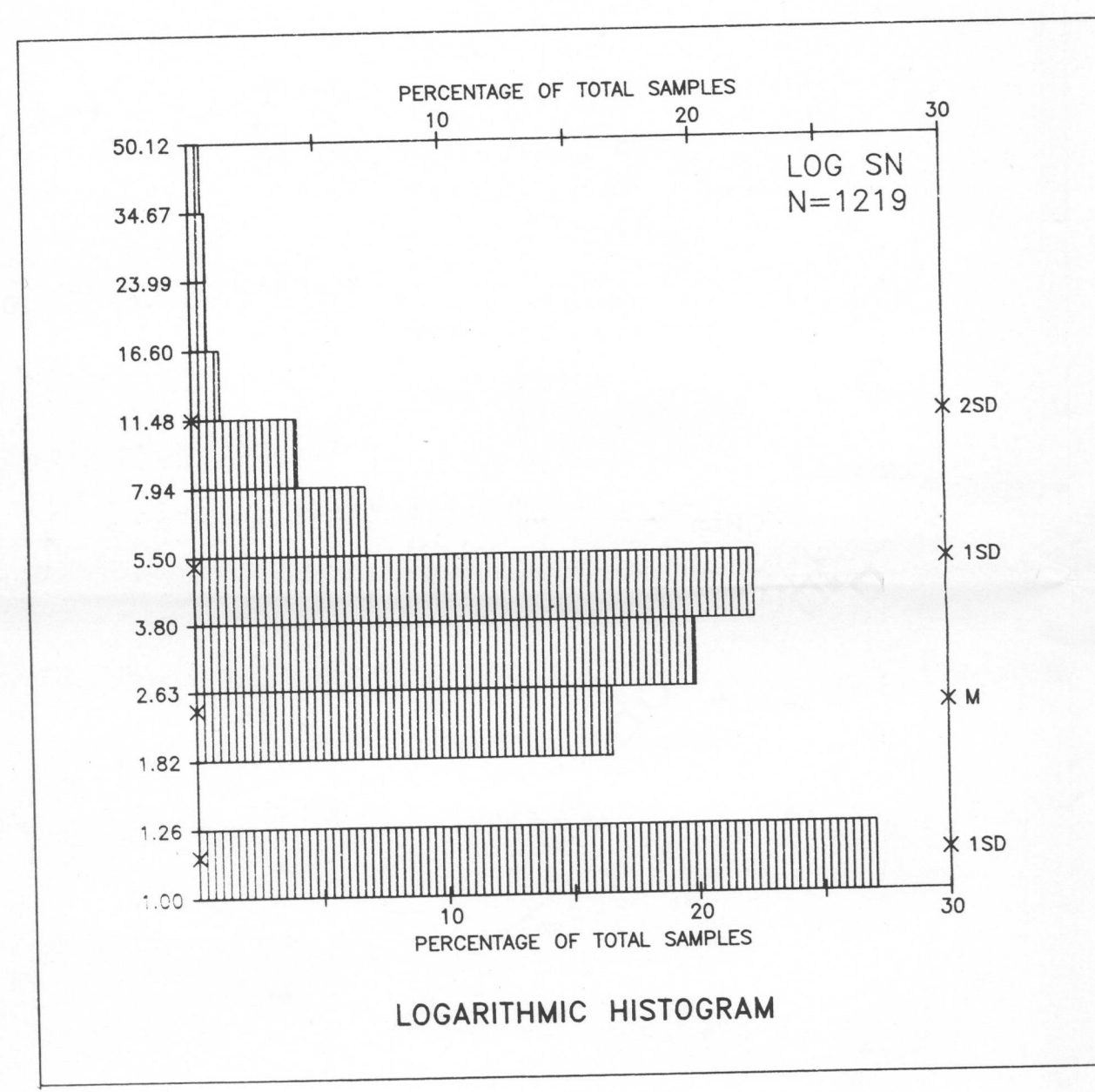
GLACIAL DEPOSITS
M Clay sand and rock fragments deposited by glaciers, includes Fraser Glaciation III and recent moraines. This unit includes small areas of colluvium, bedrock, glacioluvial, glaciolacustrine and siltstone deposits.

