

LEGEND

This legend is common to Open Files 1598 to 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 glacially 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,t,f** Proglacial outwash: gravel and sand, 1–10 m thick, forming braided floodplains. Gp: terraces; Gt: and fans; Gf: and fans.
- Gr,h** Ice contact stratified drift: gravel and sand, 1–5 m thick, forming eskers. Gr: and kames; Gh: and kames.

EARLY HOLOCENE AND WISCONSINAN

- Tm** End moraines: 5–60 m high, composed of or mantled by till, extensively settled 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 armoured by stones due to washing by subglacial meltwater.
- Tb** Till blanket: 2–10 m thick forming an undulating blanket with drumlins and ribbed moraines in places.
- Tbr** Till blanket: 2–10 m thick forming ribbed (frozen) moraines.

BEDROCK PRE-QUATERNARY

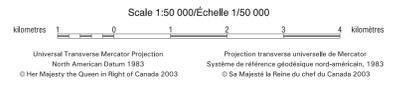
- R** ROCK: rock of various compositions and ages (Jackson and Sangster, 1987) extensively modified by glacial erosion during the Quaternary and with patchy till cover; hilly and hummocky surfaces, ice moulded in places, with lake basins in subglacially scoured regions; smooth surfaces exhibiting till or no sign of glacial erosion in central areas (Dyke, 1993); cliffs resulting from glacial over-steepening 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 moraines
 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: boundary diameter (bd), boundary gravel (bg), clay (c), diamictite (d), gravel (g), gravelly 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 1610
 SURFICIAL GEOLOGY
GIFFORD FIORD (WEST)
 BAFFIN ISLAND
 NUNAVUT



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, 38°01'W, decreasing 42.5' annually
 Elevations in metres above mean sea level

47 E13 OF 1601	47 E14 OF 1600	47 E15 OF 1599	47 E16 OF 1598
47 E17 OF 1602	47 E18 OF 1603	47 E19 OF 1604	47 E20 OF 1605
47 E21 OF 1606	47 E22 OF 1607	47 E23 OF 1608	47 E24 OF 1609
47 E25 OF 1610	47 E26 OF 1611	47 E27 OF 1612	47 E28 OF 1613
47 D13 OF 1628	47 D14 OF 1629	47 D15 OF 1630	47 D16 OF 1631

OPEN FILE DOSSIER PUBLIC
 1610
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