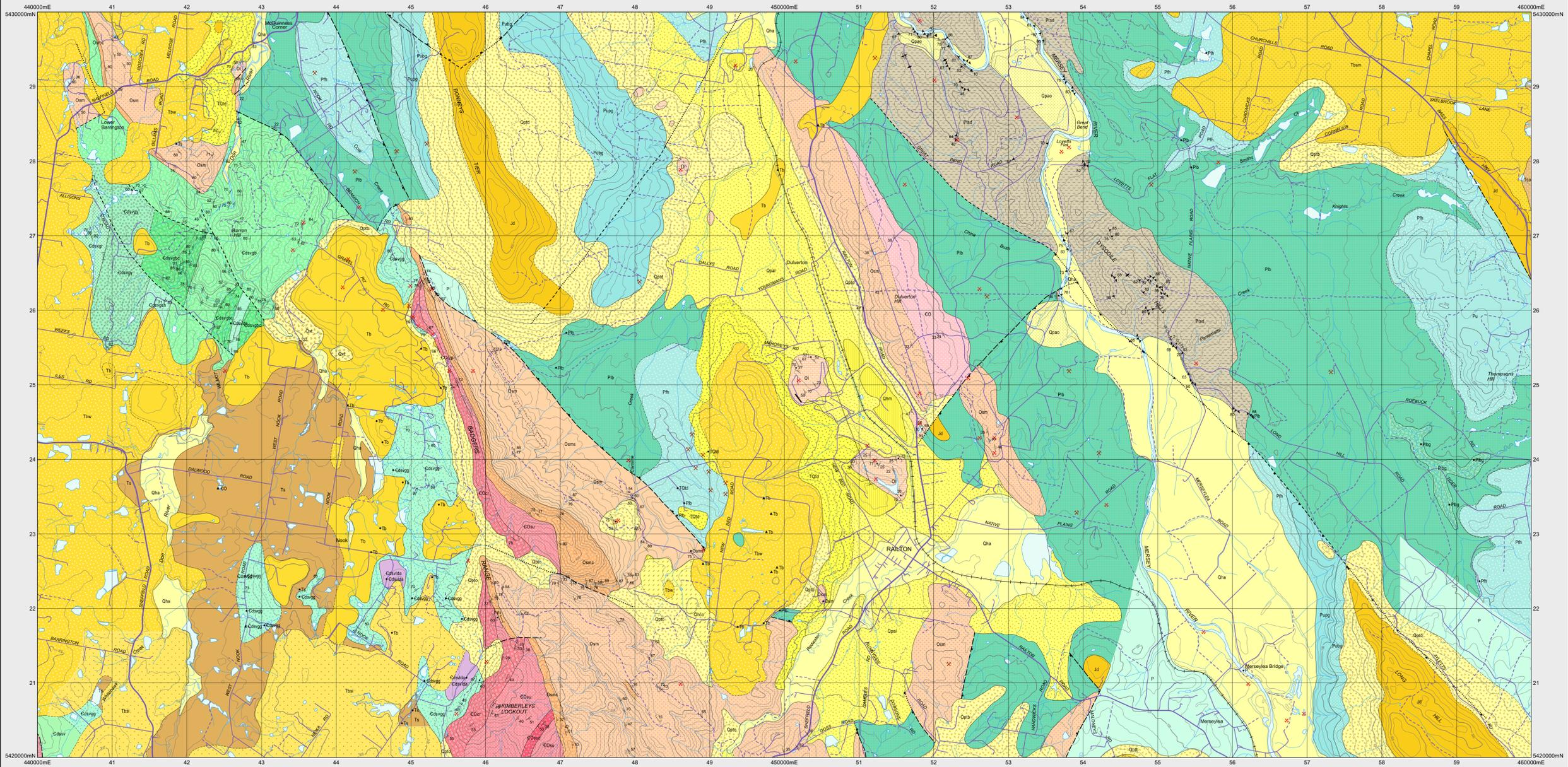


RAILTON

Scale 1:25 000

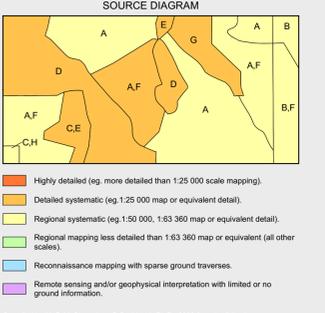


PERIOD	UNIT	DESCRIPTION
CENOZOIC	QUATERNARY	Qhm Undifferentiated Quaternary Sediments (Q). Mine-tailings and man-disturbed ground (Qhm).
		Qha Stream alluvium, swamp and marsh deposits (Qha).
		Qda Landslide deposits derived dominantly from weathered Palaeogene - Neogene rocks (Qda).
		Q Coluvium derived mainly from Owen Group quartz sandstone and conglomerate (Qcol).
		Qopel Clay and alluvial gravel with dolerite boulders in places (Qopel).
	PALEOGENE - NEOGENE	Td Deeply weathered basalt (Td).
		Tb Basalt (Tb).
		Tbim Alkali olivine basalt, deeply weathered in most areas, dated at 25.9 ± 0.246 (Marty's Basalt) (Tbim).
		Tso Sand, quartzite gravel and clay, including interbasalt deposits (Wesley Vale Sand) of Oligocene age (Tso).
		Ts Basalt (Ts).
PALEOZOIC	PERMIAN	Pu Undifferentiated Permian-Carboniferous sediments (P). Upper glaciomarine sequences of pebbly mudstone, pebbly sandstone and limestone (Pu).
		Puug Unlithified pebbly siltstone, siltstone and sandstone (correlate of Bogan Gap Group) (Puug).
		Puag Pebbly sandstone, siltstone and mudstone with marine fossils (correlate of Pezalla Group) (Puag).
		Pu Pu, Puag, Puug - Kelcey Tier Beds; Upper Glaciomarine Sequence.
		P Disconformity.
	CARBONIFEROUS	Ph Quartz sandstone and minor conglomerate, with a middle interval of mudstone, shale and coal seams (Ph - Marsey Coal measures, correlate of Lilly Group, Lower Freshwater Sequence).
		Pb Poorly sorted pebbly mudstone, siltstone and sandstone with marine fossils in places. Tasmantite of shaly fossiliferous basalt and basal conglomerate (Pb); distinctive unit of pebbly quartz sandstone to rounded pebble-cobble/boulder-conglomerate indicated (Pbq).
		Pbq Pebble-cobble/boulder-conglomerate indicated (Pbq).
		Pb Ph, Pbq - Spreyton Beds; Lower Glaciomarine Sequence.
		Angular unconformity.

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	ORDOVICIAN	Oi Massive or thickly bedded, grey, fine-grained limestone, with marine fossils in places (Oi).
		Osmsh Undifferentiated shallow marine - non-marine siliciclastic conglomerate - sandstone sequence - Owen Group / Gordon Group and correlates (Osmsh).
		Osm Siltsone, calcareous siltstone and mudstone, with marine fossils in places (Osm).
