

## Preliminary Map: PMAP2003-5

### Geology of the eastern Sharpe Lake area, Manitoba (NTS 53K5)

#### Legend

##### Felsic plutonic rocks

12 Graphic granite, pegmatite, aplite

11 Hornblende granodiorite: potassium feldspar megacrystic, beige to pale pink weathering, grey buff; weakly foliated; coarse grained

9 Biotite tonalite: leucocratic, white weathering, white; weakly foliated; medium grained

##### Cross Lake assemblage

8a Meta-arenite

8b Polymictic conglomerate; polymictic clast support; tonalite clast dominant

##### Oxford Lake assemblage

6a Feldspathic metagreywacke, biotite garnet bearing; sandstone with minor siltstone interbeds

6b Polymictic conglomerate; pebble, cobble bearing; matrix and clast support; volcanic derived felsic to intermediate composition, clasts dominant

##### Stull assemblage

5 Gabbro, diorite; includes post-Oxford Lake assemblage

4a Basalt: aphyric to sparsely plagioclase phryic; mafic tectonite; amphibolite

4b Basalt: pillow and massive flows; pale green to green weathering, green to grey; aphyric to sparsely plagioclase phryic

4c Basalt: pillow and massive flows; pale green to green weathering, green to grey; aphyric; variolitic, 2 to 5 mm spherical epizoned domains typically near margins of pillows

4d Mafic tectonite: pale green weathering, green to grey; derived chiefly from basalt and gabbro

##### Richardson Arm gneiss complex

3a Grandiorite gneiss: biotite bearing; beige to pink weathering, grey to pale pink; moderately to strongly foliated, weakly layered; contains variable percentages of units 1 and 2

3b Augen granodiorite gneiss: tectonized grandiorite gneiss (3a)

2a Hornblende tonalite: white to light grey weathering, light grey; weakly to moderately foliated; medium to coarse grained; forms the major injection in the tonalite gneisses

2b Hornblende tonalite gneiss: locally hornblende biotite bearing; white to light grey weathering, grey; moderately to strongly foliated; moderately to strongly layered; contains 5 to 50% xenoliths of unit 1

2c Schollen to stromatic hornblende tonalite gneiss: strongly foliated and parallel layered gneiss containing oriented, variably assimilated rafts of unit 1

1a Laminated amphibolite: grey to black weathering, dark grey to black; granoblastic to weakly foliated, compositionally layered

1b Mafic granulite: orthopyroxene and clinopyroxene bearing; granoblastic to weakly foliated, variably retrograded to garnet amphibolite

#### Symbols

- - - Geological contact

... ... Underwater contact

- - - Fault

• • • Limit of mapping

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Reef

#### Alteration

▲ chlorite

▼ chlorite, calcite

▲ epidote

■ sericite, ankerite

△ silification

#### Mineral occurrences

● pyrite, pyrrhotite

Veins

⚡ quartz vein

#### Layering

Bedding: top unknown

Pillow: top unknown

#### Foliation

generation unknown

generation 1

generation 2

generation 3 (retrograde shear fabric)

generation 4

generation 5

#### Gneissosity

generation unknown

generation 1

generation 2

generation 3

generation 4 (retrograde shear fabric)

generation 5 (fracture cleavage)

#### Faults and shears

Fault: generation unknown

Fault: dextral

Fault: sinistral

#### Shear: sense unknown

Shear: generation 1

#### Lineation

Stretching: generation unknown

Stretching: generation 1

Stretching: generation 2

Stretching: generation 3

Stretching: generation 4

Fold axis: generation unknown

Fold axis: generation 1

Fold axis: generation 2

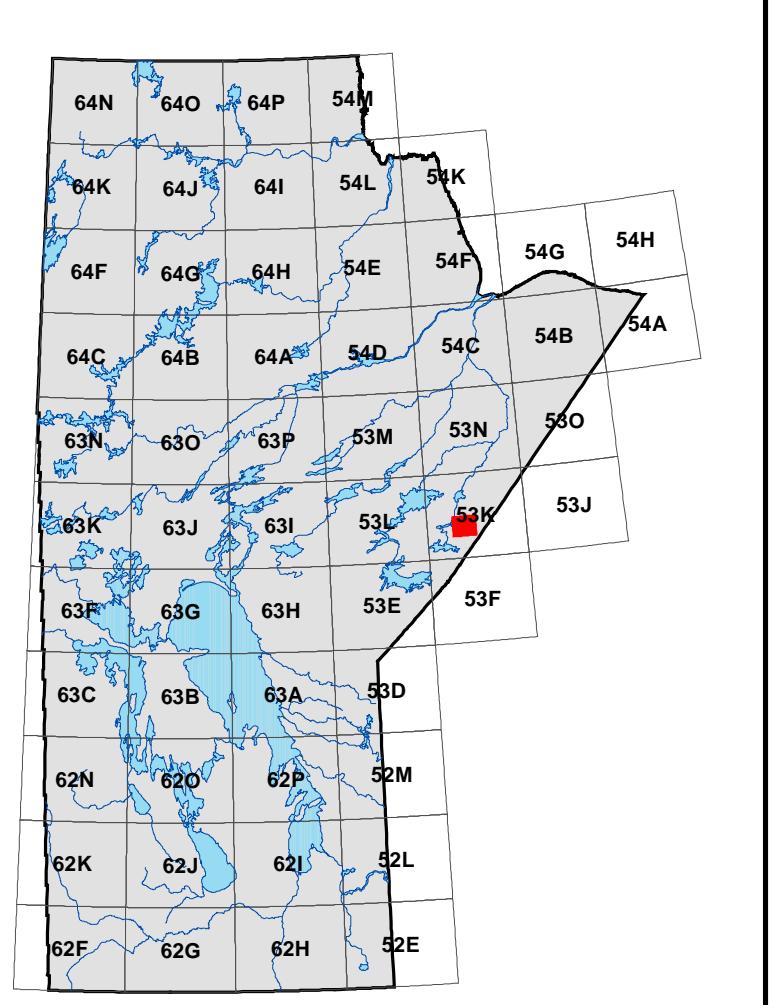
Fold axis: generation 3

Fold axis: generation 4

Intersection: generation 3

Intersection: generation 4

#### Index Map



0 1 2 3 4 5 kilometres