Department of State Growth
MINERAL RESOURCES TASMANIA

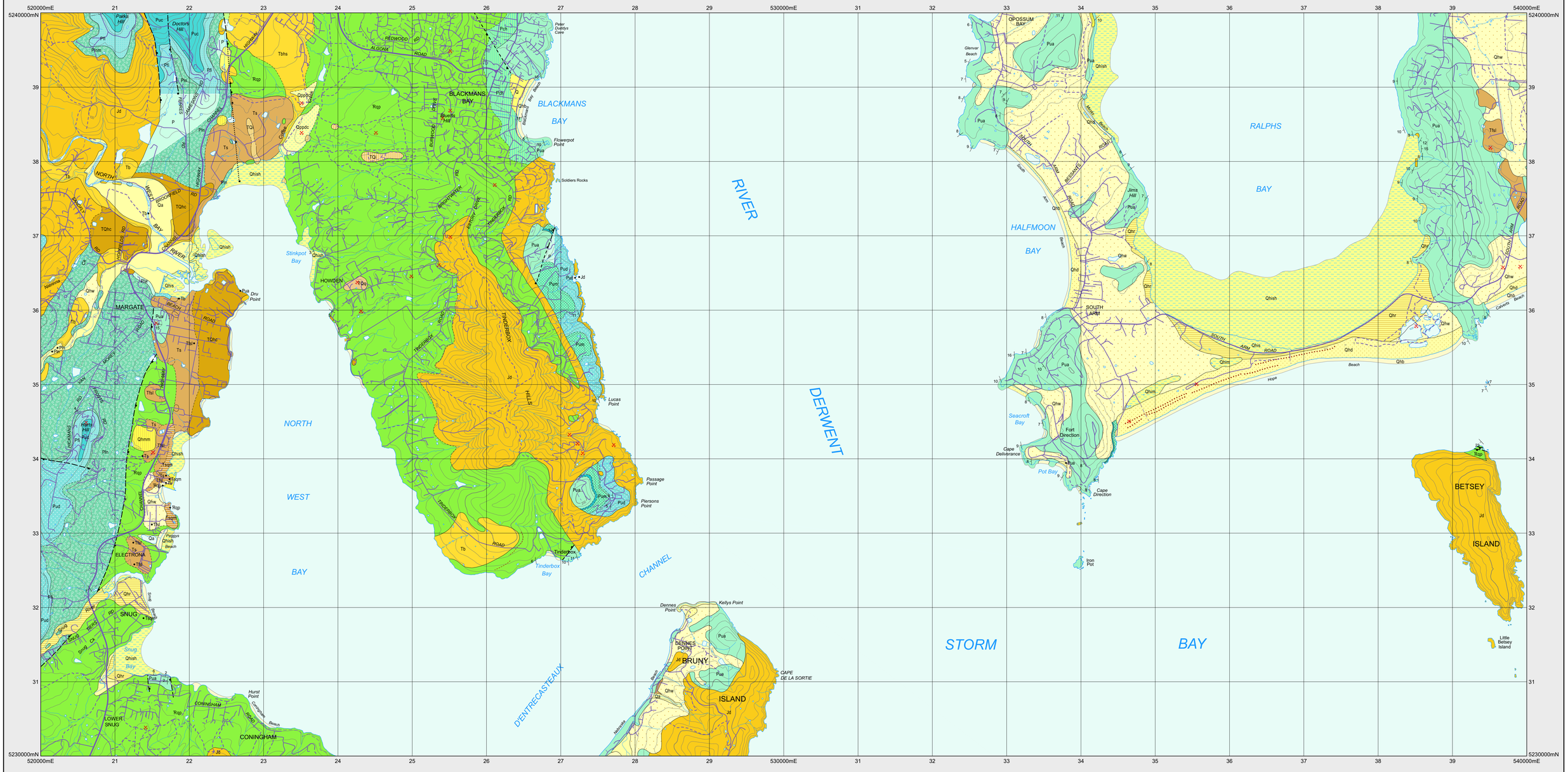
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
BLACKMANS BAY, SHEET 5223

BLACKMANS BAY

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

QUATERNARY

Unit	Description
Qhmm	*Undifferentiated Cenozoic sediments (TQ). Undifferentiated Quaternary sediments (Q). Man-made deposits including landfill (Qhmm).*
Qhb, Qhbg	*Beach sand (Qhb); beach gravel and shingle deposits (Qhbg).*
Qhi	*Paralic clay silt sand and minor gravel deposits, includes modern salt marsh, tidal flats and deposits of older lagoons and swamps (Qhi); of modern salt marsh and associated tidal flats (Qhis); of older lagoons and swamps (Qhim); unvegetated tidal flats (Qhish).*
Qhw, Qhd	*Wind-blown and locally derived sand deposits (Qhw). Dune sand (Qhd).*
Qhr	*Raised beach deposits (Qhr).*
Qa	*Alluvial gravel, sand and clay (Qa).*
Qppdc	*Alluvial terrace deposits of clay, sand and minor gravel (Qppdc).*
Qpsf	*Poorly consolidated conglomerate derived from Permian mudstone, and fine-grained sandstone, possibly equivalent to Maryann Bay Sandstone (Qpsf).*
TQq	*Undifferentiated sand and gravel deposits (TQq).*
TQhc	*Deposits of weathered dolerite and Parmeener clasts of pebble to small boulder size and with clayey matrix (TQhc).*
TQi	*Silicastone and lag of silicastone (TQi).*
Tfsl	*Undifferentiated Paleogene-Neogene (T). Lag of silicastone (Tfsl).*
Tsqm	*Silicastone (greybilly and silcrete) (Tsqm).*
Tb	*Basalt (Tb). Basaltic lava (dominantly sodic hawaiite) and pyroclastics, with rare to locally abundant iherzolite xenoliths (Tbhs).*
Ts	*Dominantly clay, sand and gravel (Ts).*

