Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

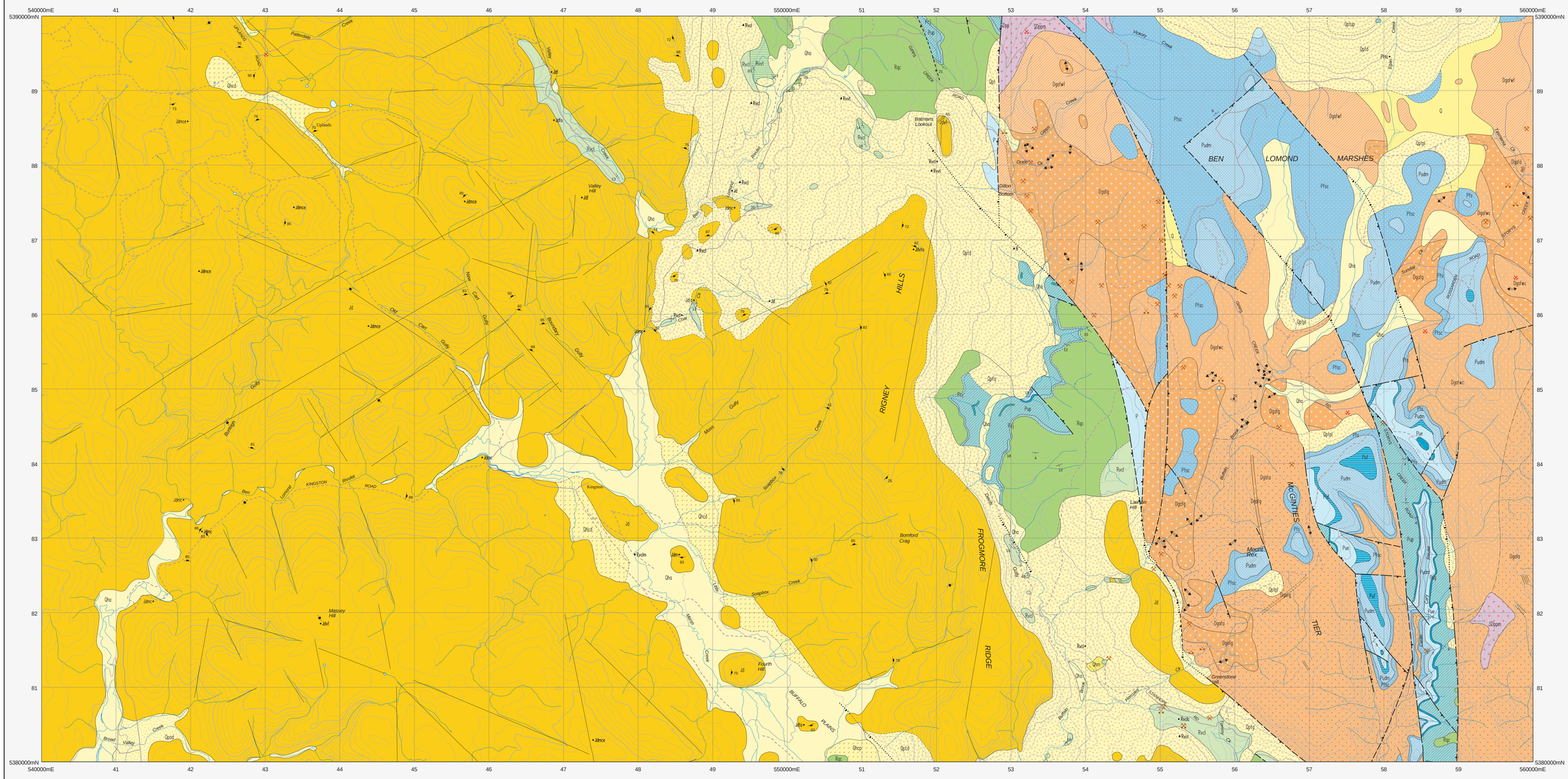
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
STANHOPE, SHEET 5438

STANHOPE

Scale: 1:25 000

0 500 1000 1500 2000 2500m

Tasmania
Explore the possibilities



CENOZOIC

QUATERNARY

HOLOCENE

- **Qhm** — Mine tailings and man-disturbed ground (Qhm).
- **Qha** — Stream alluvium and swamp deposits (Qha).
- **Qhcd** — Colluvium-clayey gravel derived from dolerite (Qhcd); sand derived from Upper Parmeener rocks (Qhcp).

PLEISTOCENE

- **Qpad** — Older alluvium of river terraces, predominantly dolerite-derived (Qpad).
- **Qpt** — Talus (Qpt) – dominantly of dolerite boulders (Qptd); of dolerite and subordinate Upper Parmeener rocks (Qptup); dominantly of Upper Parmeener quartz sandstone (Qptq); dominantly of Lower Parmeener rocks (Qptpl); of granitic rocks (Qptg).

Low-angle unconformity.

MESOZOIC

TRIASSIC

UPPER PARMEENER SUPERGROUP

- **Rvcl** — Dominantly lithic sandstone with minor mudstone and coal (Rvcl); with minor pebbly layers and conglomerate composed of extra basinal clasts (Rvcic); dominantly mudstone (Rvcm).
- **Rvvt** — Quartz-rich lithic sandstone and minor quartz sandstone (Rvvt).
- **Rqc** — Cross-bedded quartz sandstone (Rqc).
- **Pcj** — Fine-grained slightly feldspathic quartz sandstone, micaceous shale and minor carbonaceous mudstone (correlate of Jackey Formation) (Pcj).

