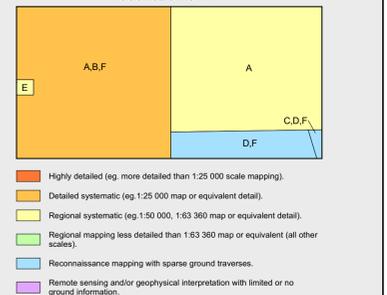


PERIOD	UNIT	DESCRIPTION	
CENOZOIC	Q	Undifferentiated Quaternary glacial deposits (Qg). Main-made deposits including mine dumps and disturbed ground (Qhm).	
	Qha	Alluvium, swamp and marsh deposits. May include older alluvial deposits (Qha).	
	Qpt	Talus, scree and colluvial deposits (Qpt).	
	Qsb	Bouldery slope and fan deposits, commonly with leaved channels; probably partly of glacial origin (Qsb).	
	Qppg	Undifferentiated Pleistocene glacial deposits (Qppg).	
	Qpms	Mainly till deposits - unweathered or slightly weathered (Qpms). Deposits of Marginal Glaciation.	
	Qpgr	Mostly outwash gravels (Qpgr).	
	Qpvt	Older glacial deposits including outwash gravels and sands, fine-grained varvoid deposits and till (Qpvt).	
	PALEOZOIC	SDi	Fine-grained quartz sandstone with minor siltstone and mudstone (correlate of Florence Formation) (SDi).
		SDa	Mainly mudstone and siltstone with minor sandstone and rare limestone (correlate of Amber Formation) (SDa).
SDc		Siltstone and fine-grained quartz-rich sandstone with common plane and low-angle cross-lamination (upper member of Criffy Formation) (SDc).	
SDd		Mainly coarse-to fine-grained sandstone (commonly decomposed to a friable sand) with an upper sequence of siltstone and fine-grained sandstone in some areas (Criffy Formation and correlatives) (SDd).	
Q		Limestone with some interbedded siltstone in places. Commonly decomposed to black clay 'top' (Q).	
Qsm		Undifferentiated shallow marine - non-marine siliceous conglomerate - sandstone sequence - Owen Group (Darwin Group and correlatives) (CO). Grey to pink quartz sandstone with basal pebble-granule conglomerate; trace fossils and chromite-rich bands in upper part (Fletcher beds and correlatives) (Qsm).	
COm		Middle to Upper Owen Group undifferentiated (COm). Thin-bedded quartz sandstone, commonly interbedded with interbedded siltstone and volcaniclastic sandstone. Chert clasts in places. (Bioturbation common) (Upper Owen Sandstone and correlatives) (COm).	
COc		Mainly pale pink to cream coloured, thick-bedded pebble-cobble to cobble-boulder quartz conglomerate, with minor quartz sandstone and some partly volcaniclastic siltstone in some areas. (Middle Owen Conglomerate and correlatives) (COc).	
COd		Lower and Middle Owen Group undifferentiated (COd). Mainly thin-bedded pink quartzite sandstone and pebbly sandstone with bands of pebble conglomerate; minor siltstone (Middle Owen Sandstone and correlatives) (COdms).	
COe		Mainly whitish to pale pink pebble-cobble conglomerate and pebbly sandstone, quartz sandstone, with minor siltstone and volcaniclastic sandstone. (Lower Owen Conglomerate and correlatives) (COe).	
COv	Mainly grey-green volcaniclastic sandstone with minor siltstone (COv).		

