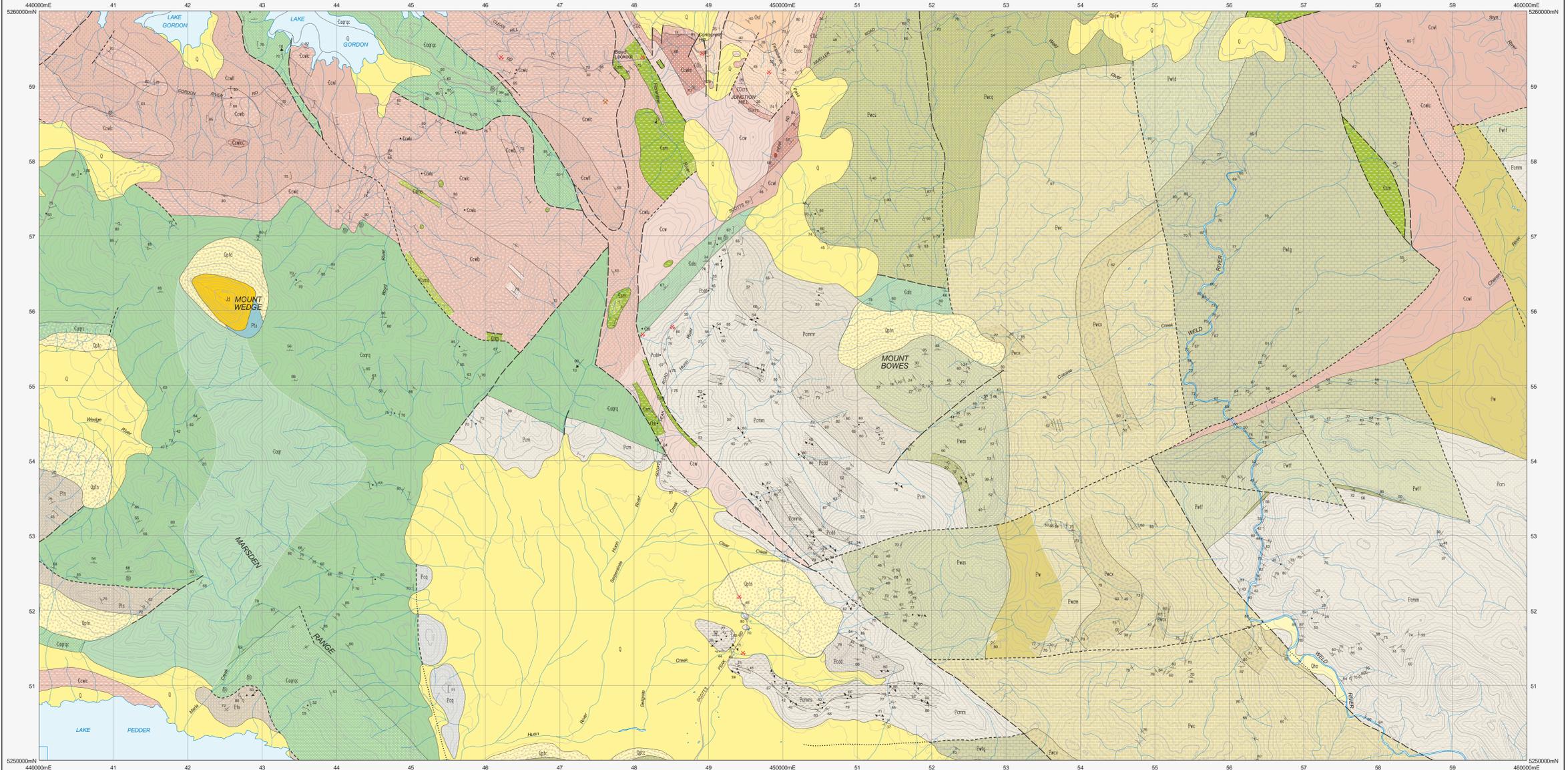


BOWES

Scale: 1:25 000



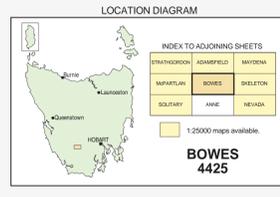
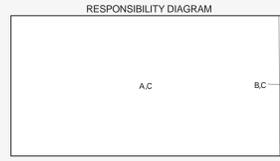
PERIOD	SUBPERIOD	UNIT	DESCRIPTION
GENOZOIC	QUATERNARY	Qha	Stream alluvium, swamp and marsh deposits (Qha).
		Q	Talus consisting dominantly of dolerite boulders (Qdt); Proterozoic orthoquartzite (Qot); siliceous conglomerate (Qsc).
		Qagw	Marshall and associated deposits (Qagm), weathered (Qagw).
CARBONIFEROUS	PERMIAN	Pt1x	Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminitic upper unit of Maydena. Range of interbedded pebbly to boulder grade conglomerate, diamictite and sandstone with some shale (correlate of Truro Tillite) (Pt1x).
			Angular unconformity
PALEOZOIC	CAMBRIAN - ORDOVICIAN	Dsf	Siltstone and calcareous shale (Florentine Valley Formation) (Dsf).
		Osc	Upper marine shallow-water quartz sandstone with abundant worm casts, minor basal conglomerate against older basement (Square Creek Formation) (Osc).
	EDCs	Interbedded cross-bedded quartz sandstone, pebbly sandstone and siliceous well-sorted pebble conglomerate (EDCs).	
	EDCr	Terrestrial shallow-water thickly-bedded siliceous-cobble conglomerate (EDCr).	
CAMBRIAN SERIES	Caqr	Quartzwacke, lithicwacke with predominantly metamorphic and minor chert grains, and interbedded grey-green mudstone and fossiliferous siltstone (Caqr); subordinate pebble conglomerate (Caqpc) within unit Caqr.	
