

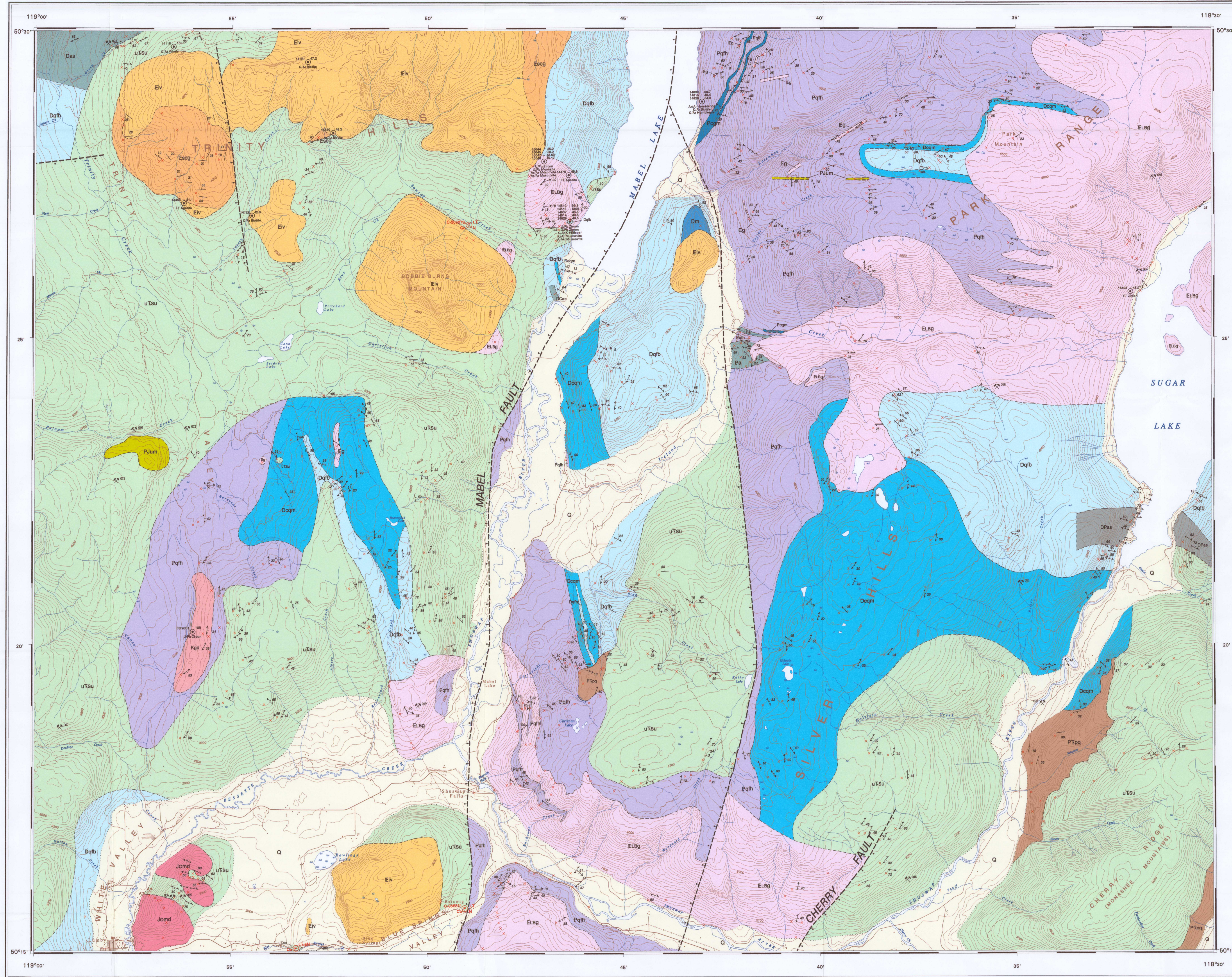
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MINERAL OCCURRENCE INDEX

