



Legend	
late intrusive rocks	MV2 Andesite, feldspar-crystal-rich lapilli tuff
L2 Quartz-feldspar-phryic granodiorite	MV1 Dacite, weakly feldspar porphyritic
C1 Diorite to gabbro, dike	Western Mississippian fault block
Successor-arc intrusive rocks	WM2b Folio-granitic arenite, tabular to trough crossbedded with minor conglomerate layers
P1b Granodiorite (Stuart Lake)	WM2a Heterolithic pebbly conglomerate and sandstone interbedded with intermediate to felsic volcanic rocks
P1a Granite (Monette Lake)	WM1 Massive to flow-banded, spherulitic rhodacite and rhyolite
P5 Quartz diorite (Stuart Lake)	EM3 Folio-granitic arenite to feldspathic greywacke, locally contains subrounded mafic lithic clasts
G1 Gabbro	EM2 Folio-granitic arenite, trough crossbedded
Successor-arc deposits	EM1 Heterolithic conglomerate, polymictic
Herb Lake fault block	Central Wekusko fault block
MV1 Hypabyssal/synvolcanic rhyolite, quartz-feldspar porphyritic	greywacke and mudstone, thin- to thick-bedded turbidites
MV2 Basalt, massive aphyric with local mafic lapilli tuff	McCauley Ulfen fault block
MV3 Rhyolite, massive amygdaloidal; minor bedded mafic conglomerate near top of unit	S4b Dacite and/or rhodacite, massive, feldspar porphyritic (1876 ± 2 Ma; Ansell et al., 1999)
MV4 Dacite, massive with local beds of fine ash tuff	S4d Heterolithic volcanic conglomerate with feldspar-phryic andesite and scoria-rich clasts in dacite matrix
MV5 Basalt, massive amygdaloidal near flow tops	S3 Andesite, feldspar-crystal-rich turbidite
MV6 Volcanic feldspar sandstone, thin to thick bedded, locally contains pebbly conglomerate and rhyolite tuff	S2 Andesite, massive, locally amygdaloidal, possibly intrusive (underwater)
MV7 Andesite, feldspar-phryic tuff breccia to volcanic agglomerate	S1 Andesite, plagioclase-phryic cobble and boulder conglomerate, clast-supported, minor tuff breccia
MV8 Andesite, pyroxene porphyritic, massive to thick-bedded volcanic conglomerate	Magmatic rocks of probable ocean-floor/back-arc affinity
MV9 Dacite, medium- to thick-bedded monolithic lapilli-stone/volcanic conglomerate	E1 Basalt, plagioclase- and pyroxene-phryic flows and pillows
MV10 Dacite, massive monolithic lapilli-stone	Volcaniclastic rocks of uncertain age
	U1 Dacite, conglomerate (with minor andesite)

Symbols	
Fold axial plane: generation 2, unknown	20 Quartz vein
Fault, contact, approximate	--- Fault, dextral, approximate
Mineral lineation	- - - Fault, minor, approximate
Stretching lineation	— Fault, sense unknown, generation 2
Cleavage: generation 2, 3, 4	△ Crenulation cleavage, sense unknown, generation 2
Foliation: generation 2, 3, 4	▲ Anticline, generation 2, defined
Spaced cleavage: generation 2, 3, 4	▼ Syncline, generation 2, defined
Clast lineation	— Trail
Joint, dip known	Quartz vein index (Stockwell, 1937)
Bedding: facing known, unknown, overturned	Gold Dust: 20
Dike, dip known	Lieruy: 21
Igneous layering, facing unknown	Orcadian: 22
Pillow: facing known, overturned	Wizard: 23
Vein, dip unknown	Le Blanc: 24
Shear band, dextral, generation 3	Elizabeth-Dauphin: 28, 29
Shear band, sense unknown	LeRoy: 30, 31
Shear band, sinistral: generation 3, 4	Bingo: 32
Stations	Rex Group: 33
	Moose Horn: 34
	Ballast: 35
	Kiski-Wekusko: 36, 37, 38, 39

Preliminary Map PMAP2021-1

Bedrock geology of the Stuart Bay–Chickadee Lake area (east of Wekusko Lake), north-central Manitoba (parts of NTS 63J12, 13)

Geology by K.D. Reid (2021)
Cartography/GIS by A. Santucci

Suggested reference:
Reid, K.D. 2021: Bedrock geology of the Stuart Bay–Chickadee Lake area (east of Wekusko Lake), north-central Manitoba (parts of NTS 63J12, 13). Manitoba Agriculture and Resource Development, Manitoba Geological Survey, Preliminary Map PMAP2021-1, scale 1:15 000.

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:
Ansell, K.M., Connors, K.A., Stern, R.A. and Lucas, S.B. 1999: Coeval sedimentation, magmatism, and fold-thrust domain development in the Trans-Hudson orogen: geochronological evidence from the Wekusko Lake area, Manitoba, Canada. Canadian Journal of Earth Sciences, 36, p. 393–412.
Gilbert, J.P. and Bailes, A.H. 2005: Geology of the southern Wekusko Lake area, Manitoba (NTS 63J12NW). Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Geoscience Map MAP2005-2, scale 1:20 000, URL <<https://www.manitoba.ca/eim/info/lib/min/MAP2005-2.pdf>> [October 2021].
Stockwell, C.H. 1937: Gold deposits of Herb Lake area, northern Manitoba; Geological Survey of Canada, Memoir 208, 46 p., URL <<https://doi.org/10.4095/101640>>.

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