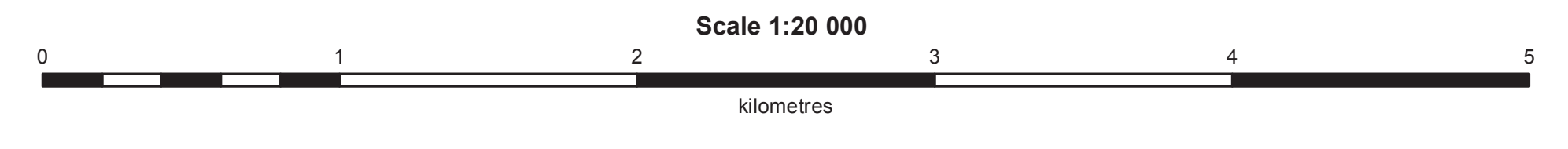


### Bedrock geology of the Natawahunan Lake area, central Manitoba (parts of NTS 63P11,14)



- Legend**
- Paleoproterozoic, post-D<sub>1</sub> rocks**
- 13 Carbonate rock: bands and pods ranging from 3 cm to 5 m wide; varying amounts of serpentinized olivine, phlogopite, diopside, and apatite
  - 10 Mafic-ultramafic dikes
  - 10a Diabase and gabbro; locally amphibolized
  - 92a Pyroxenite; locally diabasic margins
- Rocks of uncertain age**
- 9 Pegmatitic granite; sheared
  - 8 Granite; sheared
- Archean, post-D<sub>1</sub> rocks**
- 7 Pyroxenite; occurs as dikes up to 20 m wide
  - 6 Tonalite-trondhjemite-granodiorite suite
    - 6a Tonalite; contains >10% mafic minerals
    - 6b Trondhjemite; contains <5% mafic minerals
    - 6c Granodiorite; some occurrences could be metasomatized and retrogressed equivalents of subunits 6a and 6b
  - 5 Enderbite-epidolite; contains pseudomorphs of igneous orthopyroxene; commonly contains xenoliths of units 1 and 3
  - 4 Garnet-bearing monzogranite; commonly associated with unit 2

- Archean pre- to syn-D<sub>1</sub> rocks**
- 9 Gneissic tonalite-granodiorite; variably retrogressed; granodioritic compositions typically associated with retrogression
- 2 Sedimentary rocks**
- 2a Psammite; local beds of subunits 2b, 2c, and 2d; gradational into subunits 2b and 2c
  - 2b Husker; gradational into subunits 2a and 2d
  - 2c Quartzite; coarsely recrystallized; local lenses of fuchsite; local beds of subunit 2b; associated with subunit 2a
  - 2d Pelite; diatexite; typically interlayered with subunits 2a and 2b
  - 2e Calcicrite; massive diopside with local clinophibole- and spinel-bearing layers; associated with subunit 2c
- 1 Mafic volcanic and associated rocks**
- 1a Basaltic rocks; typically banded
  - 1b Felsic gneiss; discrete mafic laminations and garnet-bearing leucosome
  - 1c Iron formation; dominantly oxide-facies; locally gossanous
  - 1d Garnette

- Structural symbols**
- Foliation (generation 2)
  - Gneissosity (generation 1)
  - Shear zone (generation 3); sinistral
  - Shear zone (generation 3); dextral, sinistral
  - Mafic-ultramafic dike
  - L-fabric (generation 3)
  - Fold axis (generation unknown)
  - Fold axis (symmetric, generation unknown)
  - Fold axis (Z asymmetry, generation unknown)

- Symbols**
- Geological contact: approximate
  - Geological contact: underwater
  - Fault
  - Limit of mapping
  - Glossan
- Hydrothermal alteration**
- Paleoproterozoic**
- chloite + sericite + carbonate
- Archean**
- orthopyroxene + biotite + cordierite + garnet, sapphirine (interpreted as chlorite-sericite alteration)

**Geology by C.G. Couëslan**  
 Cartography by M.E. McFarlane

Recommended reference:  
 Couëslan, C.G. 2016. Bedrock geology of the Natawahunan Lake area, central Manitoba (parts of NTS 63P11,14). Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, Preliminary Map PMAP2016-2, scale 1:20 000

This map is a provisional summary of work carried out during the summer field season and is produced directly from the geospatial manuscript. It is not to be regarded as a final interpretation of the geology of the area.

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