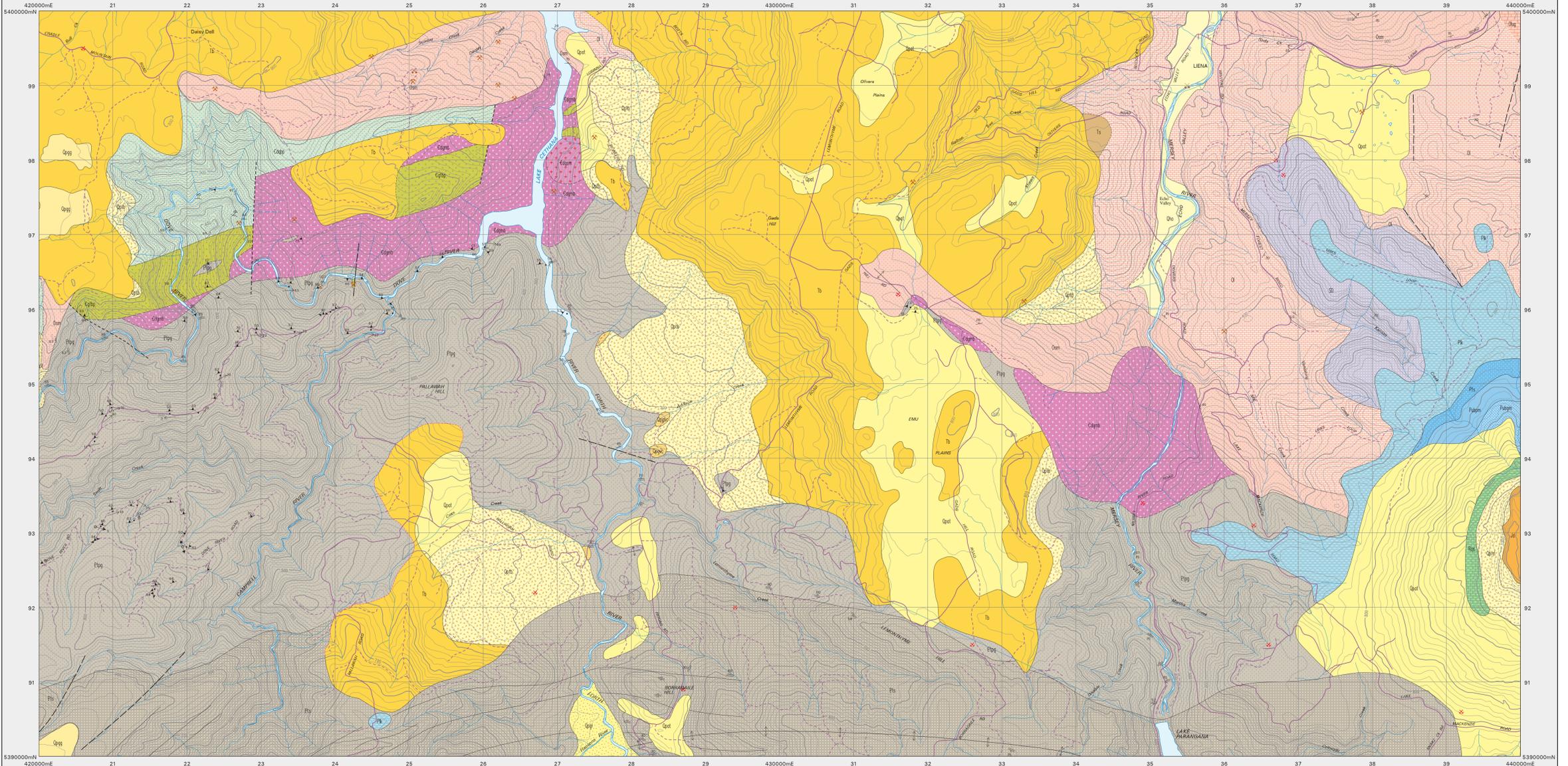


LIENA

Scale: 1:25 000



MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
LIENA, SHEET 4239



PERIOD	UNIT	DESCRIPTION
CENOZOIC	Quaternary	Stream alluvium, swamp and marsh deposits (Qta)
	Pleistocene	Basalt tuffs (Qpt)
		Talus consisting dominantly of diabase boulders (Qptb)
		Till, talus and alluvial gravels (Qpat)
Holocene	Fluvioglacial and lacustrine deposits (Qpg)	
	Varved clay deposits (Qpvg)	
	Glacial and glaciogenic deposits (Qpgg)	
MESOZOIC	Triassic	Basalt (Tb)
		Undifferentiated Tertiary sediments, dominantly non-marine sequence of quartz sand, silt, clay and regolith (Ts)
	Jurassic	Cross bedded quartz sandstone, feldspathic sandstone and shale (Rqs)
		Carbonaceous sandstone and shale with plant fossils (Jockey Formation) (PcJf)
Permian	Unfossiliferous pebbly siltstone, siltstone and sandstone (correlate of Bogan Gap Group but including the Garcia Sandstone) (Pugm)	
	Sandstone, mudstone and pebbly mudstone with mafic basalt (correlate of Plover Group but excluding the Garcia Sandstone) (Ppgr)	
PALEOZOIC	Carboniferous	Dominantly well-sorted quartz sandstone, normally cross-bedded or laminated and commonly with interbedded and isolated carbonaceous shale, lesser conglomerate and rare coal (Lilley Sandstone) (Pfs)
		Interbedded conglomerate, pebbly sandstone and siltstone, and richly fossiliferous limestone (Kingsas Creek beds) (Pks)
	Devonian	Quartz sandstone, laminated siltstone and shale (S0)
		Interbedded micrite and slightly dolomitic micrite with basal calcarenite (Sossages Creek Formation) (Osc)
Ordovician	Dark grey limestone, dolomite, calcareous mudstone and minor quartz sandstone, in part fossiliferous (correlate of Gordon Group) (Og)	
	Light grey to white, commonly cross-bedded quartz sandstone, coarse and pebbly towards base with tubular trace fossils in upper sequences (correlate of Malin Sandstone) (Osm)	

