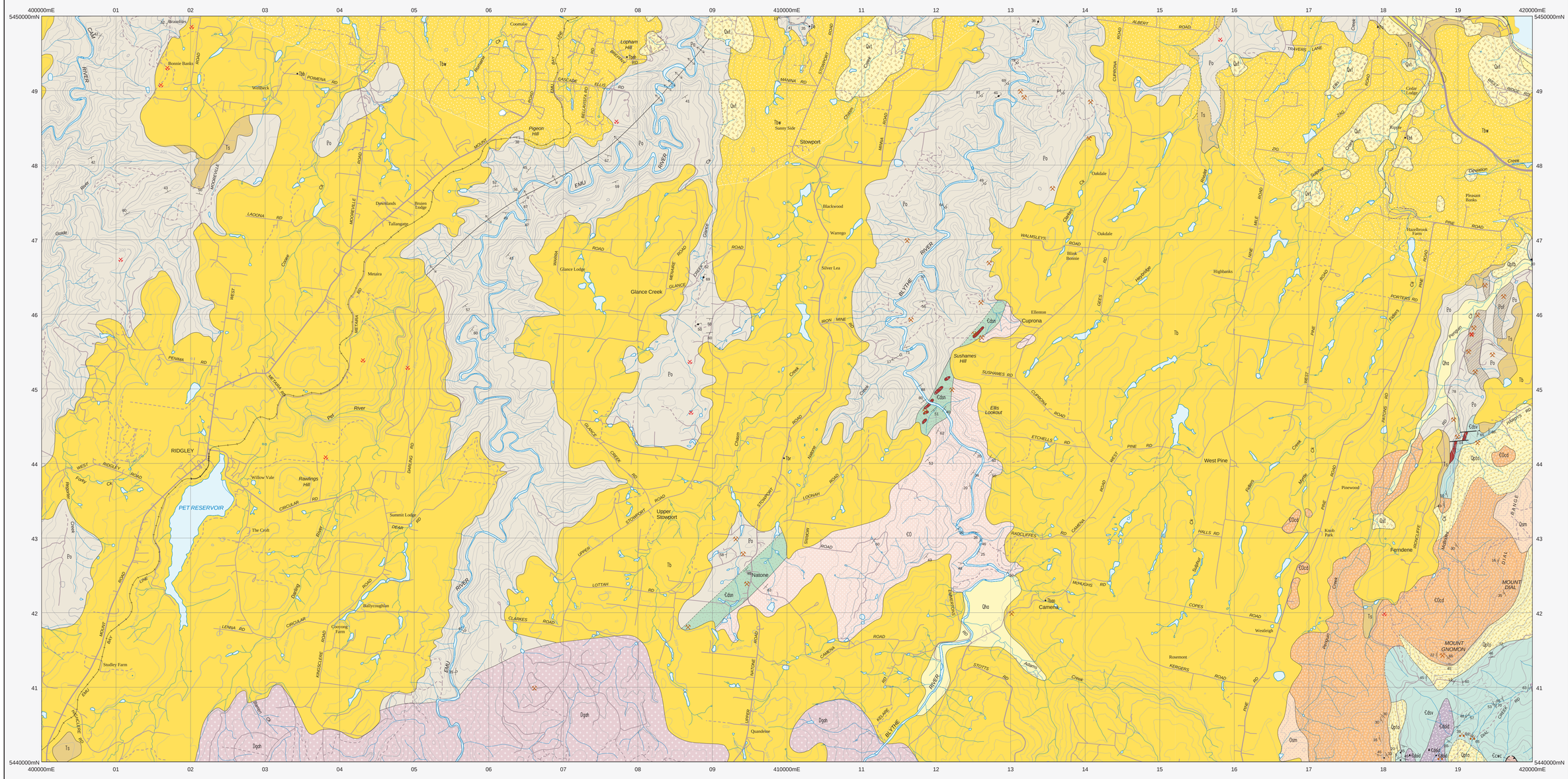
Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
STOWPORT, SHEET 4044

STOWPORT

Scale: 1:25 000

0 500 1000 1500 2000 2500m



CENOZOIC

QUATERNARY

HOLOCENE

- **Qhmm** — Man–made deposits (Qhmm).
- **Qhbd** — Beach sand, sand dunes and beach gravel (Qhbd).
- **Qha** — Stream alluvium, swamp and marsh deposits (Qha).
- **Qhwr** — Sand of stabilised longitudinal beach ridges (Qhwr).
- **Qhc** — Colluvium (Qhc).

