

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

LEGEND

PLEISTOCENE AND RECENT

- Ice-crack features: soil - silty; surface in the form of long swells; sub-soil - silty clay
- 4 Alluvium deposits: silty; soil - fine silty sand; sub-soil - clayey silt
- 3 Lake-bed and flood-plain deposits: clayey; soil - black clay; surface almost level; sub-soil - clay with some silt lenses
- 2 Glacial outwash: soil - gravelly sand and coarse sand, sorted; in most places deficient in organic matter; surface in the form of low ridges
- 1 Glacial till modified: soil - gravelly and sandy with some silt and clay, very strong in places; surface undulating

- Glacial boundary (approximate)
- Gravel pit
- Ridges (gravelly)
- Quarry (limestone)

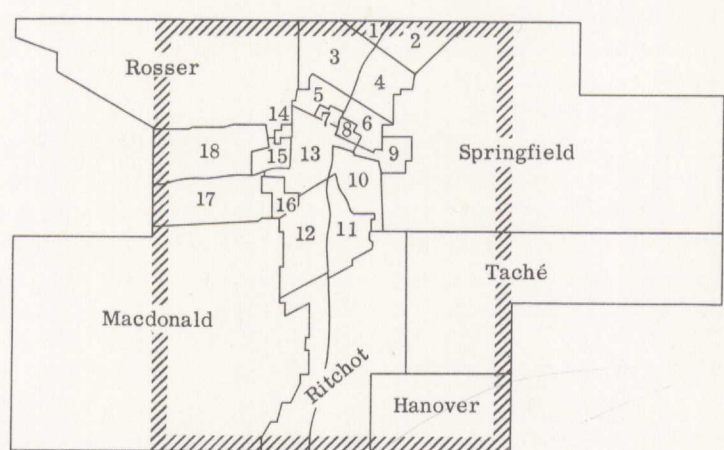
Geology by W. A. Johnston, 1916-1918 and 1926-1929
Modified by J. E. Charron, 1962

Geological cartography by the Geological Survey of Canada, 1964

- Main highway
- Roads, all weather
- Roads, dry weather
- Railway
- Township boundary, section line
- Settlement or parish boundary, lot number
- Post office, town or village
- Aqueduct
- Proposed route of Greater Winnipeg Floodway
- Main drainage ditch
- Perennial stream
- Intermittent stream

Base-map cartography by the Geological Survey of Canada, 1964
from maps produced by the Surveys and Mapping Branch, 1953, 1960 and 1961
with revisions by the Geological Survey of Canada

