

LEGEND

This legend is common to GSC maps 2049A-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** Shoreline sediments: sand and gravel; 1-2 m thick; beaches; formed by waves at the margins 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.

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.

OFFSHORE GLACIOLACUSTRINE 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

- 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 reworked by wind.
- Gc** Ice-contact glaciofluvial sediments: sand and gravel; 1-20 m thick; complex deposits, belts with single or multiple esker ridges and kames, as well as thin, low-relief deposits; deposited in contact with glacial ice by meltwater.
- Gp** Predominantly derived from igneous and metamorphic rocks.

GLACIAL DEPOSITS

- T** Till: calcareous silt diamiction; 1-75 m thick; low-relief, commonly streamlined deposits; subglacial deposits; largely derived from carbonate rocks; thicker sequences consist of multiple units of varying textures; commonly scoured by icebergs; covered discontinuously by thin veneers (<1 m) of glaciofluvial and glaciofluvial sediments.
- Tc** Predominantly derived from carbonate rocks.
- Tp** Predominantly derived from igneous and metamorphic rocks.

DISCONTINUOUS TILL AND ASSOCIATED GLACIOFLUVIAL SEDIMENTS: gravely silt to sand diamiction, sand and gravel; 1-30 m thick; low-relief deposits between bedrock outcrops making up 25-75% of the area; sandy silt interbedded and interspersed with nearly equal or often greater amounts of sandy glaciofluvial sediments, as well as minor glaciofluvial sediments.

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 terranes, generally unweathered intrusive, metasedimentary, and metavolcanic rocks having a glacially scoured irregular surface with high local relief; includes patches of thin glacial sediments and organic material.

- Rc** Paleozoic sedimentary rocks.
- Rp** Precambrian igneous and metamorphic rocks.

Geological boundary (approximate)
 Built-up area (map GSC 2055A / MGS MAP2003-7)

Mine waste
 Peat-extraction area
 Gravel pit
 Mine or bedrock quarry
 Stabilized dunes
 Abandoned channel
 Minor beach ridge
 Wave-cut scarp
 Groundwater seeping channel
 Piping depression
 Iceberg scour
 Tunnel valley
 Esker (direction of flow indicated)
 Streamlined landform
 Glacial snail
 Crossed striae (numbers indicate relative age, 1 being the oldest)
 Small bedrock outcrop

Coastlines of the map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0G8, 3003-28th Street, N.W., Calgary, Alberta T2B 2A7, 100-4200 Robson Street, Vancouver, B.C. V6B 1K3, Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Publication Sales, 300-1065 Ellice Avenue, Winnipeg, Manitoba R3B 3P2.

Geology by G.L.D. Matile, Manitoba Geological Survey, 1993-1994

Co-ordinated by H. Thorlinton and G.L.D. Matile through the auspices of the Southern Prairies NATMAP Project and the Winnipeg Region NATMAP Project

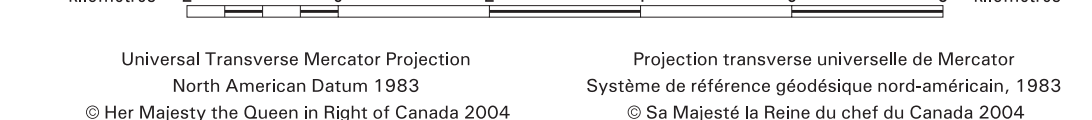
Digital cartography by P. St-Amour, Earth Sciences Sector Information Division (ESS Info)

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



GSC MAP 2056A
MGS GEOSCIENTIFIC MAP MAP2003-8
SURFICIAL GEOLOGY
STEINBACH
MANITOBA

Scale 1:100 000/Échelle 1/100 000



Universal Transverse Mercator Projection
North American Datum 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, 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'

02 012	02 013	02 014	02 015
GSC 2049A	GSC 2050A	GSC 2051A	
MGS MAP2003-1	MGS MAP2003-2	MGS MAP2003-3	
02 016	02 017	02 018	02 019
GSC 2052A	GSC 2053A	GSC 2054A	
MGS MAP2003-4	MGS MAP2003-5	MGS MAP2003-6	
02 020	02 021	02 022	02 023
GSC 2055A	GSC 2056A	GSC 2057A	
MGS MAP2003-7	MGS MAP2003-8	MGS MAP2003-9	
02 024	02 025	02 026	02 027
GSC 2058A	GSC 2059A	GSC 2060A	
MGS MAP2003-10	MGS MAP2003-11	MGS MAP2003-12	

NATIONAL TOPONYMIC SYSTEM REFERENCE AND MAPS
FOR MANITOBA GEOLOGICAL SURVEY OF CANADA AND
MANITOBA GEOLOGICAL SURVEY

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