PLEISTOCENE

- **Qxt** — Landslide deposits predominantly derived from weathered Paleogene – Neogene rocks (Qxt).
- **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).

PALEOGENE – NEOGENE

- **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

CAMBRIAN – ORDOVICIAN

EUROPAGAN – LOWER ORDOVICIAN

- **Ꞓ0** — Grey poorly sorted fine–grained sandstone, commonly bioturbated (correlate of Moina Sandstone) (Osm).
- **Ꞓ0cd** — Pebble–cobble siliciclastic conglomerate and coarse–grained sandstone with abundant quartzite and chert clasts (Duncan Conglomerate) (Ꞓ0cd).

CAMBRIAN

MEFIELD – OWEN GROUP VOLCANICS & CORRELATES

- **Ꞓdsv** — 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) (Ꞓdsv).

TERRENUNAN – CAMBRIAN SERIES 3

- **Ꞓdsn** — Siliceous siltstone in the Natone–Ferndene area (Ꞓdsn).

CLEVELAND – DUNDAS WARATAH ASSOCIATION

- **Ꞓdsnf** — Hematite–magnetite–pyrrhotite mineralisation within Ꞓdsn (Ꞓdsnf).

TERRENUNAN – CAMBRIAN SERIES 2

- **Ꞓcwc** — Pale to dark grey or black, distinctly bedded and plane–laminated to massive or brecciated chert with minor red and grey siliceous hematitic mudstone and siltstone (Barrington Chert) (Ꞓcwc).

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

PALEOZOIC

CAMBRIAN DEVONIAN

- **Dgdh** — Dominantly medium– to coarse–grained, equigranular, biotite +/– hornblende–bearing alkali feldspar granite/syenogranite/monzogranite, with minor porphyritic and finer–grained variants (Housetop Granite; I–type) (Dgdh).

CAMBRIAN

TERRENUNAN – CAMBRIAN SERIES 3

- **Ꞓdaid** — Massive plagioclase (–hornblende–chlorite) –phyric, andesitic to dacitic porphyry (Lobster Creek Intrusives) (Ꞓdaid).

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

- 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.
- Field station for adjacent readings on the map.
- Mineral deposit location – hardrock
- Mineral deposit location – alluvial/tailings
- Construction material/industrial mineral/gemstone location

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

Compiled by M.J. Vicary, B.Sc.(Hons), 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.

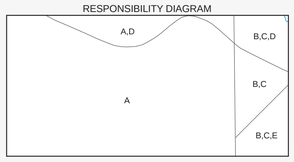
Updated by:

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

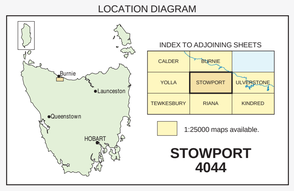
D C.R. Calver and J.L. Everard 2006. Field checking and revision of geology as part of the Northwest Landslide Hazard Project.

E J.L. Everard 2007. 1:25 000 geological mapping as part of the TasExplore project.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



REFERENCE THIS MAP AS:

VICARY, M.J., CALVER, C.R. and EVERARD, J.L. (compilers) 2008. Digital Geological Atlas 1:25 000 Scale Series. Sheet 4044. Stowport. 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.

While every care has been taken in the preparation of this data, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act or fail to act on the basis of any material contained herein. Readers should consult professional advisers. As a result the Crown in Right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) to any persons whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this data.
Crown copyright reserved.

Plotfile for this map generated from digital data as at: 02-FEB-2012

WARNING: INKS ARE LIGHT SENSITIVE