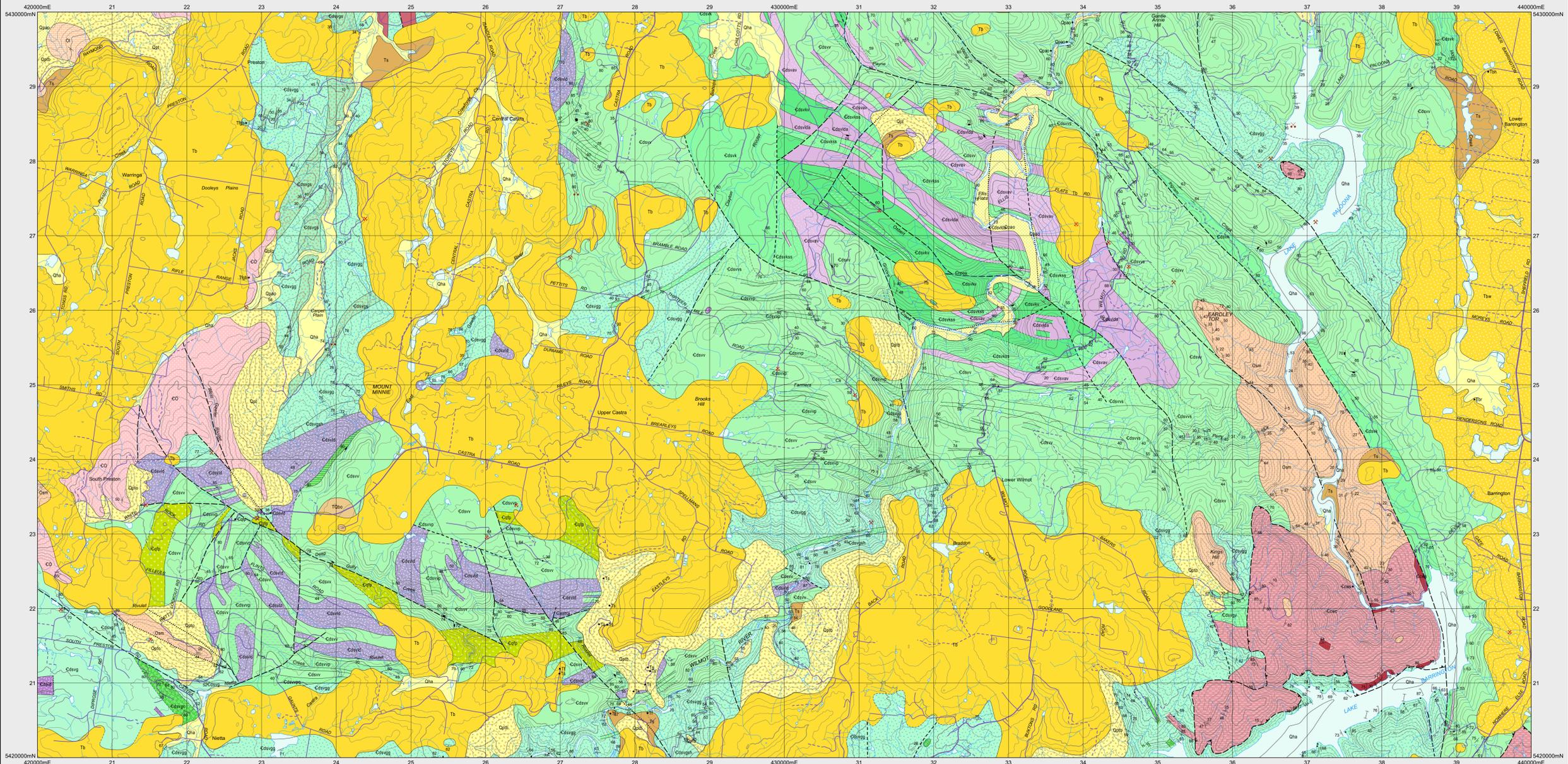
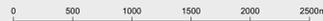


