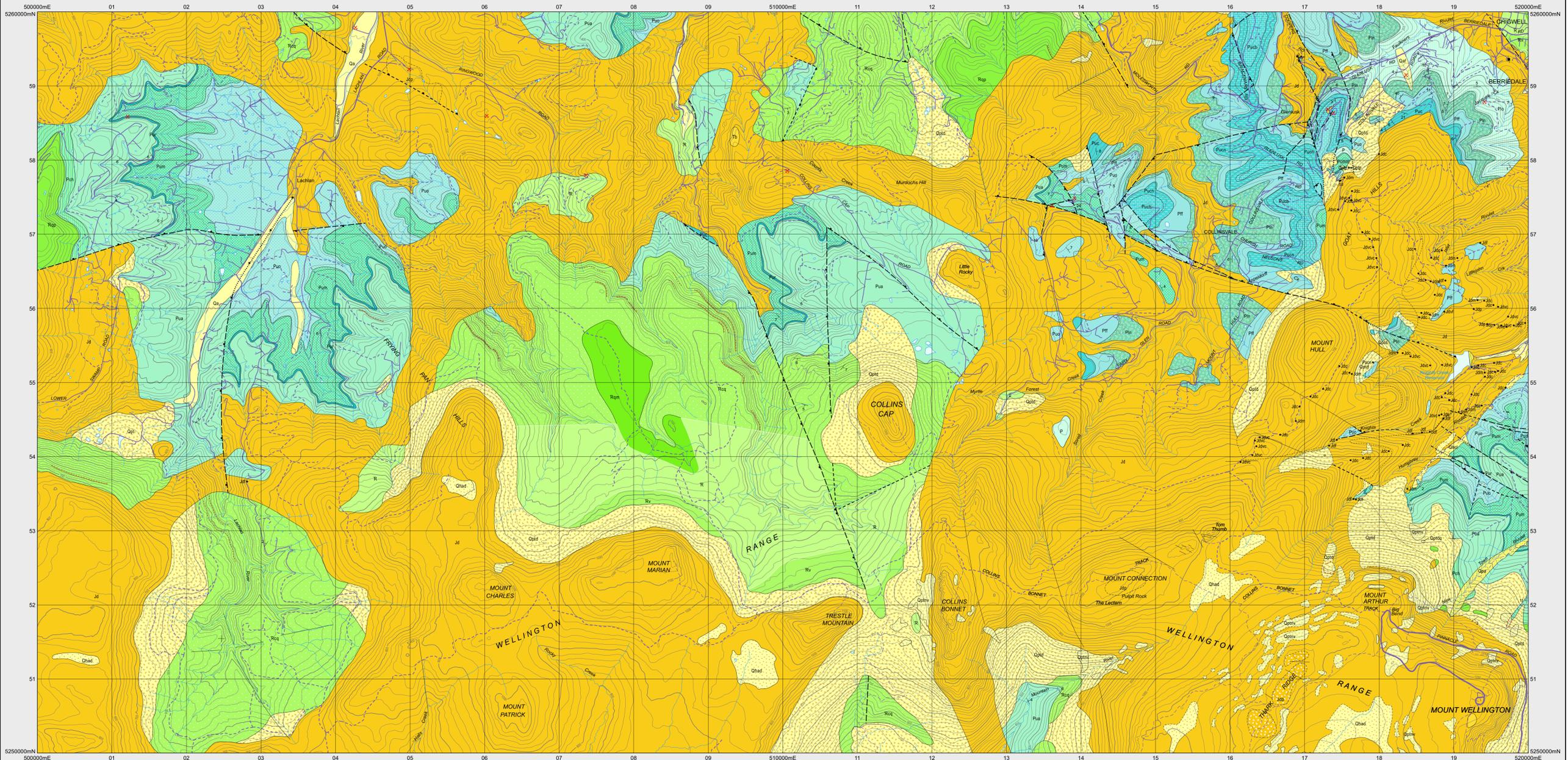


# COLLINSVALE

Scale 1:25 000



CENOZOIC	QUATERNARY	
	Qhmm	Undifferentiated Quaternary sediments (Q). Man-made deposits including refuse areas and landfill (Qhmm).
Qhad	Highland marsh deposits with some dolerite boulders and outcrops (Qhad).	
Qhag	Colluvium of clayey gravel, partly consolidated in places, derived from Lower Permian Supergroup rocks (Qhag).	
Qhag	Alluvial gravel deposits (Qhag).	
Qa	Alluvial gravel, sand and clay (Qa); alluvial fans (Qaf).	
Qad	Older Alluvium of river terraces, predominantly dolerite derived (Qad).	
Qpa	Deeply dissected alluvial fan, proximal alluvial terrace and minor talus deposits containing boulders of weathered dolerite and Permian-derived rocks in places (Qpa).	
Qptv	Periglacial non-vegetated scree deposits (Qptv).	
Qpt	Talus (Qpt); talus dominantly of dolerite boulders (Qpdt); of dolerite with subordinate Lower Permian rocks (Qpdt); talus of dolerite with notable amounts of Upper Permian quartzite sandstone (Qpdt).	
Tb	Basalt (Tb).	
Tcbs	Poorly sorted boulder to pebble grade deposits, clasts dominantly of Upper Permian sandstone with locally derived clasts of dolerite and Lower Permian rocks in some areas; clayey or sandy matrix (Tcbs).	
Erosional surface.		

MESOZOIC	TRIASIC	
	Rv	Undifferentiated Permian Supergroup rocks (PR); undifferentiated Upper Permian Supergroup rocks (R). Undifferentiated volcanoclastic, quartz-rich lithic and quartzose sandstone, siltstone, mudstone, carbonaceous beds and coal seams (Rv). Interbedded cross-bedded white quartzite sandstone, quartz-rich lithic sandstone, siltstone and mudstone (Newson Coal Measures in part) (Rv).
Rqm	Interbedded micaceous brown, red-purple, green and grey carbonaceous siltstone, shale, mudstone and silty-sandstone, ripple-laminated or cross-bedded sandstone (Rqm).	
Rap	Freshwater, predominantly cross-bedded, quartzite to feldspathic sandstone, commonly with overturned cross-bedding, and subordinate micaceous siltstone and Knokkloofy Formation (Rap).	
Pch	Freshwater, predominantly cross-bedded feldspathic sandstone and micaceous siltstone, minor thin beds of quartz-pebble conglomerate; upper interval less feldspathic (concretite of Cynnet Coal Measures) (Pch). Toc = Rap + Pch	
