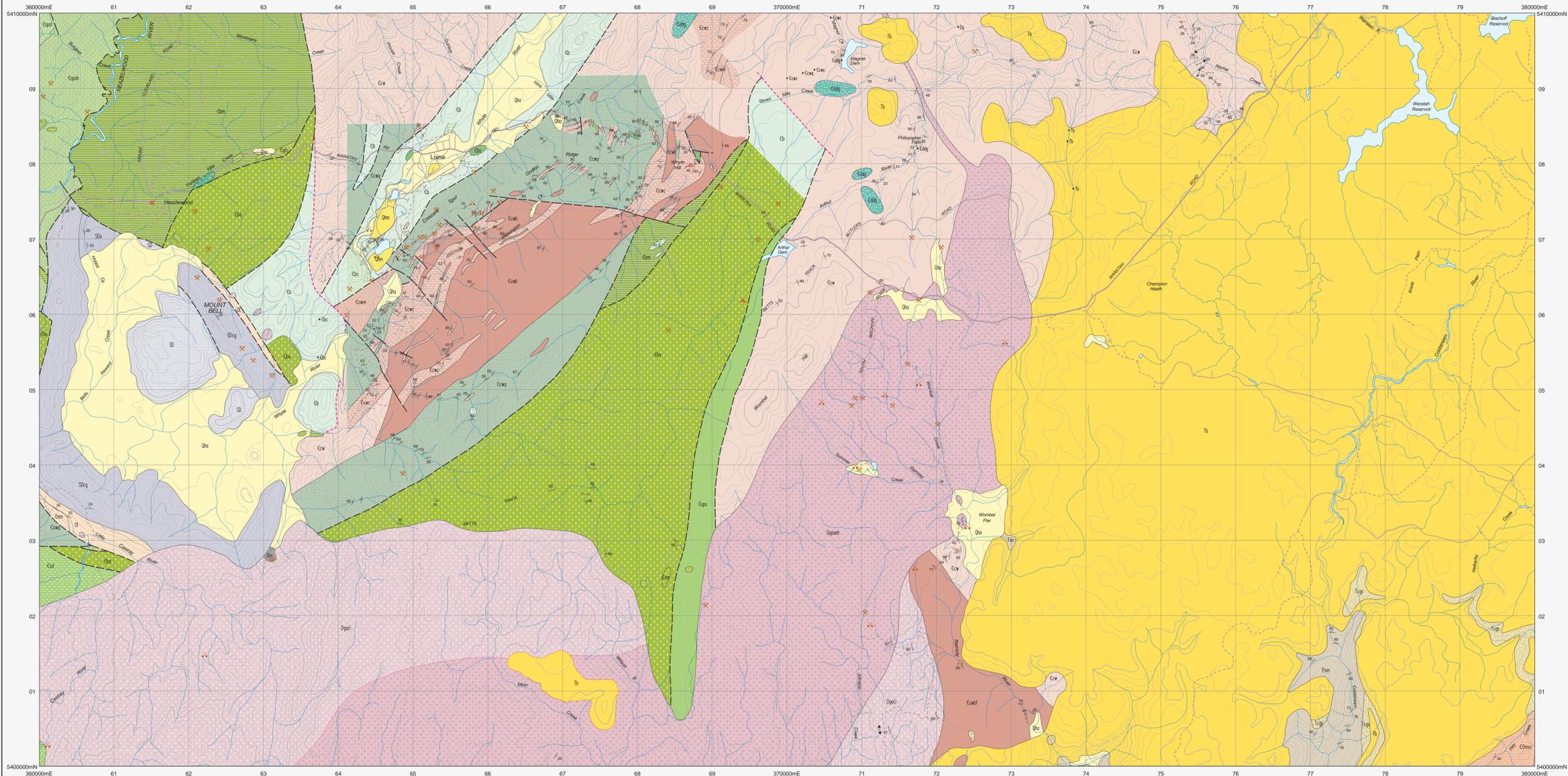


LUINA

Scale: 1:25 000



PERIOD	FORMATION	DESCRIPTION	
CENOZOIC	Quaternary	Qhm Mine tailings and man-disturbed ground (Qhm).	
	Quaternary	Qha Stream alluvium, swamp and marsh deposits (Qha).	
	Paleogene - Neogene	Tsb Basalt (Tb), transitional olivine basalt (Tb); Sand, silt and conglomerate, interbedded with basalt (Tsc); Siliceous conglomerate, grit, occasional fossiliferous sandstone and clay (Tcg).	
	Paleogene - Neogene	Tss Interbedded sand and clay (Tss).	
PALEOZOIC	Permian	SDa Silstone, mudstone and calcareous siltstone (correlate of Amber Formation, including Austral Creek Silstone and Keel Quartzite) (SDa); SDaQ Quartz sandstone with minor mudstone and granite conglomerate (correlate of Crofty Formation) (SDaQ); OI Limestone and impure limestone (correlate of Gordon Group) (OI); Oam Poorly sorted quartz sandstone and minor mudstone (probable correlate of Maina Sandstone) (Oam).	
	Permian	COmsc Marine conglomerate with some sandstone and mudstone (COmsc).	
	Permian	ECw Microaceous quartzose siltstone with interbedded siltstone and mudstone (including Crescent Spur Sandstone) (ECw); ECw Interbedded grey, brown and maroon chert, shale and argillite (ECw).	
	Permian	ECm Volcaniclastic siltstone with interbedded siltstone, mudstone and minor mafic tuff (ECm); ECm Tholeiitic basalt with locally developed pillow and minor interstratified tuff (ECm). (Commonly shows flow basalt indicator (ECm1) (includes Deep Creek Volcanics). (ECm - undifferentiated siltstone, basalt, chert and sedimentary rocks, locally hornfelsed).	
	Permian	ECb Massive and pillowed aphyric basalt flows (low-titanium tholeiite), commonly brecciated, individual flows graded from coarse-grained bases to pillowed tops (ECb); ECb Minor interstratified chert and sedimentary rocks (ECb); (ECb - undifferentiated mafic and ultramafic rocks).	
	Permian	Pom Thinly bedded calcareous siltstone and conglomerate, with minor quartzite and mudstone (correlate of upper Stanth Formation) (Pom).	
	MESO-PROTEROZOIC	Terrestrial/Cambrian	Chp Coarse-grained pyroxenite associated with boninitic lavas (Chp); Cba Massive ultramafic cumulate (Cba); Cgfc Fine to coarse-grained gabbro (Cgfc); Cspah Serpentinized interlayered orthopyroxene, dunite and pyroxene-bearing dunite (Cspah); Cspah Dominantly hornblende, plagioclase hornblende and subordinate dunite, orthopyroxene and plagioclase hornblende (Cspah); Cspah Dominantly plagioclase dunite-hornblende-hercynite, tracholite and minor orthopyroxene (Cspah); Cspah Serpentinized interlayered dunite, hornblende and minor orthopyroxene. (Layered dunite-hornblende succession, LH) (Cspah); Csm Massive serpentinite (Csm); Ctl Tonolite (Ct).
		Devonian	Dm Magnetic skarn (Dm).

PERIOD	FORMATION	DESCRIPTION
