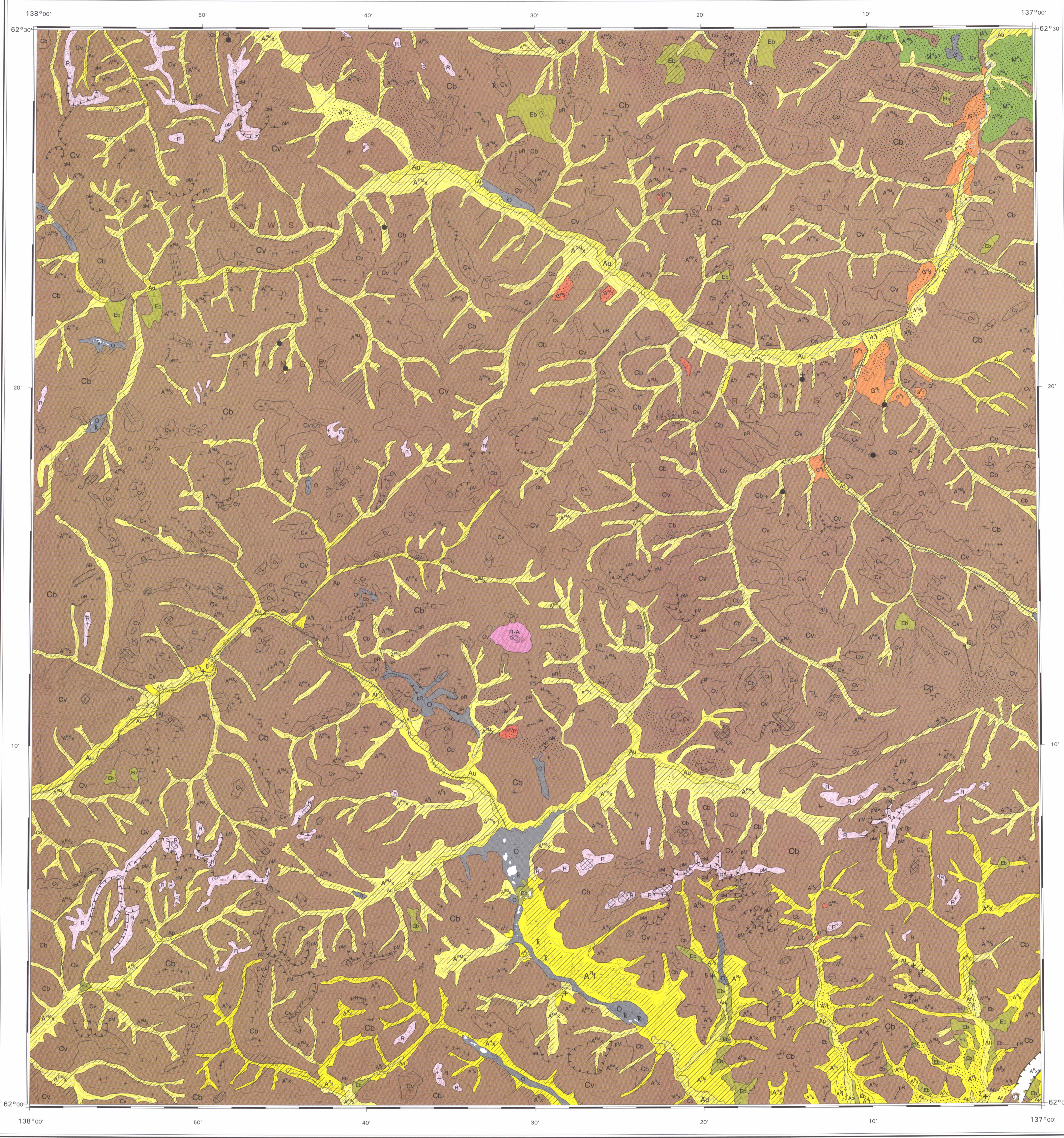


- 1** Angular to subrounded rusty gravel containing lenses of peaty organic and pieces of wood. ¹⁴C ages (n = 38 000 ± 1000-4800) and > 40 000 a (GS-4830) determined on spruce logs near the top of the section. Thinly bedded, decomposed silty peat and silt. Interbedded silt, sand and angular pebble gravel. Interbedded organic rich silt and pebble gravel. Thinly bedded rusty angular gravel interstratified with organic-rich silt. Angular, poorly sorted, finely bedded gravel interstratified with organic-rich silt and wood fragments. Gravel matrix has a high organic content. Angular, poorly sorted gravel. Organic detritus incorporated into the gravel.
- 2** Wind-blown sand and silt. Shallowly developed with it. Capped by White River tephra. Medium textured sand with scattered ventifacted pebbles. Transition zone from rounded manganese-stained gravel upward into ventifacted gravel and pebbly sand. Rounded to subangular manganese-stained gravel. Clasts to 7 cm in diameter are common.
- 3** Section is a core from an exploratory bore hole drilled at 45° by André Carro and Associates (1981) Ltd. (Bore hole DDH 115). The top of the core is 6.75 m below the top of the bore hole. Collosum diamicton composed of angular granitic clasts up to 27 cm in length in a silty clay matrix. Some dark organic-rich beds are present in the matrix. A ridge (Cypripedium), shrub, herb tundra pollen assemblage was recovered from the organic material. Interbedded pebbly silt, silty sand, decomposed peat, peaty pebbly silt. (Pollen sp.) and bryofloric (Sphaeridium canadense) dominant pollen samples. Peat horizon developed in colluvial diamicton. Colour: A horizon 10 YR 7/2, B horizon 7.5 YR 5/6 to 10 YR 6/6. B horizon is the least eroded 10 km of the fan. Peat horizon developed in colluvial diamicton. Colour: A horizon 10 YR 5/2, B horizon 7.5 YR 5/6 to 10 YR 6/6. B horizon contains moderate amounts of diamicton. Peat horizon developed in colluvial diamicton. Colour: A horizon 10 YR 6/2, B horizon 10 YR 6/6, B horizon 7.5 YR 5/6 to 10 YR 6/6. B horizon contains kaolinite and trace layer clay minerals. Unindurated stony colluvial diamicton with a silty, sandy matrix. Peat horizon developed in colluvial diamicton and bedrock. Colour: A horizon 10 YR 6/2, B horizon 7.5 YR 7/2, B horizon 7.5 YR 7/8 to 7.5 YR 5/6. B horizon is the least eroded 10 km of the fan. Peat horizon developed in colluvial diamicton. Colour: A horizon 10 YR 7/2, B horizon 7.5 YR 5/6 to 10 YR 6/6. B horizon is the least eroded 10 km of the fan. Peat horizon developed in colluvial diamicton. Colour: A horizon 10 YR 6/2, B horizon 7.5 YR 5/6 to 10 YR 6/6. B horizon contains kaolinite and trace layer clay minerals.
