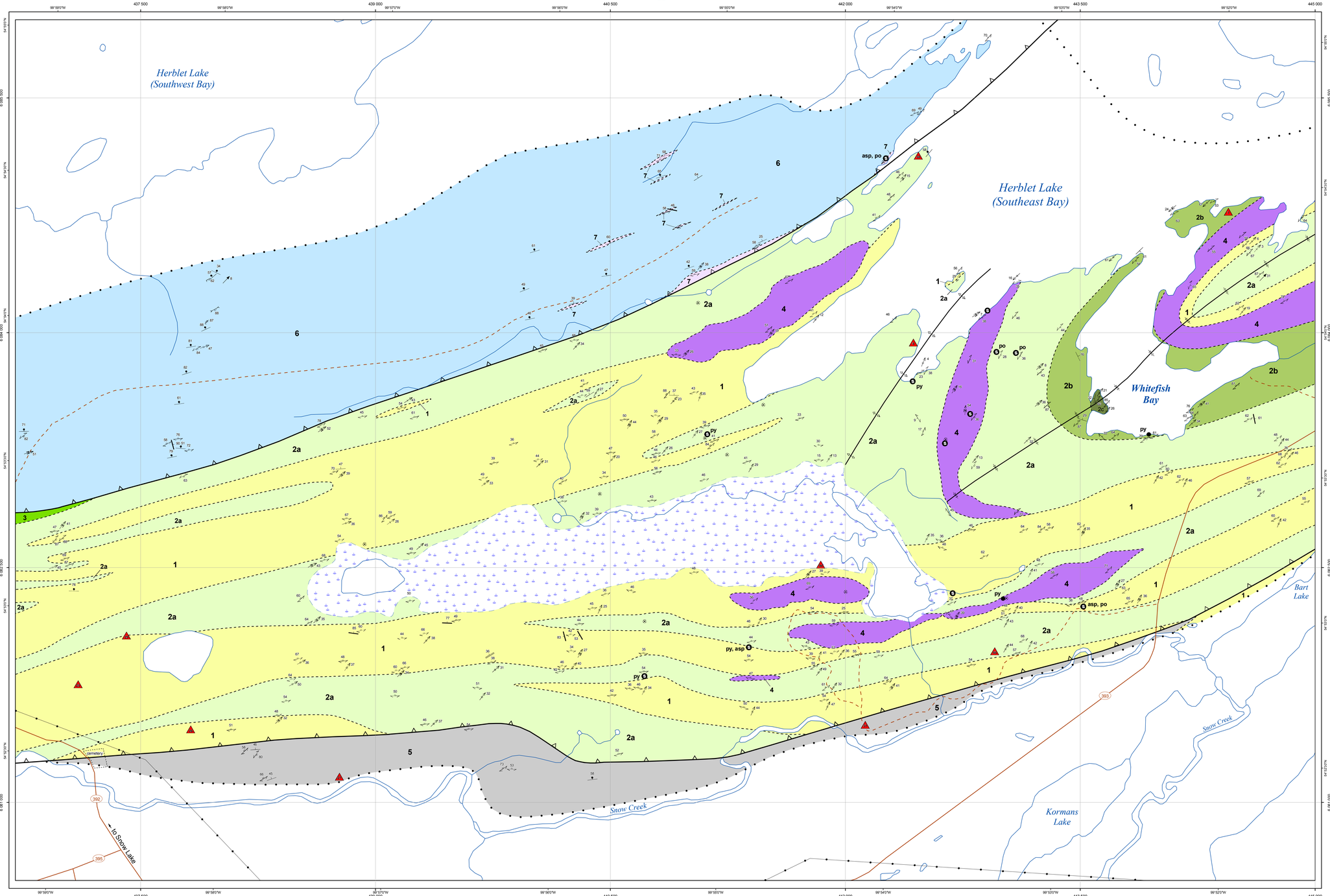
Geology of the McLeod Road–Birch Lake allochthon, Herblet Lake (Southeast Bay), Snow Lake area, Manitoba (part of NTS 63J13)



Legend

Post-Missi Group intrusive rocks

- **7** — Gabbro dikes and sills

Missi Group

- **6** — Arenite: trough crossbedded

Burntwood Group

- **5** — Greywacke: staurolite-garnet-biotite schist; garnet-staurolite-biotite schist

Amisk Group

- **4** — Gabbro: fine grained, equigranular; weakly foliated with granoblastic texture
- **3** — Mafic volcanic rocks: aphyric to plagioclase-phyric pillowed basalt; massive basalt
- **2c** — Felsic- and intermediate-dominated heterolithic volcanic conglomerate
- **2b** — Epiclastic volcanic sandstone: predominantly feldspathic volcanic sandstone; also contains pyroxene-phyric mafic tuff, heterolithic lapilli tuff and tuff breccia and heterolithic volcanic conglomerate
- **2a** — Mafic volcanic and volcaniclastic rocks: pyroxene- and plagioclase-pyroxene–phyric mafic tuff; monolithic to heterolithic lapilli tuff and tuff breccia; local pyroxene-phyric pillowed basalt and basalt flows; contains locally abundant pyroxenite dikes
- **1** — Felsic volcanic and volcaniclastic rocks: amygdaloidal dacite; aphyric to K-feldspar–phyric tuff; heterolithic lapilli tuff and tuff breccia; minor quartz-phyric lapilli tuff

Symbols

Planar structures

- Bedding: tops unknown, upright
- Foliation: generation 1, 2, 3
- Flow contact: top known
- Spaced cleavage: generation 3
- Shear zone: normal sense
- Shear: generation unknown
- Dike
- Vein
- Fold axial plane: generation unknown, 3
- Approximate contact
- F_2 antiform
- F_2 synform
- Thrust fault
- Limit of mapping
- Mineral occurence from Fedikow et al., 1993
- Station location
- Silicic alteration
- Mineralization
  - py pyrite
  - po pyrrhotite
  - asp arsenopyrite

Linear structures

- Fold axis: generation unknown
- Fold axis: generation unknown, Z symmetry
- Intersection lineation: generation 2
- L-fabric: generation 1, 2
- L-fabric: mineral lineation
- Road
- Trail
- Powerline
- Swamp

Geology by: S. Gagné

Includes compiled geology by Beaumont-Smith and Gagné 2008.

Cartography by: M.E. McFarlane

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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.

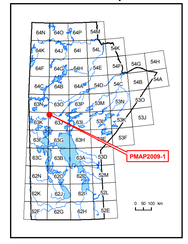
SUGGESTED REFERENCE:
Gagné, S. 2009: Geology of the McLeod Road–Birch Lake allochthon, Herblet Lake (Southeast Bay), Snow Lake area, Manitoba (part of NTS 63J13); Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2009-1, scale 1:10 000.

REFERENCES:

Beaumont-Smith, C.J. and Gagné, S. 2008: Structural geology of the Snow Lake–Squall Lake area, Manitoba (parts of NTS 63K16, 63J13); Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2008-1, scale 1:20 000.

Fedikow, M. A. F., Athayde, P. and Galley, A. G. 1993: Mineral deposits and occurrences in the Wekusko Lake area, NTS 63J13; Manitoba Energy and Mines, Geological Services, Mineral Deposit Series Report No. 14, 460 p.

Index map



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UTM Zone 14, NAD83

500 250 0 500 1 000 metres

1:10 000

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