

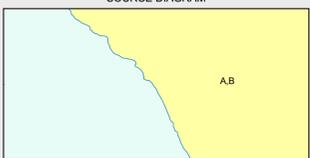
SOUTHERN  
OCEAN

CENOZOIC	QUATERNARY	HOLOCENE	
		Qha	Stream alluvium, swamp and marsh deposits (Qha).
		Qhbd	Younger active dune, beach sand and gravel (Qhbd).
		Qhe	Eluvium (Qhe).
		Qhr	Raised beach deposits (Qhr).
		Qhag	Alluvial gravel deposits (Qhag).
		Qgh	Holocene talus of unspecified type (Qgh).
		Qpsw	Older aeolian sand dunes (Qpsw).
			Erosional surface
		Ts	Sand silt and clay (Ts). Conglomerate, gravel and grit (Tc).
		Tc	
			Unconformity
		Pcz	Freshwater quartz sandstone with minor mudstone, coal partings and other carbonaceous material. Soft sediment structures common (correlate of Cynnet Coal Measures) (Pcz).
		Pufz	Dark grey, poorly sorted, often bioturbated but essentially unfossiliferous siltstone and minor sandstone (Pufz).
		Puwz	Poorly sorted, fossiliferous, pebbly and conglomeratic sandstone (Puwz).
			Unconformity
		Sdb	Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine-grained quartz sandstone (Bell Shale) (Sdb).
		Sdi	Generally pale grey, fine-grained quartz sandstone with subordinate interbedded greenish grey siltstone (Florence Quartzite) (Sdi).
		Sdac	Greenish grey and bluish grey laminated siltstone and minor interbedded fine-grained quartz sandstone (Austral Creek Siltstone and correlates) (SDac).
		SDak	Pale grey to white generally fine-grained quartz sandstone (Keel Quartzite and correlates) (SDak).
		SDaa	Greenish grey, generally highly fissile siltstone and mudstone with minor interbedded fine-grained quartz sandstone (Amber Silt and correlates) (SDaa).
		SDc	Generally pale grey and in part pink, commonly current-bedded, fine-to coarse-grained quartz sandstone with common pebble conglomerate layers and minor interbedded pale green mudstone and siltstone (Crotty Quartzite and correlates) (SDc).

PALEOZOIC	DEVONIAN	ORDOVICIAN	
		Oi	Dark grey carbonate rocks, calcareous mudstone, minor quartz sandstone and black clay weathering products. In part fossiliferous (correlate of Gordon Limestone) (Oi).
		Osm	Pale grey to pink commonly cross-bedded quartz sandstone, coarse and possibly lower base and tubular trace fossils in horizons of upper sequences (correlate of Moira Sandstone) (Osm).
		COcz	Purplish massive to well-bedded, siliceous, mostly cobble-boulder conglomerate with minor interbedded sandstone, siltstone and red mudstone (M Zeelan Conglomerate). Conglomerate clasts: ferruginous quartz sandstone 61%, quartzite 28%, vein quartz 11%, chert 2% (COcz).
		COms	Interbedded, laminated purple-green siltstone and minor quartzwacke. Fossiliferous in part 358 600mE, 5 357 750mN (COms).
		COvc	Mafic volcanoclastic sandstone, siltstone, mudstone-chert, minor carbonate sequences with intercalated biotitic basalt flows. Considered allochthonous. Laina Group and correlate (Ccw) bedded black and grey chert-rich granite to pebble conglomerate (Ccw); laminated siltstone and lithowacke (Cwts).
		Ccw	
		Cwts	
			Unconformity
		Po	Undifferentiated Onagh Formation. Dominantly quartzwacke turbidites (Po).
			Unconformity
		Jd	Dolerite (Jd).
		Dgqm	Red and/or white massive quartz bodies (Dgqm).
		Dgh	Aplitic (Dgh).
		Dgac	Dominantly coarse-grained, equigranular, leucocratic, biotite-bearing alkali feldspar granitoid, with sparse to common patches and nodules of quartz and tourmaline (Dgac).
		Dgasf	Dominantly fine- to medium-grained, equigranular to porphyritic (quartz and feldspar), leucocratic, biotite-bearing alkali feldspar granitoid, with sparse to common patches and nodules of quartz and tourmaline (Dgasf).
		Dgsp	Dominantly fine- to coarse-grained, generally porphyritic (quartz and feldspar), pink, biotite-bearing alkali feldspar granitoid, with variably developed patches and nodules of quartz and tourmaline (Dgsp).
		Dgpp	Dominantly coarse- to very coarse-grained, equigranular, pink biotite-bearing alkali feldspar granitoid, with variably developed sparse patches and nodules of quartz and tourmaline (Dgpp).
		Dgpc	Fine- to very coarse-grained, equigranular to porphyritic (quartz and feldspar), pink, biotite-bearing alkali feldspar granitoid, with variably developed patches and nodules of quartz and tourmaline (Dgpc).
		Dgpcp	Dominantly coarse- to very coarse-grained, equigranular, pink biotite-bearing alkali feldspar granitoid, with variably developed sparse patches and nodules of quartz and tourmaline (Dgpcp).