- 4** Section is exposed in the wall of an exploration trench. Stony colluvium, sandy matrix, angular stones. Cross-bedded medium sand. Wooded Mosaic peatland developed in younger pre-Red glaciation outwash gravel. Gravel intensely weathered with thick clay skins. Colour of clay skins 10 YR 5/8. Gravel clay sand wedges. Diamicton (younger pre-Red silt). Contains striated and streamlined stones. Granitic clasts weathered to clay.
- 5** Largely obscured by sandy colluvium; dug pits reveal oxidized sand. Upper 14 cm consist of a regolith capped by White River tephra. Horizontally bedded sand. Covered by sandy colluvium. Dug pits reveal horizontally bedded medium sand. Subangular to angular gravel, clasts are ventifacted. Pebbly sand (alluvial fan). Rounded to subrounded unweathered gravel. Maximum diameter of clasts to 30 cm. Stony coarse sand, stones angular and ventifacted. Upper 20 cm peaty regolith and White River tephra. Covered by gravely colluvium. Dug pits reveal oxidized to unoxidized sandy gravel. Clasts are angular to rounded. Gravel coarse downward. Covered by colluvium to gravel of Loosely Creek valley 10 m below. Unweathered rounded to subrounded gravel. Clasts range up to 30 cm in diameter. Interstratified peat and gravel. Angular sandy gravel. Stony silt. Stony diamicton, sandy matrix. Very coarse angular gravel, clasts to 1 m.
- 6** Covered by colluvium to gravel of Loosely Creek valley 10 m below. Unweathered rounded to subrounded gravel. Clasts range up to 30 cm in diameter. Interstratified peat and gravel. Angular sandy gravel. Stony silt. Stony diamicton, sandy matrix. Very coarse angular gravel, clasts to 1 m.
- 7** Covered by colluvium to gravel of Loosely Creek valley 10 m below. Unweathered rounded to subrounded gravel. Clasts range up to 30 cm in diameter. Stony coarse sand, stones angular and ventifacted. Upper 20 cm peaty regolith and White River tephra. Covered by gravely colluvium. Dug pits reveal oxidized to unoxidized sandy gravel. Clasts are angular to rounded. Gravel coarse downward. Covered by colluvium to gravel of Loosely Creek valley 10 m below. Unweathered rounded to subrounded gravel. Clasts range up to 30 cm in diameter. Iron stained sandy, angular poorly sorted gravel. Greyish green, very poorly sorted angular gravel, gravely diamicton. Greyish angular gravel.

