Department of State Growth
MINERAL RESOURCES TASMANIA

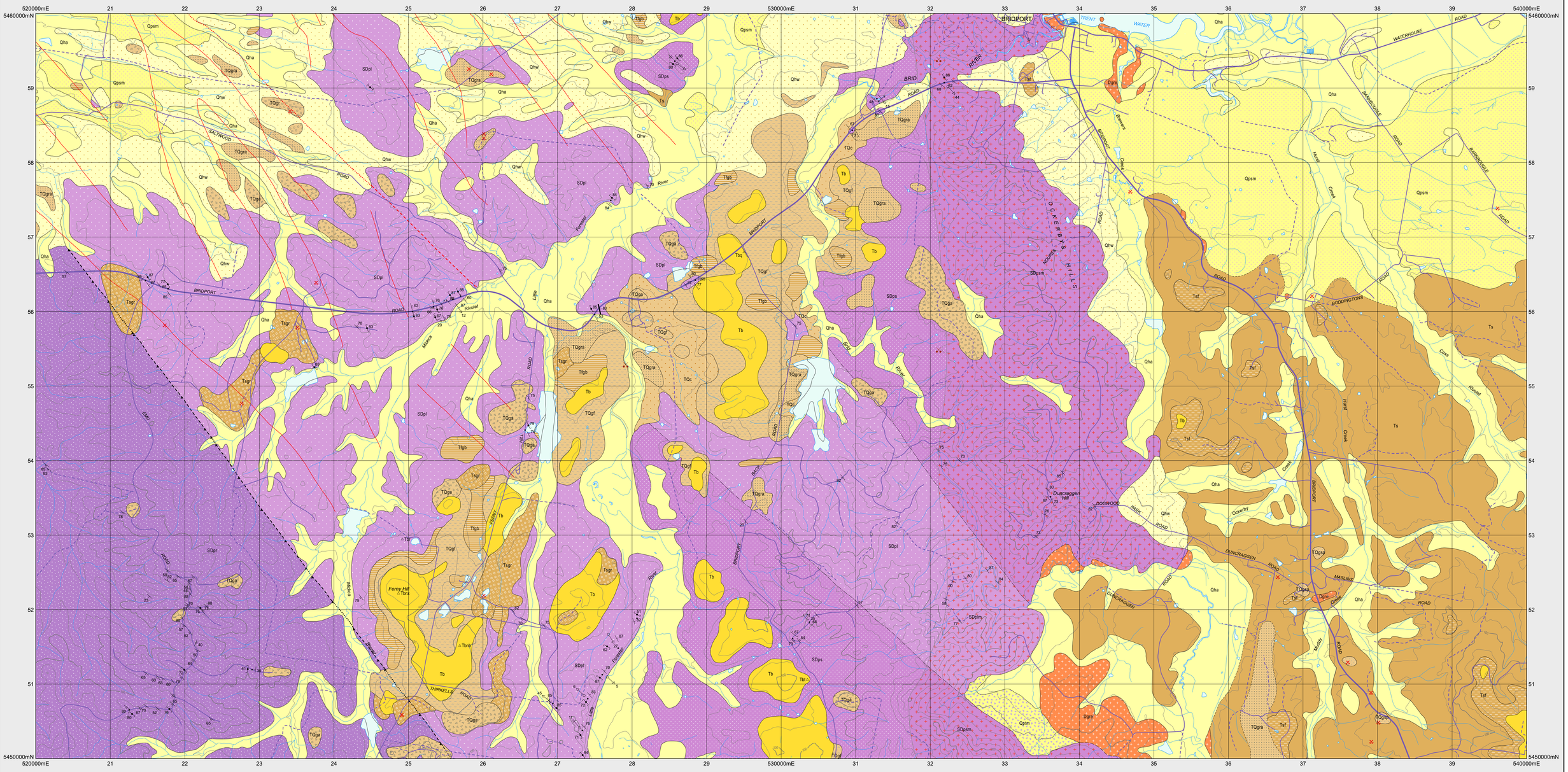
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
BOWOOD, SHEET 5245

BOWOOD

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

QUATERNARY

HOLOCENE

- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qhd** — *Dune sand (Qhd).*
- **Qhw** — *Windblown sand (Qhw).*

PLEISTOCENE ?

- **Qptm** — *Mathinna Group talus (Qptm).*
- **Qpsm** — *Marine terrace deposits of gravel, sand, clay, shells and organic material (Qpsm).*