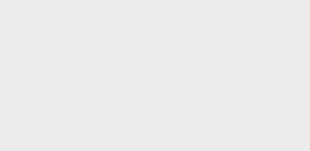
PALEOZOIC	CAMBRIAN	OWEN GROUP	
		Cdaa	Andesitic lava (Cdaa).
		Cc	Undifferentiated basalt and gabbro (Ccb). Massive to pillowed, aphyric basalt flows with interbedded breccia flows (Ccb).
		Ccb	Pillowed aphyric basalt flows with interbedded breccia flows (Ccb).
		Ccgm	Medium- to coarse-grained gabbro (Ccgm).
		Ccgv	Very coarse-grained gabbro (Ccgv).
		Ccgm	Fine- to medium-grained gabbro (Ccgm).
		Ccg	Layered granular textured gabbro (Ccg).
		Cca	Porphyritic (pseudomorphed clinostellate and/or orthopyroxene, chromite) basalt, commonly with interbedded pillow and breccia flows (Cca).
		Csd	Dominantly serpentinized layered dunite and harzburgite (Csd).
		Csm	Ironstone capping on massive serpentinite (Csm).
		Cem	Massive serpentinite (Cem).

CONTACTS	
—	Geological contact.
- - - - -	Transitional geological contact.
—	Limit of mapping of sub-unit within undifferentiated rock unit.
—	Limit of detailed mapping.
FAULTS	
—	Fault.
- - - - -	Fault - inferred.
.....	Fault - concealed.
—	Thrust fault (teeth on upper plate).
—	Thrust fault (teeth on upper plate) - inferred.
.....	Thrust fault (teeth on upper plate) - concealed.
LINEARS	
—	Axial surface trace of major synform.
—	Lineament - visible on aerial photographs.



- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg. 1:25 000 map or equivalent detail).
- Regional systematic (eg. 1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by M.P. McLennaghan, B.Sc.(Hons), Ph.D., 1998 from the following sources (see source diagram):  
A. BROWN, A.V., FINDLAY, R.H., GOSCOMBE, B.D., MCLENNAGHAN, M.P., and SEYMOUR, D.B., 1994. Zeelan, Geological Atlas 1:50 000 Series Sheet 50 (79145), Tasmania Department of Mines.  
B. VICARY, M.J., 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmania Geological Survey Record 2005/05. Mineral Resources Tasmania.



INDEX TO ADJOINING SHEETS	
HEMLOCK EAST	DUNDAS
WEST	OCEANA
TRIAL	MALLANNE
PROFESSOR	

1:25 000 maps available.

**TRIAL**  
3435

**REFERENCE THIS MAP AS:**  
MCLENNAGHAN, M.P. (compiler) 2004. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3435 Trial. 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  
GDSM - MGA Zone 55. Contour Interval: 20 metres.

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