

Legend

Paleoproterozoic

Tectonite: mafic to felsic in composition

Late intrusive suite

8 Quartz-feldspar porphyry, feldspar porphyry and pegmatite/aplite

Post-Sickle intrusive suite

Quartz diorite, tonalite and granodiorite (1847 to 1829 Ma^(1, 2))

Sickle group

Sedimentary rocks: arkosic sandstone and polymictic conglomerate (1836 ±16 to ca. 1860 Ma^(3, 4))

Arkosic sandstone, quartz pebbly sandstone

Polymictic conglomerate with minor pebbly

Pre-Sickle intrusive rocks

Quartz diorite, tonalite, granodiorite, granite (1891 ± 1 to ca. 1870 Ma^(1, 3, 5)) and associated pegmatic and aplitic dikes

4 Gabbro and minor diorite

Wasekwan group

Sedimentary rocks intercalated with minor volcanic sedimentary rocks

3a Argillite, siltstone and greywacke

Mafic to intermediate tuffaceous sandstone to tuff

3c Volcanic mudstone, siltstone, volcanic sandstone and minor volcanic conglomerate

Mafic to intermediate volcanic rocks, and synvolcanic intrusive rocks

2a Diabase and gabbro

2b Porphyritic basaltic andesite

Plagioclase-phyric basalt and aphyric basalt

Pillow basalt

Volcaniclastic rocks with minor volcanic rocks and volcanic sedimentary rocks

1a Felsic (1891 ±2 Ma⁽¹⁾) to intermediate volcanic and volcaniclastic rocks

Intermediate tuff breccia, lapillistone, lapilli tuff and tuff

Mafic lapillistone, lapilli tuff, tuff, amphibolite, minor mafic mudstone and derivative garnet-biotite schist

Mafic tuff breccia and volcanic breccia

(1) Beaumont-Smith and Böhm, 2003; (2) Turek et al., 2000; (3) Lawley et al., 2020; (4) Beaumont-Smith et al., 2006; (5) Baldwin et al., 1987. Note: prefix 'meta-' is omitted in sedimentary rocks for brevity (e.g., meta-greywacke simply as greywacke).

Fault/shear zones

DLSZ Dunphy Lake shear zone **MLF** Mukasew Lake fault

Snake Lake fault

Mineral deposit/occurrence BAG

Not named

Fox mine

North Fox

GAL

Pumphouse shear zone

Boundaries

..... Contact, underwater ---- Fault or shear zone • • • Outline of tailings

Structural symbols

Bedding: facing known, overturned, facing unknown

Fault plane: dextral, normal Fold axial plane, generation unknown

Fold axis, generation unknown: S-shaped, symmetric, shape unknown $\uparrow \uparrow \uparrow \uparrow \uparrow$ Foliation: generation 1, 2, 3, 4, unknown

Gneissosity, generation unknown

Igneous layering, facing unknown Mineral lineation

Pillow, overturned

Spaced cleavage, unknown generation

Mineral deposit or occurrence

Power line

Preliminary Map PMAP2022-2

Bedrock geology of the Fox mine-Snake Lake area, Lynn Lake greenstone belt, northwestern Manitoba (part of NTS 64C12)

Geology by X.M. Yang (2022)

Cartography by H.O. Adediran

Suggested reference:

Yang, X.M. 2022: Bedrock geology of the Fox mine–Snake Lake area, Lynn Lake greenstone belt, northwestern Manitoba (part of NTS 64C12); Manitoba Natural Resources and Northern Development, Manitoba Geological Survey, Preliminary Map PMAP2022-2, scale 1:10 000. 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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00gs-18.pdf> [November 2022]. Published by:

URL https://doi.org/10.1139/e87-101.

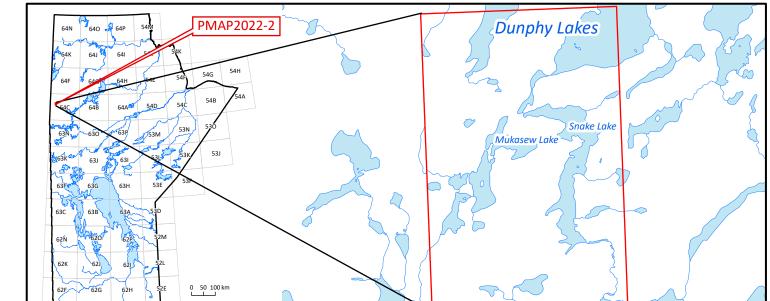
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Winnipeg, MB R3G 3P2 Canada **Location Map**



UTM Zone 14, NAD83

Project Number: MGS2015_005

Scale 1:10 000

kilometres