



# SURFICIAL GEOLOGY & AGGREGATE RESOURCES OF THE Russell/Shoal Lake Area Manitoba

- ## Legend
- ### QUATERNARY
- #### Post Glacial
- 8 ..... Organics - swamp, muck and peat
  - 7 ..... Colluvium - slumped material on valley slopes, mainly shale, minor till and outwash
  - 6 ..... Alluvium - sand and silt, minor clay and gravel
- #### Proglacial
- 5c ..... Fluvial Terraces - thin sand and gravel over till
  - 5b ..... Fluvial Terraces - sand and gravel
  - 5a ..... Fluvial Terraces - sand and silt, minor gravel
  - 4c ..... Outwash Plain - sand and gravel with eolian sand cover (>1m thick)
  - 4b ..... Outwash Plain - sand and gravel
  - 4a ..... Outwash Plain - sand, minor gravel and silt
- #### Glacial
- 3c ..... Moraine Plateau - silt and clay, minor till
  - 3b ..... Ice Contact Features - kames and eskers, sand and sand till, local gravel bodies
  - 3a ..... Kame Moraine Complex - sand, local gravel and till
  - 2d ..... Till Plain - corrugated, moderate to high local relief (>5m) with distinct northeast-southwest trending moraine ridges
  - 2c ..... Till Moraine - hummocky, >10m local relief
  - 2b ..... Till Plain - rolling to hummocky, 5-10 m local relief
  - 2a ..... Till Plain - rolling, <5 m local relief
- ### CRETACEOUS
- 1 ..... Riding Mountain Formation - grey shale

- ## Symbols
- ..... Geological Boundary
  - ✕G039 ..... Pit, exposure number, no sample
  - ✕G039S ..... Pit, exposure number, sample
  - G034 ..... Geological Field Exposure, no sample
  - G034S ..... Geological Field Exposure, sample
  - I2236 ..... Aggregate Deposit Number ..... \*Buried Deposit-size unknown + Minor Deposit (<5ha)
  - ..... Small Meltwater Channel
  - ..... Large Meltwater Channel
  - >>>> ..... Esker Ridge - mainly sand, minor gravel
  - ..... Drumlinoid Ridge (drumlins, fluting)
  - X ..... Bedrock Outcrop

- ## Aggregate Deposits
- ..... Mainly Gravel - more than 60% gravel\*
  - ..... Sand And Gravel - 40 to 60% gravel\*
  - ..... Mainly Sand - less than 40% gravel\*
- \*Gravel ≥ 2 mm in size

# MAP 7

## MINIOTA

62 K/3

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Prepared by:  
**MANITOBA**  
DEPARTMENT OF ENERGY & MINES  
MINERAL RESOURCES DIVISION.

Prepared by:  
**Gartner Lee Associates Limited**