Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

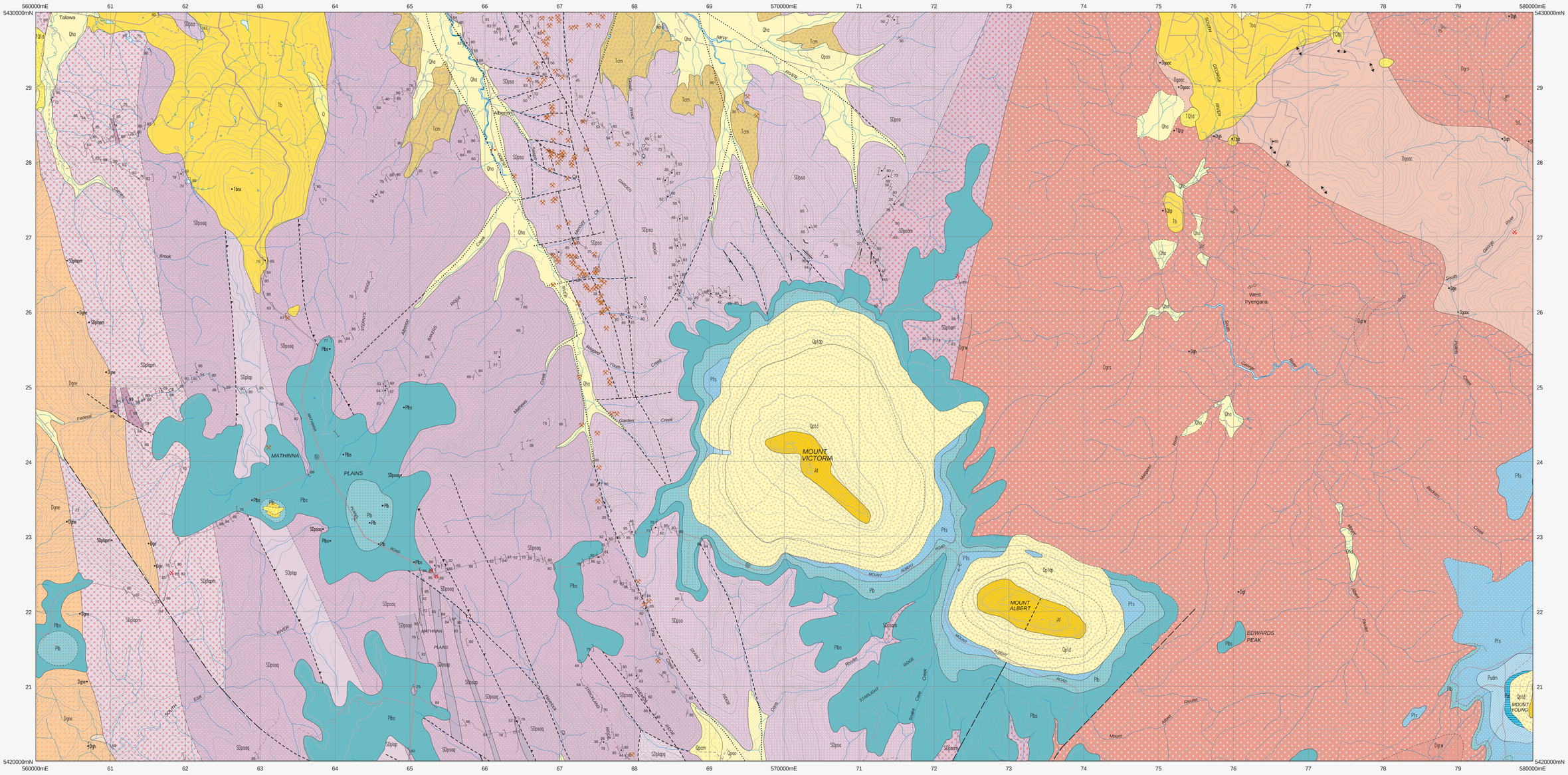
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
VICTORIA, SHEET 5642

VICTORIA

Scale: 1:25 000

0 500 1000 1500 2000 2500m

Tasmania
Explore the possibilities



CENOZOIC

QUATERNARY

HOLOCENE

- **Qha** — *Undifferentiated deposits (Q). Stream alluvium, swamp and marsh deposits (Qha).*

PLEISTOCENE (Q)

