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**BEDROCK GEOLOGY
 DAWSON (116B & 116C)
 YUKON**



These maps contain the most current bedrock geology information in Yukon. All geological data are from the Yukon Geological Survey and available free of charge. Data are from recent mapping, regional compilations and thesis work.

The geological data used to create these maps can be downloaded at <https://data.geology.gov.yk.ca/Compilation/3>. These maps are subject to periodic updates. This map was last updated in February 2022.

The Yukon Geological Survey welcomes any revisions or new geological information. Any questions or comments can be directed to geology@gov.yk.ca.

Note: legend contains geological information for the map extent and not the surrounding area.

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| <p>MINERAL OCCURRENCE</p> <ul style="list-style-type: none"> ★ Deposit ☆ Historic Deposit ■ Significant exploration project | <p>GEOCHRONOLOGY METHOD</p> <ul style="list-style-type: none"> ● U/Pb, Zircon ● U/Pb, Other ▲ Ar/Ar ▲ K/Ar |
| <p>TERTIARY(?) AND QUATERNARY</p> <ul style="list-style-type: none"> ■ TQS: SELKIRK: columnar jointed, vesicular to massive basalt flows | <p>ORDOVICIAN TO LOWER DEVONIAN</p> <ul style="list-style-type: none"> ■ ODR: ROAD RIVER - SELWYN: black shale and chert, dolomitic siltstone, calcareous shale, buff platy limestone ■ ODR5: ROAD RIVER: barite ■ ODR1: DUO LAKE/ELMER CREEK - SELWYN: black graptolitic shale and black chert |
| <p>LOWER TERTIARY, MOSTLY(?) EOCENE</p> <ul style="list-style-type: none"> ■ ITR3: ROSS: brown, thin-bedded, claystone, siltstone, shale and coal ■ ITR2: ROSS: rhyolite flows, tuff, ash-flow tuff and breccia | <p>UPPER CAMBRIAN TO LOWER DEVONIAN</p> <ul style="list-style-type: none"> ■ CDB2: JONES RIDGE: biogenic, oolitic, siliceous, massive limestone ■ CDB1: BOUVETTE: grey and buff-weathering dolostone and limestone |
| <p>LATE CRETACEOUS TO TERTIARY</p> <ul style="list-style-type: none"> ■ LKqP: PROSPECTOR MOUNTAIN SUITE: Hbl-Bt granodiorite, Hbl diorite, quartz diorite ■ LKp: PROSPECTOR MOUNTAIN SUITE: quartz-feldspar porphyry | <p>CAMBRIAN TO DEVONIAN</p> <ul style="list-style-type: none"> ■ CDR: ROAD RIVER - RICHARDSON: black graptolitic shale, limestone and minor chert (undivided) |
| <p>MID-CRETACEOUS</p> <ul style="list-style-type: none"> ■ mKgW: WHITEHORSE SUITE: Bt-Hbl granodiorite, Hbl quartz diorite and Hbl diorite ■ mKyT: TOMBSTONE SUITE: Bt-Hbl-Cpx syenite, quartz syenite | <p>CAMBRIAN TO SILURIAN</p> <ul style="list-style-type: none"> ■ CSM9: MENZIE CREEK/DEMPSTER: gabbro, pyroxenite ■ CSM5: DEMPSTER: white weathering limestone, locally bioclastic ■ CSM4: DEMPSTER: flow banded rhyolite and felsite, breccia and felsic tuff ■ CSM3: DEMPSTER: mafic volcanic flows, tuff and hyaloclastic breccia ■ CSM1: MENZIE CREEK: massive, locally pillowed, dark grey-green basalt, tuff and breccia |
| <p>UPPER CRETACEOUS</p> <ul style="list-style-type: none"> ■ uK4: CARMACKS: sandstone, pebble conglomerate, shale, tuff, and coal ■ uK2: CARMACKS: andesite, porphyry ■ uK1: CARMACKS: augite-olivine basalt and breccia | <p>UPPER CAMBRIAN AND ORDOVICIAN</p> <ul style="list-style-type: none"> ■ COR1: RABBITKETTLE: thin-bedded, silty limestone and grey lustrous calcareous phyllite |
| <p>LOWER CRETACEOUS</p> <ul style="list-style-type: none"> ■ KM5: MONSTER: arkosic sandstone, silty mudstone, chert-quartz sandstone-pebble conglomerate ■ IKR: INDIAN RIVER: clast-supported pebble to cobble conglomerate | <p>LOWER AND MIDDLE CAMBRIAN</p> <ul style="list-style-type: none"> ■ ImCS2: ADAMS: grey, green and red argillite with laminated quartzite and siltstone ■ ImCS1: SLATS CREEK: turbiditic, quartz sandstone with minor shale and siltstone |
| <p>JURASSIC</p> <ul style="list-style-type: none"> ■ JB1: 'LOWER SCHIST': dark grey argillite, slate, and phyllite, commonly graphitic | <p>LOWER CAMBRIAN</p> <ul style="list-style-type: none"> ■ ICG1: GULL LAKE: shale, siltstone and mudstone, minor quartz sandstone ■ IC3: FUNNEL CREEK: massive, light grey limestone, locally dolomitic ■ IC2: HILLARD: fine-grained, yellow brown limestone, limy conglomerate-breccia |