MINFILE NO.	NAME	COMMODITY
062LSE023	EF	AG, PB, CU
062LSE026	LAF	CU, ZN, AU
062LSE044	CONNIE	CU
062LSE016	A 4	CU, AG, ZN
062LSE029	PUTNAM CREEK	AU
062LSE072	BRAN	AU
062LSE071	PUTNAM	PB
062LSE081	SHUSWAP LAKE ONE	KY
062LSE019	SR 1-15	UR
062LSE027	OK	CU, ZN, AU
062LSE028	SHUSWAP RIVER	AU
062LSE025	LUMBY	MI, ST, AU, AG, PB, ZN, CU
062LSE025	B. S. 3	AU, AG, PB, ZN, CU
062LSE048	CHERRYVILLE	MI

Source: British Columbia Ministry of Energy and Mines, MINFILE database available at: <http://www.em.gov.bc.ca/cmmi/minfile/d440d.cfm>



LEGEND

Quaternary and Holocene

QUATERNARY

PLEISTOCENE AND HOLOCENE

Q Quaternary: Unconsolidated sediments; glacial deposits, colluvium and alluvium; few if any outcrops; probable subcrop unit within parentheses

Tertiary

LATE PALEOCENE TO MIDDLE EOCENE

Eg Undeformed, potassium-feldspar porphyry dykes that cross-cut all fabrics.

ELBg LADYBIRD PLUTONIC SUITE (~54-59 Ma)
Granite to quartz-monzonite having less than 10% biotite; subequal amounts of plagioclase, potassium-feldspar and quartz; accessory muscovite, allanite and/or garnet may be present.

Eocene

EOCENE ROCKS UNASSIGNED

Eiv Andesitic volcanic facies: Aphanitic to porphyritic andesite to dacite flows; volcanic breccia; intercalations of sandstone and conglomerate

Escg Basal sandstone facies: Sandstone, siltstone, shale, conglomerate

Mesozoic

CRETACEOUS (~109 Ma)

Kgd Diorite, granodiorite; unfoliated to moderately foliated.

Jurassic

OKANAGAN PLUTONIC SUITE (~160-164Ma); NELSON PLUTONIC SUITE)
Unfoliated to weakly foliated, medium- to coarse-crystalline biotite and/or hornblende monzonite, quartz-monzonite, diorite, quartz-diorite, granodiorite, and granite.

Triassic

UPPER TRIASSIC

SLOCAN GROUP

uTsu Slocan allochthonous rocks: Grey to black phyllite, argillite, quartzite, minor tuffaceous rocks.

Permian and/or Jurassic

PJum Coldstream ultramafic rocks: Ultramafic and mafic intrusions; commonly altered or serpentinized; pyroxenite, gabbro.

Permian and/or Triassic

PTpq Black quartzite: Dark-grey, biotite-bearing pyritic quartzite; cherty quartzite; siliceous argillite.

Permian

HARPER RANCH GROUP

PHrv Harper Ranch volcanic rocks: Andesitic flows and agglomerate; andesite and/or plagioclase phytic flows; volcanic breccia; lapilli tuff; cherty tuff; limestone blocks.

Paleozoic

DEVONIAN TO PERMIAN

DPas Amphibole-biotite-plagioclase schist; chlorite schist.

Devonian (and Carboniferous?)

SILVER CREEK FORMATION (Jones, 1959)
Silver Creek schist: Quartz-feldspar-muscovite-biotite schist with or without garnet, staurolite and sillimanite; black carbonaceous schist; dark-grey to tan micaceous quartzite; minor white-to-grey marble; amphibolite schist; minor amphibolite (map units Pdv and Pvd of Read, 1979a).

Dqfb Silver Creek marble: Medium to coarse crystalline, white to dark grey marble (map unit Pdc of Read, 1979a).

Dm Silver Creek marble: Medium to coarse crystalline, white to dark grey marble (map unit Pdc of Read, 1979a).

