



LEGEND

This legend is common to GSC maps 2046A-2060A, and MGS geoscientific maps MAP2003-1-MAP2003-12.

Coloured legend blocks indicate map units that appear on this map.

Not all map symbols shown in the legend necessarily appear on this map.

QUATERNARY

NONGLACIAL DEPOSITS

O Organic deposits: peat, muck; <1-5 m thick; very low relief wetland deposits; accumulated in fen, bog, swamp, and marsh settings.

E Eolian sediments: fine sand; 1-5 m thick; dunes; formed by wind prior to stabilization by vegetation, in most cases on subaqueous outwash sand.

Lm Alluvial sediments: sand and gravel, sand, silt, clay, organic detritus; 1-20 m thick; channel and overbank sediments; deposited by postglacial rivers.

Ap Overbank deposits.

Ac Channel deposits.

GLACIOLACUSTRINE DEPOSITS

GLACIAL LAKE SHORELINE SEDIMENTS: sand and gravel; 1-20 m thick; beach ridges, spits, bars; littoral sand and gravel; formed by waves at the margin of glacial Lake Agassiz.

Ls Shoreline deposits.

Li Littoral deposits.

Lz Clayey to sandy silt.

Lc Clay to silty clay.

GLACIOFLUVIAL DEPOSITS

Gs Subaqueous outwash: fine sand, minor gravel; thin silt and clay interbeds; 1-75 m thick; subaqueous outwash fans; deposited near the ice margin in glacial Lake Agassiz by meltwater turbidity currents, commonly reshaped by wave erosion and reworking by wind.

ICE-CONTACT GLACIOFLUVIAL SEDIMENTS: sand and gravel; 1-20 m thick; complex deposits, belts with sharp lateral multiple base planes and lenses, as well as thin, low-relief deposits, deposited in contact with glacial ice by meltwater.

Gc Predominantly derived from carbonate rocks.

Gp Predominantly derived from igneous and metamorphic rocks.

GLACIAL DEPOSITS

T Till: calcareous silt clambion; 1-75 m thick; low-relief, commonly streamlined deposits; subglacial deposits; largely derived from carbonate rocks; thicker sequences consist of multiple units with varying texture, commonly obscured by glaciogenic sediments.

DISCONTINUOUS TILL AND ASSOCIATED GLACIOFLUVIAL SEDIMENTS: gravelly till; sand clambion; sand and gravel; 1-30 m thick; deposited between bedrock outcrops making up 25-75% of the area; sandy till interbedded and interspersed with nearly equal and often greater amounts of sandy glaciogenic sediments, as well as thin glaciolacustrine sediments.

Tc Predominantly derived from carbonate rocks.

Tp Predominantly derived from igneous and metamorphic rocks.

PRE-QUATERNARY

ROCK: >75% bedrock outcrop; Paleozoic carbonate-dominated rocks in areas west of surface of Lake Winnipeg, exposed typically as glacially striated, low-relief surfaces. In Precambrian terrain, generally unmetamorphosed intrusive, metasedimentary, and metavolcanic rocks showing a glacially scoured regular pattern with high local relief; includes patches of thin glaciolacustrine sediments.

Rc Paleozoic sedimentary rocks.

Rp Precambrian igneous and metamorphic rocks.

Geological boundary (approximate)

Built-up area (map GSC 205A / MGS MAP2003-7 only)

Mine waste

Peat-extraction area

Gravel pit

Mine or bedrock quarry

Stabilized dunes

Abandoned channel

Minor beach ridge

Wave-cut scarp

Groundwater sapping channel

Piping depression

Iceberg scour

Tunnel valley

Esker (direction of flow indicated)

Streamlined landform

Glacial striae

Crossed striae (numbers indicate relative age, 1 being the oldest)

Small bedrock outcrop

GSC MAP 205A

MGS GEOSCIENTIFIC MAP MAP2003-7

SURFICIAL GEOLOGY

WINNIPEG

MANITOBA

Scale 1:100 000/Echelle 1/100 000

kilometres 2 0 2 4 6 8 kilometres

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

Digital base map from data compiled by Geomatics Canada, modified by ESS Info

Mean magnetic declination 2004, 5°00' E, decreasing 6.3' annually. Readings vary from 5°31' E in the SW corner to 4°29' E in the NE corner of the map

Elevations in metres above mean sea level north of 49°45' latitude and in feet above mean sea level south of 49°45' latitude

62-012	62-013	62-014	62-015	62-016	62-017	62-018	62-019
GSC 204B	GSC 205A	GSC 206A	GSC 207A	GSC 208A	GSC 209A	GSC 210A	GSC 211A
MGS MAP2003-1	MGS MAP2003-2	MGS MAP2003-3					
62-025	62-026	62-027	62-028	62-029	62-030	62-031	62-032
GSC 205B	GSC 206B	GSC 207B	GSC 208B	GSC 209B	GSC 210B	GSC 211B	GSC 212B
MGS MAP2003-4	MGS MAP2003-5	MGS MAP2003-6	MGS MAP2003-7	MGS MAP2003-8	MGS MAP2003-9	MGS MAP2003-10	MGS MAP2003-11
62-013	62-014	62-015	62-016	62-017	62-018	62-019	62-020
GSC 205A	GSC 206A	GSC 207A	GSC 208A	GSC 209A	GSC 210A	GSC 211A	GSC 212A
MGS MAP2003-7	MGS MAP2003-8	MGS MAP2003-9	MGS MAP2003-10	MGS MAP2003-11	MGS MAP2003-12		
62-024	62-025	62-026	62-027	62-028	62-029	62-030	62-031
GSC 205B	GSC 206B	GSC 207B	GSC 208B	GSC 209B	GSC 210B	GSC 211B	GSC 212B
MGS MAP2003-8	MGS MAP2003-9	MGS MAP2003-10	MGS MAP2003-11	MGS MAP2003-12			

MAPS COMBINED FROM THE FOLLOWING SOURCE DOCUMENTS
TO ACCOMPLISH GEOLOGICAL SURVEY OF CANADA AND
MANITOBA GEOLOGICAL SURVEY MAPS

Recommended citation:
Matile, G.L.D.
2004: Official geology, Winnipeg, Manitoba: Geological Survey of Canada, Map 205A; Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Geoscientific Map MAP2003-7, scale 1:100 000.

