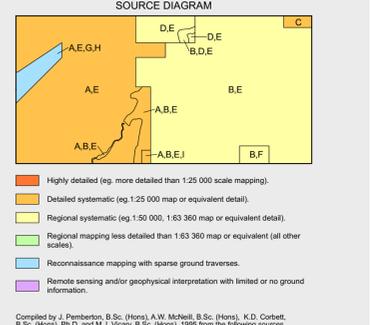


PERIOD	UNIT	DESCRIPTION		
CEANOZOIC	QUATERNARY	Qhm	Undifferentiated Quaternary sediments (Q). Cultural features - mine tailings, dams (Qhm).	
		Qha	Alluvial gravel, sand and clay (Qa). Alluvium, swamp and marsh deposits (Qha).	
		Qdt	Talus and scree deposits (Qdt).	
		Qpss	Glacial deposits, usually bouldery (Qpss).	
		Qpgr	Mostly moraine deposits (Qpgr).	
	PALEOGENE - NEOGENE	Tb	Basalt with minor associated sediments in places (Tb).	
		SDac	Siltstone-correlate of Austral Creek Siltstone (SDac).	
			Quartzite-correlate of Keel Quartzite (SDak).	
		SDaa	Siltstone and shale - correlate of Amber State (SDaa).	
		SDc	Quartzite and sandstone-correlate of Croty Quartzite (SDc).	
PALEOZOIC	ORDOVICIAN	Di	Limestone with minor siltstone and sandstone (Di).	
		CAMBRIAN	COsu	Undifferentiated shallow marine - non-marine siliciclastic conglomerate sandstone sequence - Owen Group / Doreen Group and correlatives (CO).
	COsu		Quartz sandstone, pink to grey, typically cross-bedded to thin-bedded, with minor siltstone, conglomerate and calcareous sandstone (COsu). Underlies retiliated upper Owen Sandstone and correlatives. Upper unit of sandstone and gravel-pebble conglomerate with subordinate siltstone. Clasts of chert common (COsu). Units of coarser pebble-conglomerate (COsu).	
	COsm		Pebble-cobble to cobble-boulder conglomerate, thick-bedded to massive, with minor siltstone lenses. Middle Owen Conglomerate and correlatives (COsm).	
	COsm	Units of predominantly sandstone (COsm).		
	CAMBRIAN	COsm	Volcaniclastic conglomerate, breccia and sandstone, usually at base of sequence. Includes correlate of Jukes Conglomerate (COsm).	
		CAMBRIAN SERIES 3	Cdv	Dominantly feldspar-phyric volcanic and volcaniclastic rocks (Cdv).
			Cdvp	Quartz-feldspar ± biotite porphyry bodies, mostly intrusive but may be partly extrusive (Cdvp).
			Cdvp	Mainly felsic volcaniclastic and pyroclastic rocks, including pumice-bearing units (Cdvp).
			Cdvp	Pumice-bearing volcaniclastic rocks, usually with eutaxitic texture (Cdvp).

CAMBRIAN SERIES 3	Cdvt	Volcaniclastic sandstone and breccia, with interbedded siltstone, mudstone and minor conglomerate (Cdvt) (Cdvt - correlate of Tyndal Group).	
	Cdvt	Volcano-sedimentary sequence of shale, siltstone, volcaniclastic sandstone and breccia, siliciclastic sandstone and minor felsic (Cdvt).	
	Cdvt	Dominantly grey-black shale and slate with some interbedded sandstone (Cdvt).	
	Cdvt	Dominantly volcaniclastic sandstone with interbedded mudstone and breccia (Cdvt).	
	Cdvt	Felsic lava, typically feldspar ± quartz-phyric (Cdvt).	
	CAMBRIAN SERIES 2	Cdvt	Interbedded volcaniclastic breccia, sandstone, siltstone and mudstone, with minor felsic lava and intrusive-extrusive porphyry bodies (Cdvt).
		Cdvt	Dominantly volcaniclastic sandstone and mass-flow breccia, typically quartz-feldspar-phyric (Cdvt).
		Cdvt	Interbedded sandstone and siltstone (Cdvt).
		Cdvt	Quartz-feldspar ± biotite porphyry, mainly intrusive but may be partly extrusive (Cdvt).
		Cdvt	Mainly dacitic lava and breccia, typically feldspar-quartz-phyric (Cdvt).
CAMBRIAN SERIES 1	Cda	Andesitic lava and breccia (Holway Andesite) (Cda).	
	Cda	Dominantly andesitic volcanics (Cda).	
	Cda	Dominantly basaltic volcanics ('Lower basalt') (Cda).	
	Cda	Mafic quartzwacke with interbedded siltstone and black shale and minor volcaniclastic rocks (Amal Creek Greywacke and correlatives) (Cda).	
	Cda	Interbedded tuffaceous sandstone, vitric mudstone, minor volcaniclastic breccia (Black Harry Beds) (Cda).	
	CAMBRIAN SERIES 0	Cdv	Dominantly feldspar-phyric volcanic and volcaniclastic rocks (Cdv).
		Cdvp	Quartz-feldspar ± biotite porphyry bodies, mostly intrusive but may be partly extrusive (Cdvp).
		Cdvt	Mainly felsic volcaniclastic and pyroclastic rocks, including pumice-bearing units (Cdvt).
		Cdvt	Pumice-bearing volcaniclastic rocks, usually with eutaxitic texture (Cdvt).
		Cdvt	Block and ash flow breccia units, with lithic clasts and pumice fragments (Cdvt).