Pua	Undifferentiated Permian-Carboniferous sediments (P). Generally unfossiliferous, glauconitic interbedded non-fossiliferous and fossiliferous mudstone, siltstone and minor poorly-sorted pebbly sandstone (Abeis Bay Formation) (Pua).	
Pur	Moderately well-sorted, fine to medium-grained marine feldspathic sandstone with quartz granules and pebbles and thin pebbly layers (Purton Sandstone) (Pur).	
Pun	Generally poorly fossiliferous glauconitic fine-grained sandstone, siltstone and mudstone with common limestones and pebble-rich patches; typical beds richly fossiliferous; lower beds dominantly sandstone and variably fossiliferous (Mabina Formation) (Pun); contact metamorphosed by Jurassic dolerite (Punm).	
Pud	Interbedded, fossiliferous glauconitic mudstone, siltstone and minor sandstone; limestones present; thinner bedded than enclosing formations (Deep Bay Formation) (Pud).	
Pucb	Richly fossiliferous glauconitic grey biotactic and argillaceous limestone, and interbedded calcareous siltstone (Berride Limestone) (Pucb).	
Puc	Dark grey, fossiliferous siltstone and calcareous siltstone, and basal pebbly sandstone (Nassau Siltstone and Ruyter Sandstone) (Puc).	
Puc	Paralic, generally unfossiliferous dark grey mudstone and siltstone with subordinate very fine-grained, well-sorted sandstone, minor glauconitic intervals of sparsely fossiliferous, bioturbated dark grey siltstone and pebbly sandstone (Faulkner Group) (Pfc).	
Pfc	Paralic, generally unfossiliferous dark grey mudstone and siltstone with subordinate very fine-grained, well-sorted sandstone, minor glauconitic intervals of sparsely fossiliferous, bioturbated dark grey siltstone and pebbly sandstone (Faulkner Group) (Pfc).	
Pfi	Generally fossiliferous glauconitic siltstone, calcareous siltstone and sandstone, with limestones; richly fossiliferous central interval with some impure limy, upper interval dominantly of less fossiliferous micaceous siltstone (Bundella Formation) (Pfi).	
Pfo	Uniform, poorly bedded grey marine mudstone and siltstone with sparse limestones and glauconites (concretite of Woody Island Siltstone) (Pfo).	

