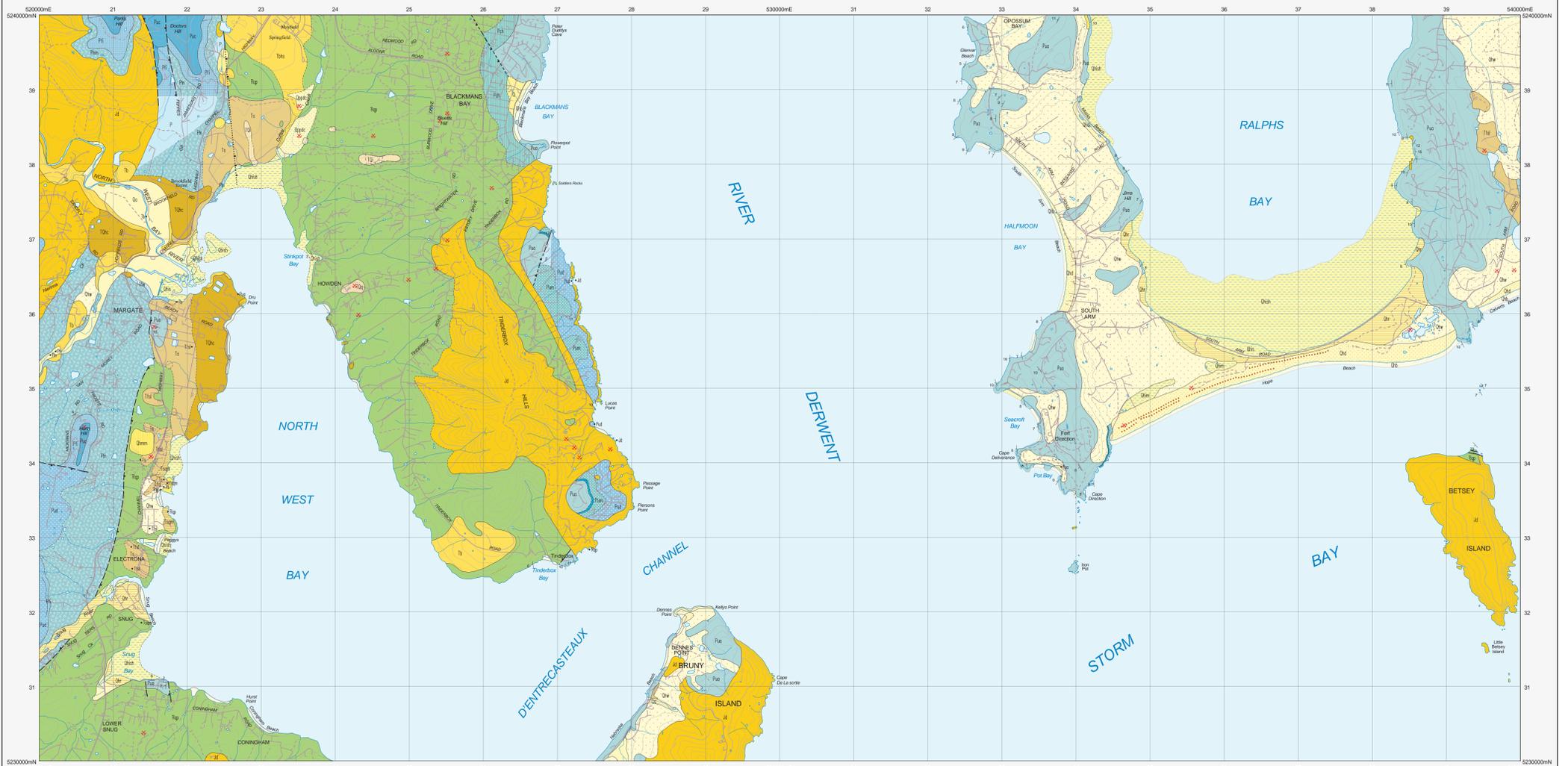


# BLACKMANS BAY

Scale: 1:25 000



QUATERNARY	DESCRIPTION
Qhm	Mid-maze deposits including sand (Qhm).
Qhb	Beach sand (Qhb), beach gravel and shingle deposits (Qhb).
Qm	Paralic clay, silt, sand and minor gravel deposits of modern salt marsh and ephemeral salt flats (Qm), of older lagoons and swamps (Qm); unvegetated salt flats (Qm).
Qd	Wind-blown and locally derived sand deposits (Qd), dune sand (Qd).
Qr	Raised beach deposits (Qr).
Qa	Alluvial gravel, sand and clay (Qa).
Qsp	Alluvial terrace deposits of clay, sand and minor gravel (Qsp).
Qca	Poorly consolidated conglomerate derived from Permian mudstone, and fine-grained sandstone, possibly equivalent to Maryann Bay Sandstone (Qca).
Qg	Undifferentiated sand and gravel deposits (Qg).
Qd	Deposits of weathered dolerite and Permian clasts of pebble to small boulder size and with clayey matrix (Qd).
Qs	Siltstone and lag of siltstone (Qs).
Qtl	Lag of siltstone (Qtl).
Qgm	Siltstone (greyish and silty) (Qgm).
Qb	Basalt (Qb), Basaltic lava (dominantly aphyric basalt) and pyroclastics, with rare to locally abundant nepheline syenite (Qb).
Qc	Dominantly clay, sand and gravel (Qc).

