Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

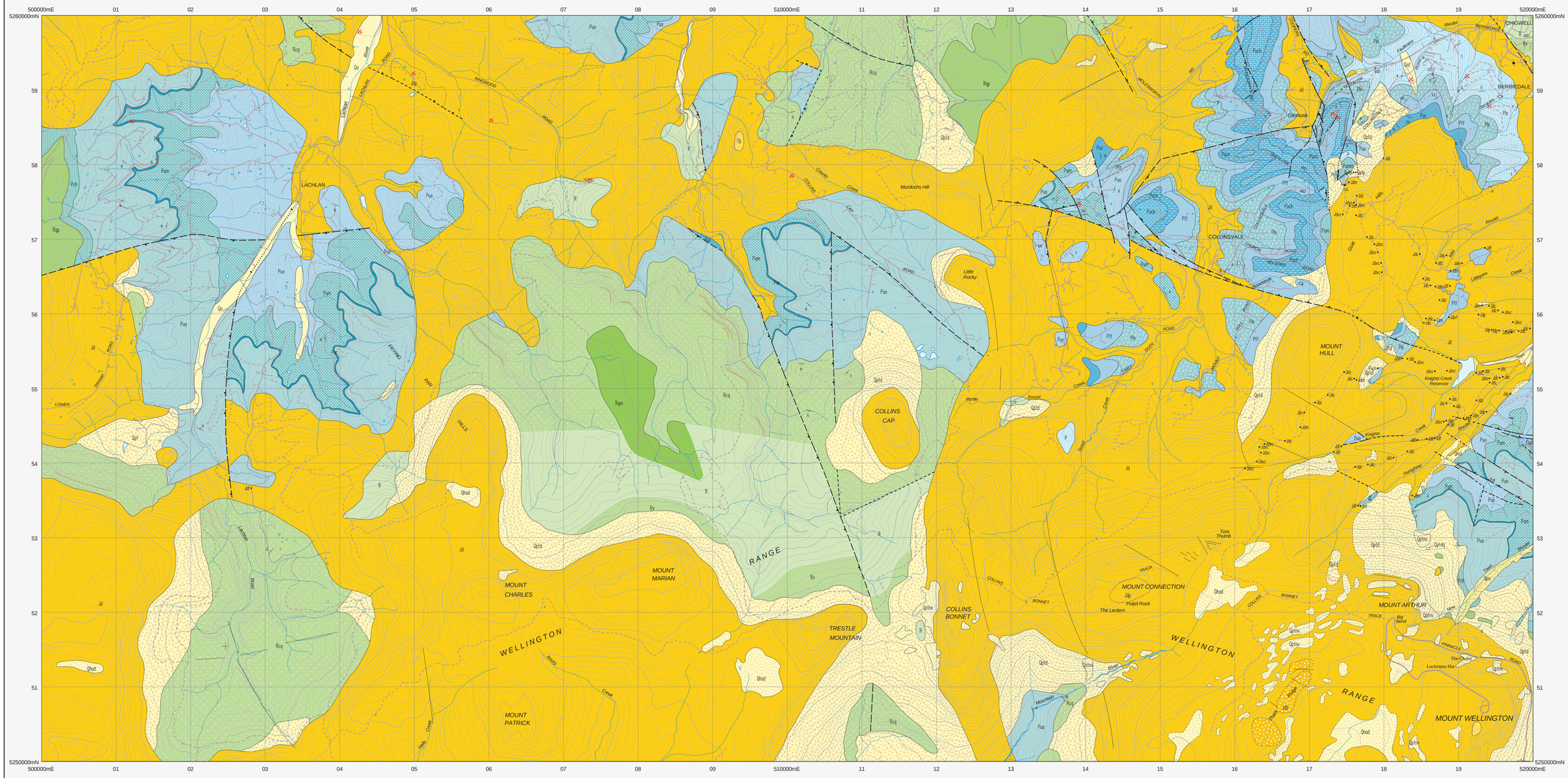
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
COLLINSVALE, SHEET 5025

