



LEGEND

This legend is common to GSC maps 2046A-2060A and MGS geoscience 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.
- Lm Shoreline of modern lakes.

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.

GLACIOLACRINE 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.

OFFSHORE GLACIOLACRINE SEDIMENTS: clay, silt, minor sand; 1-20 m thick; very low relief massive and laminated deposits; deposited from suspension in offshore, deep water of glacial Lake Agassiz, commonly scoured and homogenized by icebergs.

Lz Clayey to sandy silt.

Lc Clay to silty clay.

GLACIOFLUVIAL DEPOSITS

ICE-CONTACT GLACIOFLUVIAL SEDIMENTS: sand and gravel; 1-20 m thick; complex deposits, belts with single or multiple wave ridges and terraces, 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

TILL: calcareous silt diamict; 1-75 m thick; low-relief, commonly streamlined deposits; subglacial deposits; largely derived from carbonate rocks; thicker sequences consist of multiple units of varying texture, commonly obscured by lateral accretion and interbedded by thin veneers (<1 m) of glaciolacustrine and glaciopluvial sediments.

DISCONTINUOUS TILL AND ASSOCIATED GLACIOFLUVIAL SEDIMENTS: gravelly till or sand diamict; sand and gravel; 1-30 m thick; -30 m thick between bedrock outcrops making up 25-70% of the area; sandy till interbedded and interspersed with nearly equal and often greater amounts of sandy glaciolacustrine sediments, as well as minor 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 and south of Lake Winnipeg, exposed typically as glacially striated, low-relief surfaces in Precambrian terrain, generally unweathered intrusive, metasedimentary, and meta-igneous rocks having a glacially改寫 irregular surface with high local relief; includes patches of thin glaciolacustrine sediments and organic material.

Rc Paleozoic sedimentary rocks.

Rp Precambrian igneous and metamorphic rocks.

Geological boundary (approximate)

Built-up area (map GSC 2056A / 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 strie

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

Small bedrock outcrop

Geological boundary (approximate)

Built-up area (map GSC 2056A / MGS MAP2003-7 only)

Mine waste

Peat-extraction area

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Small bedrock outcrop

GSC MAP 2056A

MGS GEOSCIENTIFIC MAP MAP2003-8

SURFICIAL GEOLOGY

STEINBACH

MANITOBA

Scale 1:100 000/Echelle 1/100 000

kilometres 2 0 2 4 6 8 kilomètres

Universal Transverse Mercator Projection North American Datum 1983 © Her Majesty the Queen in Right of Canada 2004

Projection transversale universelle de Mercator Système de référence géodésique nord-américain, 1983 © Sa Majesté la Reine du chef du Canada 2004

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: 4°02' E, decreasing 5.9' annually. Readings vary from 4°33' E in the SW corner to 3°30' E in the NE corner of the map

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

62 UTM	63 UTM	64 UTM	65 UTM	66 UTM	67 UTM
GSC 2046A MGS MAP2003-1					GSC 2051A MGS MAP2003-3
62 05	62 06	62 07	62 08	62 09	62 10
GSC 2052A MGS MAP2003-4					GSC 2054A MGS MAP2003-8
62 11	62 12	62 13	62 14	62 15	62 16
GSC 2055A MGS MAP2003-5					GSC 2057A MGS MAP2003-9
62 17	62 18	62 19	62 20	62 21	62 22
GSC 2058A MGS MAP2003-7					GSC 2059A MGS MAP2003-10
62 23	62 24	62 25	62 26	62 27	62 28
GSC 2060A MGS MAP2003-11					GSC 2061A MGS MAP2003-12

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX
TO ADDITIONAL GEOLOGIC SURVEY OF CANADA AND
MANITOBA GEOLOGICAL SURVEY MAPS

Recommended citation:
Matthe, G.L.D., 2004: Surficial geology, Steinbach, Manitoba; Geological Survey of Canada, Map 2056A, Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Geoscience Map MAP2003-8, scale 1:100 000.

