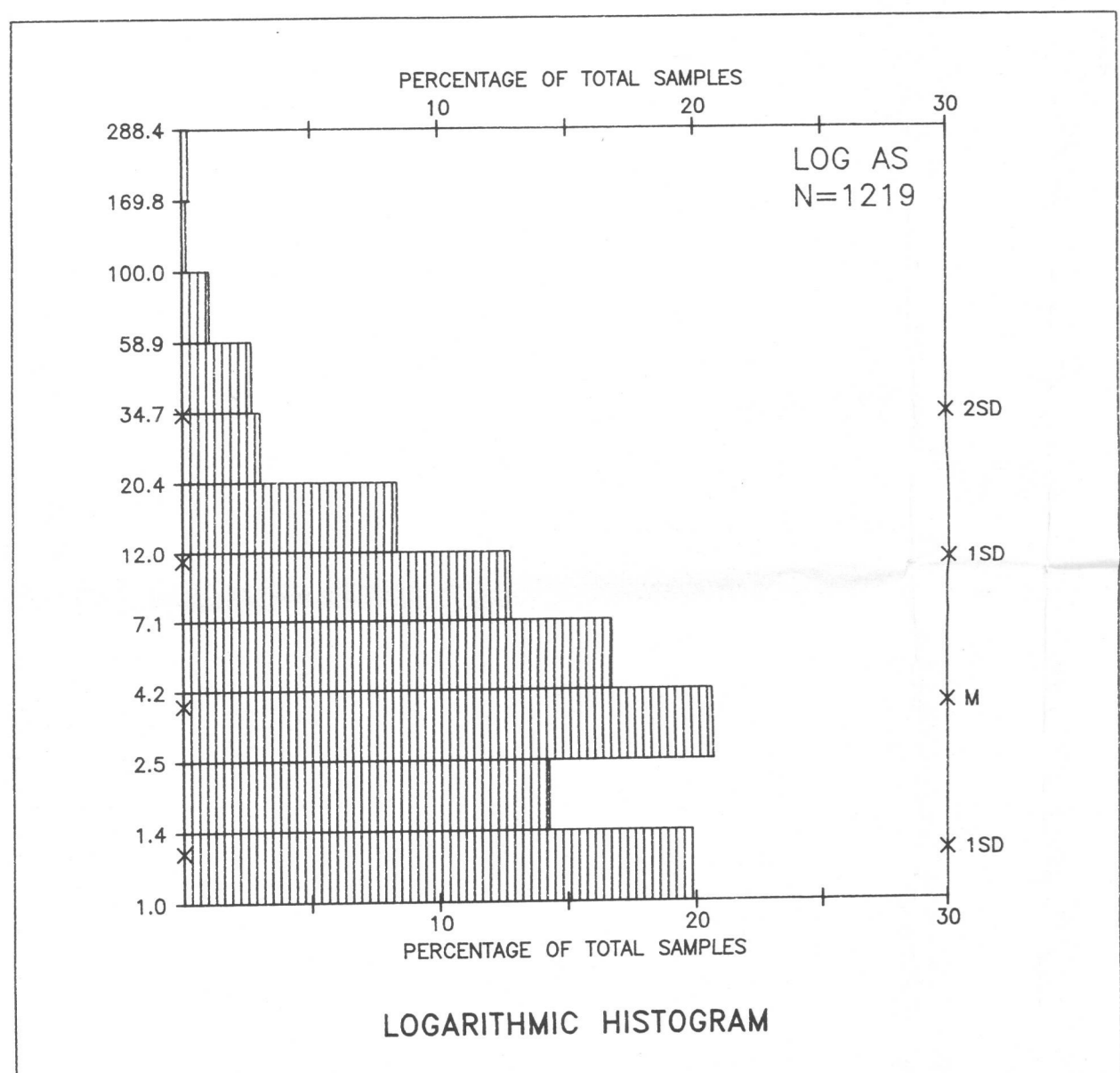
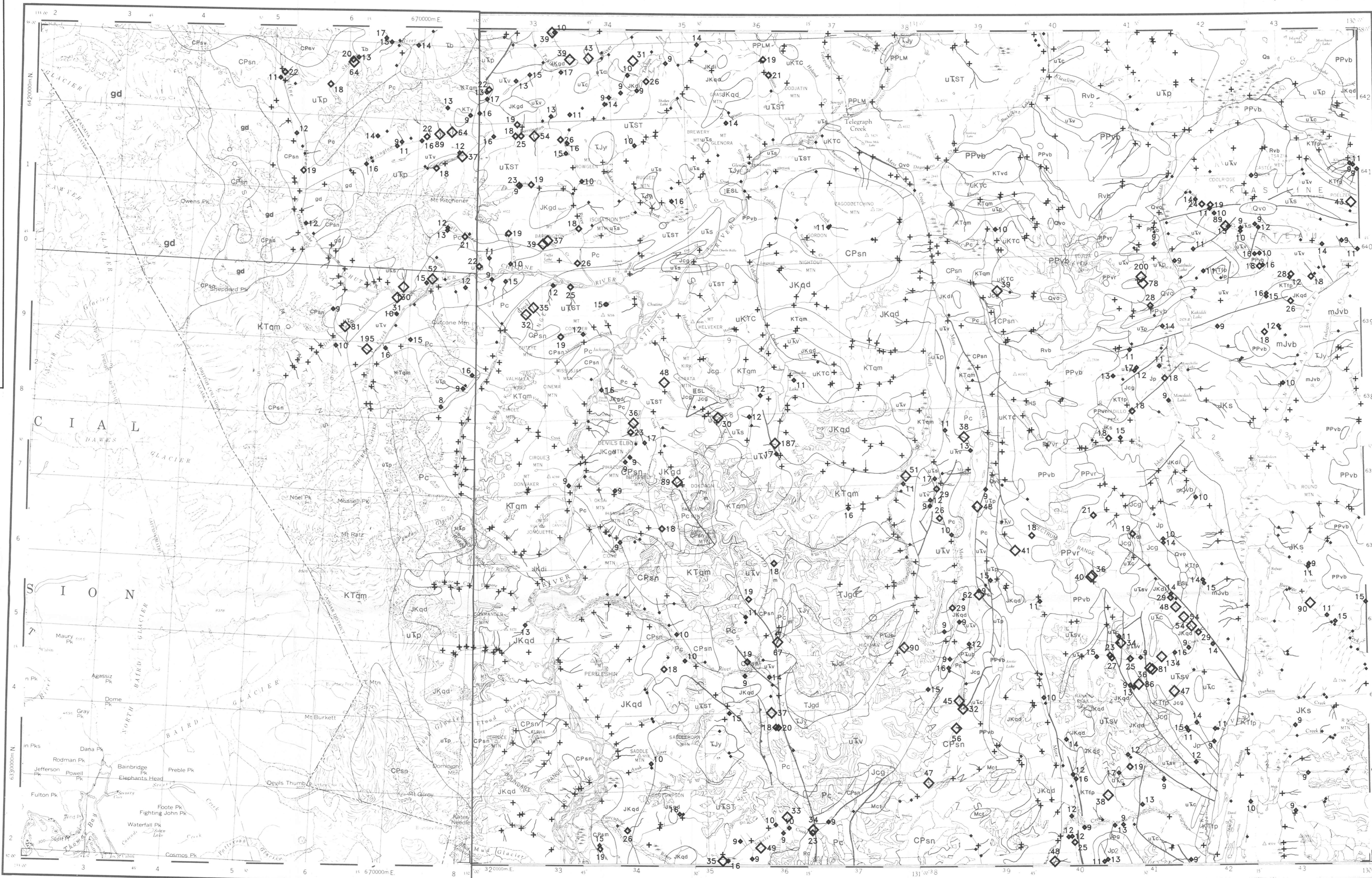