PERIOD	UNIT	DESCRIPTION	
MESOPROTEROZOIC	DEVONIAN	Ptp	Metamorphic rocks, dominantly metagranite and metapelite (Pt). Dominantly phyllite (Ptp).
		Pt	Dominantly quartzite (Pt).
	CAMBRIAN	Dgsp	Medium- to coarse-grained, porphyritic (K-feldspar) to equigranular, biotite-muscovite-bearing alkali feldspar (Granite for Granite, S-type) (Dgsp).
		Cdtp	Quartz-feldspar ± biotite porphyry, mainly intrusive (Cdtp).
		Cdtp	Quartz-feldspar-biotite ± hornblende porphyry (Cdtp).
		Cdts	Feldspar-quartz porphyry, typically with spherulitic ground mass (Cdts).
		Cdcb	Basaltic dykes, typically chlorite-altered (Cdcb).
	CAMBRIAN	Cg	Gabbro (Cg).
		Cdm	Dolerite associated with Que-Holway Volcanics (Cdm).
		Cd	Dolerite (Cd).

SYMBOL	DESCRIPTION
—	Geological contact
- - -	Geological contact - inferred
---	Limit of mapping of sub-unit within undifferentiated rock unit.
---	Fault
- - -	Fault - inferred
---	Fault - concealed
---	Linear surface trace of major synform



Compiled by J. Pemberton, B.Sc. (Hons), A.W. McNeill, B.Sc. (Hons), K.D. Corbett, B.Sc. (Hons), Ph.D. and M.J. Vicary, B.Sc. (Hons), 1995 from the following sources (see source diagram):

A. CORBETT, K.D. and McNEILL, A.W., 1986. Geology of the Rosebery-Mt Black area. Mt Read Volcanics Project Map 2. Department of Mines, Tasmania.

B. BARTON, C.M., et al., 1986. Geological Atlas 1:63 360 Series Sheet 14 (81/14), Mackintosh. Department of Mines, Tasmania.

C. VICARY, M.J. and PEMBERTON, J., 1988. Geology of the Back Peak-Cradle Mountain Link Road area. Mt Read Volcanics Project Map 7. Department of Mines, Tasmania.

D. RICHARDSON, S.M., 1994. Exploration Licence 10687 Lake Mackintosh Tasmania. Progress report for the period April 1993 to February 1994. Abergyle Resources Ltd. TCR 94-3537.

Updated by:

E. K.D. Corbett, 2003. Revised and updated after WTRMP studies.

F. McLENNAN, M.P., 2003. Ground truthing of Western Tasmania Regional Minerals Program geophysical data in the Granite for Granite area. Tasmanian Geological Survey Record 2003/10. Mineral Resources Tasmania.

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REFERENCE THIS MAP AS:  
PEMBERTON, J., McNEILL, A.W., CORBETT, K.D. and VICARY, M.J. (compilers) 1995. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3838 Block, Mineral Resources Tasmania.

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Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GD494 - MGA Zone 55. Contour Interval: 20 metres.