Approximate magnetic declination 9° 03' East, decreasing 0.9' annually

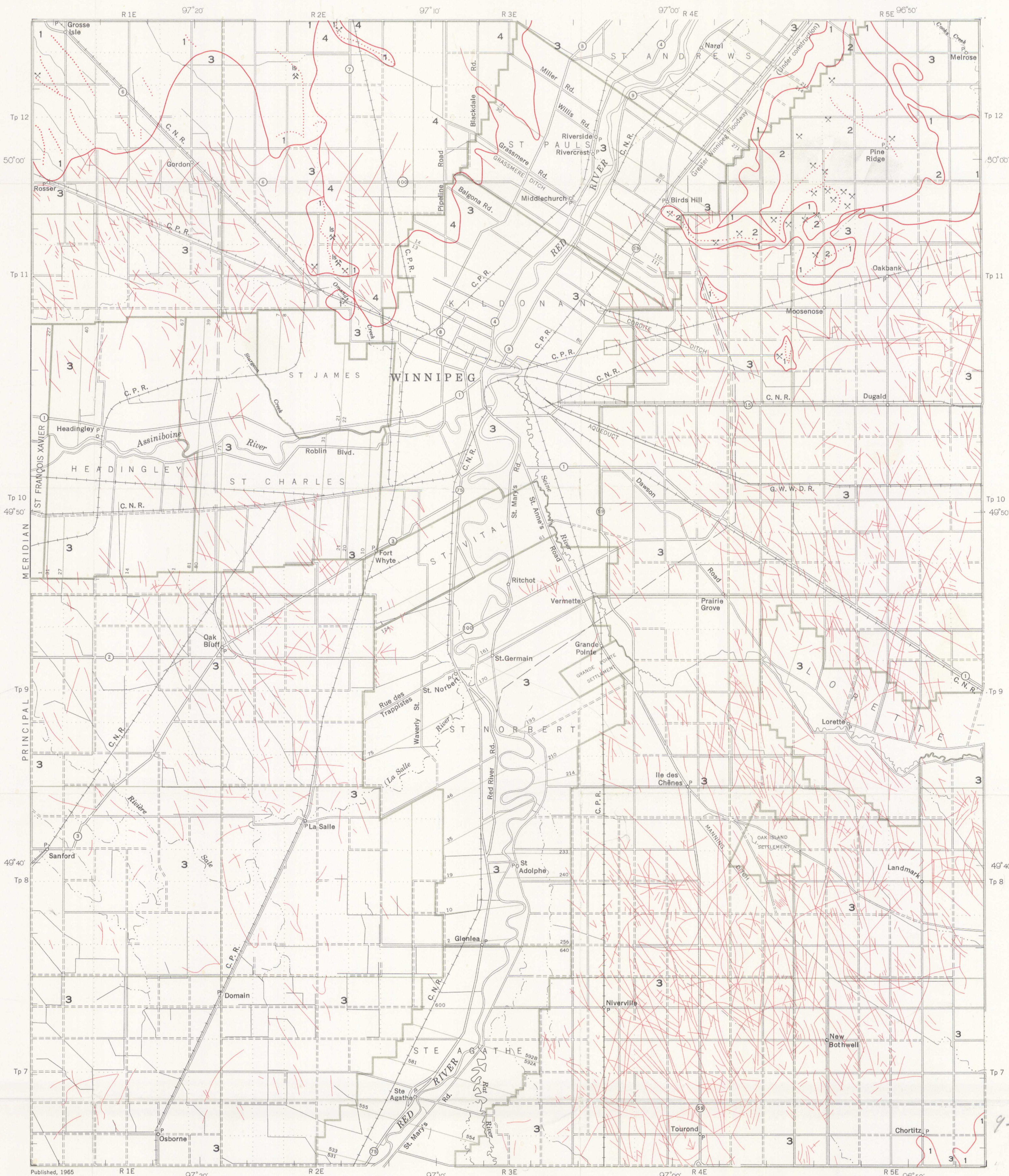
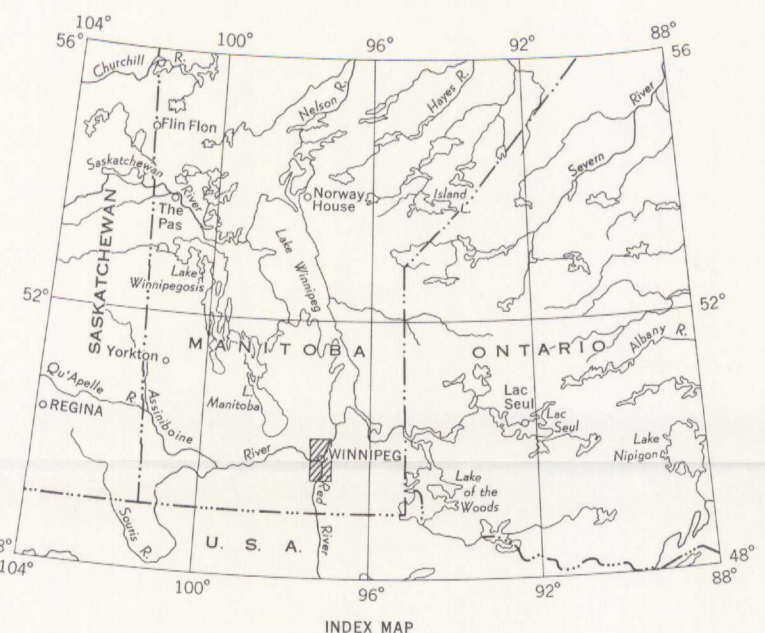


MUNICIPALITIES COVERED BY THIS MAP

- 1 - St. Andrews
- 2 - St. Clements
- 3 - W. St. Paul
- 4 - E. St. Paul
- 5 - Old Kildonan
- 6 - N. Kildonan
- 7 - W. Kildonan
- 8 - E. Kildonan
- 9 - Transcona
- 10 - St. Boniface
- 11 - St. Vital
- 12 - Fort Garry
- 13 - Winnipeg
- 14 - Brooklands
- 15 - St. James
- 16 - Tuxedo
- 17 - Charleswood
- 18 - Assiniboia

DIAGRAM OF TOWNSHIP SHOWING NUMBERING OF SECTIONS

31	32	33	34	35	36
30	29	28	27	26	25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	1



Published, 1965

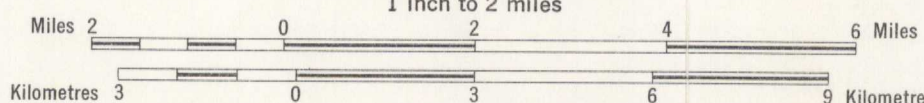
Printed by the Surveys and Mapping Branch

MAP-9 1964
PAPER 64-23

SURFICIAL GEOLOGY
WINNIPEG AREA

EAST OF PRINCIPAL MERIDIAN
MANITOBA

Scale 1:126,720
1 inch to 2 miles



ESIC CIST
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62 J/SE	62 J/SW	62 J/SE
62 G/NE	62 G/NW	62 G/NE
62 G/SE	62 G/SW	62 G/SE

WINNIPEG
MANITOBA

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