104F (Zone 8) & 104G (Zone 9)

Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources

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

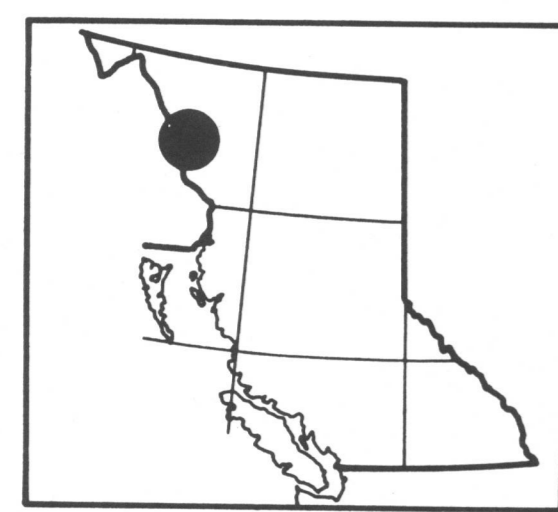


CONCENTRATION	FREQUENCY
30 - 200	◆ N = 59 (4.8%)
18 - 29	◆ N = 58 (4.8%)
9 - 17	◆ N = 187 (15.3%)
5 - 8	• N = 246 (20.2%)
1 - 4	+ N = 669 (54.9%)