COLLINSVALE

Scale: 1:25 000

0 500 1000 1500 2000 2500m

Tasmania
Explore the possibilities



CENOZOIC

QUATERNARY

Symbol	Description
Qhmm	Man-made deposits including refuse areas and landfill (Qhmm).
Qhad	Highland marsh deposits with some dolerite boulders and outcrops (Qhad).
Qhcl	Colluvium of clayey gravel, partly consolidated in places, derived from Lower Parmeener Supergroup rocks (Qhcl).
Qhag	Alluvial gravel deposits (Qhag).
Qa	Alluvial gravel, sand and clay (Qa); alluvial fans (Qaf).
Qpad	Older Alluvium of river terraces, predominantly dolerite derived (Qpad).
Qpa	Deeply dissected alluvial fan, proximal alluvial terrace and minor talus deposits containing boulders of weathered dolerite and Parmeener derived rocks in places (Qpa).
Qptnv	Periglacial non-vegetated scree deposits (Qptnv).
Qpt	Talus (Qpt); talus dominantly of dolerite boulders (Qptd); of dolerite with subordinate Lower Parmeener rocks (Qptp); dominantly of Upper Parmeener quartz sandstone (Qptq). Talus of dolerite with notable amounts of Upper Parmeener quartzose sandstone (Qptdq).

PALEOGENE – NEOGENE

Symbol	Description
Tb	Basalt (Tb).
Tcbs	Poorly sorted boulder to pebble grade deposits, clasts dominantly of Upper Parmeener sandstone with locally derived clasts of dolerite and Lower Parmeener rocks in some areas; clayey or sandy matrix (Tcbs).

Erosional surface.

MESOZOIC – TRIASSIC

Symbol	Description
Rvcq	Undifferentiated volcaniclastic, quartz-rich lithic and quartzose sandstone, siltstone, mudstone, carbonaceous beds and coal seams (Rv). Interbedded cross-bedded white quartzose sandstone, quartz-rich lithic sandstone, siltstone and mudstone (Newtown Coal Measures in part) (Rvcq).
Rqm	Interbedded micaceous brown, red-purple, green and grey carbonaceous siltstone, shale, mudstone and planar-bedded, ripple-laminated or cross-bedded sandstone (Rqm).
Rqp	Freshwater, predominantly cross-bedded, quartzose to feldspathic sandstone, commonly with overturned cross-bedding, and subordinate micaceous siltstone (Rqp); Knocklofty Formation (Rqph).
Pch	Freshwater, predominantly cross-bedded feldspathic sandstone and micaceous siltstone, minor thin beds of quartz-pebble conglomerate; upper interval less feldspathic (correlate of Cygnet Coal Measures) (Pch). Rcq = Rqp + Pch

PALEOZOIC – PERMIAN

UPPER PARMEENER SUPERGROUP

Symbol	Description
Puo	Generally unfossiliferous, glaciomarine interbedded non-fissile and fissile, bioturbated mudstone, siltstone and minor poorly-sorted pebbly sandstone (Abels Bay Formation) (Puo).
Pur	Moderately well-sorted, fine to medium-grained marine feldspathic sandstone with quartz granules and pebbles and thin pebbly layers (Risdon Sandstone) (Pur).
Pum	Generally poorly fossiliferous glaciomarine fine-grained sandstone, siltstone and mudstone with common lonestones and pebble-rich patches; topmost beds richly fossiliferous; lower beds dominantly sandstone and variably fossiliferous (Malbina Formation) (Pum); contact metamorphosed by Jurassic dolerite (Pumm).
Pud	Interbedded, fossiliferous glaciomarine mudstone, siltstone and minor sandstone; lonestones present; thinner bedded than enclosing formations (Deep Bay Formation) (Pud).
Pucb	Richly fossiliferous glaciomarine grey bioclastic and argillaceous limestone, and interbedded calcareous siltstone (Berriedale Limestone) (Pucb).
Pucn	Dark grey, fossiliferous siltstone and calcareous siltstone, and basal pebbly sandstone (Nassau Siltstone and Rayner Sandstone) (Pucn). Puc (Cascades Group) = Pucn + Pucb; Puo = Pud + Puc
Pff	Paralic, generally unfossiliferous dark grey mudstone and siltstone with subordinate very fine-grained, well-sorted sandstone; minor glaciomarine intervals of sparsely fossiliferous, bioturbated dark grey siltstone and pebbly sandstone (Faulkner Group) (Pff).
Pln	Generally fossiliferous glaciomarine siltstone, calcareous siltstone and sandstone, with lonestones; richly fossiliferous central interval with some impure limestone; upper interval dominantly of less fossiliferous micaceous siltstone (Bundella Formation) (Pln).
Plo	Uniform, poorly bedded grey marine mudstone and siltstone with sparse lonestones and glendonites (correlate of Woody Island Siltstone) (Plo).