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 stration, direction of flow known, unknown
 Dunalin, direction of flow known
 Source of information:
 Ryder, J.M. (1964) Inventory for the Skeena-Iskut Area (NTS 104F, 104G, and parts of 104B and 104H), British Columbia Ministry of Environment, Technical Report 11.



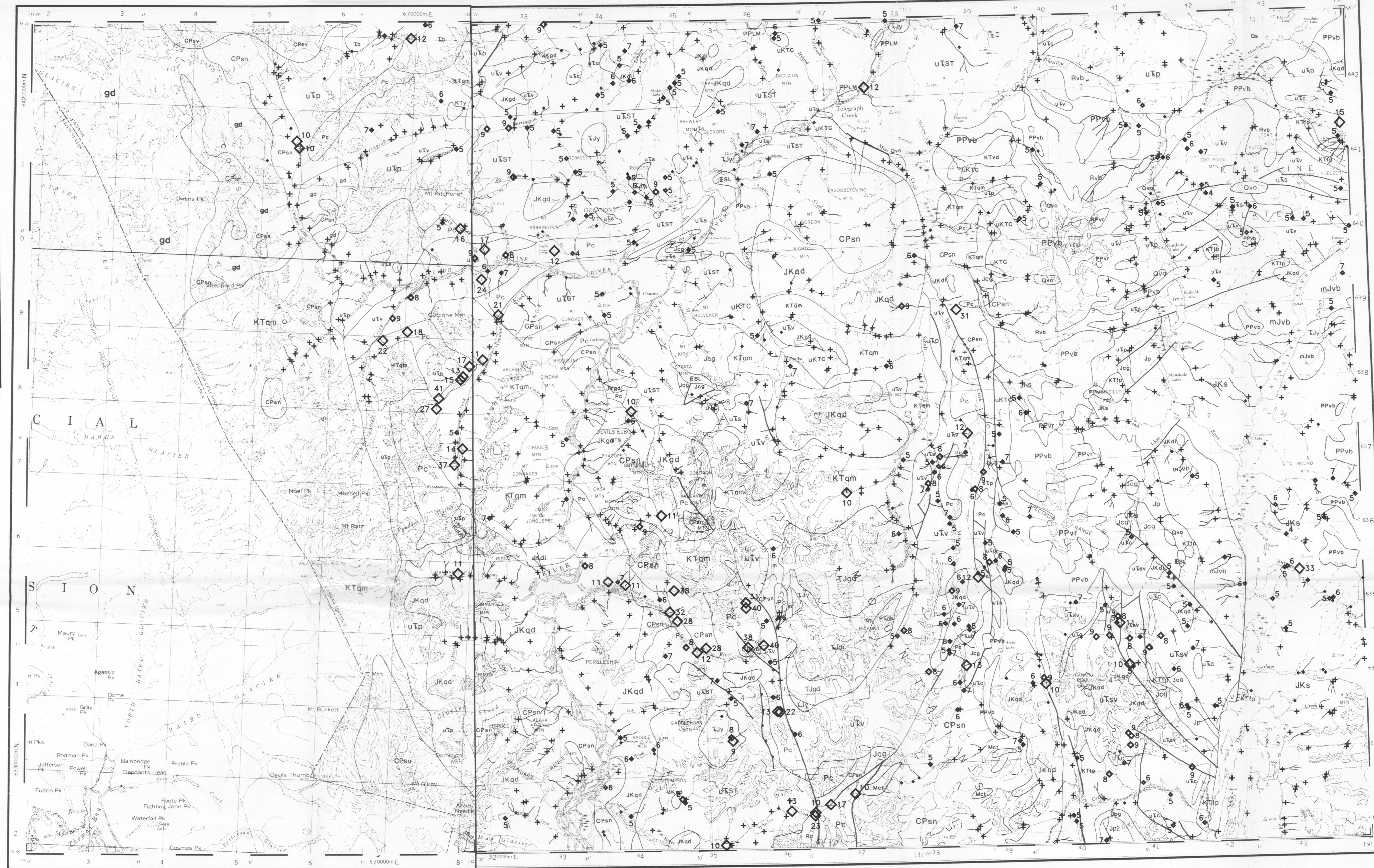
| CONCENTRATION | FREQUENCY |
|---------------|-------------------|
| 10 - 41 | ◇ N = 51 (4.2%) |
| 8 - 9 | ◇ N = 36 (3.0%) |
| 5 - 7 | ◆ N = 184 (15.1%) |
| 4 - 4 | • N = 172 (14.1%) |
| 1 - 3 | + N = 776 (63.7%) |

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 Oulder Associates, Ottawa, Ont.
 Sediment chemical analyses by Bondar Clegg and Company Limited, Ottawa, Ont.
 Water chemical analyses by Chomez Labs, North Vancouver, B.C.