? — PALEOGENE - NEOGENE

- **TQc** — *Silt and clay with occasional pebbles (TQc).*
- **TQga** — *Angular gravel mainly vein quartz (TQga).*
- **TQgr** — *Rounded gravel, mainly vein quartz (TQgr).*
- **TQgra** — *Rounded and angular gravel, mainly vein quartz (TQgra).*
- **TQgf** — *Ferruginous, pisolitic gravel with ironstone blocks (TQgf).*
- **TQgsp** — *Quartz granule sand with pebbles (TQgsp).*
- **Ts** — *Conglomerate, gravel, sand, silt, mud and clay (Ts).*
  - **Tb** — *Basalt (Tb).*
  - **Tsf** — *Sands and gravels cemented by iron oxides (Tsf).*
  - **Tsgr** — *Rounded gravel, mainly vein quartz (Tsgr).*
  - **Tfgb** — *Grey-billy and silcrete (Tfgb).*

~~~~~~~~~~~ *Unconformity*

PALEOZOIC

SILURIAN — DEVONIAN

LOWER DEVONIAN

- **SDps** / **SDpsm** — *Dominantly fine-grained turbiditic quartz-rich sandstone, with some interbedded siltstone; contains vascular plant fossil fragments (SDps). Metamorphosed by granitic intrusion (SDpsm). (SDps, SDpsm: Sideling Sandstone).*

LUDLOW

- **SDpl** / **SDplm** — *Dominantly thin-bedded siltstone, with interbedded fine-grained quartz-rich sandstone increasing towards top; contains Silurian (Ludlow) graptolites (SDpl). Metamorphosed by granitic intrusion (SDplm). (SDpl, SDplm: Lone Star Siltstone).*
- **SDpr** — *Interbedded turbiditic medium- to very fine-grained quartz-rich sandstone and subordinate siltstone-mudstone. (Retreat Formation) (SDpr).*

PANAMA GROUP — MATHINNA SUPERGROUP

IGNEOUS ROCKS

CENOZOIC — PALEOGENE - NEOGENE

- **Tb** — *Basalt (Tb); quartz tholeiite (Tbq), olivine tholeiite (Tbt) transitional olivine basalt (Tbr); nepheline hawaite (Tbnh); olivine nephelinite with lherzolite xenoliths (Tbnx) indicated.*

PALEOZOIC — DEVONIAN — MIDDLE DEVONIAN

- **Dgre** — *Medium- to coarse-grained, equigranular, biotite-hornblende granodiorite (Dgre) (Diddleum Granodiorite; I-type).*

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Transitional geological contact.*
- *Unconformable lithological contact.*
- *Metamorphic contact.*
- *Igneous intrusive contact.*

FAULTS

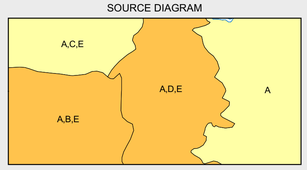
- *Fault - inferred from magnetic data.*
- *Fault - concealed, inferred from magnetic data.*
- *Thrust fault (teeth on upper plate) - inferred.*
- *Thrust fault (teeth on upper plate) - concealed.*

LINEARS

- *Lineament - visible in magnetic data.*

- *Strike and dip of bedding; facing known; overturned; facing unknown; vertical, facing unknown.*
- *Strike and dip of cleavage; type and relative age unspecified; penetrative cleavage; vertical penetrative cleavage.*
- *Trend and plunge of minor fold hinge line, unspecified relative age, with dip and dip direction of axial surface; with dextral vergence.*
- *Trend and plunge of minor antiform, relative local age F_1.*
- *Trend and plunge of bedding/primary cleavage intersection lineation (L$_i$).*
- *Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified.*
- *Field station for adjacent readings on the map.*
- *Notable small outcrop or float/lag occurrence with rock unit indicated.*
- *Mineral deposit location - alluvial/tailings.*
- *Construction material/industrial mineral/gemstone location.*

SOURCE DIAGRAM



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

Compiled by M.P. McClenaghan, B.Sc.(Hons), Ph.D. 1995 from the following sources (see source diagram):

A MARSHALL, B., BARTON, C.M., JENNINGS, D.J. and NAQVI, I.H. 1965. Geological Atlas 1:63 360 Series. Sheet 31 (8515N) Pipers River. Tasmania Department of Mines.

Updated by:

B D.B. Seymour 2008-2009: Stratigraphic revision and re-mapping of Mathinna Supergroup supported by interpretation of airborne geophysical data, as part of the TasExplore Project, Mineral Resources Tasmania.

C D.B. Seymour 2008-2009: Stratigraphic re-assignment of Mathinna Supergroup supported by interpretation of airborne geophysical data, as part of the TasExplore Project, Mineral Resources Tasmania.

D M.P. McClenaghan 2008-2009: Stratigraphic revision and re-mapping of Mathinna Supergroup supported by interpretation of airborne geophysical data, as part of the TasExplore Project, Mineral Resources Tasmania.

E SEYMOUR, D.B.; WOOLWARD, I.R.; McCLENAGHAN, M.P.; BOTTRILL, R.S. 2011. Stratigraphic revision and re-mapping of the Mathinna Supergroup between the River Tamar and the Scottsdale Batholith, northeast Tasmania. 1:25 000 Scale Digital Geological Map Series. Explanatory Report 4.

REFERENCE THIS MAP AS:

SEYMOUR, D.B. and McCLENAGHAN, M.P. 2010. Digital Geological Atlas 1:25 000 Scale Series. Sheet 5245 Bowood. 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

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

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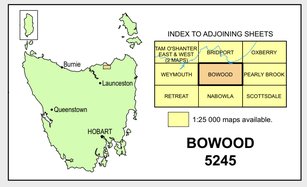
LOCATION DIAGRAM



Map generated: 14-NOV-2023

WARNING: INKS ARE LIGHT SENSITIVE.
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