



CENOZOIC	
QUATERNARY	<ul style="list-style-type: none"> <li>Qhab Undifferentiated Quaternary sediments (Q).</li> <li>Marsh and swamp deposits (Qhab), highland marsh deposits with common protruding dolomite outcrops and boulders (Qhab).</li> <li>Qa Alluvial gravel, sand and clay (Qa). Some alluvial fans indicated (Qaf).</li> <li>Q Optriv Periglacial non-vegetated scree deposits (Optriv).</li> <li>Qat Talus (Qat); talus consisting dominantly of Jurassic dolomite boulders (Qatd); dominantly of Upper Permian Supergroup quartz sandstone (Qatq); of Proterozoic orthoquartzite (Qatp).</li> <li>Qopgm Mostly morainal deposits (Qopgm).</li> <li>Qpdt Deeply weathered dolomite boulder deposit at 476910mE 5246855mN (Qpdt).</li> </ul>
Erosional surface.	
TRASSIC	<ul style="list-style-type: none"> <li>Rqpp Undifferentiated Permian Supergroup rocks (PR); undifferentiated Upper Permian Supergroup rocks (R).</li> <li>Dominantly freshwater, cross-bedded quartzose sandstone and subordinate micaceous siltstone and mudstone (correlate in part of Ross Formation) (Rqpp).</li> <li>Undifferentiated Permian-Carboniferous sediments (P). Generally unfossiliferous medium to thick-bedded, generally poorly fossiliferous pebbly marine siltstone and sandstone sequence, with cliff-forming olive-brown weathered coarse-grained sandstone with cobble horizons at the base, and fossiliferous sandstone at the top (correlate of Mine Point Formation) (Pm); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Pmst).</li> <li>Well-sorted, fine-to coarse-grained, marine feldspathic sandstone with quartz granules and pebbles (correlate of Risdon Sandstone) (Pw).</li> <li>Generally fossiliferous mudstone, siltstone and sandstone with limestone (correlate of Bundala, Deep Bay and Mine Point Formations and Faulkner Group) (Pw).</li> <li>Medium to thick-bedded, generally poorly fossiliferous pebbly marine siltstone and sandstone sequence, with cliff-forming olive-brown weathered coarse-grained sandstone with cobble horizons at the base, and fossiliferous sandstone at the top (correlate of Mine Point Formation) (Pm); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Pmst).</li> <li>This to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with limestone, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Puhdm).</li> <li>Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminitic; upper unit at Maydena Range of interbedded, possible to boulder grade, conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).</li> </ul>
PERMIAN	<ul style="list-style-type: none"> <li>Prp Generally fossiliferous mudstone, siltstone and sandstone with limestone (correlate of Bundala, Deep Bay and Mine Point Formations and Faulkner Group) (Pw).</li> <li>Medium to thick-bedded, generally poorly fossiliferous pebbly marine siltstone and sandstone sequence, with cliff-forming olive-brown weathered coarse-grained sandstone with cobble horizons at the base, and fossiliferous sandstone at the top (correlate of Mine Point Formation) (Pm); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Pmst).</li> <li>This to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with limestone, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Puhdm).</li> <li>Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminitic; upper unit at Maydena Range of interbedded, possible to boulder grade, conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).</li> </ul>
PALEOZOIC	<ul style="list-style-type: none"> <li>Pmst Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminitic; upper unit at Maydena Range of interbedded, possible to boulder grade, conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).</li> <li>Puhd This to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with limestone, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Puhdm).</li> <li>Puhdm This to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with limestone, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Puhdm).</li> <li>Ptx Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminitic; upper unit at Maydena Range of interbedded, possible to boulder grade, conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).</li> </ul>
CARBONIFEROUS	<ul style="list-style-type: none"> <li>Pmst Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminitic; upper unit at Maydena Range of interbedded, possible to boulder grade, conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).</li> <li>Puhd This to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with limestone, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Puhdm).</li> <li>Puhdm This to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with limestone, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Puhdm).</li> <li>Ptx Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminitic; upper unit at Maydena Range of interbedded, possible to boulder grade, conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).</li> </ul>
PRE-SILURIAN	<ul style="list-style-type: none"> <li>Pmst Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminitic; upper unit at Maydena Range of interbedded, possible to boulder grade, conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).</li> <li>Puhd This to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with limestone, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Puhdm).</li> <li>Puhdm This to thick-bedded, generally richly fossiliferous marine siltstone and sandstone with limestone, (correlate in part of Deep Bay Formation) (Puhd); metamorphosed by Jurassic dolomite, shown by notable small outcrop (Puhdm).</li> <li>Ptx Dark grey dominantly pebbly diamictite with sparse fragmentary marine fossils, mudstone and laminitic; upper unit at Maydena Range of interbedded, possible to boulder grade, conglomerate, diamictite and sandstone with some shell fossils (correlate of Truro Tillite) (Ptx).</li> </ul>
CAMBRIAN	<ul style="list-style-type: none"> <li>Calc Quartz-rich lithic sandstone and minor conglomerate of metamorphic, volcanic and dolomitic provenance, and mudstone (Calc).</li> <li>Polymict, dominantly mafic and ultramafic-derived conglomerate, lithic sandstone and shale (Calc).</li> </ul>
Inferred unconformity.	

