Department of State Growth
MINERAL RESOURCES TASMANIA

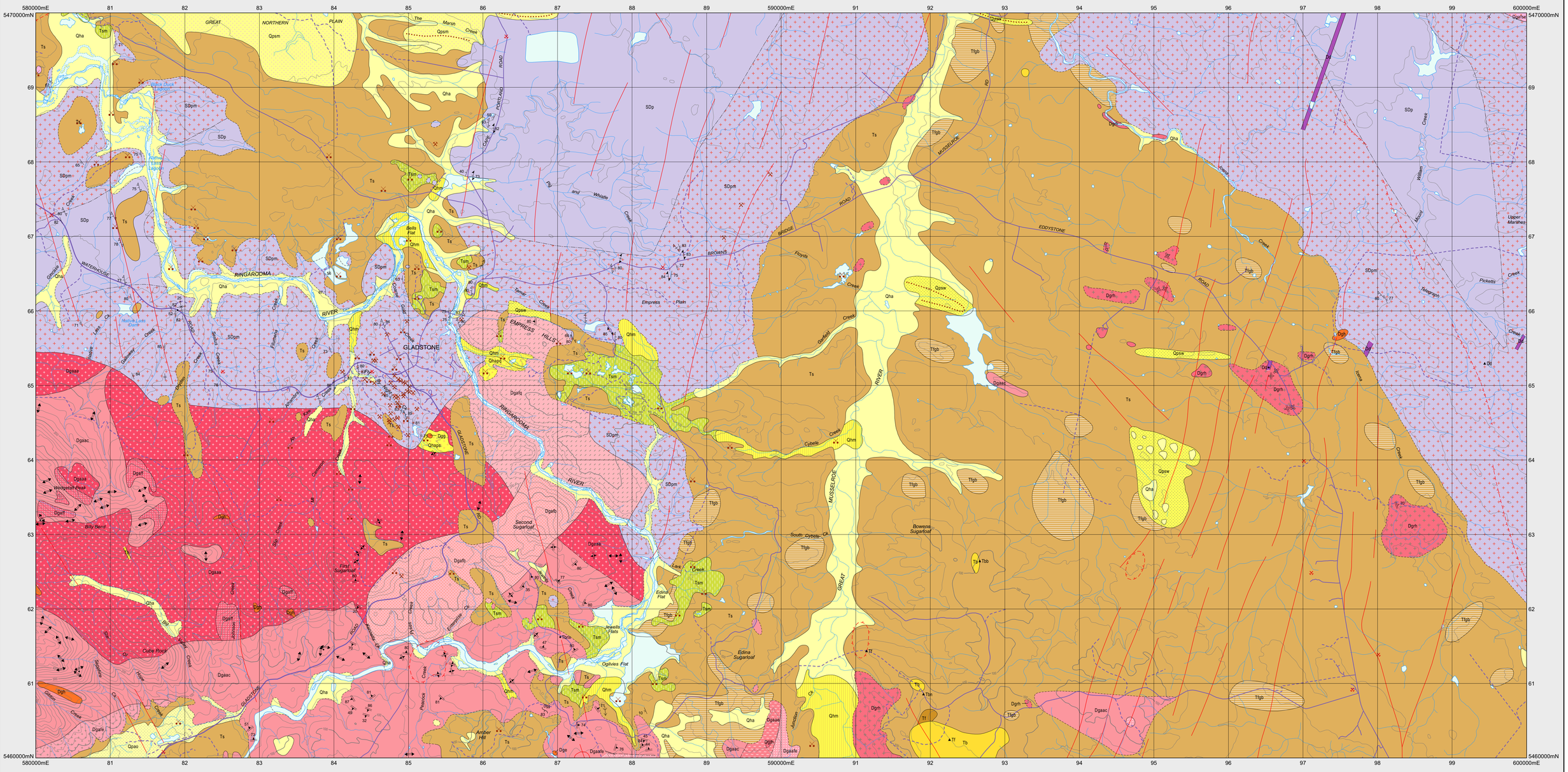
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
GLADSTONE, SHEET 5846

GLADSTONE

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

QUATERNARY

- **Qhm** — *Mine tailings and man disturbed ground (Qhm).*
- **Qhapq** — *Man disturbed granitoid (Qhapq) derived from Dgafq.*
- **Qhaps** — *Man disturbed granitoid (Qhaps) derived from Dgaaa.*
- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qpao** — *Older alluvium of river terraces (Qpao).*
- **Qpsw** — *Older aeolian dune sand (Qpsw).*
- **Qpsm** — *Marine terrace deposits of gravel, sand, clay, shells and organic material (Qpsm).*

PALEOGENE - NEOGENE

- **Ts** — *Gravel, sand, silt and clay (Ts).*
  - **Tsm** — *Gravel, sand, silt and mud disturbed by mining (Tsm).*
  - **Tb** — *Basalt (Tb).*
  - **Tfgb** — *Grey-billy and silcrete (Tfgb).*
  - **Tf** — *Ferricrete (Tf).*

PALEOZOIC

SILURIAN(?) - DEVONIAN

- **SDp / SDpm** — *Undifferentiated Panama Group sandstone, siltstone and mudstone, primarily turbiditic in origin (SDp); Metamorphosed by granitic intrusion (SDpm).* — MATHINNA SUPERGROUP

IGNEOUS ROCKS

CENOZOIC — PALEOGENE - NEOGENE

- **Tb** — *Basalt (Tb); basanite (Tbb), olivine nephelinite (Tbn), olivine nephelinite with lherzolite nodules (Tbnx) indicated.*

DEVO-NIAN(?)

