MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
STOWPORT, SHEET 4044

STOWPORT

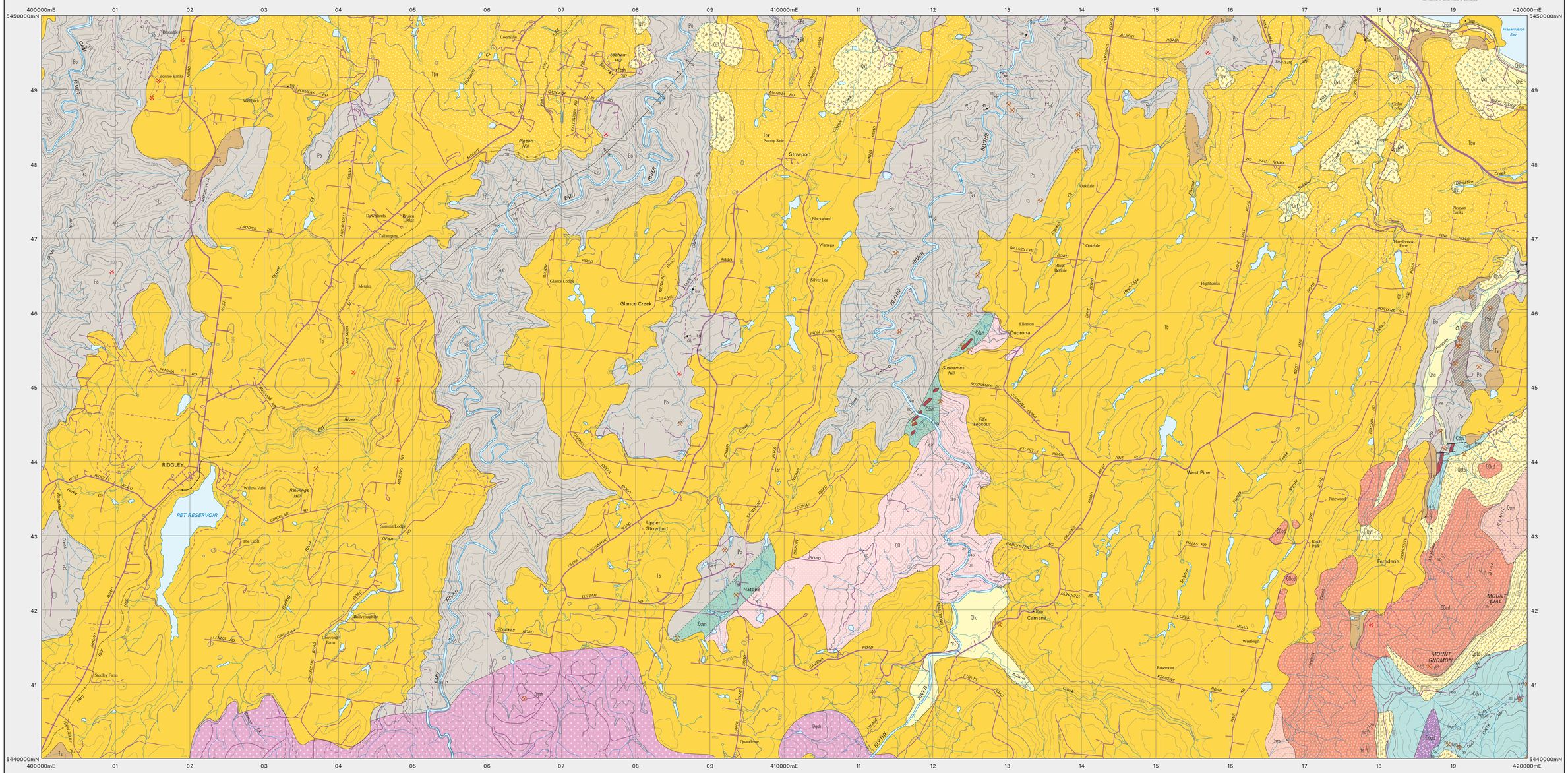
Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA

Tasmania

DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CENOZOIC

QUATERNARY

HOLOCENE

- **Qhmm** — Man-made deposits (Qhmm).
- **Qhbd** — Beach sand, sand dunes and beach gravel (Qhbd).
- **Qh / Qha** — Stream alluvium, swamp and marsh deposits (Qha).
- **Qhwr** — Sand of stabilised longitudinal beach ridges (Qhwr).
- **Qho** — Colluvium (Qhc).
- **Qxl** — Landslide deposits predominantly derived from weathered Tertiary rocks (Qxl).

PLESTOCENE

- **Qpsa** — Older stabilised aeolian sand of coastal plain (Qpsa).
- **Qptb** — Basalt talus (Qptb).
- **Qpto** — Quartz sandstone and conglomerate talus derived from Owen Group correlates (Qpto).