| <p>MIDDLE TO UPPER TRIASSIC</p> <ul style="list-style-type: none"> ■ TRJ2: JONES LAKE: bioclastic limestone and interbedded sandy or silty limestone ■ TRJ1: JONES LAKE: calcareous siltstone, shale, and fine sandstone | <p>NEOPROTEROZOIC AND PALEOZOIC</p> <ul style="list-style-type: none"> ■ PDS2: SNOWCAP: light grey to buff weathering marble ■ PDS1: SNOWCAP: quartzite, psammite, pelite and marble; minor greenstone and amphibolite |
| <p>TRIASSIC</p> <ul style="list-style-type: none"> ■ TRG: GALENA SUITE: Hbl diorite and gabbro sills | <p>NEOPROTEROZOIC TO LOWER CAMBRIAN</p> <ul style="list-style-type: none"> ■ PCB1: BACKBONE: thick-bedded, medium to coarse-grained orthoquartzite ■ PCH: HYLAND: undivided coarse turbiditic clastics, limestone, maroon and green shale ■ PCH7: NARCHILLA: interbedded maroon and apple-green slate, siltstone, sandstone ■ PCH6: ALGAE: grey weathering, very fine crystalline limestone, locally sandy ■ PCH5: YUSEZYU: brown to pale green shale, quartz-rich sandstone, grit, pebble conglomerate |
| <p>MIDDLE TO LATE PERMIAN</p> <ul style="list-style-type: none"> ■ PK2: KLONDIKE SCHIST: silvery grey muscovite-chlorite quartz phyllite, micaceous quartzite | <p>NEOPROTEROZOIC</p> <ul style="list-style-type: none"> ■ uPG: GAMETRAIL: yellow/orange weathering dolostone, dolomitic siltstone and limestone ■ uPS: SHEEPBED: recessive, black weathering shale and siltstone ■ uPHC: HAY CREEK: undivided post-rift siliclastic rocks, dolostone and gabbro diamicrite ■ uPR3: EAGLE CREEK: polymictic, matrix-supported conglomerate ■ uPH6: MT HARPER: rhyolite flows, breccia and ignimbrite ■ uPH5: MT HARPER: diabase dikes and sills ■ uPH4: MT HARPER/CALLISON LAKE: stromatolitic dolostone, laminated sandstone, siltstone, and shale ■ uPH3: MT HARPER/SEELA PASS: heterolithic sandstone and conglomerate ■ uPH2: MT HARPER: massive and pillowed andesitic flows, tuff-breccia, lapilli tuff |
| <p>MIDDLE PERMIAN</p> <ul style="list-style-type: none"> ■ PDC2: DAWSON-CLINTON CREEK: brown weathering, variably serpenitized ultramafic rocks ■ PDC1: DAWSON-CLINTON CREEK: greenstone, phyllite, chert | <p>MESO TO NEOPROTEROZOIC</p> <ul style="list-style-type: none"> ■ uPFu2: FIFTEENMILE/CRAGGY: thick-bedded and massively recrystallized, silicified sucrosic dolostone ■ uPFu1: FIFTEENMILE/REEFAL: black to brown-coloured shale, siltstone, minor sandstone and conglomerate |
| <p>LOWER AND MIDDLE PERMIAN</p> <ul style="list-style-type: none"> ■ PJC3: TAHKANDIT: crystalline skeletal limestone, black chert, calcareous sandstone, conglomerate ■ PJC2: SADLEROCHIT: shale, siltstone and limestone ■ PJC1: JUNGLE CREEK: chert pebble conglomerate, sandstone and shale | <p>DEVONIAN, MISSISSIPPIAN AND(?) OLDER</p> <ul style="list-style-type: none"> ■ MgSR: SIMPSON RANGE SUITE: Hbl-bearing metagranodiorite, metadiorite and metatonalite |
| <p>UPPER CARBONIFEROUS</p> <ul style="list-style-type: none"> ■ CE: ETRRAIN: fossiliferous limestone and glauconitic sandy carbonate | |
| <p>UPPER DEVONIAN TO PERMIAN</p> <ul style="list-style-type: none"> ■ uDPF3: FORD LAKE: shale, siltstone, limestone, sandstone, conglomerate, chert undivided ■ uDPF2: FORD LAKE: shale, siltstone, limestone, sandstone, conglomerate, chert undivided | |
| <p>CARBONIFEROUS TO PERMIAN</p> <ul style="list-style-type: none"> ■ CPSM2: CAMPBELL RANGE: dark green to black basalt, greenstone, locally pillowed ■ CPMC: MOUNT CHRISTIE: burrowed, interbedded greenish grey cherty shale and green shale | |
| <p>CARBONIFEROUS</p> <ul style="list-style-type: none"> ■ CT4: TSICHU: siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite ■ CT2: TSICHU/KENO HILL: black to silvery shale or carbonaceous phyllite ■ CT1: TSICHU/KENO HILL: massive to thick-bedded quartz arenite | |
| <p>MISSISSIPPIAN</p> <ul style="list-style-type: none"> ■ MgSR: SIMPSON RANGE SUITE: Hbl-bearing metagranodiorite, metadiorite and metatonalite | |