	Caqr	Well-sorted, granule-to boulder-conglomerate with predominantly siliceous metamorphic, and rare chert clasts, and interbedded fine-to coarse-grained sandstone, siliceous wacke and siltstone with fossils (Caqr).	
	Cds	Quartz-rich lithic sandstone and minor conglomerate of metamorphic, volcanic and dioritic provenance, and mudstone (Cds).	
CAMBRIAN	CAMBRIAN SERIES	Ccw	Inferred angular unconformity on Cc; angular unconformity on Pw, Pc.
		Ccw1	Micaceous lithic sandstone of metamorphic and volcanic provenance, mudstone, red mudstone and minor chert (Ccw). Scattered ultramafic outcrops within unit Ccw (Ccw1).
		Ccw2	Feldspathic wacke with common, very coarse grains of muscovite and grains of garnet and biotite, interbedded with grey-green mudstone and minor feldspathic wacke, red mudstone, chert and fine-grained, basic igneous rock (Ccw2).
		Ccw3	Feldspathic wacke with common chert interlayers (Ccw3). Some chert layers undated (Ccw3).
TERREBIAN-CAMBRIAN	CAMBRIAN SERIES	Ccw4	Predominantly interlayered red mudstone, chert, basaltic tuff and basalt. Small dolerite bodies present (Ccw4). Minor interbedded carbonate layers (Ccw4).
		Ccw5	Lithicwacke with abundant grains of chert interbedded with grey-green mudstone, minor chert and lithic conglomerate (Ccw5). Possible stolon of white quartz granite and chert bearing pebbly quartz granite (Ccw5).

