



**Legend**

- 7 Aplitic granite; not resolvable at this scale
- 6 Porphyritic granite: contains tabular K-feldspar phenocrysts
- 5 Pegmatitic granite: typically containing biotite, garnet and cordierite; derived from partial melting of Burntwood group
- 4 Syenite: heterogeneous; predominantly clinopyroxene-bearing
- 3 Tonalite; biotite-bearing orthopyroxene-garnet
- 2 Quartz diorite: possible Touchbourne suite, orthopyroxene-bearing
- 1 Burntwood group: migmatite derived from psammitic and pelitic wacke

**Structural symbols**

- Carbonatite, predominantly calcite carbonatite: boulders
- Carbonatite, predominantly calcite carbonatite: in situ
- Bedding
- Igneous layering
- Carbonatite dike
- Carbonate vein
- Gneissosity, generation 1
- Foliation, generation 2
- Foliation, generation 2, mylonitic
- Shear band, generation 3, dextral
- Shear zone, generation 3: dextral, sinistral, sinistral-normal
- Rodding, generation 2
- Fold hinge, generation 2: minor S, minor U, minor Z
- Stretching lineation, generation 3

**Boundaries**

- Approximate contact
- Underwater contact
- Shear zone

**Preliminary Map PMAP2024-1**

**Bedrock geology of the northwestern Burntwood Lake area, west-central Manitoba (part of NTS 63N7)**

Geology by C.G. Couëslan

Cartography/GIS by H.O. Adediran

**Suggested reference:**  
Couëslan, C.G. 2024: Bedrock geology of the northwestern Burntwood Lake area, west-central Manitoba (part of NTS 63N7); Manitoba Economic Development, Investment, Trade and Natural Resources, Preliminary Map PMAP2024-1, 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.

**References:**  
Baldwin, D.A., Frohlinger, T.G., Kendrick, G., McRitchie, W.D. and Zwanzig, H.V. 1979: Geology of the Nelson House-Pukatawagan Region (Burntwood Project); Manitoba Department of Mines, Natural Resources and Environment, Mineral Resources Division, Geological Maps 78-3-7, 78-3-10 and 78-3-11, scale 1:50 000.  
McRitchie, W.D. 1987: Burntwood Lake syenite; in Report of Field Activities 1987, Manitoba Energy and Mines, Minerals Division, p. 65-69.

**Published by:**  
Manitoba Economic Development, Investment, Trade and Natural Resources, Manitoba Geological Survey, 2024

ISBN: 978-0-7711-1654-4

Copies of this map can be obtained from:  
Manitoba Economic Development, Investment, Trade and Natural Resources Phone: 204-945-6569  
Manitoba Geological Survey, Publication Sales Toll free: 1-800-223-5215  
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**Location Map**

