

Preliminary Map PMAP2015-2  
 Bedrock geology of the southern and central Cauchon Lake area, central Manitoba (parts of NTS 63P7, 8)



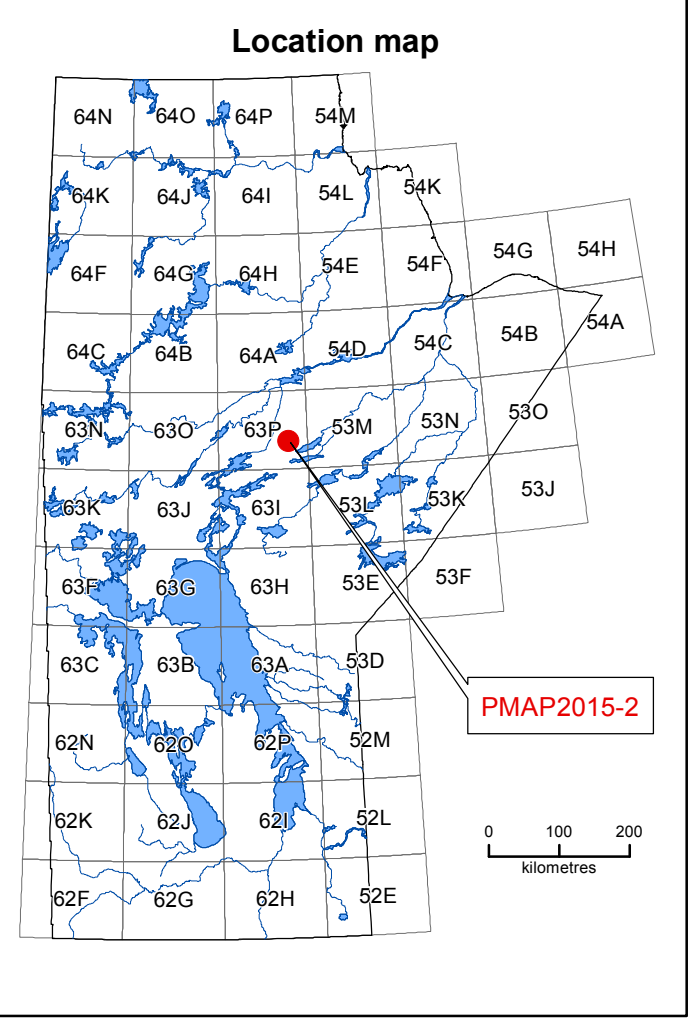
Legend

- Paleoproterozoic, post-D<sub>1</sub> rocks**
- 19 Gabbro; tentatively assigned to Malson swarm
- Archean, post-D<sub>1</sub> rocks**
- 16 Pegmatite; occurs as small intrusive bodies and dikes intruding all other Archean phases; there are likely various ages of pegmatite intrusions
  - 15 Monzogranite; coarse grained, locally contains xenoliths of units 1, 6, and 8; locally grades into granodiorite
  - 14 Granodiorite
  - 13 Trondhjemite; contains <5% mafic minerals
  - 12 Tonalite; equigranular to porphyritic
  - 11 Diorite; relatively homogeneous, occurs as small intrusions; locally grades into quartz diorite
- Archean pre- to syn-D<sub>1</sub> rocks**
- 10a Monzodiorite suite; possible S<sub>1</sub> gneissosity is rarely observed
    - a) Monzodiorite, locally K-feldspar porphyritic; locally grades into diorite and monzonite
    - b) Syenite-monzonite; K-feldspar porphyritic
  - 9 Gneissic trondhjemite; contains <5% mafic minerals
  - 8 Weakly gneissic tonalite; relatively homogeneous, locally grades into granodiorite
  - 7 Anorthosite; commonly megacrystic; locally grades into gabbro
  - 6 Strongly gneissic tonalite; locally grades into granodiorite. Metaly consists of intrusions of various ages
    - a) Mafic volcanic rocks, layered to limited, locally massive, locally gabbroic
    - b) Ultramafic volcanic rocks; clinopyroxene to gnomonophytic
    - c) Pyroxenite; coarse grained, occurs as small intrusions in unit 6
    - d) Plagioclase amphibolite; massive, locally hornblende porphyroclasts
  - 5 Pyroxenite; coarse grained, occurs as small intrusions in unit 6
  - 4 Chert; interlayered to interlaminated with semipelite/pebble; locally nodular
  - 3 Iron formation; sulphidic, dominantly silicate facies; occurs as discontinuous layers and lenses in units 1 and 2
  - 2 Psammite-semipelite; interbedded
    - a) Psammite dominated
    - b) Semipelite dominated
- Mafic volcanic rocks and related rocks**
- 10a Mafic volcanic rocks, layered to limited, locally massive, locally gabbroic
  - 10b Ultramafic volcanic rocks; clinopyroxene to gnomonophytic
  - 10c Pyroxenite; coarse grained, occurs as small intrusions in unit 6
  - 10d Plagioclase amphibolite; massive, locally hornblende porphyroclasts
- Units without colour do not appear on the map

Symbols

- Foliation; generation 1, 2, unknown
- Gneissosity; generation 1
- Foliation, mylonitic; generation 2, unknown
- Cleavage
- Fault plane; dextral, sinistral, unknown sense
- Shear zone; dextral-normal, reverse, sinistral, unknown sense
- Dike margin
- Fracture; unknown
- Fold hinge, minor S; generation 2
- Fold hinge, minor U; generation 1, 2, unknown
- Fold hinge, minor Z; generation 2, unknown
- Mineral lineation; generation 1, 2
- Roasting
- Stretching lineation
- Glacial grooves
- Glacial striae
- Contact; assumed, underwater
- Limit of mapping
- Shear zone

