

Table 1: Summary of previous and current informal stratigraphic subdivisions and nomenclature proposed for the Flin Flon area.

Current Study		Stockwell (1960)	Bailes and Syme (1989)	Thomas (1989)	Thomas (1994)	HBED, Price (1997, pers. comm., 2002)	Devine (2003)	TGI-1 working group (Ames et al., 2002)	TGI-1 working group (Galley et al., 2002)	DeWolfe and Gibson (2004, 2005)	Bailey (2006)	DeWolfe and Gibson (2006) DeWolfe (2008)	MacLachlan (2006a, b, c)	MacLachlan and Devine (2007)	Simard et al. (2009)						
Sask. and Man.		Sask. and Man.	Man.	Sask.	Sask.	Sask. and Man.	Sask.	Sask.	Man.	Sask. and Man.	Man.	Sask.	Man.	Man.	Sask.	Sask.	Sask.	Man.			
Hangingwall	Douglas fm.	Porphyritic andesite		Douglas Lake assemblage								Douglas fm.			Douglas fm.	Douglas fm.	Douglas fm.				
	undivided	Porphyritic andesitic breccia (unit 4), aphyric to sparsely phyric basalt and flow breccia (unit 1)	Burley Lake basaltic andesite			Hangingwall fm.	Louis fm.	Louis fm.		Louis fm.		Louis fm.	Louis fm. (undivided flows)				Louis fm. (undivided flows)				
	Louis fm. ¹	Icehouse mb.											Louis fm.	Louis fm. (Icehouse mb.)	Louis fm.	Louis fm. (Tower mb.)		Louis fm. (Icehouse mb.)			
	Tower mb.	Rhyolite (unit 6), bedded tuff and breccia (unit 7)					Hidden fm. (Tower mb.)	Hidden fm. (Tower mb.)	Hidden fm. (Tower mb.)		Hidden fm. (Tower mb.)		Hidden fm. (Tower mb.)	Louis fm. (Tower mb.)			Louis fm. (Tower mb.)				
	Carlisle Lake mb.	Aphyric to sparsely phyric basalt and flow breccia (unit 1), porphyritic andesitic breccia (unit 4)			Hidden Lake basalt, Burley Lake basaltic andesite					Hidden-Burley suite						Hidden fm. (Carlisle mb.)					
	Hidden fm. ²	Stockwell mb.	Porphyritic andesite (unit 2)		Hidden Lake basalt, rhyolite clast-bearing debris flows		Hidden Lake basalt	Hidden Lake fm., Hangingwall fm.	Hidden fm. (Newcor mb.)	Bomber fm., Newcor fm.	Hidden fm.		Hidden fm. (Newcor mb.)	Hidden fm. (Newcor mb.)	Hidden fm. (Newcor mb.)				Hidden fm. (Stockwell mb.)		
	Reservoir mb.	Aphyric to sparsely phyric basalt and flow breccia (unit 1), porphyritic andesite (unit 2)			Beaver Road assemblage (Bomber Lake and Newcor members)			Hidden fm. (Bomber mb.)				Hidden fm. (Bomber mb.)	Hidden fm. (Bomber mb./ Newcor mb.)	Hidden fm. (Bomber mb.)	Hidden fm. (Bomber mb.)	Unassigned volcanic rocks	Newcor fm.	Hidden fm. (Reservoir mb.)	Hidden fm. (Reservoir mb.)	Hidden fm. (Reservoir mb.)	
	1920 mb.	Porphyritic andesite (unit 2)	Hidden Lake basalt				1920 fm.		Hidden fm. (1920 mb.)		Hidden fm. (1920 mb.)		Hidden fm. (1920 mb.)	Hidden fm. (1920 unit)		(Myo mb.)			Hidden fm. (1920 unit)		
	Millrock mb.	Andesite breccia (unit 3)	Railway volcaniclastic rocks, South Main rhyolite domes, Mine rhyolite, South Main basalt, South Main pillow fragment breccia		Beaver Road assemblage (Creighton and Myo Lake members)	Millrock volcanic breccia, Callinan porphyry, Footwall volcaniclastic rocks	Mine Package fm., Tailings fm.	Flin Flon fm. (Millrock mb.)		Flin Flon fm. (Millrock mb.)	Mine sequence		Flin Flon fm. (Myo mb.)	Flin Flon fm. (Millrock mb./ Creighton mb.)		Flin Flon fm. (Millrock mb.)		Hilary fm. (Key mb.)	Flin Flon fm. (Millrock mb.)	Flin Flon fm. (Millrock mb.)	Flin Flon fm. (Millrock mb.)
	Footwall	Blue Lagoon mb.	Porphyritic andesitic breccia (unit 4)		Mafic crystal-lapilli tuff, South Main pillow fragment breccia		Footwall volcaniclastic rocks	Footwall fm.	Creighton fm.	Flin Flon fm. (Creighton mb.)			Beaver Road suite		Flin Flon fm. (Blue Lagoon mb.)	Flin Flon fm. (Blue Lagoon mb.)		Flin Flon fm. (Blue Lagoon mb.)		Flin Flon fm. (Blue Lagoon mb.)	Flin Flon fm. (Blue Lagoon mb.)
Club mb.		Aphyric to sparsely phyric basalt and flow breccia (unit 1)			Club Lake felsic eruptive unit	Club Lake fm.	Flin Flon fm. (Club mb.)					Flin Flon fm. (Club mb.)	Flin Flon fm. (Club mb.)		Flin Flon fm. (Club mb.)		Flin Flon fm. (Club mb.)	Flin Flon fm. (Club mb.)			
Undifferentiated volcanic rocks							Undifferentiated volcanic rocks						Undifferentiated volcanic rocks								

Abbreviations: HBED, Hudson Bay Exploration and Development Co. Ltd.; Man., Manitoba; Sask., Saskatchewan

¹ from DeWolfe 2008

² modified from DeWolfe 2008

³ modified by Gibson et al., 2009 from Devine 2003

Current Study	Stockwell (1960)	Bailes and Syme (1989)	Simard (2006)	HBED, Gilmore (pers. comm., 2007)	Simard et al. (2007)	Simard et al. (2009)
Channing–Mandy Road Fault	Porphyritic andesitic breccia (unit 4), andesite breccia (unit 3), aphyric to sparsely phyric basalt and flow breccia (unit 1), quartz porphyry (unit 7)	Mafic flows and related breccia, rhyolite	Unassigned volcanic rocks		Western sequence, undivided volcanic rocks	Undivided volcanic rocks
Cliff Lake Fault	Aphyric to sparsely phyric basalt and flow breccia (unit 1), porphyritic andesitic breccia (unit 4), porphyritic andesite (unit 2)	Hook Lake Block		Flin Flon–like' rocks	Western sequence	Western Hook sequence
Western Hook Lake succession		Basalt, basaltic andesite (units 7–11), gabbro (unit 42), leucotonalite (unit 42), heterolithic breccia (unit 29), felsic intrusions (unit 49)		Trout Lake–like' rocks	Eastern sequence	Eastern Hook sequence