

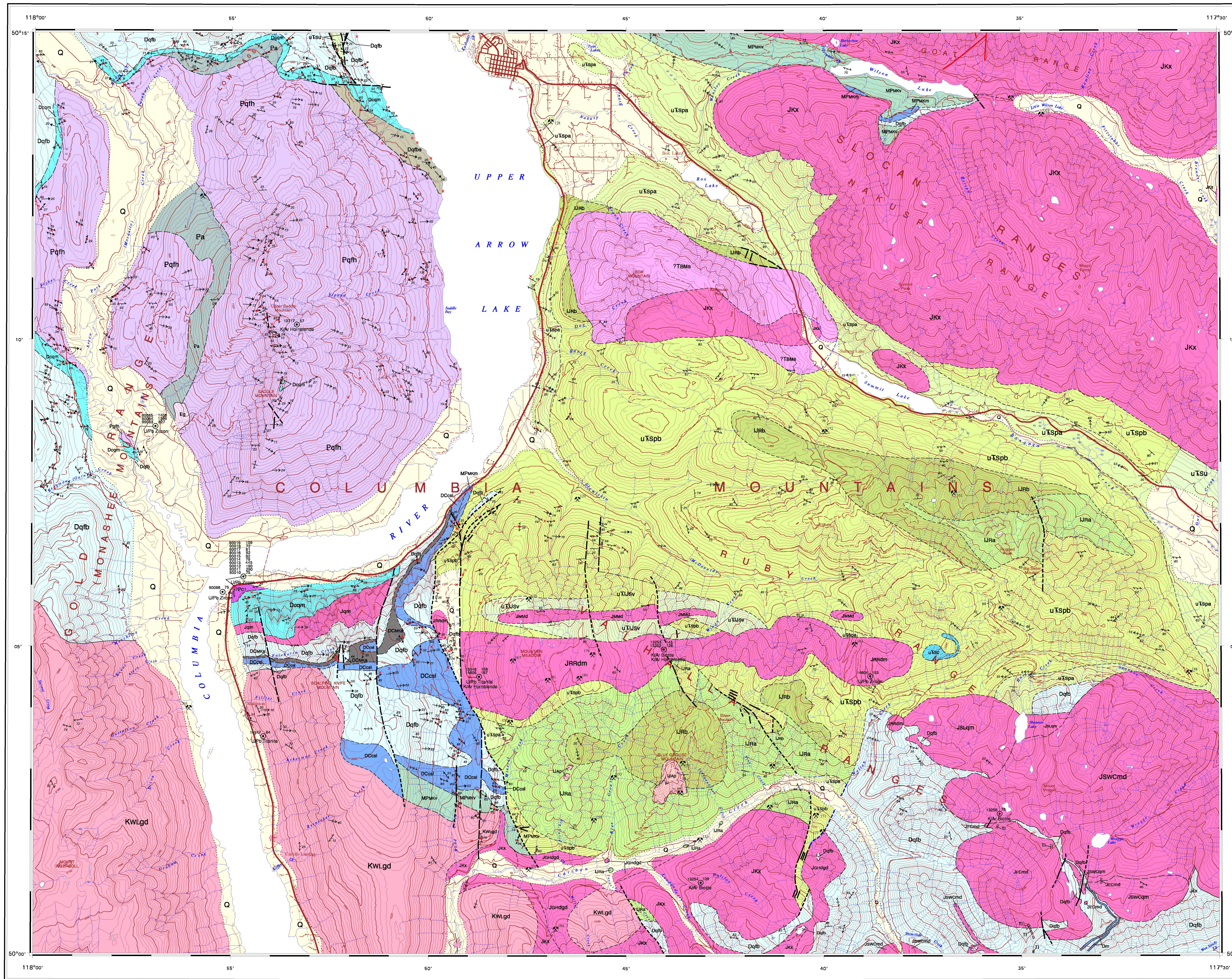
REFERENCES

Hyndman, D.W. 1968. Petrology and structure of Nakusp map area, British Columbia. Geological Survey of Canada Bulletin No. 161.
 Read, R. and Wheeler, J. O. 1976. Geology of Ladang W/2 (80K/W2). Geological Survey of Canada, Open File Map 432, 1:125,000.
 Canadian Geotechnical Knowledgebase: http://gkz.nrcan.gc.ca/geotechnical/index_ca.php