PERIOD	SUBPERIOD	UNIT	DESCRIPTION
NEOPROTEROZOIC	CYROGENIAN - EDUCABIAN	Pw1	Dominantly fine-grained dolostone, diamictite and mudstone (correlate of Colac Creek Formation) (Pw1). Massive fine-grained dolomite with mixite, talus sandstone, mudstone and chert (Pw1).
		Pw2	As Pw1 but interlayered with quartz sandstone (Pw2).
		Pw3	Dominantly black mudstone and quartz sandstone (Pw3).
		Pw4	Dominantly black dolomitic diamictite (Pw4).
		Pw5	Dominantly massive, fine-grained dolostone (Pw5).
		Pw6	Dominantly bedded oolitic dolostone (Pw6).
		Pw7	Dominantly fine-grained dolostone (Pw7).
		Pw8	Dominantly red mudstone (Pw8).
		Pw9	Quartz sandstone with minor well-sorted siliceous conglomerate, interbedded with red quartz siltstone and mudstone with deposition cracks in places (Pw9) where dominantly conglomerate (Pw9) (Pw9, Pw9, Pw9-correlates of Anakapada Formation).
		Pw10	Low angle unconformity.
MESOPROTEROZOIC	CLARK GROUP	Pcm1	Dominantly mudstone and quartz siltstone (Pcm1). Massive red mudstone (Pcm1).
		Pcd	Fine-grained, impure dolomite (Pcd).
		Pcm2	Red or variegated, interbedded siltstone and mudstone (Pcm2).
		Pcm3	Orthoquartzite, up to thin (>30m) persistent units in dominantly mudstone sequence (Pcm3).
		Pcm4	Orthoquartzite (including Needles Quartzite and correlates) (Pcm4).
CAMBRIAN	CAMBRIAN SERIES	Pc1	Dominantly quartzite (Pc1).
		Pc2	

PERIOD	SUBPERIOD	UNIT	DESCRIPTION
PALEOZOIC	MESOZOIC	Jd	Dolerite (Jd).
		Csm	Massive serpentine (Csm).
		Csm	Serpentine with amphibole (Csm).
CAMBRIAN	JURASSIC	Cbb	Local occurrence of basaltic lava (Cbb).

- INTRUSIVE ROCKS**
- Geological boundary - position approximate.
 - Fault - position approximate.
 - Fault - inferred.
 - Fault - concealed.
 - (white line) Limit of mapping of sub-unit within undifferentiated rock unit.
- ALLOCHTHONOUS ALLEGERENCE**
- Strike and dip of bedding, right way up, overturned.
 - Strike and dip of bedding, facing unknown - dipping vertical.
 - Strike and dip of metamorphic foliation other than cleavage.
 - Strike and dip of cleavage, type and relative age unspecified - dipping vertical.
 - Strike of vertical cleavage, relative local age S1.
 - Strike and dip of cleavage, relative local age S2.
 - Strike of vertical cleavage, relative local age S2.
 - Strike and dip of cleavage, relative local age S3.
 - Trend and plunge of minor fold hinge line, unspecified relative age, vergence axial, vergence sinistral.
 - Trend and plunge of minor fold hinge line, unspecified relative age, with dip and dip direction of axial surface.
 - Trend and plunge of minor fold hinge line, relative local age F2, with dip and dip direction of axial surface.
 - Macrofossil locality.
 - Notable small outcrop with rock unit indicated.
 - Field station for adjacent readings on the map.
 - Mineral deposit location - hardrock.
 - Construction material/industrial mineral/gypsum location.

Compiled by M.P. McLennaghan, B.Sc.(Hons), Ph.D., 2004 from the following sources (see responsibility diagram):
A. Turner, N.J., Calver, C.R., McLennaghan, M.P., McLennaghan, J., Brown, A.J., Lewis, F.G. 1995. Geological Atlas 1:50,000 Series, Sheet 80 (8123), Puckier.
B. Unpublished geological survey mapping C.R. Calver 1996.
Updated by:
C. M. Viscay, 2004 as part of the Western Tasmania Regional Minerals Program.



REFERENCE THIS MAP AS:
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GDAS4 - MGA Zone 55. Contour Interval: 20 metres.

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