CASTRA

Scale 1:25 000

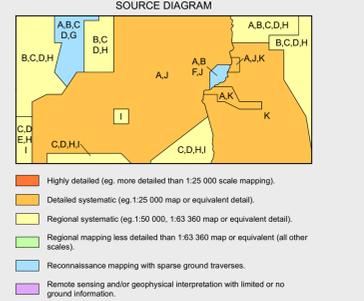


PERIOD	UNIT	DESCRIPTION
CEZOZOIC	QUATERNARY	
	PLEISTOCENE	Qha Stream alluvium, swamp and marsh deposits (Qha).
	PLEISTOCENE	Qpb Talus, fill and scree of probable Pleistocene age (Qpb). Basalt talus (Qpb).
	PLEISTOCENE	Qpc Quartz sandstone and conglomerate talus derived from Owen and Gordon Group corallites (Qpc).
	PLEISTOCENE	Qpao Older alluvium (Qpao).
PALEOZOIC	NEOGENE	
	Tbw Deeply weathered basalt (Tbw). Basalt (Tb) including local occurrence of hawaiiite (Tbh), and transitional olivine basalt (Tbv). Gneiss and siltstone (Tbg).	
	Tt Local occurrence of ferriolite (Tt).	
	Ts Terrestrial sand, gravel and minor lacustrine deposits (Ts).	
	TQbo Deposits of large boulders derived from Owen Group (TQbo).	
PALEOZOIC	ORDOVICIAN	
	Oi Limestone (correlate of Gordon Limestone) (Oi).	
	Oem Pale grey to dark reddish grey, fine- to coarse-grained, poorly sorted and generally pebbly quartz sandstone. Bioturbated in places (correlate of Moore Sandstone) (Oem).	
	CO Pebble-cobble siliceous conglomerate and coarse-grained sandstone with abundant quartzite and chert clasts (CO).	
	PALEOZOIC	CAMBRIAN
Cdsivg Marine volcano-sedimentary sequences of sandstone, siltstone, mudstone, conglomerate and breccia with some felsic to andesitic volcanic rocks (Gog Range Greywacke) (Cdsivg).		
Cdsivg Dominantly non-volcanic sandstone and siltstone, typically siliceous-micaceous, massive to thinly bedded (Cdsivg).		
Cdsivg Coarse-grained polymict conglomerate, sandstone and lithowacke with clasts of basalt, chert, siltstone and limestone (Gog Range Greywacke) (Cdsivg).		
Cdsivg Quartz-feldspar phric pumiceous volcaniclastic sandstone and siltstone (Cdsivg).		

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	CAMBRIAN	
	Cdsivg Predominantly fine grained ashy volcaniclastic siltstone, with minor black-grey siltstone (Cdsivg).	
	Cdsivg Quartz-feldspar phric pumiceous volcaniclastic sandstone and siltstone (Cdsivg).	
	Cdsivg Interbedded felspar phric volcaniclastic sandstone and pumiceous mass-flow deposits, commonly with perlitic dacite clasts (Cdsivg).	
	Cdsivg Massive felspar phric dacite lava, commonly spherulitic, sphyerulitic and/or perlitic (Cdsivg).	
	Cdsivg Laminated siltstone and mudstone with minor sandstone (Cdsivg).	
	Cdsivg Quartz-feldspar ± biotite phric rhyolite. Intrusive to locally extrusive (Cdsivg).	
	Cdsivg Predominantly micaceous greywacke and siltstone (Cdsivg).	
	Cdsivg Predominantly felspar ± pyroxene phric andesitic-dacitic volcaniclastic sandstone. Commonly pumiceous (Cdsivg).	
	Cdsivg Massive felspar ± pyroxene phric dacite to andesite lavas and intrusives (Cdsivg).	
PALEOZOIC	CAMBRIAN	
	Cdsivg Interbedded ashy volcaniclastic siltstone, greywacke and siltstone, pumiceous volcaniclastic sediments and dacite-andesite lavas and intrusives (Cdsivg).	
	Cdsivg Predominantly felspar ± pyroxene phric andesitic-dacitic volcaniclastic sandstone. Commonly pumiceous (Cdsivg).	
	Cdsivg Massive felspar ± pyroxene phric dacite to andesite lavas and intrusives (Cdsivg).	
	Cdsivg Predominantly fine grained ashy volcaniclastic siltstone, with minor black-grey siltstone (Cdsivg).	
PALEOZOIC	CAMBRIAN	
	Cdsivg Predominantly micaceous greywacke and siltstone (Cdsivg).	
	Cdsivg Predominantly felspar ± pyroxene phric andesitic-dacitic volcaniclastic sandstone. Commonly pumiceous (Cdsivg).	
	Cdsivg Quartz-feldspar phric pumiceous volcaniclastic sandstone (Cdsivg).	
	Cdsivg Laminated siltstone and mudstone with minor sandstone (Cdsivg).	
PALEOZOIC	CAMBRIAN	
	Cdsivg Dominantly siliceous conglomerate and sandstone, typically with quartzite and chert clasts. May include volcaniclastic debris in places (Cdsivg).	
	Cdsivg	