MINERAL OCCURRENCE INDEX

MINFILE NO	NAME	COMMODITY*
082KSW050	POORMAN	AG,PB,ZN,AU,GT
082KSW051	MILLIE MACK (L.1831)	AG,PB,ZN,AU,GT
082KSW052	PROMESTORIA (L.3788)	AU,AG,ZN
082KSW053	CARIBOU ACE	AU
082KSW054	CHIEFTAIN (L.5845)	AG,AU,PB,ZN
082KSW060	SHANNON	AG,PB,ZN,CU
082KSW067	SHAKESPEARE (L.5720)	AG,PB,ZN,CU
082KSW093	ROYAL 5	PB,CU
082KSW109	STATITE	UR,TH
082KSW128	BLUEBIRD	AG,PB,ZN,CU
082KSW129	NEPE	AG,CU
082KSW131	GOLDEN CADLE (L.3018)	AU
082KSW132	CRIS	AG,PB,ZN
082KSW133	INDEPENDENCE	PB
082KSW161	KUSP	PB,ZN,AG
082KSW171	EUREKA	AG,PB,ZN,AU
082KSW172	STAN	MO
082KSW177	EUREKA SOUTHEAST	AG,PB,ZN,AU
082KSW178	MOUNTAIN MEADOW MO (EAST)	MO
082KSW179	MOUNTAIN MEADOW MO (NORTH)	MO
082KSW180	MOUNTAIN MEADOW ARSENOPRITE	AU,AG
082KSW181	MOUNTAIN MEADOW GALENA	PB,AG,AU
082KSW182	TYEE	AU,ZN
082KSW183	SLEWISKIN	AU
082KSW184	CRD	AU,MO
082KSW186	BULL	ZN
082KSW188	VICTIMOLYBDENITE #2	MO
082KSW201	WILSON LAKE SPRING	HS
082KSW205	TAYLOR SPRING	HS

*Abbreviations for commodities: AG - silver; AU - gold; CU - copper; OT - graphite; HS - hot spring; MO - molybdenum; PB - lead; TH - thorium; UR - uranium; WO - tungsten; ZN - zinc.
 Source: British Columbia Ministry of Energy and Mines, MINFILE database available at: <http://www.em.gov.bc.ca/Mining/Geology/Minfile/>



LEGEND

Quaternary

- Q Pleistocene and Recent: Unconsolidated sediments, glacial deposits, colluvium and alluvium; flow if any outcrop, probable outcrop with white overtones
- TI Langrapplyrénites
- 7TBM Box Mountain Stock: Argillite, argillite (see section)
- Eg Late Paleocene to Middle Eocene: Undeformed, potassium-halogen propylite dikes that cross-cut all fabrics

CRATACEOUS

- KWLgd Whelan Lake Batholith (77-78 Ma): Leucocratic, potassium feldspar, megacrysts; hornblende-bearing quartz monzonite; includes Caribou Creek stock on west side of Arrow Lake

JURASSIC

- JSDgd DAY GARDNER HALFAX CREEK STOCK: Hornblende-biotite quartz monzonite; quartz dikes, granodiorite
- JSDmd KNOWLEDGE AND WRAGGE CREEK STOCKS: Epithermal biotite quartz dikes, and granodiorite
- JJRMd RUBY RANGE STOCK: Biotite hornblende quartz dikes, dikes, quartz monzonite, monzonite and gneissodiorite
- JJMd Mountain Meadow Pluton: Hornblende diorite and quartz dikes
- JECmd EAST CARIBOU STOCK: Hornblende quartz monzonite and quartz dikes
- JKc KUSKAWAM BATHOLITH: Argillite, argillite, gneiss and biotite quartz monzonite
- JSDWmd SOUTH WRAGGE CREEK STOCK: Hornblende-biotite (see section) quartz monzonite
- JSLmd SHANNON LAKE STOCK: Felsic hornblende (see section) quartz monzonite
- JQmd Linear hornblende-biotite (see section) quartz monzonite

LOWER JURASSIC / UPPER DEVONIAN

- LJAp ARCHBOLD FORMATION (F): Grey argillite, slate and siltstone (see 15B of Hyndman)

HOSSLAND GROUP

- LJRa Argillite basalt (see 15A of Hyndman, 1968)
- LJRB Andesite and basalt flows and tuffs (see 15B of Hyndman, 1968)

UPPER TRIASSIC / SLOCAN GROUP

- uTUSv Andesite to dacite tuffs and flows
- uTSu Sholan Schistosity: Rocks: Dark grey argillite, biotite schist, dark grey calciferous argillite; dark grey argillite schist; light to medium grey meta-siltstone; minor volcanic tuff, sandstone and agglomerate
- uTSpa Argillite, shale to siltstone, tuff
- uTSpb Public to silty siltstone and shale
- uTSc Grey to black limestone, mudstone

MISSISSIPPIAN AND PENNSYLVANIAN AND LOWER PERMIAN / MILDOR AND KASLO GROUPS (continued)

- MPKv Amphibole metavolcanic rocks
- MPKv Medium to coarse crystalline, white to dark grey marble