Middle Devonian

CHASE FORMATION (CALCAREOUS QUARTZITE MARKER UNIT)
White to light grey, cliff-forming, calcareous quartzite having a coarse, pitted texture on weathered surfaces; diopside rich calcareous bands (map unit F3 of Reesor and Moore, 1971).

Doqm Chase quartzite: Biotite-quartz-feldspar schist (with or without sillimanite, garnet); feldspar-quartz-hornblende schist (with or without biotite); amphibolite; calc-silicate gneiss; micaceous quartzite (map units M and F of Reesor and Moore, 1971).

Paleo- and/or Mesoproterozoic

Talus schist: Biotite-quartz-feldspar schist (with or without sillimanite, garnet); feldspar-quartz-hornblende schist (with or without biotite); amphibolite; calc-silicate gneiss; micaceous quartzite (map units M and F of Reesor and Moore, 1971).

Pqth Amphibolite; maybe interlayered with biotite schist and biotite-quartz-feldspar paragneiss (unit M8 of Reesor and Moore, 1971).

Pa Amphibolite; maybe interlayered with biotite schist and biotite-quartz-feldspar paragneiss (unit M8 of Reesor and Moore, 1971).

Pogm Marble (unit M7 of Reesor and Moore, 1971).

SYMBOLS

Foliation (unclassified): inclined, horizontal, vertical

Foliation: 1st generation

Lineation: 1st generation intersection

Bedding: top unknown: inclined, vertical

Bedding: Upright

Axial plane: inclined, vertical

Mineral lineation

Vein: inclined, vertical

Fold hinge: crenulation lineation

Fold hinge: z-verging

Joint set

Outcrop

Fossil locality (Localities with no database number listed from Okulitch, 1979)

Geochronology sample location

Mineral Occurrence

Southern Cordillera Lithoprobe transect lines No. 9 and 9R105

Geological boundary: defined, approximate, assumed

Geological boundary: notional (no geological control)

Geological boundary: gradational

Quaternary limit

Fault, contraction (teeth indicate upthrust side)

Unclassified fault: defined, approximate, assumed

Syncline: upright, overturned, plunging

Anticline: upright, overturned, plunging

Facies boundary

OPEN FILE DOSSIER PUBLIC 4376

Open files are products that have not yet passed through the public release process.

Les dossiers publics sont des produits qui n'ont pas encore été passés par le processus de libération de l'information de l'OSD.

2004



Geology by R.I. Thompson, 2000, 2001 and P. Glombick, 2000

Geological compilation by R.I. Thompson, 2003

Co-ordinated by R.I. Thompson through the auspices of the Ancient Pacific Margin NATMAP project

Digital cartography by R.F. MacLeod, 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 4376
GEOLOGY
SHUSWAP FALLS
BRITISH COLUMBIA

Scale 1:50 000 / Échelle 1/50 000

Universal Transverse Mercator Projection / North American Datum 1983 / © Her Majesty the Queen in Right of Canada 2004

Projection transverse universelle de Mercator / Système de référence géodésique nord-américain, 1983 / © Sa Majesté la Reine en chef du Canada 2004

Mean magnetic declination 2004, 18°25'E, decreasing 9.4' annually.

Elevations in feet above mean sea level / Contour interval 100 feet

Zone 11

Digital base map from data compiled by Geomatics Canada, modified by the Geoscience Information Division

Mean magnetic declination 2004, 18°25'E, decreasing 9.4' annually.

Elevations in feet above mean sea level / Contour interval 100 feet

82L11	82L10	82L09
OF 4880	OF 4379	OF 4378
82L06	82L07	82L08
OF 4376	OF 4378	OF 4377
82L03	82L02	82L01
OF 4372	OF 4371	OF 4370

NATIONAL TRANSDOMAIN SYSTEM REFERENCE

Recommended citation:
Thompson, R.I. and Glombick, P., 2004. Geology, Shuswap Falls, British Columbia, Geological Survey of Canada, Open File 4376, scale 1:50 000.

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