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	CAMBRIAN	
	Cdsivg Quartz-feldspar ± biotite phric rhyolite. Intrusive to locally extrusive (Cdsivg).	
	Cdsivg Massive plagioclase-hornblende phric dioritic, andesitic and dacitic intrusives (Lobster Creek intrusives) (Cdsivg).	
	Cdsivg Massive felspar ± pyroxene phric dacite to andesite lavas and intrusives (Cdsivg).	
PALEOZOIC	CAMBRIAN	
	Cdsivg Pillowed to massive fine- to medium-grained augite bearing tholeiitic basalt with interbedded volcaniclastic sandstone and conglomerate, mudstone and chert bearing breccia (Motton Metabasalt) (Cdsivg).	
PALEOZOIC	CAMBRIAN	
	Cdsivg Pale to dark grey or black, distinctly bedded and plane-laminated to massive or brecciated chert with minor red and grey siliceous hematisitic mudstone and siltstone (Barrington Chert) (Cdsivg).	
PALEOZOIC	CAMBRIAN	
	Cdsivg Red and grey siliceous hematisitic mudstone and siltstone (Cdsivg).	

SYMBOL	DESCRIPTION
—	Geological contact.
- - -	Geological contact - inferred.
- . - . -	Unconformable lithological contact.
---	Limit of mapping of sub-unit within undifferentiated rock unit.
- - - - -	Fault.
- - - - -	Fault - inferred.
- - - - -	Fault - concealed.
- - - - -	Thrust fault (teeth on upper plate).
— / —	Strike and dip of bedding, right way up; overturned.
— / —	Strike and dip of bedding, facing unknown; vertical.
— / —	Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.
— / —	Strike and dip of dominant joint set.
— / —	Strike of dominant joint set, vertical.
— / —	Trend and plunge of minor fold hinge line, unspecified relative age.
•	Field station for adjacent readings on the map.
•	Notable small outcrop with rock unit indicated.
•	Mineral deposit location - hardrock.
•	Mineral deposit location - alluvial/alluvial.
•	Construction material/industrial mineral/gestone location.



Compiled by M.J. Vicary, B.Sc.(Hons), 2005 from the following sources (see source diagram):

A VICARY, M.J. 2006. Re-interpretation of geological relationships in the Castra-Koonah area, Tasmania. Geological Survey Report 2006/01. Mineral Resources Tasmania.

B BURRIS, K.L. 1967. Geology of the Noon-Gurns Plains area. BSc (Hons) thesis. University of Tasmania. TCR 95-189.

C PORTER, T.M. 1974. E.L. 1972 Dial Range, North West Tasmania. Progress Report CRA Exploration Pty Ltd. TCR 74-0992.

D JENNINGS, E.B., BURRIS, K.L., LAMONT, S.J. and ROBINSON, R. 1989. Geological Atlas 1 Mile Series, Zone 7 Sheet 37, Sheffield, Tasmania. Department of Mines, Mineral Resources Tasmania.

E VICARY, M.J. 1995. Exploration Licence No. 4292 Loongana Annual Report May 1994 - May 1995. RDC Exploration Pty Ltd. TCR 95-378.

F VIVIAN, R.M. 1984. Final Report on Exploration Activities within EL 3382, Palooka Northern Tasmania. Unpublished Report, Austarax Operations Property Limited, Austarax Resources Limited. TCR 84-207.

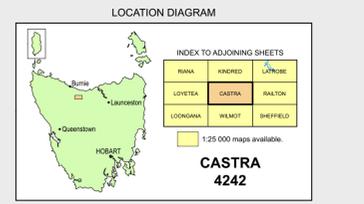
G CORRETT, K.D. 2003. Bedrock geological map of the Owen River - Sheffield area, North West Tasmania. Mineral Resources Tasmania.

H VICARY, M.J. 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmania Geological Survey Report 2005/06. Mineral Resources Tasmania.

I PORTER, T.M. 1978. E.L. 1972 Dial Range, North West Tasmania. Progress Report No. 3. CRA Exploration Pty Ltd. TCR 78-117.

Updated by:
J. M.J. Vicary 2007. 1:25 000 geological mapping as part of the TasExplore Project.
K. M.P. McEachern 2007. 1:25 000 geological mapping as part of the TasExplore Project.

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Website: www.mrt.tas.gov.au
GD494 - MGA Zone 55. Contour Interval: 20 metres.



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