Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

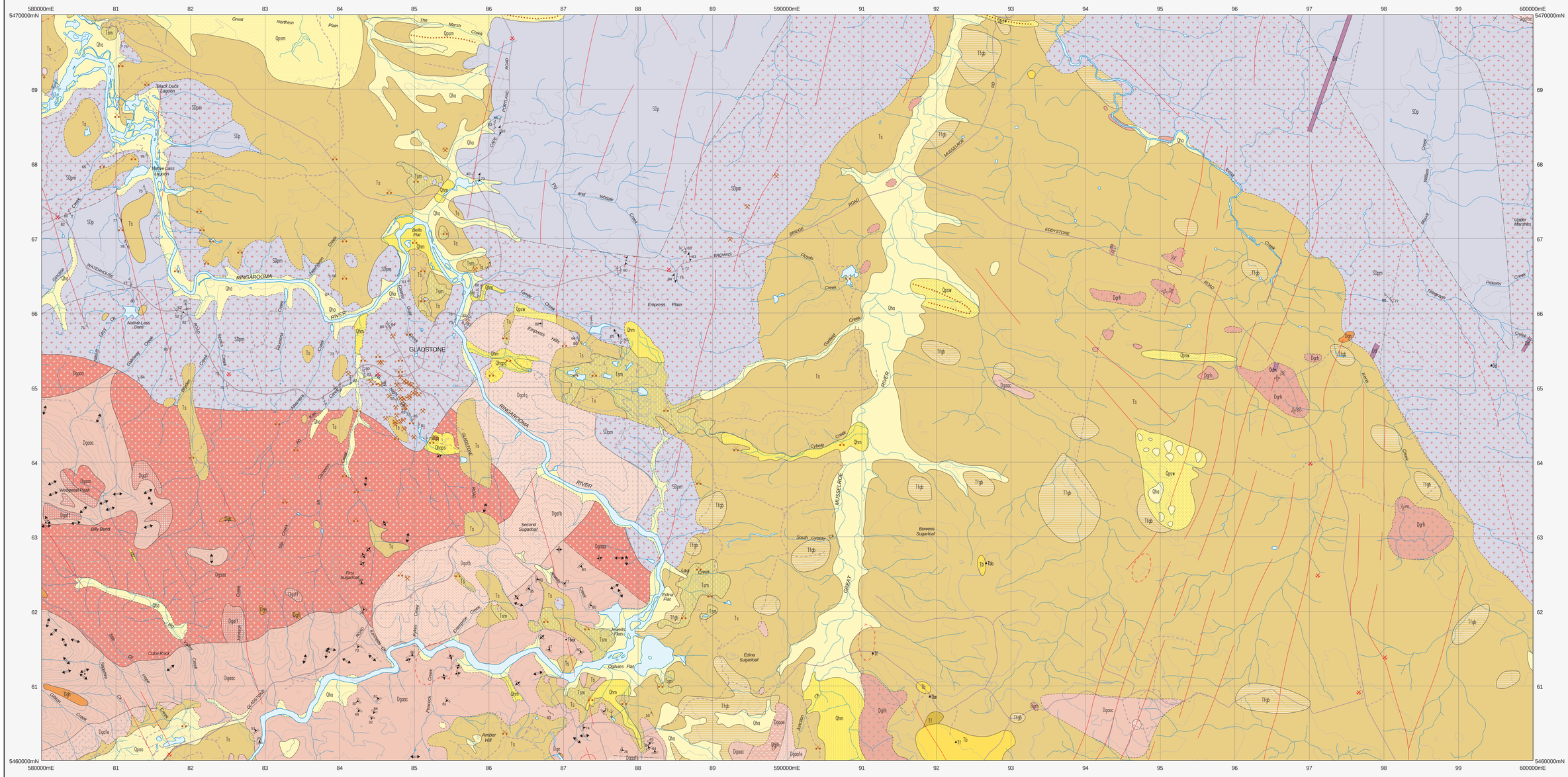
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
GLADSTONE, SHEET 5846

GLADSTONE

Scale: 1:25 000

0 500 1000 1500 2000 2500m

Tasmania
Explore the possibilities



IGNEOUS ROCKS

CENOZOIC – PALEOGENE – NEOGENE

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

PALEOZOIC – DEVONIAN – LOWER DEVONIAN

- **Dd** — *Dolerite dykes (Dd).*

MINOR GRANITIC INTRUSIONS

- **Dg** — *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

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).*
- **Dgaff** — *Fine– to medium–grained, sparsely porphyritic, biotite–minor muscovite monzogranite (Dgaff).*

MIDDLE DEVONIAN

- **Dgaofe** — *Fine–grained equigranular biotite–muscovite granite (Dgaofe).*
- **Dgaoa** — *Medium– to coarse–grained sparsely porphyritic (K–feldspar) biotite–minor muscovite monzogranite (Dgaoa).*
- **Dgaoc** — *Coarse–grained, porphyritic (K–feldspar) to equigranular biotite–minor muscovite monzogranite (Dgaoc).*
- **Dgaoe** — *Coarse–grained equigranular biotite monzogranite (Dgaoe). (Dgaoa, Dgaoc, Dgaoe, ?Dgaff, ?Dgaofe – Poimena Granite; I–type).*

LOWER DEVONIAN

- **Dgrh** — *Medium– to coarse–grained biotite–hornblende granodiorite (Dgrh) (Gardens Granodiorite; I–type).*

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 Dgaoa.*
- **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).*

CENOZOIC – 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 turbidific in origin (SDp); Metamorphosed by granitic intrusion (SDpm).* — MATHINNA SUPERGROUP

- *Geological boundary – position approximate.*
- *Geological boundary – inferred.*
- *Transitional geological boundary*
- *Dune crests.*
- *Unconformable boundary – position approximate.*
- *Unconformable boundary – inferred.*
- *Intrusive boundary – position approximate.*
- *Magnetic gradient or lineament (direction towards lower values indicated).*
- *Lineament visible in airborne magnetic data.*
- (White line) *Limit of mapping of sub–unit within undifferentiated rock unit.*

- *Strike and dip of bedding – right way up; overturned.*
- *Strike and dip of bedding, facing unknown; vertical.*
- *Strike and dip of cleavage, relative local age S1 – dipping; vertical.*
- *Strike and dip of cleavge, relative local age S2 – 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, rock type or mineral specified by RCODE in Point Attribute Table.*
- *Notable small outcrop with rock unit indicated*
- *Notable small float or lag occurrence, with rock type indicated.*
- *Field station of adjacent readings on map.*
- *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., 1999 from the following sources (see responsibility 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 (8516E) 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.

RESPONSIBILITY DIAGRAM

A,E	C,E
B,E	D,E

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

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

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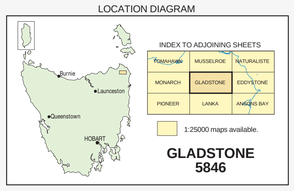
LOCATION DIAGRAM



Plotfile for this map generated from digital data as at: 11-OCT-2011

WARNING:INKS ARE LIGHT SENSITIVE