Erosional surface

MESOZOIC

TRIASSIC

Unit	Description
Rqp	*Undifferentiated Upper Parmeener Supergroup rocks (R) Freshwater, predominantly cross-bedded, quartzose to feldspathic sandstone, commonly with overturned cross-bedding, and subordinate micaceous siltstone (Rqp).*
Pch	*Freshwater, predominantly cross-bedded feldspathic sandstone and micaceous siltstone, minor thin beds of quartz-pebble conglomerate; upper interval less feldspathic (correlate of Cygnet Coal Measures) (Pch).*

PALEOZOIC

PERMIAN

Unit	Description
Pua	*Undifferentiated Permo-Carboniferous sediments (P). Generally unfossiliferous, glaciomarine interbedded non-fissile and fissile, bioturbated mudstone, siltstone and minor poorly-sorted pebbly sandstone (Abels Bay Formation) (Pua).*
Pur	*Moderately well-sorted, fine to medium-grained marine feldspathic sandstone with quartz granules and pebbles and thin pebbly layers (Risdon Sandstone) (Pur).*
Pum	*Generally poorly fossiliferous glaciomarine fine-grained sandstone, siltstone and mudstone with common lonestones and pebble-rich patches; topmost beds richly fossiliferous; ower beds dominantly sandstone and variably fossiliferous (Malbina Formation) (Pum).*
Pud	*Interbedded, fossiliferous glaciomarine mudstone, siltstone and minor sandstone; lonestones present; thinner bedded than enclosing formations (Deep Bay Formation) (Pud).*
Puc	*Dominantly richly fossiliferous, interbedded glaciomarine grey bioclastic and argillaceous limestone and calcareous siltstone; lower beds of fossiliferous siltstone (includes Harts Hill Limestone and correlates of Nassau Siltstone) (Puc).*
Pff	*Paralic, generally unfossiliferous dark grey mudstone and siltstone with thin beds of very fine-grained, well-sorted sandstone in places; minor glaciomarine intervals of sparsely fossiliferous, bioturbated dark grey siltstone and pebbly sandstone (Faulkner Group) (Pff).*
Pfi	*Dark grey marine mudstone and siltstone with upper fossiliferous part rich in the brachiopod Cancrinella (Pfi).*
Pln	*Generally fossiliferous glaciomarine siltstone, calcareous siltstone and sandstone (Bundella Formation) (Pln); contact metamorphosed by dolerite (Plnm).*
Plw	*Uniform, poorly bedded, dark grey marine mudstone and siltstone with sparse glendonites, fossils, lonestones and pyrite nodules (Woody Island Siltstone) (Plw).*

LOWER PARMEENER SUPERGROUP

MESOZOIC

JURASSIC

INTRUSIVE ROCKS

Unit	Description
Jd	*Dolerite (Jd). Dolerite of grainsize 0 - 1.5mm (Jdf), 1.5 - 3mm (Jdm), >3mm (Jdc) indicated in places.*

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Transitional geological contact.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*
- *Limit of detailed mapping.*

FAULTS

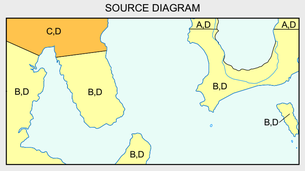
- *Normal fault (downthrown side indicated).*
- *Normal fault (downthrown side indicated) - inferred.*
- *Normal fault (downthrown side indicated) - concealed.*

LINEARS

- *Dune crest.*
- *Lineament - visible on aerial photographs.*
- *Lithological trend line, including bedding trace interpreted from aerial photographs.*

- *Strike and dip of bedding, right way up.*
- *Notable small outcrop with rock unit indicated.*
- *Construction material/industrial mineral/gemstone location.*

SOURCE DIAGRAM



- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg.1:25 000 map or equivalent detail).
- Regional systematic (eg.1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by C.R. Calver, B.Sc.(Hons), 2006 from the following sources (see source diagram):

A LEAMAN, D.E. 1972. Geological Atlas 1:50 000 Series. Sheet 82 (8312S), Hobart. Tasmania Department of Mines.

B FARMER, N. 1981. Geological Atlas 1:50 000 Series. Sheet 88 (8311S), Kingborough. Tasmania Department of Mines.

C C.R. Calver, 2003. New 1:25 000 geological mapping.

D C.R. Calver, 2006. Minor Revisions.

REFERENCE THIS MAP AS:

CALVER, C.R. 2007 (compiler). Digital Geological Atlas 1:25 000 Scale Series. Sheet 5223 Blackmans Bay. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

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

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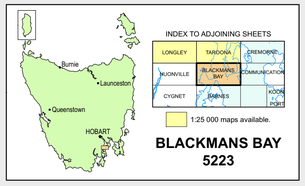
LOCATION DIAGRAM



Map generated: 23-APR-2024

WARNING: INKS ARE LIGHT SENSITIVE.