DEVONIAN	Dg	Dominantly fine- to medium-grained, equigranular to sparsely porphyritic (quartz K-feldspar and plagioclase) biotite granite, and abundant quartz-tourmaline nodules (Meredith Granite, i-lyth) (Dg); Dg Dominantly fine- to medium-grained, equigranular to sparsely porphyritic (quartz K-feldspar and plagioclase) biotite-micro hornblende-bearing monzogranite (Wombat Flat Granite; i-type) (Dg); Dm
	Dgah	Dolerite and microgabbro (Dgah).
PALEOZOIC	Terrestrial/Cambrian	Chp Coarse-grained pyroxenite associated with boninitic lavas (Chp); Cba Massive ultramafic cumulate (Cba); Cgfc Fine to coarse-grained gabbro (Cgfc); Cspah Serpentinized interlayered orthopyroxene, dunite and pyroxene-bearing dunite (Cspah); Cspah Dominantly hornblende, plagioclase hornblende and subordinate dunite, orthopyroxene and plagioclase hornblende (Cspah); Cspah Dominantly plagioclase dunite-hornblende-hercynite, tracholite and minor orthopyroxene (Cspah); Cspah Serpentinized interlayered dunite, hornblende and minor orthopyroxene. (Layered dunite-hornblende succession, LH) (Cspah); Csm Massive serpentinite (Csm); Ctl Tonolite (Ct).
	Devonian	Dm Magnetic skarn (Dm).

SYMBOL	DESCRIPTION
—	Geological boundary - position approximate.
—	Geological boundary - inferred from airborne magnetic data.
—	Geological boundary - inferred from airborne radiometric data.
---	Fault - position accurate or approximate.
---	Fault - inferred from airborne radiometric data.
---	Thrust fault (teeth on upper plate) - position accurate or approximate.
---	Limit of mapping of sub-unit within undifferentiated rock unit.

SYMBOL	DESCRIPTION
↘	Strike and dip of bedding, facing known - right way up, overturned.
↘	Strike and dip of bedding, facing unknown - dipping, vertical.
↘	Strike and dip of cleavage - dipping, vertical.
↘	Trend and plunge of hinge line of minor fold, with vertical axial surface.
↘	Strike and dip of primary igneous flow banding.
↘	Trend and plunge of hinge line of minor fold, relative local app. T2, with vertical axial surface.
↘	Trend of apparent lineation of K-feldspar phenocrysts on horizontal surface of granitic rock.
↘	Strike and dip of dyke or vein, rock type or mineral unspecified in digital data, vertical.
↘	Mineral deposit location - orebody
↘	Mineral deposit location - alluvial/taillings
↘	Construction material/industrial mineral/gemstone location

Compiled by J.L. Everard, B.Sc.(Hons), 2003 from the following sources (see responsibility diagram)

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K J.L. Everard. New mapping.

L J.L. Everard. Geophysical interpretation and limited ground traverses.

M J.L. Everard. Geophysical interpretation.

N Updated by M.L. Viner, 2004 as part of the Western Tasmanian Regional Minerals Program.

REFERENCE THIS MAP AS:
EVERARD, J.L. (compiler) 2003 Digital Geological Atlas 1:25 000 Series, scale Sheet 3640, Luina, Mineral Resources Tasmania.

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GDAS4 - MGA Zone 55. Contour Interval: 20 metres.



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