- **Qptd / Qptdp** — *Talus consisting dominantly of dolerite boulders (Qptd). Talus consisting of dominantly dolerite and subordinate Lower Parmeener rocks (Qptdp).*
- **Qptg** — *Talus of dominantly granitic boulders (Qptg).*
- **Qpao** — *Older alluvium of river terraces (Qpao).*
- **Qpcm** — *Colluvium derived from Mathinna Supergroup (Qpcm).*

PALEOGENE – NEOGENE

- **TQtd / TQtp** — *Probably older boulder deposits consisting of dominantly dolerite (TQtd); consisting dominantly of Lower Parmeener conglomerate and sandstone (TQtp).*
- **Tb** — *Basalt (Tb); with local occurances of: alkali basalt (Tba), basanite (Tbb); olivine nephelinite with lherzolite nodules (Tbnx).*
- **Tcm** — *Conglomerate with rounded clasts of Mathinna Supergroup and very rare weathered dolerite, often partially cemented by iron oxides (Tcm).*

Unconformity.

PALEOZOIC

PERMIAN

- **Pue** — *Marine fossiliferous mudstone, siltstone and minor sandstone and bioclastic limestone (Pue).*
- **Puf** — *Fine-grained pebbly sandstone with phosphatic nodules. Marine fossils present in some areas (Puf). (Puf: Fonthill Sandstone Member).*
- **Pudm** — *Mudstone, siltstone and minor poorly sorted sandstone. Uncommon marine fossils (Pudm).*
- **Pfs** — *Dominantly well-sorted quartz sandstone usually cross-bedded or laminated and commonly with interbedded and laminated carbonaceous shale, lesser conglomerate and rare coal (Pfs).*
- **Pfb** — *Poorly sorted pebbly mudstone, sandstone and minor conglomerate, marine fossils present in places (Pfb).*
- **Pfbs** — *Dominantly thick-bedded to massive, medium- to coarse-grained quartz sandstone and minor conglomerate (Pfbs).*

Unconformity

SILURIAN(?) – DEVONIAN

LUDLOW(?) – LOWER DEVONIAN

- **SDpsa** — *Dominantly medium- to fine-grained turbiditic quartz-rich sandstone with interbedded siltstone. Rare vascular plant fossils (SDpsa); contact metamorphosed by granitic intrusion (SDpsam).*
- **SDpsaq** — *Lower sequence of interbedded medium- to fine-grained turbiditic quartz-rich sandstone and siltstone (SDpsaq). Mappable siltstone horizon within SDpsa (SDpsap). (SDpsa, SDpsam, SDpsaq, SDpsap – possible correlates of Sideling Sandstone).*
- **SDplap** — *Thin-bedded siltstone with minor quartz-rich sandstone (SDplap); contact metamorphosed by granitic intrusion (SDplapm). Interbedded thin-bedded siltstone and fine-grained quartz-rich sandstone (SDplaqp). Mappable meta-quartzite unit within SDplapm (SDplaqm). (SDplap, SDplaqm, SDplaqm, SDplapq – possible correlates of Lone Star Siltstone).*

Pue, Puf, Pudm, Pfs, Pfb, Pfbs	CASTLE CAMPBELL MUDSTONE; ABERFOYLE FORMATION; STRICKLAND CONE FORMATION	LOWER PARMEENER SUPERGROUP
SDpsa, SDpsam, SDpsaq, SDpsap, SDplap, SDplapm, SDplaqm, SDplqm, SDplqp	PANAMA GROUP	MATHINNA SUPERGROUP

IGNEOUS ROCKS

MESOZOIC – CENOZOIC

PALEOGENE – NEOGENE

- **Tb** — *Basalt (Tb); with local occurances of: alkali basalt (Tba), basanite (Tbb); olivine nephelinite with lherzolite nodules (Tbnx).*

JURASSIC

- **Jd** — *Dolerite (Jd).*

PALEOZOIC

MINOR GRANITIC INTRUSIONS

- **Dgh** — *Aplite (Dgh).*
- **Dge** — *Aplitic granite (Dge).*
- **Dgf** — *Quartz-feldspar porphyry (Dgf).*

SCOTTSDALE BATHOLITH

DEVONIAN – MIDDLE DEVONIAN

- **Dgae** — *Medium- to coarse-grained, dominantly equigranular, leucocratic biotite syenogranite/monzogranite with pale pink feldspars (Dgae) (marginal phase of Tombstone Creek Granite, I-type).*
- **Dgne** — *Coarse- to very coarse-grained, equigranular, biotite +/- hornblende, monzogranite/granodiorite with pink to white feldspars (Dgne) (Russells Road Granite; I-type).*