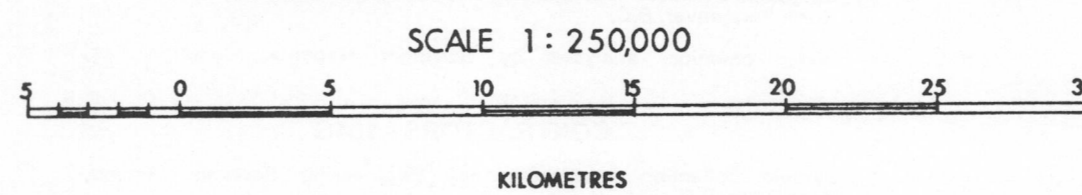
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 British Columbia
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 Geological Survey Branch
 Applied Geochemistry

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



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 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.
 333 Superior Street
 Victoria, B.C.
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 (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) 387-2241

TIN (ppm)
STREAM SEDIMENTS
 B.C. RGS 19
 GSC OPEN FILE 1646
 NATIONAL GEOLOGICAL RECONNAISSANCE MAP 111
 CANADA-BRITISH COLUMBIA
 MINERAL DEVELOPMENT AGREEMENT (1985-1989)
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
 NORTHWESTERN BRITISH COLUMBIA, 1987



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
 This project is a contribution to the CANADA-BRITISH COLUMBIA MINERAL DEVELOPMENT AGREEMENT, 1985 - 1989.

| | | |
|------|------|------|
| 104K | 104J | 104I |
| 104F | 104G | 104H |
| 104C | 104B | 104A |

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TIN (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
Os (TILL 64) Surficial clastic sediments and glacial deposits
Qvo (OLVB 64) Chert, 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
JMS (SLSN 50) HAZELTON GROUP: siltstone, greywacke, sandstone, tuff
mJvb (BSLT 49) Basalt, pillow lava, tuff, volcaniclastic rocks
Jp (SHE 49) Shale
JT (COLM 49) TANKWAHONI: conglomerate, gill, greywacke
Jcg (CGGK 49) Conglomerate, gill, greywacke

TRIASSIC
UTp (PLT 45) Phyllite, argillite, siltstone, greywacke, limestone
UKs (SLSN 45) Siltstone, chert, sandstone, tuff
UTsv (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks
UTst (VLRK 45) STUHNH GROUP: undifferentiated volcanic and sedimentary rocks
UKv (ANBT 45) Andesite, basalt
UKvd (ANDS 45) Andesite, pyroclastic rocks, gneiss

PERMIAN
Pc (LMSH 54) Limestone, minor calcareous shale

CARBONIFEROUS AND PERMIAN
CPsn (SCST 35) Schist, gneiss
CPsv (GRNS 35) Gneiss, limestone, shale, clastic sedimentary rocks

MISSISSIPPIAN
Mct (LMTF 54) Limestone, tuff, chert

PLUTONIC ROCKS

CRETACEOUS AND TERTIARY
KTtp (FLSP 56) Felsite, biotite porphyry
KTqm (GTAM 56) Quartz monzonite
KTy (LSVN 56) Leucocratic syenite

JURASSIC AND CRETACEOUS
JKgd (GRDR 51) Granodiorite
JKqd (GRZD 51) Quartz diorite
JKdi (DORT 51) Diorite

TRIASSIC AND JURASSIC
TJgd (GRDR 46) Granodiorite
TJdi (GRZD 46) Quartz diorite, diorite, amphibolite
TJy (SYNT 46) Syenite, monzonite

TRIASSIC
Tb (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
 Glacier
 Field duplicate sample sites
 +

GEOLOGY AND MINERAL DEPOSITS
 Geological base and legend are derived from:
 South, J.G., Brew, D.A. and Oulsh, 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, M 104F - SUMDUM and M 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, 1982, 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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STREAM SEDIMENTS
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