TERTIARY

- **Tbw** — Predominantly deeply-weathered basalt (Tbw).
- **Tb** — Basalt (Tb), Olivine tholeiite (Tbt), transitional olivine basalt (Tbr), alkali olivine basalt (Tbao), basanite (Tbb), nepheline hawaiite (Tbnh) indicated.
- **Ts** — Terrestrial sand, gravel and lacustrine deposits (Ts).

PALEOZOIC — EARLY ORDOVICIAN - LATE CAMBRIAN (OWEN GROUP)

- **€O / €Ocd** — Grey poorly sorted fine-grained sandstone, commonly bioturbated (correlate of Moina Sandstone) (€Osm). Pebble-cobble siliciclastic conglomerate and coarse-grained sandstone with abundant quartzite and chert clasts (Duncan Conglomerate) (€Ocd).

PALEOZOIC — MIDDLE CAMBRIAN (MT READ VOLCANICS & CORRELATES)

- **€dsv** — Marine volcano-sedimentary and sedimentary sequences of sandstone, siltstone, mudstone, conglomerate and breccia with some felsic to intermediate volcanic rocks (correlate of Western Volcano-Sedimentary Sequence) (€dsv).

PALEOZOIC — MIDDLE CAMBRIAN (DUNDAS GROUP)

- **€dsn** — Siliceous siltstone in the Natone–Ferndene area (€dsn).
- **€dsnf** — Hematite-magnetite-pyrrhotite mineralisation within €dsn (€dsnf).

PROTEROZOIC — NEOPROTEROZOIC (BURNIE FORMATION)

- **Po** — Quartzwacke turbidite sequence of sandstone, siltstone and well bedded black slaty mudstone (Po).
- **Pof** — Hematite mineralisation of uncertain age within Po (Pof).

INTRUSIVE ROCKS

- **Dgah** — Dominantly equigranular to sparsely porphyritic fine-to medium-grained biotite +- hornblende phyric granite/adamellite (I type) (Housetop Granite) (Dgah).
- **€daid** — Massive plagioclase (-hornblende-chlorite) -phyric, andesitic to dacitic porphyry (Lobster Creek Intrusives) (€daid).

- Geological boundary – position accurate or approximate.
- Geological boundary – inferred.
- Fault – position accurate or approximate.
- Axial surface trace of major antiform.
- (white line) Limit of mapping of sub-unit within undifferentiated rock unit (colour boundary).

- Strike and dip of bedding, right way up.
- Strike and dip of bedding, facing unknown.
- Strike and dip of bedding, overturned.
- Strike of vertical cleavage, relative local age S1.
- Strike and dip of cleavage, of unspecified type and relative age; penetrative cleavage.
- Strike and dip of metamorphic foliation other than cleavage.
- Trend and plunge of minor fold hinge line, unspecified relative age.
- Trend and plunge of lineation of unspecified type.
- Trend of horizontal minor fold hinge line, relative local age F1.
- Trend and plunge of minor fold hinge, relative local age F2.
- 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
- Construction materials location –

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

Compiled by M.J. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see Responsibility Diagram):

A GEE, R.D; GULLINE, A.B. and BRAVO, A.P. 1967. Geological atlas 1 mile series. Sheet 28 (8015N) Burnie. Tasmania Department of Mines.

B BURNS, K.L. 1963. Geological atlas 1 mile series. Zone 7 Sheet 29 (N8115 I and IV) Devonport. Tasmania Department of Mines.

With additional information from:-

1 HERRMANN, W. 1993. Notes on a geological reconnaissance of the Dial Range - EL 9/1992. Appendix B in FITZGERALD, F.G. 1993. EL 9/1992 Dial Range Annual Report June 1992 - June 1993. Unpublished Report, Pasminco Exploration. TCR 93-3447.

2 CRAWFORD, A.J. 1993. Summary and implications of petrographic work on Pasminco Dial Range EL 9/1992. Appendix C in FITZGERALD, F.G. 1993. EL9/1992 Dial Annual Report June 1992 - June 1993. Unpublished Report. Pasminco Exploration. TCR 93-3447.

3 SPROULE, R.A. 1994. Stratigraphy and Geochemistry of the Dial Range Trough, NW Tasmania. BSc(hons) thesis. University of Tasmania.

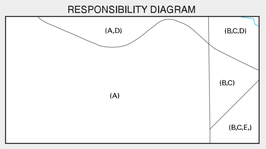
Updated by:

C M.J. Vicary 2004, as part of WTRMP review.

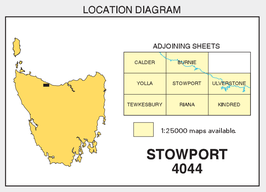
D C.R. Calver and J.L. Everard 2006. Field checking and revision of geology as part of the Northwest Landslide Hazard Project.

E J.L. Everard 2007. 1:25000 geological mapping as part of the TasExplore project.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



REFERENCE THIS MAP AS:

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Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.

AGD66 - AMG Zone 55. Contour Interval: 20 metres.

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