- LEGEND FOR STRATIGRAPHIC SECTIONS**
- QUATERNARY**
- Peat and other organic sediments
 - Eolian sediments and White River tephra
 - Alluvial (Holocene) sands and gravels
- MIDDLE TO LATE PLEISTOCENE**
- Colluvium
 - Alluvial sediments of unknown age
 - Stream depositor sediments (pre-McConnell Glaciation) or non-glacial origin (includes terrace gravels along Klara River possibly deposited by outlet waters from a lake dammed by a glacial margin along the southern margin of Davidson range during Reid Glaciation)
- EARLY TO MIDDLE PLEISTOCENE**
- Alluvial sediments graded to the glacial margin, Reid Glaciation
 - Lacustrine sediments from uncorrelated middle or late Pleistocene interglacials
 - Paleosol developed between the younger pre-Red glaciation and Reid glaciation
 - Till, younger pre-Red glaciation
 - Glaciofluvial sediments, younger pre-Red glaciation
 - Paleozoic and Mesozoic bedrock



MAP 1876A
SURFICIAL GEOLOGY
VICTORIA CREEK
YUKON TERRITORY

Scale 1:100 000 - Echelle 1/100 000

Base map assembled and modified by the Geoscience Information Division from maps 115-0/1 (1969), 115-45 (1970), 115-16 (1971), 115-14 (1984) published at the scale of 1:50 000 by the Surveys and Mapping Branch.

Copies of the topographical editions covering this map area may be obtained from the Canada Map Office, Natural Resources Canada, Ottawa, Ontario, K1A 0G9.

Mean magnetic declination 1997, 27°55' E, decreasing 11.7' annually. Readings vary from 27°30' E in the SW corner to 28°11' E in the NE corner of the map.

Elevations in feet above mean sea level

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ACQUIRING GEOLOGICAL SURVEY OF CANADA MAPS

115-013	115-014	115-015	115-016
1877A	1877B	1878A	1878B
115-012	115-011	115-010	115-019
115-05	115-06	115-07	115-08
1876A	1876B	1879A	1879B
115-04	115-03	115-02	115-01

LEGEND

Coloured legend blocks indicate map units that appear on this map. This legend is common to maps 1876A-1879A.

CENOZOIC

QUATERNARY

HOLOCENE - POST-McCONNELL GLACIATION

- O** Bog, fen, and swamp deposits; undivided; thickness < 1 m to 10 m
- Ap** ALLUVIAL DEPOSITS: gravel to silt size sediments deposited by streams
- At** ALLUVIAL DEPOSITS: gravel, cobble to pebble; massive to thick bedded capped by sand and silt; flat lying; includes lacustrine and organic deposits; a abandoned channels and backswamp areas subject to periodic inundation and reworking by floods; thickness 1 to 5 m
- Af** ALLUVIAL FAN DEPOSITS: gravel, silt, and diamicton; poorly sorted; thick bedded to massive; sediments form fan shaped landforms at the confluence of tributary streams with lower gradient fans; subject to flooding accompanied by sudden stream migration and inundation by debris flow on fans with gradients in excess of 4%; thickness up to 10 m or more
- Au** ALLUVIAL DEPOSITS: undivided; sediments forming floodplains, fans, and terraces as above that cannot be subdivided at this map scale

PLEISTOCENE AND HOLOCENE (UNDIVIDED)

