RAILTON

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
RAILTON, SHEET 4442

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES

440000mE 450000mE 460000mE
5430000mN 5420000mN

CAINOZOIC

QUATERNARY – HOLOCENE

- Qha — Stream and river alluvium (Qha).
- Qpog — Marsh deposits and residual gravels (Qpog).

QUATERNARY – PLEISTOCENE

- Qpt — Quartz sandstone and conglomerate talus (Qpto). Dolerite talus (Qptd). Basalt talus and landslide debris (Qptb).

Erosional surface.

TERTIARY

- Tb — Basalt (Tb). Olivine basalt, deeply weathered in most areas, dated at 25.9 +/- 0.2 Ma (Moriarty Basalt) (Tbsm). Sands clays and conglomerate (Ts). Sand, quartzite gravel and clay, including interbasalt deposits (Weasley Vale Sand) of Oligocene age (Tso).
- Ts
- Tso
- Tbsm

Erosional surface.

PALAEOZOIC

CARBONIFEROUS-PERMIAN — LOWER PARMEENER SUPERGROUP

- P
- Pu — Undifferentiated Permo-Carboniferous sediments (P). Upper glaciomarine sequences of pebbly mudstone, pebbly sandstone and limestone (Pu). Unfossiliferous pebbly siltstone, siltstone and sandstone (Pubg). Sandstone, mudstone and pebbly mudstone with marine fossils (Pupg). Quartz sandstone and shale, carbonaceous in places, and minor conglomerate (Pth). Poorly sorted pebbly mudstone, sandstone and minor conglomerate, marine fossils present in places (Pib).
- Pubg
- Pupg
- Pth
- Pib

Angular unconformity.

PALAEOZOIC

ORDOVICIAN — LATE CAMBRIAN — GORDON GROUP / OWEN GROUP — WURAWINA SUPERGROUP

- Ol — Massive blue-grey, fine-grained limestone (Ol).
- Osm — Pale grey to pink, commonly cross-bedded quartz sandstone, coarse and pebbly towards base and with tubicolour trace fossils upper sequences (Moina Sandstone and correlates) (Osm).
- €Dcr — Pink pebble-cobble to cobble-boulder conglomerate, thick bedded to massive, with minor sandstone lenses (Roland Conglomerate and correlates) (€Dcr).
- €O — Undifferentiated shallow marine – non-marine siliciclastic conglomerate and sandstone (Owen Group and correlates) (€O).

Angular unconformity.

MIDDLE-LATE CAMBRIAN — MOUNT READ VOLCANICS

- €dsvcs — Quartz conglomerate (€dsvcs).
- €dsv — Grey/green massive to bedded wacke, pebble conglomerate and laminated siltstone, with clasts of quartzite +/- chert. Generally non-volcaniclastic, but with minor interbeds of volcaniclastic sandstone, tuff, acid lava and shale (€dsv).

EARLY CAMBRIAN — DUNDAS TROUGH VOLCANIC ASSOCIATION

- €cwc — Pale to dark grey, faintly banded to massive or brecciated chert (€cwc). Barrington Chert.

PROTEROZOIC

MESO-PROTEROZOIC

- Pt — Quartzitic schist with dolomite (Ptsd).

INTRUSIVE ROCKS

JURASSIC

- Jd — Dolerite (Jd).

- Geological boundary – position accurate or approximate.
- Fault – position accurate or approximate.
- Fault – inferred.
- Fault – normal – position accurate or approximate (with downthrown side indicated).
- Fault – normal – position concealed (with downthrown side indicated).
- Bedding trace interpreted from aerial photographs.
- Axial surface trace of antiform.
- Axial surface trace of synform.
- Strike-slip fault (dextral) – position accurate or approximate.
- (white line) Limit of mapping of sub-unit within undifferentiated rock unit.

- Strike and dip of bedding, facing unknown; vertical.
- Strike and dip of cleavage of unspecified type and relative age.
- 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. P. McClenaghan, 2003 from the following sources (see responsibility diagram):

A Geological Atlas 1:63360 Series, sheet 37 (B1115S) Sheffield Tasmanian Department of Mines.

B Geological Atlas 1:63360 Series, sheet 38 (B2115S) Frankford Tasmanian Department of Mines.

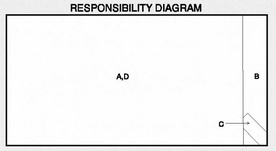
C McClenaghan, M. P. 2002. Reconnaissance geological mapping. Mineral Resources Tasmania.

D Updated by M. Vicary, 2004 as part of the Western Tasmania Regional Minerals Program.

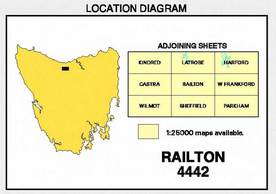
Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software. AGD66 - AMG Zone 55. Contour Interval: 20 metres.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



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Data correct & plotfile generated: 22-MAR-2005

WARNING: INKS ARE LIGHT SENSITIVE