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	Cdt	Interbedded volcaniclastic and volcanic rocks, typically quartz-feldspar-phryic (Tynnal Group and correlatives) (Cdt).
	Cdl	Mainly volcaniclastic conglomerate and sandstone with minor mudstone. Quartz-rich matrix. Sparse quartzite clasts in places (Cdl).
	Cdlss	Mainly well-bedded quartz-feldspar crystalline volcaniclastic sandstone with minor siltstone and volcaniclastic conglomerate; graded bedding common (Cdlss).
	Cdlf	Felsic lava, typically quartz-feldspar-phryic (Cdlf).
	Cdlm	Interbedded siltstone, mudstone, volcaniclastic sandstone and mass-flow breccia (Cdlm).
	Cdlb	Breccia bodies usually with quartz-feldspar-rich matrix and abundant clasts of locally derived lava and cherty ash (Cdlb).
	Cdq	Quartz-feldspar-phryic volcanic and volcaniclastic rocks (Cdq).
	Cdv	Mainly felsic volcanic, volcaniclastic and pyroclastic rocks, typically feldspar + quartz-phryic (Cdv).
	Cdvi	Felsic lava, typically feldspar + quartz-phryic, commonly with spherulitic groundmass (Cdvi).
	Cdvs	Mainly felsic volcaniclastic and pyroclastic rocks, dominantly feldspar-phryic, including pumice-bearing units, minor shale and sandstone (Cdv).
MESO-PROTEROZOIC	Cdvs	Units of bedded siltstone, sandstone and volcaniclastic breccia (Cdvs).
	Cdvs	Mixed sequence of bedded volcaniclastic sandstone (usually quartz-feldspar-bearing), siltstone, mudstone, quartz-feldspar-phryic lava and lava breccia, minor feldspar-phryic lava and minor andesitic lavas and intrusives (Cdvs).
	Cdvs	Quartz-feldspar + biotite porphyry, mainly intrusive but may be partly extrusive (Cdvs).
	Cdvs	Mainly quartz-feldspar + biotite-phryic lava (Cdvs).
	Cdvs	Dominantly sandstone and mudstone with some interbedded tuffaceous units (Cdvs).
	Cdvs	Feldspar-hornblende-phryic andesite (Cdvs).
	Plm	Lithologically undifferentiated, commonly garnetiferous rocks of relatively high metamorphic grade, including massive schistose quartzite and fine- to coarse-grained, often finely banded, pelitic, garnetiferous quartz-mica and mica-quartz schist, commonly containing phengite, biotite, almandine, albite and chlorite. Relatively high metamorphic grade (Plm).
	Plm	Fine-grained, banded, pink and white quartzite with interbedded pelitic quartz-mica phyllite occasionally containing albite porphyroblasts. Intermediate metamorphic grade (Plm).
	Plm	Dominantly dark grey carbonaceous quartz-mica phyllite, sometimes porphyroblastic and occasionally containing albite, biotite, phengite, chlorite and minor garnet; fine-grained quartzite frequently present. Intermediate metamorphic grade (Plm).
	Plm	Lithologically undifferentiated rocks of intermediate to low metamorphic grade (garnet minor to absent), including phyllite, fine-grained quartzite and dolomitic schist (Plm).
MESO-PROTEROZOIC	Ppp	Dominantly grey to green carbonaceous pelitic quartz-phengite phyllite. Non-garnetiferous and relatively low metamorphic grade (Ppp).
	Ppsp	Interbedded fine-grained phengitic quartzite, green phengite-quartz phyllite, and grey to green carbonaceous pelitic quartz-phengite phyllite. Non-garnetiferous and relatively low metamorphic grade (Ppsp).
	Pps	Dominantly quartzite (Pps).
	Pps	Lithologically undifferentiated rocks of low metamorphic grade, including non-garnetiferous quartzite and phyllite (Pps). Fine-grained, thickly foliate, phengitic quartzite and subordinate fine-grained massive quartzite. Non-garnetiferous and relatively low metamorphic grade (Pps).
	Pps	Dominantly quartzite (Pps).
	Pps	Lithologically undifferentiated rocks of low metamorphic grade, including non-garnetiferous quartzite and phyllite (Pps). Fine-grained, thickly foliate, phengitic quartzite and subordinate fine-grained massive quartzite. Non-garnetiferous and relatively low metamorphic grade (Pps).
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SYMBOL	DESCRIPTION
Cdtp	Quartz-feldspar + biotite porphyry, mainly intrusive but may be partly extrusive (Cdtp).
Cgr	Granite, coarse-grained equigranular pink to white with minor microgranite (Darwin Granite) (Cgr).
Cdb	Mafic dykes, typically chlorite-altered (Cdb).
Cdbf	Ambiphole-rich basaltic rock occurring as float in "Slate Spur" area (Cdbf).
Eta	Ambiphole bodies (Eta).
qv	Quartz vein (qv).
bv	Barite vein (bv).

SYMBOL	DESCRIPTION
Strike and dip of bedding facing known, right way up; overturned, vertical (facing indicated by single bar).	Strike and dip of bedding, facing unknown - dipping; vertical.
Strike and dip of dominant joint set.	Strike and dip of igneous banding - dipping; vertical.
Strike and dip of compositional layering.	Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.
Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.	Strike and dip of dominant cleavage, relative local age S ₁ , however locally S ₂ (in quartzite units) or S ₃ .
Trend and plunge of minor fold hinge line, unspecified relative age; with dip and dip direction of axial surface, vertical.	Strike and dip of crenulation cleavage.
Trend and plunge of lineation of unspecified type.	Trend and plunge of minor fold hinge line, unspecified relative age; with dip and dip direction of axial surface, vertical.
Trend and plunge of lineation of unspecified type.	Trend and plunge of lineation of unspecified type.
Trend and plunge of intersection L ₁ formed by intersection of cleavages or foliations of relative local ages S ₁ and S ₂ .	Trend and plunge of intersection of cleavages or foliations of relative local ages S ₁ and S ₂ .
Field station for adjacent readings on the map.	Field station for adjacent readings on the map.
Notable small float or lag occurrence with rock unit indicated.	Notable small float or lag occurrence with rock unit indicated.
Mineral deposit location - hardrock.	Mineral deposit location - hardrock.
Mineral deposit location - alluvial/tailings.	Mineral deposit location - alluvial/tailings.
Construction material/industrial mineral/gemstone location.	Construction material/industrial mineral/gemstone location.



Compiled by D.C. Green, B.Sc.(Hons), Ph.D. and J.L. Everard, B.Sc.(Hons), 1998 from the following sources (see source diagram):

A CALVER, C.R., BAILLIE, P.W., EVERARD, J.L., SEYMOUR, D.B., WILLIAMS, P.F., FORDYTH, S.M., TURNER, R.J. and WILLIAMS, E. 1987. Geological Atlas 1:50 000 Series, Sheet 55 (8013N), Lyell, Tasmania Department of Mines.

B CORBETT, K.D., PEMBERTON, J. and VICARY, M.J. 1993. Geology of the Mt. Jukes - Mt. Darwin area. Map 13, Mt. Road Volcanics project, Tasmania Department of Mines.

C DUNCAN, D. MAP 1974. Reconnaissance geology of the Frenchmans Cap National Park. Papers & Proceedings of the Royal Society of Tasmania 107: 191-195.

D SPRY, A.H. 1962. The Precambrian Rocks. In SPRY, A.H. & BANKS, M.R. (eds.), The Geology of Tasmania. Journal of the Geological Society of Australia 9(2): 107-145.

E Halley, S., Vicary, M., and Boyd, D. 1995. Exploration Licence No's 10287, 5598 and 1292 (Clovenstone, Mt Darwin and Owenston South). Annual Report April 1994 - March 1995. RSC Exploration Pty Ltd. TR 95-271.

Updated by:
F CORBETT, K.D. 2002. Bedrock geological map of the Elliott Bay-Macquarie Harbour Area South-West Tasmania. Western Tasmanian Regional Minerals Program. Mineral Resources Tasmania.