NEO-PROTEROZOIC - EDIACARAN	
WELD RIVER GROUP	<ul style="list-style-type: none"> <li>Pwvg Fine-grained dolostone, diamictite and mudstone (correlate of Cotcase Creek Formation) (Pwv). Predominantly pebbly laminated dolomitic siltstone and mudstone and pale grey dolomitic diamictite (Pwvg).</li> <li>Pwcm Predominantly black mudstone and quartz sandstone (Pwcm).</li> <li>Pwck Predominantly black dolomitic diamictite (Pwck).</li> <li>Pwcd Predominantly massive, fine-grained dolostone (Pwcd).</li> <li>Pwty Dolostone and rare mudstone (Pwt). Dominantly fine-grained dolostone (Pwt); dominantly oolitic grainstone (Pwt); red mudstone (Pwtm).</li> <li>Pwtm Dolostone and rare mudstone (Pwt). Dominantly fine-grained dolostone (Pwt); dominantly oolitic grainstone (Pwt); red mudstone (Pwtm).</li> <li>Pwa Conglomerate, sandstone and minor mudstone (correlate of Annakananda Formation) (Pwa); pebbly laminated siltstone and mudstone at 462738mE, 5240490mN (Pwa).</li> <li>Low-angle unconformity.</li> </ul>
CLARK GROUP	<ul style="list-style-type: none"> <li>Ecmm Mudstone, siltstone and minor dolostone (undifferentiated Humboldt Formation) (Ecmm); dominantly mudstone and quartz siltstone (Ecmm).</li> <li>Pcd Dominantly dolomitic mudstone and siltstone, with minor dolostone and limestone (Pcd).</li> <li>Pcdc Dolomitic mudstone, siltstone and intraclastic conglomerate (Pcdc).</li> <li>Pcq Orthoquartzite (correlate of Needles Quartzite) (Pcq).</li> </ul>

NEO-PROTEROZOIC - PALEOZOIC	
WELD RIVER GROUP	<ul style="list-style-type: none"> <li>Pwvg Fine-grained dolostone, diamictite and mudstone (correlate of Cotcase Creek Formation) (Pwv). Predominantly pebbly laminated dolomitic siltstone and mudstone and pale grey dolomitic diamictite (Pwvg).</li> <li>Pwcm Predominantly black mudstone and quartz sandstone (Pwcm).</li> <li>Pwck Predominantly black dolomitic diamictite (Pwck).</li> <li>Pwcd Predominantly massive, fine-grained dolostone (Pwcd).</li> <li>Pwty Dolostone and rare mudstone (Pwt). Dominantly fine-grained dolostone (Pwt); dominantly oolitic grainstone (Pwt); red mudstone (Pwtm).</li> <li>Pwtm Dolostone and rare mudstone (Pwt). Dominantly fine-grained dolostone (Pwt); dominantly oolitic grainstone (Pwt); red mudstone (Pwtm).</li> <li>Pwa Conglomerate, sandstone and minor mudstone (correlate of Annakananda Formation) (Pwa); pebbly laminated siltstone and mudstone at 462738mE, 5240490mN (Pwa).</li> <li>Low-angle unconformity.</li> </ul>
CLARK GROUP	<ul style="list-style-type: none"> <li>Ecmm Mudstone, siltstone and minor dolostone (undifferentiated Humboldt Formation) (Ecmm); dominantly mudstone and quartz siltstone (Ecmm).</li> <li>Pcd Dominantly dolomitic mudstone and siltstone, with minor dolostone and limestone (Pcd).</li> <li>Pcdc Dolomitic mudstone, siltstone and intraclastic conglomerate (Pcdc).</li> <li>Pcq Orthoquartzite (correlate of Needles Quartzite) (Pcq).</li> </ul>

INTRUSIVE ROCKS	
JURASSIC	<ul style="list-style-type: none"> <li>Jd Dolomite (Jd); dolomite with granophyre and pegmatite (Jdp) indicated. Dolomite of grain size 0.2-6.7mm (Jdv); 0.7-1.5 mm (Jdf); 1.5-3 mm (Jdm); &gt;3 mm (Jdb) indicated.</li> <li>Jdb Dolomite fragmented by periglacial processes (Jdb).</li> <li>Cdi Diorite (Cdi).</li> <li>Ccwa Amphibolite (Ccwa).</li> </ul>
ALTERED ROCKS	
WELD RIVER GROUP	<ul style="list-style-type: none"> <li>Pwtd Boulder lag of silicification products (Pwtd).</li> <li>Pwtds Dolostone of Weld River Group partly or wholly replaced by coarsely crystalline quartz of massive to snowwork fabric. Silicification in part of post-Carboniferous age (Pwtds).</li> </ul>
CONTACTS	
Geological contact	—
Geological contact - inferred	- - - - -
Limit of mapping of sub-unit within undifferentiated rock unit	.....
Limit of detailed mapping	.....
FAULTS	
Fault	— / —
Fault - inferred	- - - / - - -
Fault - concealed	..... / .....
LINEARS	
Moraine ridge crest	.....
Scarp	.....
Lineament - visible on aerial photographs	.....

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

CONTACTS	
Geological contact	—
Geological contact - inferred	- - - - -
Limit of mapping of sub-unit within undifferentiated rock unit	.....
Limit of detailed mapping	.....
FAULTS	
Fault	— / —
Fault - inferred	- - - / - - -
Fault - concealed	..... / .....
LINEARS	
Moraine ridge crest	.....
Scarp	.....
Lineament - visible on aerial photographs	.....

**REFERENCE THIS MAP AS:**  
CALVER, C.R. and FORSYTH, S.M. (compilers) 1997. Digital Geological Atlas 1:25 000 Scale Series, Sheet 4624 Nevada. 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  
GDAS - MGA Zone 55. Contour Interval: 20 metres.