**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



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 cooperation with the Geological Survey of Canada. Open File RGS 18 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 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  
Library of the Geological Survey of Canada  
Map Library at the University of British Columbia, Vancouver

for purchase at:  
Map B.C.  
655 Superior Street  
Victoria, B.C.  
V8V 1S2  
(604) 387-1441

The data are also available in digital form on MS-DOS 5 1/4" diskettes.

For further information please contact:  
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(604) 387-3234

ARSENIC (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, 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 Petroleum Resources Canada  
Energy, Mines and Petroleum 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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ARSENIC (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 glacial sediments and glacial deposits  
Qvc (COLVB 64) Olduvai basalt
- TERTIARY AND QUATERNARY**
- PLIOCENE AND PLEISTOCENE**  
Ppml (BSLT 63) LEVEL MOUNTAIN GROUP: basalt  
Ppvt (BTRF 63) Basalt, rhyolite, silvite, basalt  
Ppvl (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 (BSLN 55) TANGO CREEK: sandstone, siltstone, coal
- JURASSIC AND CRETACEOUS**  
Jks (BSLN 51) Siltstone, greywacke, conglomerate, shale (upper HAZELTON GROUP in part)
- JURASSIC**  
Jhs (BSLN 50) HAZELTON GROUP: siltstone, greywacke, sandstone, tuff  
mJvb (BSLT 49) Basalt, pillow lava, tuff, volcanoclastic rocks  
Jp (SHLE 49) Shale  
Jt (CGLM 48) TAKWAHONI: conglomerate, grit, greywacke  
Jcg (CGDK 48) Conglomerate, grit, greywacke
- TRIASSIC**  
Utp (PLT 45) Phyllite, argillite, siltstone, greywacke, limestone  
Usls (BSLN 45) Siltstone, chert, sandstone, tuff  
Usv (WAND 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks  
Ust (WLRK 45) STUHNI GROUP: undifferentiated volcanic and sedimentary rocks  
Ulv (ANBT 45) Andesite, basalt  
Ulvd (ANDS 45) Andesite, pyroclastic rocks, greenstone
- PERMIAN**  
Pc (LMSH 36) Limestone, minor calcareous shale
- CARBONIFEROUS AND PERMIAN**  
Cpsn (SCST 35) Schist, gneiss  
Cpav (GRNS 35) Greenstone, limestone, shale, clastic sedimentary rocks
- MISSISSIPPIAN**  
Mcl (LMTF 34) Limestone, tuff, chert
- PLUTONIC ROCKS**
- CRETACEOUS AND TERTIARY**  
Ktd (FLSP 56) Felsite, feldspar porphyry  
Ktm (QTMZ 56) Quartz monzonite  
Kty (LSYN 56) Leucocratic syenite
- JURASSIC AND CRETACEOUS**  
Jkd (GROR 51) Granodiorite  
Jqd (GRZD 51) Quartz diorite  
Jdi (DORT 51) Diorite
- TRIASSIC AND JURASSIC**  
Jjd (GROR 46) Granodiorite  
Jjd (GRZD 46) Quartz diorite, diorite, amphibolite  
Jjy (SYNT 46) Syenite, monzonite
- TRIASSIC**  
Jdi (DORT 42) Diorite, gabbro  
kdi (DORT 42) Diorite, monzonite
- PERMIAN AND TRIASSIC**  
Psub (UMFC 40) Ultramafic rocks, serpentinite
- AGE UNKNOWN**  
gd (GROR 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:  
Soulter, J.G., Brew, D.A. and Okulitch, A.V. (compilers) (1979) Ikut 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.I. 104F - SUMDUM and M.I. 104G - TELEGRAPH CREEK; assessment reports refer to Assessment Report Index Map, ARS 104F - SUMDUM and ARS 104G - TELEGRAPH CREEK; bedrock geological mapping refer to Index of Bedrock Mapping, 1983; for mineral and clear claim maps contact the Ministry of Energy, Mines and Petroleum Resources, Mineral Titles Branch, Victoria, for current editions and status.

ARSENIC (ppm)  
STREAM SEDIMENTS

B.C. RGS 19  
GSC OPEN FILE 1646

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