DEVONIAN AND CARBONIFEROUS

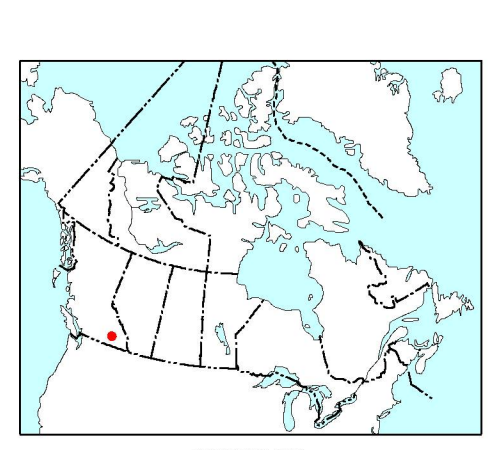
- DCMa SCALPING KNIFE MOUNTAIN AMPHIBOLITE: Grey to green amphibolite
- Dqfb Silver Creek Schist: Quartz-halogen-muscovite biotite schist with or without garnet, arsenite and cordierite; dark carbonaceous schist; dark grey to tan micaceous quartzite; minor white to grey marble; amphibolite schist; minor amphibolite (impure with the bed of the 15C)
- DCqfb Silver Creek Basaltic Schist: Grey and brown weathering muscovite-biotite schist having a proportion of large stannite porphyroblasts up to 3 cm in length (impure and bed of the 15C)
- Dcal Calc-siltstone bearing calcareous limestone rocks and limestone
- Dm Silver Creek Marble: Medium to coarse crystalline, white to dark grey marble (impure and bed of the 15C)
- DQm Galvanic Quartzite Member (Omineca Group): 7700-10000 year quartzite; biotite-bearing calcareous quartzite, quartzite, mainly composed of Mildor Group (see 15, 32 of Hyndman)

Mesoproterozoic

- Pqfh MAFIC ASSEMBLAGE: Tuffaceous schist: Biotite quartz-halogen schist with or without albite, garnet; biotite quartz-halogen schist (with or without albite); amphibolite; calc-siltstone gneiss; metacarbonaceous quartzite (impure with the bed of the 15C and of Hyndman and Moore, 1971)
- Pa Amphibolite: may be interbedded with biotite schist and biotite quartz-halogen schist (see 15B of Hyndman)
- Pc1 Garnet-biotite plagioclase paragneiss (May be correlative with unit EC1 core paragneiss of Hyndman, 1974)

SYMBOLS

- Foliation (non-schistose): inclined, horizontal, vertical
- Foliation (1st generation): inclined, horizontal, vertical
- Foliation (2nd generation): inclined, horizontal, vertical
- Lineation: 1st generation, 2nd generation
- Mylonite zone
- Fold hinge: concave, convex
- Fault: normal, thrust, strike-slip, unclassified
- Quarry
- Geotechnical sample location (http://gkz.nrcan.gc.ca/geotechnical/index_ca.php)
- Mineral Occurrence
- Geological boundary (taken from Fyfe, 1964; Warren, 1997; Rogers, 1985): defined, approximate, assumed
- Geological boundary (taken from 1:250 000 compilation by Read and Wheeler, 1976): defined, approximate, assumed
- Geological boundary (interpreted by compiler): defined, approximate, assumed
- Geological boundary: arbitrary
- Quaternary limit
- Fault, extension (solid circles on abutment side): defined, approximate, assumed
- Fault, unclassified: defined, approximate, assumed
- Fault, unclassified: taken from 1:250 000 compilation by Read and Wheeler, 1976; defined, approximate, assumed
- Fault, unclassified: (interpreted by compiler)



Compilers: R.I. Thompson, Y. Lemieux, P. Glombick and P. Dhesi
 Geology by D.W. Hyndman, 1961-62; P.B. Read and J.O. Wheeler, 1976; R.I. Thompson and P. Glombick, 2000; Y. Lemieux, 2002
 Geological compilation by R.I. Thompson, 2002
 Co-ordinated by R.I. Thompson through the auspices of the Targeted Geoscience Initiative 3 (TGI-3)
 Digital cartography by P. Dhesi, Geological Survey of Canada, Pacific Division
 Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

OPEN FILE 6186
 GEOLOGY
 NAKUSP
 BRITISH COLUMBIA

Scale 1:50 000 / Échelle 1/50 000
 Universal Transverse Mercator Projection / Projection transversale universelle de Mercator
 North American Datum 1983 / Système de référence géodésique nord-américain, 1983
 © Her Majesty the Queen in Right of Canada 2009 / © Sa Majesté la Reine du chef du Canada 2009

Digital base map from data compiled by Geomatics Canada, modified by the Geological Survey of Canada - Pacific Division
 Mean magnetic declination 2006, 16°47'E, increasing 13" annually
 Elevations in metres above mean sea level / Contour interval 40 metres

OF 4377	OF 6185	OF 6184
OF 4378	OF 6186	OF 6187
OF 6176	OF 6173	OF 6174

OPEN FILE DOSSIER PUBLIC 6186
 GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA
 2009
 Open file documents that have not gone through the GSC formal publication process.
 Les dossiers publics sont des produits qui n'ont pas subi le processus de publication de la GSC.

Recommended citation: Thompson, R.I., Lemieux, Y., Glombick, P., and Dhesi, P. (compilers) 2009: Geology, Nakusp, British Columbia, Geological Survey of Canada, Open File 6186, scale 1:50 000.