

**LEGEND**

This legend is common to Open Files 1602, 1613, and 1628 to 1631. Coloured legend blocks indicate map units that appear on this map. Not all map symbols shown in the legend necessarily appear on this map.

**SURFICIAL DEPOSITS**

**QUATERNARY HOLOCENE**

- FLUVIAL SEDIMENTS:** alluvium; gravel and sand, 2–20 m thick.
  - Ap Alluvial plains: active braided floodplains; includes active proglacial outwash.
  - At Alluvial terraces
  - Af Alluvial fans
- MARINE AND GLACIAL MARINE SEDIMENTS:** gravel, sand, silt, and clay, 1–20 m thick, deposited in deltaic and beach environments during regression of the postglacial sea.
  - Mr Beach sediments: gravel and sand, 1–5 m thick, forming ridges and swales.
  - Mt Deltaic sediments: clay, silt, sand, and gravel, 5–20 m thick, forming coarsening upward sequences under dissected terraces.
  - Mv Deepwater proglacial silt veneers: silt, clay silt, and fine sand with dropstones, 1–2 m thick.
  - Mb Deepwater proglacial silt blankets: silt, clay silt, and fine sand with dropstones and minor gravel, 2–10 m thick.
- GLACIAL LACUSTRINE SEDIMENTS:** clay, silt, sand, and gravel deposited in glacier dammed lakes in deepwater, beach and deltaic environments.
  - Lr Beach sediments: sand and gravel, 1–5 m thick, forming beach ridges.
  - Lt Deltaic sediments: clay, silt, sand, and gravel, 5–20 m thick, forming coarsening upward sequences under dissected terraces.
  - Lv Deepwater proglacial silt veneers: silt, clay silt, and fine sand with dropstones, 1–2 m thick.
  - Lb Deepwater proglacial silt blankets: silt, clay silt, and fine sand with dropstones, 2–5 m thick.
- GLACIOFLUVIAL SEDIMENTS:** gravel and sand, 1–10 m thick, deposited behind, at, and in front of the ice margin.
  - Gp, Lt Proglacial outwash: gravel and sand, 1–10 m thick, forming braided floodplains, Gp; terraces, Gt, and fans, Gt.
  - Gr, h Ice contact stratified drift: gravel and sand, 1–5 m thick, forming eskers, G; and kames, Gh.

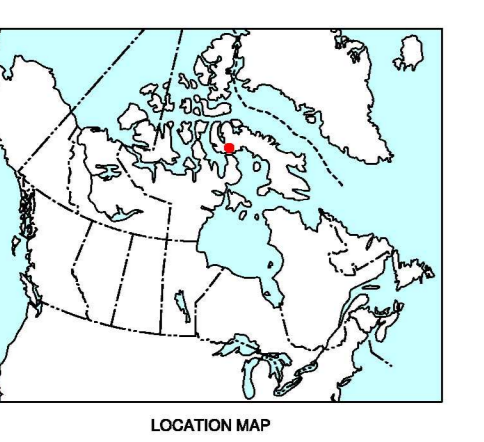
**EARLY HOLOCENE AND WISCONSINAN**

- Tm End moraines: 5–60 m high, composed of or mantled by till, extensively kettled in places; large features mainly cored by debris-rich relict glacial ice.
- Tv Till veneer: 0.5–2 m thick and discontinuous.
- Tvw Till veneer: 0.5–2 m thick, surface armored by stones due to washing by subglacial meltwater.
- Tb Till blankets: 2–10 m thick forming an undulating blanket with drumlins and ribbed moraines in places.
- Tbr Till blankets: 2–10 m thick forming ribbed (Rogen) moraines.

**BEDROCK PRE-QUATERNARY**

- R **ROCK:** rock of various compositions and ages (Jackson and Sangster, 1987) variably modified by glacial erosion during the Quaternary and with pebbly till covering hilly and hummocky surfaces, ice mounded in places, with lake basins in subglacially scoured regions; smooth surfaces exhibiting little or no sign of glacial erosion in particular interiors (Dyke, 1983); cliffs resulting from glacial over-deepening; in places veneered by thin till, commonly bouldery.

Geological boundary (defined, assumed) .....  
 Areas covered by perennial icefields during the Little Ice Age (indicated by a white pattern) .....  
 Kettle (large) .....  
 Glacial lake spillway .....  
 Glacial lake limit .....  
 Marine limit .....  
 Escarpment .....  
 Lateral meltwater channel; barb on upslope side .....  
 Subglacial and proglacial meltwater channel (small) .....  
 Esker .....  
 Kame .....  
 Ice contact face .....  
 Ribbed moraine .....  
 Lateral moraine .....  
 End moraine .....  
 Margin of dispersal train; teeth toward axis, steep side of teeth face down ice .....  
 Drumlinoid hill .....  
 Crag-and-tail .....  
 Ice moulded bedrock .....  
 Striae (ice flow direction known, unknown) .....  
 Crossed striae (numbers indicate relative age, 1 being the oldest) .....  
 Field observation site: bouldery diamicton (bd), bouldery gravel (bg), clay (c), diamicton (d), gravel (g), gravely sand (gs), mud (m), muddy sand (ms), rock (r), sand (s), sandy gravel (sg), stony mud (sm), till (t) .....  
 Field observation site: material as above near rock outcrop .....  
 Marine limit elevation (metres) .....

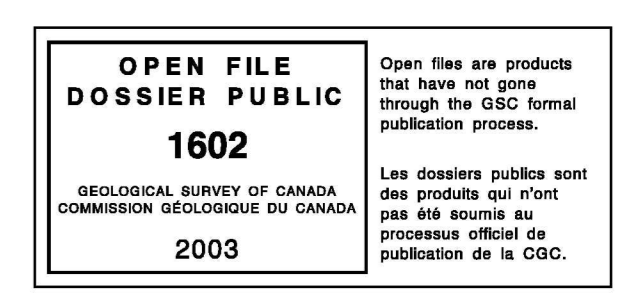


Geology by A.S. Dyke, 2002  
 Field data provided by De Beers Canada Inc., 2002  
 Digital cartography by M.M. Proulx, Earth Sciences Sector Information Division (ESS Info)  
 This map was produced from processes that conform to the ESS Info Publishing Services Subdivision Quality Management System, registered to the ISO 9001:2000 standard

OPEN FILE 1602  
 SURFICIAL GEOLOGY  
**GIFFORD PLATEAU (WEST)**  
 BAFFIN ISLAND  
 NUNAVUT  
 Scale 1:50 000/Échelle 1/50 000  
 Universal Transverse Mercator Projection  
 North American Datum 1983  
 Projection transverse universelle de Mercator  
 Système de référence géodésique nord-américain, 1983  
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Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada  
 Digital base map from data compiled by Geomatics Canada, modified by ESS Info  
 Locational accuracy of the base appears to be ±100m based on plotting of GPS measured field site locations  
 Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area  
 Mean magnetic declination 2003, 39°54'W, decreasing 45.2' annually  
 Elevations in metres above mean sea level

47 E13 OF 1601	47 E14 OF 1602	47 E15 OF 1603	47 E16 OF 1604
47 E17 OF 1605	47 E18 OF 1606	47 E19 OF 1607	47 E20 OF 1608
47 E21 OF 1609	47 E22 OF 1610	47 E23 OF 1611	47 E24 OF 1612
47 D13 OF 1628	47 D14 OF 1629	47 D15 OF 1630	47 D16 OF 1631



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