- **Dd** — *Dolerite dykes (Dd).*

MINOR GRANITIC INTRUSIONS

- **Dgh** — *Aplite (Dgh). Greisen (Dgg). Aplitic granite (Dge).*

EDDYSTONE BATHOLITH

- **Dgafse** — *Medium-grained equigranular, biotite-muscovite alkali feldspar granite (Dgafse) (Mt William Granite; S-type).*
- **Dgaasf** — *Fine- to coarse-grained porphyritic, garnet-bearing biotite-muscovite syenogranite/alkali feldspar granite (Dgaasf) (Boobyalla Granite; S-type).*

BLUE TIER BATHOLITH

PALEOZOIC — DEVONIAN

UPPER(?) DEVONIAN

- **Dgafq** — *Fine- to medium-grained, porphyritic (feldspar and rounded quartz), biotite-muscovite alkali feldspar granite/syenogranite (Dgafq).*
- **Dgafb** — *Medium-grained equigranular biotite-muscovite granite (Dgafb).*
- **Dgafe** — *Fine- to coarse-grained equigranular biotite-muscovite alkali feldspar granite/syenogranite (Dgafe) (Dgafq, Dgafb, Dgafe - includes Mt Cameron Granite; I-type).*

MIDDLE DEVONIAN

- **Dgaff** — *Fine- to medium-grained, sparsely porphyritic, biotite-minor muscovite monzogranite (Dgaff).*
- **Dgaafe** — *Fine-grained equigranular biotite-muscovite granite (Dgaafe).*
- **Dgaaa** — *Medium- to coarse-grained sparsely porphyritic (K-feldspar) biotite-minor muscovite monzogranite (Dgaaa).*
- **Dgaac** — *Coarse-grained, porphyritic (K-feldspar) to equigranular biotite-minor muscovite monzogranite (Dgaac).*

LOWER DEVONIAN

- **Dgaae** — *Coarse-grained equigranular biotite monzogranite (Dgaae). (Dgaaa, Dgaac, Dgaae, ?Dgaff, ?Dgaafe - Poimena Granite; I-type).*
- **Dgrh** — *Medium- to coarse-grained biotite-hornblende granodiorite (Dgrh) (Gardens Granodiorite; I-type).*

CONTACTS

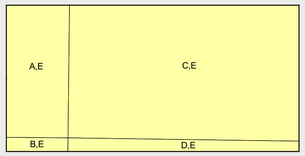
- *Geological contact.*
- *Transitional geological contact.*
- *Unconformable lithological contact.*
- *Unconformable lithological contact - inferred.*
- *Igneous intrusive contact.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*

LINEARS

- *Dune crest.*
- *Lineament - visible in magnetic data.*
- *Magnetic gradient or lineament (direction towards lower values indicated).*

- *Strike and dip of bedding - right way up; overturned.*
- *Strike and dip of bedding, facing unknown; vertical; facing indicated by single tic.*
- *Strike and dip of cleavage, relative local age S_1 - dipping; vertical.*
- *Strike and dip of clevage, relative local age S_2 - dipping; vertical.*
- *Trend and plunge of hingeline of minor synform, unspecified relative age.*
- *Generalised palaeocurrent direction, showing sense of movement.*
- *Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granitic rock - dipping; vertical.*
- *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 - dipping; vertical.*
- *Trend of preferred orientation of hornblende and/or biotite in granitic rock.*
- *Strike and dip of dyke or vein with rock unit indicated.*
- *Field station for adjacent readings on the map.*
- *Notable small outcrop with rock unit indicated.*
- *Notable small float or lag occurrence with rock unit indicated.*
- *Mineral deposit location - hardrock.*
- *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., 1999 from the following sources (see source diagram):

A BAILLIE, P.W., TURNER, N.J. & COX, S.F. 1979. Geological Atlas 1:50 000 series, sheet 24 (8416S), Boobyalla, Tasmania Department of Mines.

B BROWN, A.V., McCLENAGHAN, M.P., MOORE, W.R., TURNER, N.J., McCLENAGHAN, J., WILLIAMS, P.R., BAILLIE, P.W., CORBETT, K.D., CORBETT, E.B., COX, S.F. & GROVES D.I., 1977. Geological Atlas 1:50 000 series, sheet 32 (8415N), Ringarooma, Tasmania Department of Mines.

C BAILLIE, P.W., JENNINGS, D.J., McSHANE, R.F. & WILLIAMS P.R. 1984. Geological Atlas 1:50 000 series, sheet 25 (8516S), Eddystone. Tasmania Department of Mines.

D McCLENAGHAN, M.P. & WILLIAMS P.R. 1983. Geological Atlas 1:50 000 series, sheet 33 (8515N), Blue Tier. Tasmania Department of Mines.

Updated by:

E Geophysical lineaments and minor additional field information added by J.L. Everard, 2010.

REFERENCE THIS MAP AS:

McCLENAGHAN, M.P. 1999. Digital Geological Atlas 1:25 000 Scale Series. Sheet 5846 Gladstone. 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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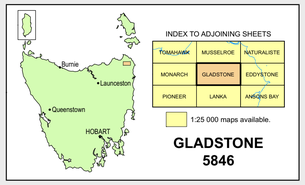
LOCATION DIAGRAM



Map generated: 09-JAN-2024

WARNING: INKS ARE LIGHT SENSITIVE.