- Eb** EOLIAN DEPOSITS: well sorted medium sand to coarse silt transported and deposited by wind action during the early postglacial and McConnell Glaciation. Thin deposits of very fine sand and coarse silt < 1 m thick are distributed discontinuously throughout low lying areas (see SYMBOLS, 2, below)
- Eb** Eolian sands: sand, well sorted; massive; forms crescentic shape and linear dunes and features or gently undulating inter-dune eolian plains; thickness 1 to 5 m
- Cb** COLLUVIAL DEPOSITS: stony diamicton resulting from the physical and chemical breakdown of bedrock and reworking and transportation by creep, suffocation, debris flow, snow avalanches, and rockfall; also includes diamicton created by landsliding. Colluvial deposits may contain reworked glacial sediments within the limits of ice cover during the Reid and McConnell glaciations. Colluvial deposits beyond the limits of the McConnell Glaciation ice cover are likely the product of continuous formation and reworking over a significant part of the Pleistocene
- Cb** Colluvial blanket sediments: diamicton, stony with a sandy matrix; massive; surface conforms to underlying bedrock or buried glacial deposits; thickness > 1 m to 50 m or more in large landforms
- Cv** Colluvial veneer sediments: diamicton, stony with a sandy matrix; massive; thickness < 1 m to discontinuous over bedrock
- Ca** Colluvial apron sediments: diamicton, bouldery diamicton and bouldery sandy gravel; poorly sorted; massive; sediments form a wedge like slope of complex of small steep debris flow and avalanche-dominated fans and suffocation deposits; thickness < 1 m at top and down slope limit to up to 5 m or more in the thicker part of the apron

LATE PLEISTOCENE (WISCONSINAN) - McCONNELL GLACIATION

- LcCa** ROCKFALL DEPOSITS: boulders, angular, massive; deposits form as rockfall accumulations along bases of steep bedrock slopes; thickness ranges from < 1 m at margins to up to 10 m
- Lp** GLACIOFLUVIAL PLAIN DEPOSITS: well stratified sand, silt, clay, deposited in lines pointed by glacial ice. Glaciofluvial sediments may have regular surfaces or have ridges, hummocks, or other surfaces caused by meltout of former supporting glacial ice. Glaciofluvial silt and clay commonly contain extensive segregated ground ice. Consequently, they are widely affected by thermokarst collapse and retrogressive thaw landsliding along river
- Lp** Glaciofluvial plain: sand, silt, and clay with minor dropstones; finely bedded to laminated; thickness > 5 m
- Lb** Glaciofluvial blanket: silt and clay with minor sand; thinly bedded to laminated; deposit conforms to underlying topography; thickness 1 m to 5 m
- Lv** Glaciofluvial veneer: silt and clay with minor sand; thinly bedded to laminated; deposit conforms to underlying topography; thickness < 1 m to discontinuous
- Lx** Ice-contact glaciofluvial complex: sand, silt, and clay; laminated to medium bedded with up to 10 percent lamellar beds of gravel and diamicton and dropstones; surface is hummocky, pitted, and ridged; thickness > 5 m
- Gp** GLACIOFLUVIAL DEPOSITS: sands, gravels and minor silts > 1 m thick deposited by streams; flows away from, or in contact with glacial ice, including deltas graded to former glacial lakes. Sorting ranges from good to poor and stratification from thin bedded to massive. Sediments commonly display evidence of syndepositional collapse due to meltout of buried or supported sediments
- Gp** Glaciofluvial plain sediments: pebble to cobble gravel; massive to thick bedded; capped by sand and silt; planar surface; thickness 1 to > 10 m
- Gt** Glaciofluvial terrace sediments: pebble to cobble gravel; massive to thick bedded; incised into flights of terraces by glacial streams; thickness 1 to > 10 m
- Gd** Glaciofluvial delta sediments: sand, gravel, and minor silt and clay; moderately to well sorted; texture becomes finer downward; massive to thick bedded; deposit lies at planar surface and delta form in plan view; thickness > 5 m
- Gx** Glaciofluvial ice stagnation complex sediments: gravel, sand, diamicton, poorly to moderately sorted, and minor silt and clay; bedding thick to massive and commonly lobed and faulted from syndepositional ice meltout; surface consists of hummocks, wedges, esker and crevasse fill ridges with minor elements of units Gp, Gd, and Gt
- Gu** Discontinuous glaciofluvial sediments: gravel and sand including elements of units Gp and Gx, discontinuously distributed in areas of units Mb and Mv
- Mb** MORAINAL DEPOSITS (TILL): glacial diamicton, mainly till, generally consisting of a matrix ranging from sand to clay that supports clasts ranging from boulders to pebbles in size; deposited either directly from glacial ice or by gravity flow from glacial ice
- Mb** Till blanket: diamicton, stony with a silty, sandy matrix; massive to crossley stratified; surface conforms to the underlying topography; thickness 1 to 5 m
- Mv** Till veneer: diamicton, stony with a silty, sandy matrix; massive to crossley stratified; may contain extensive areas of thin (< 1 m) and patchy colluvium over bedrock