MESOZOIC	JURASSIC	
	Jd	Dolerite (Jd). Dolerite of granitoid > 0.7mm (Jdfr), > 1.5mm (Jdf), 1.5 - 3mm (Jds), > 3mm (Jdc), > 6mm (Jdv) indicated in places. Granophyre and pegmatite (Jgp).
Jd	Dolerite fragmented by periglacial processes (Jdf).	

CONTACTS	
—	Geological contact.
- - - - -	Geological contact - inferred.
- - - - -	Igneous intrusive contact.
- - - - -	Igneous intrusive contact - inferred.
- - - - -	Limit of mapping of sub-unit within undifferentiated rock unit.

FAULTS	
- - - - -	Fault.
- - - - -	Fault - inferred.
- - - - -	Fault - concealed.
- - - - -	Normal fault (downthrown side indicated).
- - - - -	Normal fault (downthrown side indicated) - inferred.
- - - - -	Normal fault (downthrown side indicated) - concealed.

LINEARS	
- - - - -	Scarp.
- - - - -	Subsurface geological boundary projected to surface.
- - - - -	Lineament - visible on aerial photographs.
- - - - -	Lithological trend line, including bedding trace interpreted from aerial photographs.
- - - - -	Internal intrusive boundary within igneous body - inferred.
- - - - -	Internal intrusive boundary with associated chilled or fine-grained marginal zone within igneous body.

INTRUSIVE ROCKS	
Jd	Dolerite (Jd). Dolerite of granitoid > 0.7mm (Jdfr), > 1.5mm (Jdf), 1.5 - 3mm (Jds), > 3mm (Jdc), > 6mm (Jdv) indicated in places. Granophyre and pegmatite (Jgp).
Jd	Dolerite fragmented by periglacial processes (Jdf).

CONTACTS	
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- - - - -	Geological contact - inferred.
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- - - - -	Limit of mapping of sub-unit within undifferentiated rock unit.

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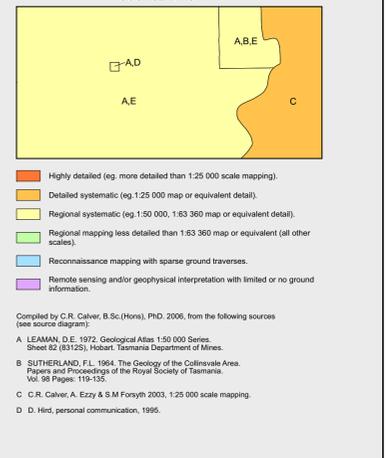
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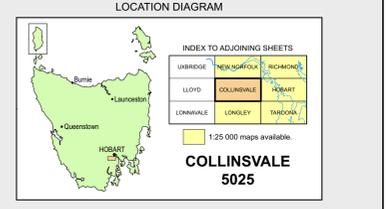
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Compiled by C.R. Calver, B.Sc.(Hons), PHD, 2006, from the following sources (see source diagram):  
A. LEAMAN, D.E. 1972. Geological Atlas 1:50 000 Series, Sheet 82 (3135), Hobart, Tasmania Department of Mines.  
B. SUTHERLAND, F.L. 1964. The Geology of the Collinville Area. Papers and Proceedings of the Royal Society of Tasmania. Vol. 98 Pages 119-135.  
C. C.R. Calver, A. Ezy & S.M. Forsyth 2003. 1:25 000 scale mapping.  
D. D. Hart, personal communication, 1995.



**REFERENCE THIS MAP AS:**  
CALVER, C.R. (compiler) 2007. Digital Geological Atlas 1:25 000 Series, Sheet 5025 Collinville. Mineral Resources Tasmania.

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