



LEGEND

- O** ORGANIC DEPOSITS: Peat and muck; occurs on poorly drained terrain such as bays and bogs; organic deposits too small to be shown at this scale; average thickness of 3-4 m; maximum thickness 12 m.
- Ap** ALLUVIAL (FLUVIAL) DEPOSITS: Deposits of streams and rivers, composed of rock drilled to massive silt, sand and gravel with minor clay; greater than 2 m thick.
- At** Terrace sediments: gravel overlain by a veneer of sand and silt; mostly well-sorted; underlies level surfaces well above river level.
- A^d** Deltaic sediments: sand and gravel (generally greater than 2 m) underlain by silt and clay; occurs at or below present lake levels at the mouth of a stream.
- Af** Fan sediments: gravel, sand, silt, and clay; poorly sorted; occurs as a fan-shaped form at the base of slopes and where streams descend onto flat valley floor; composition is dependent on source materials.
- Ax** Sand, silt, and gravel with minor organic materials; consists of varying amounts of Ag, At and Af, overlain and intermixed with colluvium in areas of steep slopes.
- COLLUVIAL DEPOSITS: Debris and rubble, material accumulated from various mass wasting processes; varying from slope wash to rock falls. Composition is dependent on source materials.**
- Cv** Colluvium veneer: rock fragments in a matrix of sand, silt and clay; poorly sorted, discontinuous; commonly 1-2 m thick; mapped on steep slopes (> 40°) of secondary valleys.
- Cs** Colluvium on steep slopes (> 40°): cover of rock fragments in a matrix of sand, silt and clay; coarse largely if unconsolidated sediments; slopes show abundant signs of erosion such as gullies, > 2 m thick.
- Ca** Colluvial apron and talus: rubble accumulations at the bottom of steep slopes (> 40°); includes 70% proportions of local bedrock fragments; commonly thicker than 5 m.
- Lv** VENEER OF GLACIAL LAKE SEDIMENTS: discontinuous cover of sand, silt, and clay deposited in a glacial lake; well-sorted, commonly occurs as a veneer on the former lake floor; clasts are common on adjacent units; contacts between subunits are gradational; includes shallow water deposits, i.e., well-sorted sand near limits of former lakes; average thickness of 1 m.
- GLACIOFLUVIAL DEPOSITS: Sand and gravel deposited by glacial meltwater; clasts are too small to show as separate units at this scale of mapping and are indicated by symbol.**
- Gt** Glaciofluvial terrace sediments: sand and gravel, stratified to massive; occurs as terraces interpreted as glaciofluvial in origin because of their elevation above alluvial units or deposits in ancient meltwater conduits; average thickness is greater than 10 m.
- Gh** Ice contact deposits: coarse sand and gravel; deposited in contact with glacial ice; surface is hummocky and may include kettle depression; locally can include Gg; generally greater than 2 m thick.
- Gb** Blanket of glaciofluvial sediments: sand and gravel, stratified to massive; sediment cover is continuous but fails to obscure the underlying morphology; 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.
- TLL: 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 isolated outcrops, and small inclusions of glaciofluvial sediments especially in valley bottoms and where the silt is used (abundant meltwater channels e.g. T-c);**
- Tm** Thick till, hummocky: fill cover which masks the underlying topography; surface depression generally underlying with drummed features common; bedrock outcrops are sparse; sediment thickness greater than 3 m.
- Tb** Till blanket: fill with sparse bedrock outcrops; more than 1 m thick.
- Tv** Till veneer: fill with abundant bedrock outcrops; less than 1 m thick; Tvc - area marked off abundant meltwater drainage.
- BEDROCK: Sedimentary, metamorphic, volcanic, and intrusive rocks of Precambrian through Cenozoic age.**
- R** Bedrock: mostly outcrop but with local thin patches of fill and colluvium which range up to 2 m.
- Rs** Steep bedrock: outcrop on steeply sloping terrain; patchy cover of fill, colluvium and local bedrock fragments increase in abundance downslope; includes alpine areas typified with arêtes and cirques.

SYMBOLS

- Geological boundary
- Avalanche track
- Debris flow track
- Abandoned meltwater channel, small (flow direction known, unknown)
- Esker (direction of former water flow known)
- Drumlin (direction of flow known, unknown)
- Crag and tail
- Glacial filling
- Glacial series (direction of ice flow known, unknown)
- Glacial series, subtidal (direction of ice flow known, unknown)
- Cirque (fresh and subdued)
- Arête (fresh and subdued)
- Bedrock lineation
- Outcrop
- Gravel pit
- Field observation and sampling site
- Field observation site

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SURFICIAL GEOLOGY
TSAYTA LAKE
BRITISH COLUMBIA

Scale 1:100 000 - Échelle 1/100 000
 Transverse Mercator Projection
 UTM Zone 18N, Spheroid: Everest
 Datum: Everest
 Projection: Transverse Mercator
 M.S. 100 000, Datum: Everest
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 Mean magnetic declination 1985, 24°10' E, decreasing 9.0" annually. Readings vary from 22°05' E to the SE corner to 24°02' E in the NW corner of the map.
 Elevation in feet above mean sea level

80 50E	80 50W	80 50N	80 50S
80 50E	80 50W	80 50N	80 50S
80 50E	80 50W	80 50N	80 50S
80 50E	80 50W	80 50N	80 50S
80 50E	80 50W	80 50N	80 50S
80 50E	80 50W	80 50N	80 50S
80 50E	80 50W	80 50N	80 50S
80 50E	80 50W	80 50N	80 50S
80 50E	80 50W	80 50N	80 50S
80 50E	80 50W	80 50N	80 50S



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