MIDDLE PLEISTOCENE - PRE-McCONNELL GLACIATION (UNDIVIDED)

- A^{mi}** ALLUVIAL DEPOSITS: gravel and sand deposited by streams that were not fed by glacial meltwaters. Sediments may represent several cycles of alluviation and erosion. Sediments are presently correlative to past glaciations but presumably predate McConnell Glaciation due to the presence of McConnell age loess overlying them. Basal gravels within these sediments commonly contain placer gold in basins draining Cretaceous granitoids and andesite.
- A^{mx}** ALLUVIAL FAN: single fans or aprons of coalesced fans formed of gravel and sand, poorly to moderately sorted, thick bedded. Sediments disturbed by cryoturbation and clasts commonly wind sculpted. Thickness up to 10 m or more
- A^{mx}** Alluvial complex sediments: gravel and sand, poorly to moderately sorted; thin to thick bedded; interstratified with colluvial diamicton, reworked peat, and woody detritus; sediments underlie the floors and margins of narrow upland valleys and grade laterally (upslope) into colluvial diamicton. They contain segregated ice lenses and ice wedges and are normally capped by blanket bog; sediments may represent several depositional cycles; thicknesses may exceed 10 m in mid-valley locations

MIDDLE PLEISTOCENE - REID GLACIATION

- A^{ri}** ALLUVIAL DEPOSITS: complexes of nonglacial and fan sands and gravels deposited by streams that flowed from ice-free areas toward Reid Glaciation ice margins. These sands and gravels locally overlie older interglacial gravels that contain placer gold
- A^{ri}** Alluvial terrace sediments: gravelly to massive sand and gravel; moderately sorted; clasts angular to subangular; bedding is thin to massive and irregular; gravel clasts are commonly frost shattered and are scattered throughout; have been incised into flights of terraces. Sediments are commonly cut by ice wedge water pseudomorphs over their upper 2 m (includes terrace gravels along Klara River possibly deposited by outlet waters from a lake dammed by a glacial margin during Reid Glaciation). Thickness 1 to 15 m
- A^{ri}** Alluvial fans: single fans or aprons of coalesced fans formed of gravel and sand, poorly to moderately sorted, thick bedded. Sediments disturbed by cryoturbation and clasts commonly wind sculpted. Thickness up to 10 m or more
- A^{rx}** Alluvial complex sediments: gravel and sand, poorly to moderately sorted; thin to thick bedded; interstratified with colluvial diamicton, reworked peat, and woody detritus; sediments underlie the floors and margins of narrow upland valleys and grade laterally (upslope) into colluvial diamicton. They contain segregated ice lenses and ice wedges and are normally capped by blanket bog; sediments may represent several depositional cycles; thicknesses may exceed 10 m in mid-valley locations
- L^p** GLACIOFLUVIAL DEPOSITS: well stratified sand, silt, clay, and minor gravel and diamicton deposited in lines pointed by glacial ice. Glaciofluvial silt and clay commonly contain segregated ground ice and are affected by contemporary thermokarst collapse
- L^p** Glaciofluvial plain: sand, silt, and clay, with minor dropstones; finely bedded to laminated; thickness 1 to > 5 m
- G^p** GLACIOFLUVIAL DEPOSITS: gravel and sand deposited by streams flowing away from glacial ice in meltwater channels and outwash plains. Thick bedded to massive; clasts, except for quartz, granitoid, and chert are disaggregated or weathered to clay over the upper 2 m of the sediments where they underlie the surface; clasts near the surface of the sediments are intensely wind sculpted and this interval is cut by ice wedge pseudomorphs and sand wedges; thickness 1 to > 5 m
- G^t** Glaciofluvial terrace sediments: pebble to cobble gravel; massive to thick bedded; incised into flights of terraces by glacial streams; thickness 1 to > 10 m
- G^d** Glaciofluvial delta sediments: sand, gravel and minor silt and clay; moderately to well sorted; massive to thick bedded; planar surface; thickness > 5 m
- G^x** Glaciofluvial ice stagnation complex sediments: gravel, sand, diamicton, poorly to moderately sorted, and minor silt and clay; bedding thick to massive and commonly lobed and faulted from syndepositional ice meltout; surface consists of hummocks, wedges, esker and crevasse fill ridges with minor elements of units Gp, Gd, and Gt
- M^b** MORAINAL DEPOSITS (TILL): glacial diamicton, mainly till, generally consisting of a matrix ranging from sand to clay that supports clasts ranging from boulders to pebbles in size; deposited either directly from glacial ice or by gravity flow from glacial ice
- M^b** Till blanket: diamicton, stony, silty sandy matrix; massive; conforms to underlying topography; thickness 1 to 5 m
- M^v** Till veneer: diamicton, stony, silty sandy matrix; massive; discontinuous and may contain extensive areas of thin (< 1 m) and patchy colluvium over bedrock

