

### LEGEND

**ORGANIC DEPOSITS:** Peat and muck, occurs as poorly drained terrain such as fen and bogs; organic deposits too small to be mapped occur within other units (e.g. within abandoned meander channels); average thickness of 2-4 m.

**ALLUVIAL (FLUVIAL) DEPOSITS:** Deposits of streams and rivers, composed of well-sorted to massive sand and gravel; greater than 2 m thick.

- Ap:** Fluvial sediments: sand and silt, stratified in massive, commonly including discontinuous organic materials; in many places overlain by coarse gravel; occurs as old terraces close to river and prone to periodic flooding.
- At:** Terraced alluvium: gravel overlain by sand and silt; mostly well-sorted; underlies level surfaces and above base level.
- Ad:** Deltaic sediments: sand and gravel underlain by silt and clay; occurs at or below present lake levels at the mouth of a stream.
- Al:** Fan sediments: gravel, sand, silt, and clay; poorly sorted; occurs as a fan-shaped form at the toe of slopes and where streams debouch onto the valley floor; composition is dependent on source sediments.
- Ar:** Sand, silt, and gravel with minor organic materials; includes varying amounts of Ap, At, and Ad; erosion and interbedded with colluvium in areas of steep slopes.

**COLLUVIAL DEPOSITS:** Debris and rubble, accumulated material from mass wasting processes; varying from loose sand to rock boulders; composition is dependent on source sediments.

- Cv:** Colluvium: yellow rock fragments in a matrix of sand, silt and clay; poorly sorted; discontinuous; commonly 1-2 m thick; mostly mapped on steep slopes (>45°) of secondary valleys.
- Ca:** Colluvium on steep slopes (>45°): cover of rock fragments in a matrix of sand, silt and clay; occurs in unconformable sediments; terrain surface shows abundant signs of erosion such as gullies; 2-3 m thick.
- Cb:** Colluvial apron and talus: rubble accumulation at the bottom of steep slopes (>45°); includes high proportions of local bedrock fragments.

**GLACIAL LAKE DEPOSITS:** sand, silt, and clay deposited in a glacial lake; well-sorted; commonly occurs as rhythmites with rare debris flow interbeds; sand is more abundant at elevation close to the former lake floor; sediments are common on adjacent units; contacts between subunits are gradational.

- Lv:** Varve of glacial lake sediments: discontinuous cover of silt with minor sand and clay; includes shallow water deposits; silt and sand sorted near beds of former lakes; average thickness of 1 m.
- Lb:** Blanket of glacial lake sediments: continuous cover of silt with minor sand and clay; not thick enough to completely mask the underlying topography; generally 2-4 m thick.

**GLACIOFLUVIAL DEPOSITS:** Sand and gravel deposited by glacial meltwater. Ebbes are too small to show as separate units at this scale of mapping and are indicated by symbols.

- Ot:** Glaciofluvial terrace sediments: sand and gravel; stratified in massive; occurs as terraces interpreted as glaciofluvial in origin because of their elevation above alluvial units or location in ancient meander channels; average thickness is greater than 10 m.
- Gh:** Ice marginal deposits: coarse sand and gravel; deposited in contact with glacial ice; surfaces in horizontal and may include small depressions; locally can include Gt; generally greater than 3 m thick.
- Ob:** Blanket of glaciofluvial sediments: sand and gravel; stratified in massive; sediment cover is continuous but fails to obscure the underlying topography; greater than 2 m thick.
- Gd:** Proglacial deltaic sediments: coarse sand and gravel underlain by sand and silt; deposited as a delta in a glacial lake; more than 10 m thick.

**TILL DEPOSITS:** Till deposits of glacial till: consists of rock fragments of all sizes in a sandy to clayey matrix; but usually sandy; silt; includes colluvium on steeply sloping terrain and small nodules of glaciofluvial sediments; commonly in valley bottoms and where the suffix 's' is used (abundant material otherwise e.g. Tv<sub>s</sub>).

- Tv:** Till veneer: silt with abundant bedrock outcrop; less than 1 m thick.
- Tb:** Till blanket: silt with scarce bedrock outcrop; more than 1 m thick.
- Tm:** Thick till: homogenous till cover which masks the underlying topography; surface expression generally unobscured by discontinuous outcrops; bedrock outcrops are absent; sediment thickness greater than 3 m.

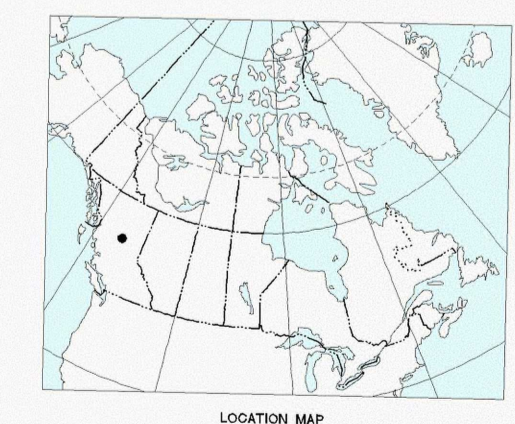
**BEDROCK:** Sedimentary, metamorphic, volcanic, and igneous rocks of Proterozoic through Cenozoic age.

- R:** Bedrock: mostly outcrop but with local thin patches of fill and colluvium which rarely exceeds 2 m.
- Rs:** Steep bedrock: outcrop on steeply sloping terrain; patchy cover of fill, colluvium and local bedrock fragments; increase in discontinuous development; includes alpine areas typical with arctic and cirque.

### SYMBOLS

- Geological boundary
- Archeic track
- Deltaic fan track
- Dune (fractured)
- Abandoned meander channel, large
- Abandoned meander channel, small (flow direction known, unknown)
- Kettle hole (small)
- Esker (direction of former water flow known, unknown)
- Drumlin (direction of flow known, unknown)
- Crag and tail
- Glacial fluting
- Glacial strike (direction of ice flow known, unknown)
- Glacial strike, subglacial (direction of ice flow known, unknown)
- Cirque (fresh and subglacial)
- Arctic (fresh and subglacial)
- Bedrock inversion
- Outcrop
- Gravel pit

Scale 1:100 000 - Echelle 1/100 000



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 Mean magnetic declination 1984, 2°11' E, increasing 0.5' annually  
 Readings may vary 20' at the SE corner to 24' at the NW corner of the map  
 Elevations in metres above mean sea level

OPEN FILE 2842  
**SURFICIAL GEOLOGY**  
**CHUCHI LAKE**  
 BRITISH COLUMBIA

Scale 1:100 000 - Echelle 1/100 000

Transverse Mercator Projection  
 UTM 12N 20, Zone 18  
 Projection Reference: NAD 83  
 UTM 12N 20, Zone 18  
 UTM 12N 20, Zone 18  
 UTM 12N 20, Zone 18



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