LOWER PARMEENER SUPERGROUP

INTRUSIVE ROCKS

MESOZOIC – JURASSIC

Symbol	Description
Jd	Dolerite (Jd). Dolerite of grainsize > 0.7mm (Jdvf), > 1.5mm (Jdf), 1.5 – 3mm (Jdm), > 3mm (Jdc), > 6mm (Jdvc) indicated in places. Granophyre and pegmatite (Jdp).
Jdp	Dolerite fragmented by periglacial processes (Jdp).

Geological boundary – position accurate or approximate.
Geological boundary – inferred.
Geological boundary – concealed.
Intrusive boundary with associated chilled or fine-grained marginal zone in igneous body.
Intrusive boundary – position accurate or approximate.
Intrusive boundary – inferred.
Scarp.
Fault – position accurate or approximate.
Fault – inferred.
Fault – concealed.
Fault – position accurate or approximate, downthrown side indicated.
Fault – inferred, downthrown side indicated.
Fault – concealed, downthrown side indicated.
Bedding trace from air photos.
Airphoto lineament.
(white line) Limit of mapping of sub-unit within undifferentiated rock unit.

Strike and dip of bedding, right way up.
Horizontal bedding.
Strike of vertical outcrop-scale fault of unspecified relative age, type unspecified.
Strike and dip of dominant joint set.
Strike of dominant joint set, vertical.
Field station for adjacent readings on the map.
Notable small outcrop with rock unit indicated.
Mineral deposit location – hardrock
Construction material/industrial mineral/gemstone location
(Data derived from Mineral Resources Tasmania DEPOSITS database. Data point position has not been verified in every case.)

Compiled by C.R. Calver, B.Sc.(Hons), PhD. 2006, from the following sources (see responsibility diagram):

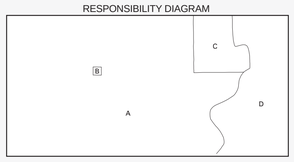
A LEAMAN, D.E. (1972): Hobart 1:50 000 geological map; with minor revision by C.R. Calver.

B D. HIRD, personal communication, 1995.

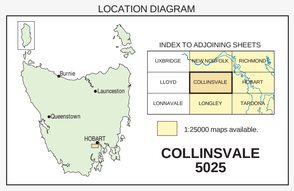
C LEAMAN, D.E. (1972): Hobart 1:50 000 geological map; Sutherland, F.L. (1974) Papers & Proceedings of the Royal Society of Tasmania. Vol. 98 Pp. 119–135; with minor revision by C.R. Calver.

D New 1:25 000 geological mapping by C.R. Calver, A. Ezzy & S.M Forsyth, 2003.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



REFERENCE THIS MAP AS:

CALVER, C.R. (compiler) 2007. Digital Geological Atlas 1:25 000 Series. Sheet 5025 Collinsvale. Mineral Resources Tasmania.

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Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.

GDA94 – MGA Zone 55. Contour Interval: 20 metres.

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