



QUATERNARY

HOLOCENE

NONGLACIAL ENVIRONMENT

- O** Organic deposits, undifferentiated: peat and muck, up to 2 m thick, formed progressively by the accumulation of vegetative material as logs occur in depressions and along valley bottoms; permafrost is commonly present; contains small pebbles, ice wedge polygons and thermokarst collapse.
- Ap** Alluvial fan deposits: gravel to silt, generally are stratified and moderately sorted; 1 to 5 m thick, deposited by modern streams and rivers; occurs as floodplains in places covered by logs.

PLEISTOCENE (WISCONSIN GLACIATION)

GLACIAL ENVIRONMENT

- GL** Glaciolacustrine sediments, undifferentiated: silt and sand; cross-stratified to plane bedded; 1 to 5 m thick, deposited into temporary glacial channel lake and ponds.
- GLACIOLACUSTRAL SEDIMENTS:** sand, gravel, and minor silt; sorting ranges from good to poor, and stratification from massive or cross-stratified to plane bedded; more than 1 m thick, deposited by water flowing from, or in contact with, glacier ice.
- GF1** Subaerial outwash fan sediments: rounded gravel and sand, massive to cross-stratified; probably less than 5 m thick, occurs as broad fans.
- GF2** Esker sediments: sand, silt, and gravel; in place, cross-stratified, and massive beds; 1 to 40 m thick; forms ridges with both sharp-crested and flat-topped segments; rounded, striae ridges deposited at or within the ice margin; formed subglacially or in a subglacially exposed ice-walled channel; zones of well-sorted, small boulders, gravel ridges and isolated sand deposits associated with this unit are shown by symbols.
- GLACIAL SEDIMENTS (TLL):** unsorted glacial debris (diamiction), consisting of a silty sand matrix containing pebbles, cobbles, and boulders, with minor lenses of sorted sediments, deposited beneath, or along the margin of, glaciers as lodgment till, meltout till, and gravity flow deposits.
- Tv** Till veneer: diamiction, less than 2 m thick, rock structure is generally visible on outcrop; unit includes patches of bedrock and till lenses.
- Tb** Till blanket: diamiction, from 2 to 10 m thick, occurs as till plains mimicking bedrock topography or as drumlins; small rock outcrops in this unit are shown by symbols.
- Th** Hummocky till: diamiction, from 5 to 30 m thick, forms irregular to rolling terrain with relief up to 15 m; some areas have abundant small meltwater channels and high concentrations of boulders in depressions.

PRE-QUATERNARY

BEDROCK: Precambrian granitic, gneissic, metasedimentary, and metamorphic rocks; mafic dykes and minor, younger (Tertiary?) dykes; may include patches of till veneer or glaciolacustrine sediments; areas of shattered and faulted rock (shearers), particularly on metasediments, are designated by symbols.

- R2** Igneous bedrock: volcanic, granitoid.
- R3** Metamorphic bedrock: metasedimentary and metavolcanic rocks.

Other symbols:

- Essexite: frost heaved and shattered rock
- Concentration of glacially abraded boulders
- Area of meltwater scour
- Geological contact, defined
- Beach crest
- Minor meltwater channel, sense known
- Esker ridge, sense unknown
- Esker ridge, sense known
- Drumlin
- Crag and tail
- Faulted bedrock, sense known
- Kame, gravelly transverse ridge
- Stratification poorly defined, ice flow direction unknown
- Stratification poorly defined, ice flow direction known
- Stratification well defined, up flow direction known
- Crossed strata (1 = oldest, 2 = youngest)
- Coscan observation
- Small outcrop
- Sample location

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Geological Survey of Canada, 2015. Surficial geology, Winter Lake, Northwest Territories, NTS 86-A. Geological Survey of Canada, Canadian Geoscience Map 196 (previously Surficial Data Model v. 2.0 conversion of Map 1871A), scale 1:125 000. doi:10.4095/29558

Abstract
The new surficial geology map product represents the conversion of a series map 1871A and its legend only using the Geological Survey of Canada's Surface Data Model (SDM) version 2.0 which can be found in Open File 7621. All geoscientific knowledge and information from map 1871A that pertained to the current SDM were maintained during the conversion process. The purpose of converting legacy map data to a common digital language and format is to enable and facilitate the efficient digital compilation, interpretation, management and dissemination of geologic map information in a structured and consistent manner. This provides an effective knowledge management tool designed around a geo-database which can expand following the type of information to appear on new surficial geology maps.

Résumé
Ce nouveau produit de carte de géologie de surface (SDM) est la légende convertie, à été produit avec le Modèle de données des formations superficielles (SDM) version 2.0 de la Commission géologique du Canada qui a été publié sous forme de dossier public 7621. La conversion de toutes les données de la carte 1871A au format de données du SDM ont été maintenues pendant le processus de conversion. Le but de convertir les cartes existantes numériquement en langage scientifique commun et en légende commune est de permettre et faciliter la compilation, l'interprétation, la gestion et la diffusion numérique efficace d'information de cartes géologiques de façon structurée et cohérente. Cette base de données géologiques est un outil de gestion qui pourra évoluer suivant le type d'information à paraître sur les nouvelles cartes des formations superficielles.



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SURFICIAL GEOLOGY
WINTER LAKE
Northwest Territories
NTS 86-A
1:125 000