PALEOZOIC

PERMIAN

LOWER PARMEENER SUPERGROUP

- **Pup** — Poorly-sorted grey mudstone, siltstone and rare sandstone, unfossiliferous except for rare foraminifera (Prospect Creek Mudstone) (Pup). Bed of pebbly sandstone about 1m thick indicated (correlate of Palmer Sandstone) (Pupp).
- **Pug** — Thick-bedded, usually poorly sorted, pebbly sandstone passing up into interbedded sandstone, siltstone and mudstone; marine fossils locally abundant (Mistletoe Sandstone) (Pug).
- **Puel** — Dominantly bioclastic limestone (Burnt Gully Limestone) (Puel).

CASTLE CARRY MUDSTONE

- **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. Unit about 2m thick (Fonthill Sandstone Member) (Puf).
- **Pudm** — Mudstone, siltstone and minor poorly sorted sandstone, with uncommon marine fossils (Pudm).
- **Pfs** — Dominantly fine-grained, well-sorted quartz sandstone, commonly with interbedded and interlaminated carbonaceous shale, subordinate conglomerate and rare coal (Pfs); dominantly very coarse-grained arkosic sandstone and granule conglomerate (Pfsc). (Pfs, Pfsc – Aberfoyle Formation).

Angular unconformity.

PALEOZOIC

SILURIAN(?) – EARLY DEVONIAN

LOWER DEVONIAN

- **SDpp / SDppm** — Quartzwacke turbidite sequence of interbedded sandstone, siltstone and mudstone with significant mudstone (possible correlate of Lone Star Siltstone) (SDpp); contact metamorphosed by granitic intrusion (SDppm).

PANAMA GROUP
MATHINNA GROUP

IGNEOUS ROCKS

MESOZOIC

JURASSIC

- **Jd** — Dolerite (Jd). Grain size and textural features indicated – very fine-grained (0.2–0.7mm) (Jdvf); fine-grained (0.7–1.5mm) (Jdf); medium-grained (1.5–3.0mm) (Jdm); medium-to coarse-grained (Jdmc); very fine-grained (0.2–0.7mm) and fine-grained (<0.2mm) with orthopyroxene (Jdvfo and Jdfo); medium- to coarse-grained (>1.5mm) with abundant poorly crystalline mesostasis (Jdmce).

BEN LOMOND BATHOLITH

PALEOZOIC

DEVONIAN — LATE DEVONIAN

- **Dgafwf** — Fine- to medium-grained, equigranular alkali feldspar granite (Dgafwf).
- **Dgafwc** — Medium- to coarse-grained, equigranular to sparsely porphyritic alkali feldspar granite, with variably abundant K-feldspar phenocrysts (Dgafwc).
- **Dgafg** — Fine- to medium-grained,variably porphyritic alkali feldspar granite, with quartz and K-feldspar phenocrysts (Dgafg). (Dgafwf, Dgafwc in part, Dgafg in part – Gipps Creek Granite, S-type).
- **Dgafa** — Medium- to coarse-grained, equigranular to sparsely porphyritic alkali feldspar granite, with variably abundant K-feldspar phenocrysts and surficial pink weathering (Dgafa). (Dgafa, Dgafwc in part, Dgafg in part –Henbury Granite, I-type).

- Geological boundary – position accurate or approximate.
- Geological boundary – inferred
- Geological boundary – transitional
- Fault (downthrown side indicated) – position accurate or approximate.
- Fault (downthrown side indicated) – inferred.
- Fault (downthrown side indicated) – concealed.
- Metamorphic boundary – position approximate.
- Airphoto lineament
- (white line) Limit of mapping of sub-unit within undifferentiated rock unit.

- Strike and dip of bedding, right way up.
- Horizontal bedding.
- Strike and dip of dominant joint set.
- Strike of dominant joint set, vertical.
- 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.
- Trend and plunge of columnar jointing.
- Notable small outcrop with rock unit indicated.
- Notable small float or lag occurrence, with rock type indicated.
- 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 J.L. Everard B.Sc. (Hons), 2006 from the following sources (see responsibility diagram):

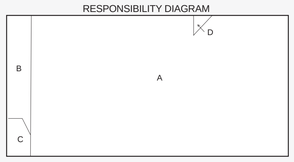
A CALVER, C.R., EVERARD, J.L., FINDLAY, R.H. & LENNOX, P.G. 1988. Geological Atlas 1:50 000 Series. Sheet 48 (8414N) Ben Lomond. Tasmanian Department of Mines.

B BLAKE, F. 1959. Geological Atlas 1:63 360 Series. Sheet 76 (8412N) Longford. Tasmanian Department of Mines.

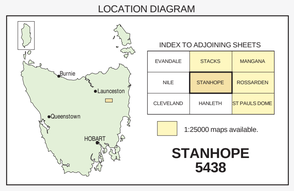
C MATTHEWS, W.L. 1974. Longford Basin Geology (1:100 000 map). Tasmanian Department of Mines.

D J.L. Everard fieldwork 1988.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



INDEX TO ADJOINING SHEETS

EVANDALE	STACKS	MANGANA
NILE	STANHOPE	ROSSARDEN
CLEVELAND	HANLETH	ST PAULS DOME

1:25000 maps available.

STANHOPE 5438

REFERENCE THIS MAP AS:

EVERARD, J.L. (compiler) 2007. Digital Geological Atlas 1:25 000 Series. Sheet 5438 Stanhope. 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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