



OPEN FILE 6278 SURFICIAL GEOLOGY

CHU CHUA CREEK (WEST HALF)

BRITISH COLUMBIA

Scale 1:50 000/Échelle 1/50 000 North American Datum 1983 Système de référence géodésique nord-américain, 1983

© Sa Majesté la Reine du chef du Canada 2010

© Her Majesty the Queen in Right of Canada 2010

	92 P/10		92 P/9	82 M/		
	OF6173	OF6133				
	92 P/7		92 P/8	82 M		
	OF5839	OF6278				
	92 P/2 OF5932	OF6279	92 P/1	82 M		
NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS						

LEGEND

NOTE: In areas where the surficial cover forms a complex pattern, the area is coloured according to the dominant unit and labelled in descending order of cover (e.g. O-Tb). Where buried aggregate deposits (sand and gravel - commonly associated with Gt or Gih surficial units) are known, or suspected, areas are coloured according to the overlying unit and labelled in the following manner:

QUATERNARY

SURFICIAL DEPOSITS POST LAST GLACIATION

NONGLACIAL ENVIRONMENTS

ORGANIC DEPOSITS: Fen peat; 1 to 3 m thick on average; peat derived from sedges and partially decayed shrubs in a eutrophic environment; the plant material is in various stages of decomposition; generally occurs as flat, wet terrain (swamps) over poorly drained substrates; forms relatively open peatlands.

COLLUVIAL DEPOSITS: diamicton and rubble; poorly sorted, massive to stratified debris deposited by direct, gravity-induced movement; composition dependant on

Colluvial veneer: thin and discontinuous cover of slumped and/or soliflucted material <1 m thick; overlies bedrock or till.

Undifferentiated colluvial deposits: undivided landslide debris, colluvial veneer and

Talus (scree): accumulation of angular boulders below cliffs; generally 1 to 10 m thick or greater; usually forming fans or aprons.

ALLUVIAL DEPOSITS: sorted gravel, sand, minor silt, and organic detritus deposited

Floodplain deposits: sorted gravel, sand, sllt, and organic detritus >1 m thick; forming active floodplains close to river level with meander channels and scroll marks.

Deltaic sediments: stratified sand and gravel underlain by silt and clay; generally 2 to

15 m thick; occurring at the mouths of streams entering lakes. Alluvial fan deposits: poorly sorted gravel, sand, and diamicton >1 m thick; occur where a stream issues from a narrow valley onto a plain or valley floor.

LACUSTRINE DEPOSITS: sand, silt and minor clay deposited in a former lake; >1 m thick; occasionally overlain by organic deposits; exposed by recent fluctuations in lake

POSTGLACIAL OR LATE WISCONSINAN PROGLACIAL AND GLACIAL ENVIRONMENTS

GLACIOFLUVIAL DEPOSITS: well to poorly stratified sand and gravel; minor diamicton; deposited behind, at, or in front of the ice margin by glacial meltwater; represent a potential aggregate source.

Outwash terrace deposits: 1 to 10 m thick; generally associated with meltwater channels and canyons; generally forming flat paired terraces perched above alluvial

Glaciofluvial blanket: >1 m thick; obscures topography of underlying units.

Ice-contact stratified deposits: poorly-sorted sand and gravel with minor diamictons; 1 to >20 m thick; deposited in contact with the retreating glacier; forming hummocky topography related to melting of underlying ice.

Esker deposits: moderately sorted sand and gravel, 1 to >20 m thick; forming ridges. Formed by meltwater flow within tunnels or chasms in glacier ice. TILL: diamicton deposited directly by Cordilleran glaciers; sandy to clayey matrix with

Till blanket: >1 m thick; continuous till cover forming undulating topography that locally obscures underlying units.

Streamlined and fluted till: >1 m thick; till surface marked by streamlined landforms

Hummocky till: >1m thick; hummocky to rolling till surface including discontinuous

Till veneer: <1 m thick; discontinuous till cover; underlying bedrock topography is

PRE-QUATERNARY Bedrock outcrop: continuous bedrock outcrop; can include pockets of till or colluvium

rarely exceeding 2 m thickness.

including flutings and drumlins.

Author: J.M. Bednarski

Geology by J.M. Bednarski, 2007-2008

Airphoto interpretation by J.M. Bednarski, 2007-2008

Compilation of geology was onto 1:20 000 orthorectified airphoto mosaic by J.M. Bednarski

Digital cartography by M.J. Coulthart, Data Dissemination Division (DDD)

This map was produced from processes that conform to the Scientific and Technical Publishing Services Subdivision (DDD) Quality Management System, registered to the ISO 9001: 2000 standard

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada Digital base map provided by the BC Watershed Atlas (1:50 000, TRIM base)

Shaded relief image prepared by DDD, derived from the digital elevation model suppied by L. Robertson, based on the TRIM topographic data Illumination: azimuth 315°, altitude 45°, vertical factor 5x

Elevations in metres above sea level

Magnetic declination 2010, 17°35'E, decreasing 14.0' annually

Mineral Occurrence Index

MINFILE #	NAME	STATUS	Commodity		
092P 013	HIDDEN CREEK	Showing	Au, Ag, Cu		
092P 026	CEDAR SKARN	Showing	Cu, Ag, Au, Pb		
092P 047	CENTRAL GOLDEN LOON VI AREA	Showing	Au, Ag, Pb, Cu		
092P 048	GOLDEN LOON (MONTIGNY LAKE)	Showing	Au, Ag, Pb		
092P 095	GOLDEN LOON 5	Showing	Au, Ag, Pb		
092P 096	GOLDEN LOON 4	Showing	Zn, Cu, Pb		
092P 097	GOLDEN LOON 3	Showing	Au, Ag		
092P 103	G	Showing	Au, Ag, Pb		
092P 106	THUYA	Showing	Cu		
092P 119	GOLDEN LOON LOW GRADE ZONE	Showing	Au, Ag		
092P 141	GOLDEN LOON HIGH GRADE ZONE	Showing	Au, Ag, Zn, Pb		
092P 147	JANICE CREEK	Showing	Cu		
092P 166	LATREMOUILLE	Showing	Cu, Ag, Au		
092P 169	BILL	Showing	Au, Pb		
092P 170	EAKIN CREEK COPPER	Showing	Cu, Ag, Pb		
092P 172	CEDAR SHEETED VEINS	Showing	Au, Ag, Pb		
Mineral occurrence data collected from the Government of British Columbia's web					

accessed database: http://www.em.gov.bc.ca/Mining/Geolsurv/Minfile

OPEN FILE that have not gone through the GSC formal publication process. DOSSIER PUBLIC Les dossiers publics sont des produits qui n'ont pas été soumis au GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA processus officiel de publication de la CGC.

LOCATION MAP