- Alteration**
- Quartz-pyrophyllite alteration
  - Pilowed flows
  - Gossan
  - Garnet-bearing siliceous rock
  - Chlorite-sericite alteration
  - Carbonate alteration
- Metamorphic isograds**
- Orthopyroxene-in for mafic volcanic rocks
  - Orthopyroxene-in for tonalitic rocks
  - Orthopyroxene- and clinopyroxene-in for felsic and mafic rocks



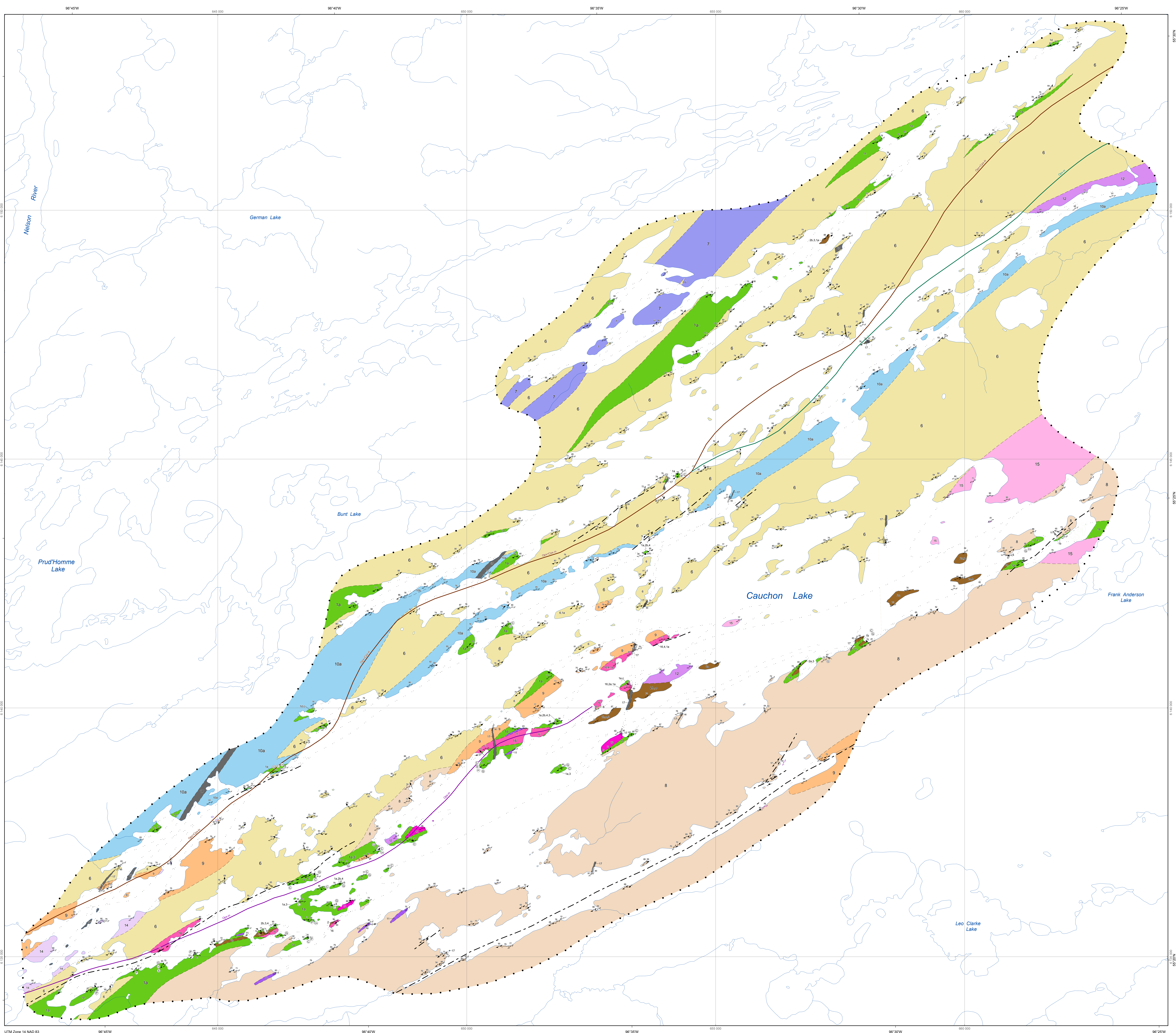
Scale: 1:20 000

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 Cartography by: M. Timcoe  
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This map is a provisional summary of work carried out during the summer field season and is produced directly from the geologist's manuscript; it is not to be regarded as a final interpretation of the geology of the area.

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**SUGGESTED REFERENCE:**  
 Couëslan, C.G. and Gunnars, V. 2015. Bedrock geology of the southern and central Cauchon Lake area, central Manitoba (parts of NTS 63P7, 8). Manitoba Mineral Resources, Manitoba Geological Survey, Preliminary Map PMAP2015-2, scale 1:20 000.



UTM Zone 14 NAD 83 96°45'W 96°40'W 96°35'W 96°30'W 96°25'W

50°20'N 50°15'N 50°10'N 50°05'N 50°00'N