		Osmc Granule to pebble conglomerate, purple, pink or white quartzite, locally cross-bedded (Osmc). Dominantly bioturbated quartz siltstone with sparse marine fossils (Osmc).
		Osmc Granule to pebble conglomerate, purple, pink or white, with up to 15% chert clasts (Osmc). (Osmc + Osm + Osm + Osm = Caroline Creek Sandstone; correlate of Moira Sandstone).
	FURCULON	CO Pink quartzite, cross-bedded in places (COsu); quartzite-derived pebble conglomerate (COsu).
		COcu Pale pink quartzite-derived, close-framework pebble conglomerate with minor pink quartzite beds (COcu).
		COcu Pale pink quartzite-derived, close to open-framework, massive pebble-cobble conglomerate with minor pink quartzite beds (Correlate of Roland Conglomerate) (COcu).
		COcu Angular unconformity.
		COcu Angular unconformity.
CAMBRIAN	CAMBRIAN SERIES 3	Cdsvv Dominantly fine-grained ashy volcanoclastic siltstone, with minor black to grey siltstone (Cdsvv).
		Cdsvgs Polymict conglomerate and sandstone, with clasts of mudstone, siltstone, sandstone, carbonate, basalt, chert, quartzite and schist (Cdsvgs).
		Cdsvgs Massive to thick-bedded, dominantly open-framework pebble conglomerate with clasts of Precambrian provenance (quartzite, schist and carbonate) in micaceous quartz sandstone matrix and minor coarse-grained quartz sandstone (Dorr Conglomerate) (Cdsvgs).
		Cdsvgh Interlayered sandstone, shale and conglomerate with clasts of Precambrian provenance (quartzite, schist and minor carbonate), commonly of cobble grade (Cdsvgh).
		Cdsvgh Laminated siltstone and mudstone with minor sandstone (Cdsvgh).
	CAMBRIAN SERIES 1	Cdsvv Dominantly granule to pebble-grade conglomerate with clasts of mudstone, siltstone, volcanic, and minor schist and quartzite (Cdsvv).
		Cdsvgs Dominantly non-volcanic sandstone and siltstone, typically siliceous-micaceous, massive to thin bedded; sparsely pebbly in places (Cdsvgs).
		Cdsvgs Sandstone, siltstone, red mudstone and minor granule-pebble grade conglomerate (Cdsvgs).
		Cdsvgs Pale to dark grey or black, distinctly bedded and plane laminar to massive or brecciated chert with minor red and grey siliceous hematitic mudstone and siltstone (Barrington Chert and correlates) (Cdsvgs).
		Cdsvgs Dominantly quartz-mica schist and foliated micaceous metaquartzite (Pd).