PERIOD	UNIT	DESCRIPTION
PROTEROZOIC	Mesoproterozoic	Interbedded pale grey vitric (+/- crystals) epiclastic siltstone and sandstone with dark grey cherty siltstone. Some mass flow deposits (Book Pool Beds) (Cdpp)
		Dominantly quartzite (Pqs)
	Palaeoproterozoic	Fine-coarse-grained, often thinly bedded, pelitic, garnetiferous, quartz-mica schist, commonly containing phengite, amonite, albite and chlorite. Relatively high metamorphic grade (Pfg)
MESOZOIC	Mesozoic	Dolerite and related rocks (ds)
		Quartz-feldspar +/- biotite +/- hornblende porphyry (Cqfbp)
	Granite	Fine-grained, isomorphous, equi-granular biotite +/- hornblende-bearing monzo-granite (Cqgm)
Palaeozoic	Medium-grained hypidiomorphic equi-granular muscovite-bearing syeno-granite, strongly silica and sericite altered (Edgsm)	

BOUNDARY TYPE	SYMBOL	DESCRIPTION
Geological boundary - position accurate or approximate	Solid line	Geological boundary - position accurate or approximate.
Geological boundary - inferred	Dashed line	Geological boundary - inferred.
Geological boundary - inferred from airborne radiometric data	Dotted line	Geological boundary - inferred from airborne radiometric data.
Unconformable boundary - position accurate or approximate	Long-dashed line	Unconformable boundary - position accurate or approximate.
Intrusive boundary - position accurate or approximate	Short-dashed line	Intrusive boundary - position accurate or approximate.
Lineament visible on aerial photographs	Thin solid line	Lineament visible on aerial photographs.
Fault - position accurate or approximate	Thick solid line	Fault - position accurate or approximate.
Fault - inferred	Thin dashed line	Fault - inferred.
Axial surface trace of major antiform	Line with outward-pointing ticks	Axial surface trace of major antiform.
Axial surface trace of major synform	Line with inward-pointing ticks	Axial surface trace of major synform.
Limit of mapping of sub-unit within undifferentiated rock unit (colour boundary)	White line	Limit of mapping of sub-unit within undifferentiated rock unit (colour boundary).

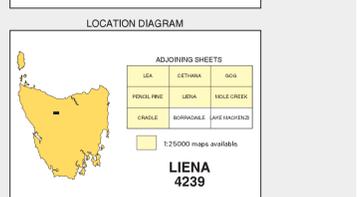
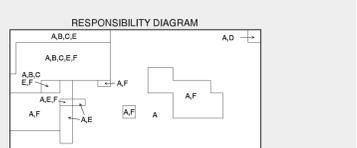
- Strike and dip of bedding, facing unknown; vertical.
- Strike and dip of compositional layering, vertical.
- Strike and dip of cleavage of unspecified type and relative age.
- Strike and dip of metamorphic foliation other than cleavage.
- Strike and dip of metamorphic foliation other than cleavage, relative local age S1, S2.
- Trend and plunge of mineral elongation lineation.
- Horizontal lineation L2 formed by intersection of cleavages or foliations of relative local ages S1 and S2.
- Trend and plunge of crenulation lineation.
- Trend and plunge of minor fold hinge line, unspecified relative age.
- Trend and plunge of minor fold hinge line, unspecified relative age, vergence indicated.
- Trend and plunge of minor fold hinge line, relative local age F1.
- Mineral deposit location - hardrock
- Mineral deposit location - alluvial
- Construction materials location

Compiled by M.J. Vicary, 2004 as part of the Western Tasmania Regional Minerals Program. From the following sources (See Responsibility Diagram):
A. JENKINGS, I.B. and BURNS, K.L. 1958. Geological atlas 1 mile series. Zone 7 Sheet 45. Melbourne, Tasmania Department of Mines.
B. HERPMANN, W. 1989. Notes on Reconnaissance Stream Sediment Sampling in the Malin Limestone Area, 3011 Tasmania. REC Exploration Pty Ltd. Appendix P in TCR 88-303B.
C. AUSTIN, G., SERRIN, S. and WALSHAM, B.T. 1973. Exploration for Porphyry Copper, the Devon Granite area, Tasmania. Preliminary Report Council Mynors and Associates Pty Ltd, Freepost of Australia Incorporated. TCR 73-0477.
D. BURRETT, C., BANKS, M., CLOTA, G. and SEYMOUR, D. 1989. Lithostratigraphy of the Devonian-Gordon Group, Malin Creek Tasmania. Rec. Queen Victoria Museum, No. 96.
E. Air photograph and WTRMP geophysical data interpretation by M. Vicary.
Updated by:
F. I.C. Owen, 2007 as part of the TasExplore Project.

REFERENCE THIS MAP AS:
VICARY, M.J. (Compiler) 2004. Digital Geological Atlas 1:25000 series, sheet 4239 Liena, Mineral Resources Tasmania.

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A0166 - AMG Zone 55. Contour Interval: 20 metres.
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