BLUE TIER BATHOLITH

DEVONIAN – LOWER DEVONIAN

- **Dgaoc** — *Coarse-grained, porphyritic (K-feldspar) to equigranular, biotite-muscovite monzogranite (Dgaoc) (Poimena Granite, I-type).*
- **Dgrs** — *Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite and subordinate biotite granodiorite. Locally with a strong grain foliation. Variably but usually strongly magnetic (susceptibility typically .002 to .008 SI) (Dgrs).*
- **Dgrw** — *Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite and subordinate biotite grandiorite. Locally with a strong grain foliation. Weakly magnetic (susceptibility < .0005 SI) (Dgrw). (Dgrs, Dgrw – Pyengana Granodiorite; I-type).*

- *Geological boundary – position accurate or approximate.*
- *Geological boundary – inferred.*
- *Geological boundary – transitional.*
- *Fault – position accurate or approximate.*
- *Fault – inferred.*
- *Fault – concealed.*
- *Thrust fault (teeth on upper plate) – position accurate or approximate*
- *Thrust fault (teeth on upper plate) – inferred.*
- *Strike-slip fault (sinistral) – position accurate or approximate.*
- *(white line) Limit of mapping of sub-unit within undifferentiated rock unit.*

- *Strike and dip of bedding – right way up; facing unknown; vertical.*
- *Horizontal bedding.*
- *Strike and dip of cleavage of unspecified type and relative age; vertical.*
- *Generalised palaeocurrent direction, showing sense of movement.*
- *Trend and plunge of intersection of bedding and primary cleavage.*
- *Strike and dip of kink band with sense of displacement viewed down plunge; sinistral.*
- *Strike of vertical kink band: dextral.*
- *Trend and plunge of minor fold hinge line, unspecified relative age.*
- *Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granitic rock.*
- *Trend of preferred orientation of K-feldspar phenocrysts in granitic rock.*
- *Strike and dip of foliation due to alignment of hornblende and/or biotite in granitic rock; vertical.*
- *Trend of preferred orientation of hornblende and/or biotite in granitic rock.*
- *Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified.*
- *Strike and dip of dominant joint set.*
- *Strike and dip of dyke or vein; vertical.*
- *Notable small outcrop with rock unit indicated*
- *Notable small float or log occurrence, with rock type indicated.*
- *Field station for adjacent readings on the map.*
- *Fossil location.*
- *Mineral deposit location – hardrock*
- *Mineral deposit location – alluvial/tailings*
- *Construction material/industrial mineral/gemstone location*

Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by M.P. McClenaghan, B.Sc.(Hons), Ph.D., 1994 from the following sources (see responsibility diagram):

A McCLENAGHAN, M.P.; EVERARD, J.L.; GOSCOMBE, B.D.; FINDLAY, R.H.; CALVER, C.R. 1993. Geological Atlas 1:50 000 series, sheet 40 (B4155). Alberton. Department of Mines, Tasmania.

Updated by:

B M.J. Vicary, 2008–2010. Limited geological traverses and interpretation of airbourne geophysical data as part of the TasExplore Project.

C PATISON, N.L. 1999. Geology of the Cashs Gorge/Ralphs Falls area, NE Tasmania. B.Sc.(Hons) thesis, University of Tasmania.

D A.R. Reed, 2004. Unpublished geological mapping, Mineral Resources Tasmania.

REFERENCE THIS MAP AS:

VICARY, M.J. and McCLENAGHAN, M.P. 2010. Digital Geological Atlas 1:25 000 Scale Series. Sheet 5642. Victoria. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.

GDA94 – MGA Zone 55. Contour Interval: 20 metres.

GDA

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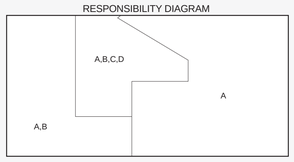
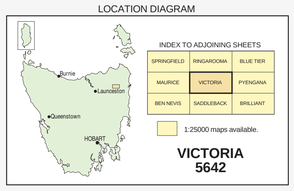
RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



Plotfile for this map generated from digital data as at: 02-AUG-2011

WARNING: INKS ARE LIGHT SENSITIVE