MESZOZOIC	TRIASIC	DESCRIPTION
R	Rip	Freshwater, predominantly cross-bedded, quartzite to feldspathic sandstone, commonly with overflying cross-bedding, and subordinate micaceous siltstone (Rip).
Pu	Pu	Freshwater, predominantly cross-bedded feldspathic sandstone and micaceous siltstone, (over thin beds of quartz-pebble conglomerate; upper interval less feldspathic (Conglomerate of Crystal Gull Meadows) (Pu)).
Pu	Pu	Generally unfossiliferous glauconitic interbedded non-felsic and felsic, subhorizontal mudstone, siltstone and minor arenaceous pebbly sandstone (Black Bay Formation) (Pu).
Pu	Pu	Moderately well-sorted, fine to medium-grained marine feldspathic sandstone with quartz grains and pebbles on the sandy lower (Black Sandstone) (Pu).
Pu	Pu	Generally poorly fossiliferous glauconitic fine-grained sandstone, siltstone and mudstone with common lenticles and pebble-rich patches, (topmost beds richly fossiliferous; lower beds dominantly sandstone and pebbly siltstone) (Black Bay Formation) (Pu); contact metamorphosed by dolerite (Pu).
Pu	Pu	Interbedded fossiliferous glauconitic mudstone, siltstone and minor sandstone (sandstone metamorphosed by dolerite) (Pu).
Pu	Pu	Dominantly richly fossiliferous, interbedded glauconitic grey calcareous and argillaceous limestone and calcareous siltstone; lower beds of fossiliferous siltstone (includes Murr's Hill limestone and consists of Nassau Siltstone) (Pu); contact metamorphosed by dolerite (Pu).
Pu	Pu	Paralic, generally unfossiliferous dark grey mudstone and siltstone with thin beds of very fossiliferous, restricted sandstone in siltstone, minor dolerite in siltstone or claystone (Pu).
Pu	Pu	Dark grey, marine mudstone and siltstone with upper fossiliferous part rich in the brachiopods, Calymene (Pu).
Pu	Pu	Generally fossiliferous glauconitic siltstone, calcareous siltstone and sandstone (Bundala Formation) (Pu); contact metamorphosed by dolerite (Pu).
Pu	Pu	Uniform, poorly bedded, dark grey marine mudstone and siltstone with sparse granules, fossils, sandstone and pyrite nodules (Bobby's Bay Siltstone) (Pu).

MESZOZOIC	JURASSIC	DESCRIPTION
Pu	Pu	Dolerite (Di), Dolerite of grain size 0 - 15mm (Di), 15 - 3mm (Di), >3mm (Di) indicated in places.

INTRUSIVE ROCKS	DESCRIPTION
Di	Dolerite (Di), Dolerite of grain size 0 - 15mm (Di), 15 - 3mm (Di), >3mm (Di) indicated in places.
---	Geological boundary - position accurate or approximate.
---	Geological boundary - inferred.
---	Fault - position accurate or approximate, downthrown side indicated.
---	Fault - inferred, downthrown side indicated.
---	Fault - inferred, downthrown side indicated.
---	Fault - concealed, downthrown side indicated.
---	Lithological trend line, including bedding trace interpreted from aerial photographs.
---	Dolerite crest.
---	Limit of mapping.
---	Limit of mapping of sub-unit within undifferentiated unit.

Compiled by C.R. Calver, B.Sc.(Hons), 2006 from the following sources (see responsibility diagram):  
A. LEAMING, D.E., 1972. Geological Atlas 1:50 000 Series, Sheet 88 (B315), Hobart, Tasmania Department of Mines, with minor revision by C.R. Calver.  
B. FARMER, N., 1981. Geological Atlas 1:50 000 Series, Sheet 88 (B315), Hobart, Tasmania Department of Mines, with minor revision by C.R. Calver.  
C. R. Calver, 2003. New 1:25 000 geological mapping.

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 the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.  
GDA94 - MGA Zone 56. 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 advisors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligence or wrongful act or omission) to any persons whatsoever in respect of any injury, loss or damage of any kind sustained by any person in reliance whether in whole or in part upon any of the material in this data.  
Copyright reserved.