EARLY PLEISTOCENE - YOUNGER PRE-REID GLACIATION

- V** GLACIOFLUVIAL DEPOSITS: gravel and sand deposited by streams flowing away from glacial ice in meltwater channels and outwash plains. Thick bedded to massive; clasts, except for quartz, granitoid, and chert are disaggregated or weathered to clay over the upper 2 m of the sediments where they underlie the surface; clasts near the surface of the sediments are intensely wind sculpted and this interval is cut by ice wedge pseudomorphs and sand wedges; thickness 1 to > 5 m
- G^m** Glaciofluvial plain sediments: gravel and sand, deeply weathered; forms an unincised plain
- G^m** Glaciofluvial terrace sediments: gravel and sand, deeply weathered; incised into flights of terraces
- M^v** Till veneer: patchy, deeply weathered diamicton; matrix sandy silty clay. Formerly lobate-rich stones are weathered to clay

EARLY PLEISTOCENE

- V** VOLCANIC ROCK AND INTERSTRATIFIED SEDIMENTS
- V** Pleistocene volcanics (undivided): basalt, breccia, volcanic gneiss and hydrothermalite of the Selkirk volcanics erupted during the early and late Pleistocene or early Holocene epochs in the Fort Selkirk area. Cumulative basalt flow thicknesses exceed 100 m where they have filled valleys. Deposits of the two known pre-Red glaciations and at least one nonglacial period are locally interstratified with the volcanics and are exposed only in sections

PALEOZOIC AND MESOZOIC

- R** PRE-QUATERNARY BEDROCK: basalt, andesite, gneiss, schist, gneiss, granitoid and monzonite; includes areas of thin colluvial cover, blockfields, sorted stone polygons in sparse areas
- R-A** AVALANCHE MODIFIED PRE-QUATERNARY BEDROCK: bedrock areas subject to rapid mass wasting processes (rockfall and snow avalanches)

SYMBOLS

Note: pR, pre-Red glaciation; pM, pre-McConnell Glaciation; (no designator, assume McConnell Glaciation)

- Geological boundary
- Blanket bog covering generally less than 1 m thick
- Discontinuous eolian sands or silts, thickness locally up to 2 m
- Open system pingo, collapsed open system pingo
- Thermokarst collapse activity
- Landslide, arrow(s) indicate direction of movement
- Crease: degraded crease active prior to McConnell Glaciation
- Arête: degraded arête active prior to McConnell Glaciation
- Streamlined glacial bedforms: ice flow direction known, unknown
- Meltwater channel, large, small ice-walled channel, arrow indicates flow direction
- Esker: flow direction defined, unknown
- End moraine
- Recessional moraine
- Ice limit
- Cryoplanation terrace
- Tor
- Ventilate fossil locality
- Stratigraphic section

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