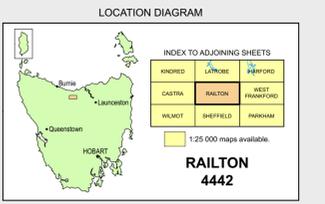
PERIOD	UNIT	DESCRIPTION	
PALEOZOIC	MESOZOIC	CAMBRIAN JURASSIC	Jd Dolerite (Jd).
			Cdsvda Massive felsiparapsyrene phytic dacite to andesite lavas and intrusives (Cdsvda).
PALEOZOIC	MESOZOIC	WESTERN VOLCANIC BELT	CONTACTS
			FAULTS
PALEOZOIC	MESOZOIC	WESTERN VOLCANIC BELT	LINEARS

SYMBOL	DESCRIPTION
Strike and dip of bedding, right way up; overturned; facing unknown.	Strike of vertical bedding.
Horizontal bedding.	Strike and dip of compositional layering.
Strike and dip of cleavage of unspecified type and relative age - dipping, vertical.	Strike and dip of outcrop-scale fault of unspecified type and relative age.
Strike and dip of metamorphic foliation other than cleavage, relative local age S2.	Trend and plunge of minor fold hinge line, relative local age F2; with dip and dip direction of axial surface; vergence distal; dipping.
Strike and dip of metamorphic foliation other than cleavage, relative local age S1.	Trend and plunge of minor fold hinge line, relative local age F3; vergence distal; with vertical.
Strike and dip of metamorphic foliation other than cleavage, relative local age S1.	Strike and dip of metamorphic foliation other than cleavage, parallel to compositional layering; vertical.
Field station for adjacent readings on the map.	Strike and dip of metamorphic foliation other than cleavage, relative local age S1.
Notable small outcrop with rock unit indicated.	Notable small float or lag occurrence with rock unit indicated.
Notable small outcrop with rock unit indicated.	Macrofossil location.
Notable small outcrop with rock unit indicated.	Mineral deposit location - handrock.
Notable small outcrop with rock unit indicated.	Construction material/industrial mineral/gemstone location.



Compiled by M. P. McClenaghan, B.Sc.(Hons), Ph.D., 2003 from the following sources (see source diagram):
 A. JENNINGS, I.B., BURNS, K.L., MAYNE, S.J. and ROBINSON, R.G. 1959. Geological Atlas 1:50 000 Series, Sheet 37 (91155), Sheffield, Tasmanian Department of Mines.
 B. GULLINE, A.B., BRAVO, A.P. and NAZVI, I.H. 1973. Geological Atlas 1:50 000 Series, Sheet 38 (92155), Frankfort, Tasmanian Department of Mines.
 Updated by:
 C. M. King 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmanian Geological Survey Record 2005/05, Mineral Resources Tasmania.
 D. C.R. Calver 2007. 1:25 000 scale geological mapping.
 E. J.L. Everard 2007. 1:25 000 scale geological mapping.
 F. J.L. Everard 2007. Limited traverses.
 G. D.B. Seymour 2007. 1:25 000 scale mapping.
 H. T.M. Porter 1974. Report on EL 1972, Dial Range. CRA Exploration Pty Ltd. TR 74-0092.

REFERENCE THIS MAP AS:
 CALVER, C.R., EVERARD, J.L., MCCLENAGHAN, M.P. and SEYMOUR, D.B. (compilers) 2008. Digital Geological Atlas 1:25 000 Scale Series, Sheet 4442 RAILTON, 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
 GD494 - MGA Zone 55. Contour Interval: 20 metres.



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