

- LEGEND**
- SURFICIAL DEPOSITS**
- QUATERNARY**
- FLUVIAL SEDIMENTS:** alluvium; gravel and sand, 2–20 m thick, forming active and relict deposits.
- Ap** Alluvial plains: gravel and sand, 2–10 m thick, forming braided floodplains, submerged at peak river flood.
- At** Alluvial fans.
- HOLOCENE AND LATE WISCONSINAN**
- BEACH AND GLACIAL MARINE SEDIMENTS:** gravel, sand, silt, and clay, 1–20 m thick, deposited in offshore, deltaic and beach environments during deglaciation and during regression of the postglacial sea.
- Mr** Beach sediments: gravel and sand, 1–3 m thick, forming ridges and swales.
- LATE WISCONSINAN**
- GLACIAL LACUSTRINE SEDIMENTS:** clay, silt, sand, and minor gravel, 1–2 m thick, deposited in small glacial dammed lakes.
- Lv** Proglacial silt veneers.
- GLACIOFLUVIAL SEDIMENTS:** gravel and sand, 1–60 m thick, deposited behind, at, and in front of the ice margin.
- Gp,lf** Proglacial outwash: gravel and sand, 1–30 m thick, forming braided floodplains, Gp: terraces, Gf: and fans, Gf.
- Gh** Ice contact stratified drift: gravel and sand, 2–80 m thick, possibly ice covered, forming individual conical mounds and large, lobed fan complexes comprising parts of and moraine belts.
- TLL** Noncorroded stony muds, 0.5–60 m thick, deposited in subglacial and ice marginal environments. This complex generally reflects underlying complex bedrock but sheet erosion is common.
- Tmp** End moraines: 0–60 m high ridges and hummocks, comprised of debris-rich, relict glacial ice melted by R, extremely well-sorted and characterized by large ice-wedge polygons, probably intertongued with Gh and Tbls, the other major components of end moraine systems.
- Tb** Till blankets: 2–20 m thick forming an undulating blanket, commonly hummocked or fluted.
- Tv** Till veneer: 0.5–2 m thick and discontinuous.
- BEDROCK**
- PRE-QUATERNARY**
- R** ROCK: Paleozoic carbonate rocks, generally scoured during the Quaternary and frost shattered during postglacial Tmp, outcropping mainly on hillsides, on slopes stripped bare by ice marginal meltwater streams, and in low, relict, sea cliffs in rapid beach terraces.
- Geological boundary
- Lateral meltwater channel: built on upglacier side
- Subglacial and proglacial meltwater channel
- End moraine
- Kame
- Drumlin and rising
- Cliff in bedrock
- Radiocarbon date
- Scale: 1:50 000
- Legend: 1:50 000

Geology based on network by A.S. Dyke, 2001

Geological compilation by A.S. Dyke, 2002

Digital cartography by R.L. Allen, 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

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Digital base map compiled and modified by ESS Info using data at 1:250 000 from Geological Canada, and covered an area of 1:250 000

Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area. Magnetic declination 2004, 27°W, decreasing at 2°W annually

Elevations in metres above mean sea level

OPEN FILE 4353

SURFICIAL GEOLOGY

CAIRN BLUFFS

VICTORIA ISLAND

NORTHWEST TERRITORIES

Scale 1:50 000/Échelle 1:50 000

Universal Transverse Mercator Projection
North American Datum 1983
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Projection transversale universelle de Mercator
Système de référence géodésique nord-américain, 1983
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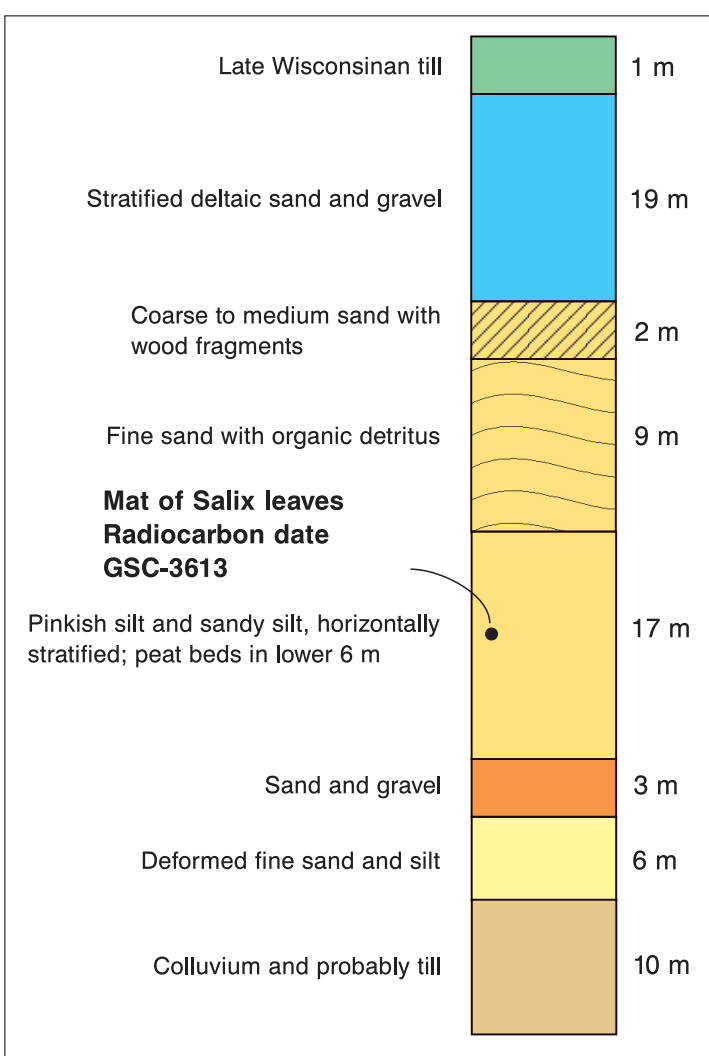
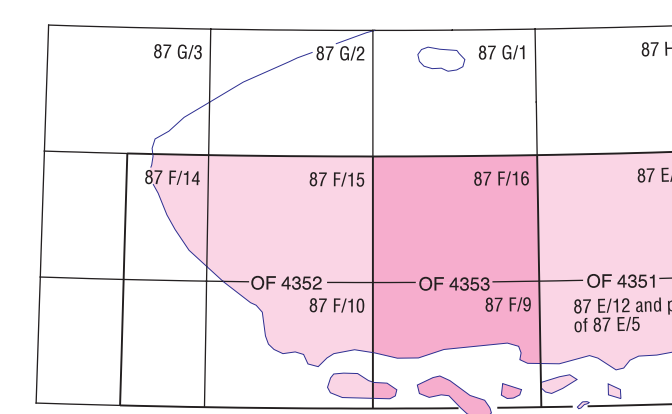


Figure 1. Schematic of sediments exposed along stream north of Safety Channel (J.-B. Vincent, unpublished).