

CENOZOIC	
QUATERNARY	
Qha	Stream alluvium and swamp deposits (Qha).
Qbc	Colluvium (Qhc). Colluvium-clayey gravel derived from dolerite (Qhcd).
Qpbf	Dolerite block fields probably underlain by clay from weathered dolerite, with interstitial fines and vegetated (Qpbf).
Qpbw	Dolerite block fields probably underlain by clay from weathered dolerite, without interstitial fines and vegetated (Qpbw).
Qpt	Talus (Qpt); dominance of dolerite boulders (Qptd); of dolerite and subordinate Upper Permian rocks (Qptup); dominance of Upper Permian quartz sandstone (Qptq).
Qptf	Toppled dolerite masses (>100m), coherent or partly disaggregated, produced by cliff failure (Qptf).
----- Low-angle unconformity.	

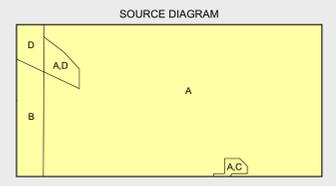
MESOZOIC	
TRASSIC	
R	Undifferentiated Upper Permian Supergroup rocks (R). Dominantly (lithic sandstone with minor mudstone and coal (Rv); dominantly mudstone (Rvcm).
Rvcl	Quartz-rich lime sandstone and minor quartz sandstone (Rvcl); with mudstone and carbonaceous mudstone (Rvcm).
Rvc	Cross-bedded quartz sandstone (Rvc).
Rvcp	Fine-grained slightly feldspathic quartz sandstone, micaceous shale and minor carbonaceous mudstone (correlate of Jackey Formation) (Rvcp).
Rvcp	Poorly sorted grey mudstone, siltstone and rare sandstone, unfossiliferous except for rare foraminifera (Prospect Creek Mudstone) (Rvcp).
Rvcp	These bedded, usually poorly sorted, pebbly sandstone passing up into interbedded sandstone, siltstone and mudstone. Marine fossils abundant in places (Maitland Sandstone) (Rvcp).
Pue	Dominantly bioclastic limestone (Burnt Gully Limestone) (Pue).
Pue	Marine fossiliferous mudstone, siltstone and minor sandstone and bioclastic limestone (Pue).
Pue	Fine-grained pebbly sandstone with phosphatic nodules; marine fossils present in some areas. Unit about 2m thick (Fonthill Sandstone Member) (Pue). Mudstone, siltstone and minor poorly sorted sandstone. Uncommon marine fossils (Pue).
Pue	(Pue, Puc, Pucm - Castle Casey Mudstone).
Pue	Dominantly fine-grained, well sorted quartz sandstone, commonly with interbedded and interlaminated carbonaceous shale, subordinate conglomerate and rare coal (Pue), dominantly very coarse-grained arkosic sandstone and granule conglomerate (Pisc). (Pis, Pisc - Aberfoyle Formation).
Pue	Poorly sorted pebbly mudstone, sandstone and minor conglomerate (Pib).
----- Angular unconformity.	

PALEOZOIC	
PERMIAN	
SDpp	Quartzwacke turbidite sequence of interbedded sandstone, siltstone and mudstone with significant mudstone (possible correlate of Lone Star Siltstone) (SDpp), contact metamorphosed by granitic intrusion (SDgpm).

IGNEOUS ROCKS	
BEN LOMOND BATHOLITH	
Jd	Dolerite (Jd). Grain size and textural features indicated - extremely fine-grained (<0.2mm) (Jdxf), very fine-grained (0.2-0.7mm) (Jdvf), fine-grained (0.7-1.5mm) (Jdf), medium-grained (1.5-3.0mm) (Jdm), medium- to coarse-grained (>1.5mm) (Jdc), fine-grained (0.7-1.5mm) with interstitial glass (Jdgl), very fine-grained (0.2-0.7mm), fine-grained (<0.2mm), medium-grained (1.5-3.0mm) and medium- to coarse-grained (>1.5mm) with abundant poorly crystalline mesostasis (Jdmcs).
Ogh	Aplite (Ogh).
Dgafw	Fine- to medium-grained, porphyritic with quartz and K-feldspar phenocrysts, alkali feldspar granite (Dgafw).
Dgafw	Fine- to medium-grained, equigranular alkali feldspar granite (Dgafw).

CONTACTS	
-----	Geological contact.
-----	Geological contact - inferred.
-----	Metamorphic contact.
-----	Limit of detailed mapping.
FAULTS	
-----	Normal fault (downthrown side indicated).
-----	Normal fault (downthrown side indicated) - inferred.
-----	Normal fault (downthrown side indicated) - concealed.
LINEARS	
-----	Moraine ridge crest.
-----	Limit of glacial smoothing of bedrock.
-----	Lineament - visible on aerial photographs.

↘	Strike and dip of bedding, right way up; facing unknown.
+	Horizontal bedding.
↗	Strike and dip of cleavage - relative local age S ₁ .
↖	Strike and dip of crenulation cleavage.
↗↖	Trend and plunge of columnar jointing.
◇	Vertical columnar jointing.
•	Field station for adjacent readings on the map.
•	Notable small outcrop with rock unit indicated.
•	Notable small float or lag occurrence with rock unit indicated.
✕	Mineral deposit location - hardrock.
✕	Construction material/industrial mineral/gemstone location.



Compiled by J.L. Everard, B.Sc.(Hons), 2006 from the following sources (see source diagram):

A CALVER, C.R.; EVERARD, J.L.; FINDLAY, R.H. & LENNOX, P.G. 1988. Geological Atlas 1:25 000 series, sheet 48 (8414K), Ben Lomond. Tasmanian Department of Mines.

B BLAKE, F. 1959. Geological Atlas 1:63 360 series, sheet 76 (8412N), Longford. Tasmanian Department of Mines.

C J.L. Everard fieldwork 1998.

D J.L. Everard fieldwork 2005.

REFERENCE THIS MAP AS:
EVERARD, J.L. (compiler) 2007. Digital Geological Atlas 1:25 000 Series, Sheet 5439 Stacks. Mineral Resources Tasmania.

Base data from the LIST. Copyright State of Tasmania.
Map produced by Spatial Information Services, Mineral Resources Tasmania.
Website: www.mrt.tas.gov.au
GDMS - MGA Zone 55. Contour interval: 20 metres.

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