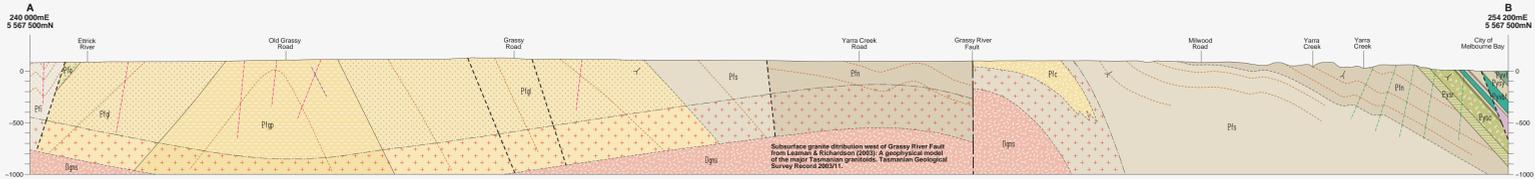
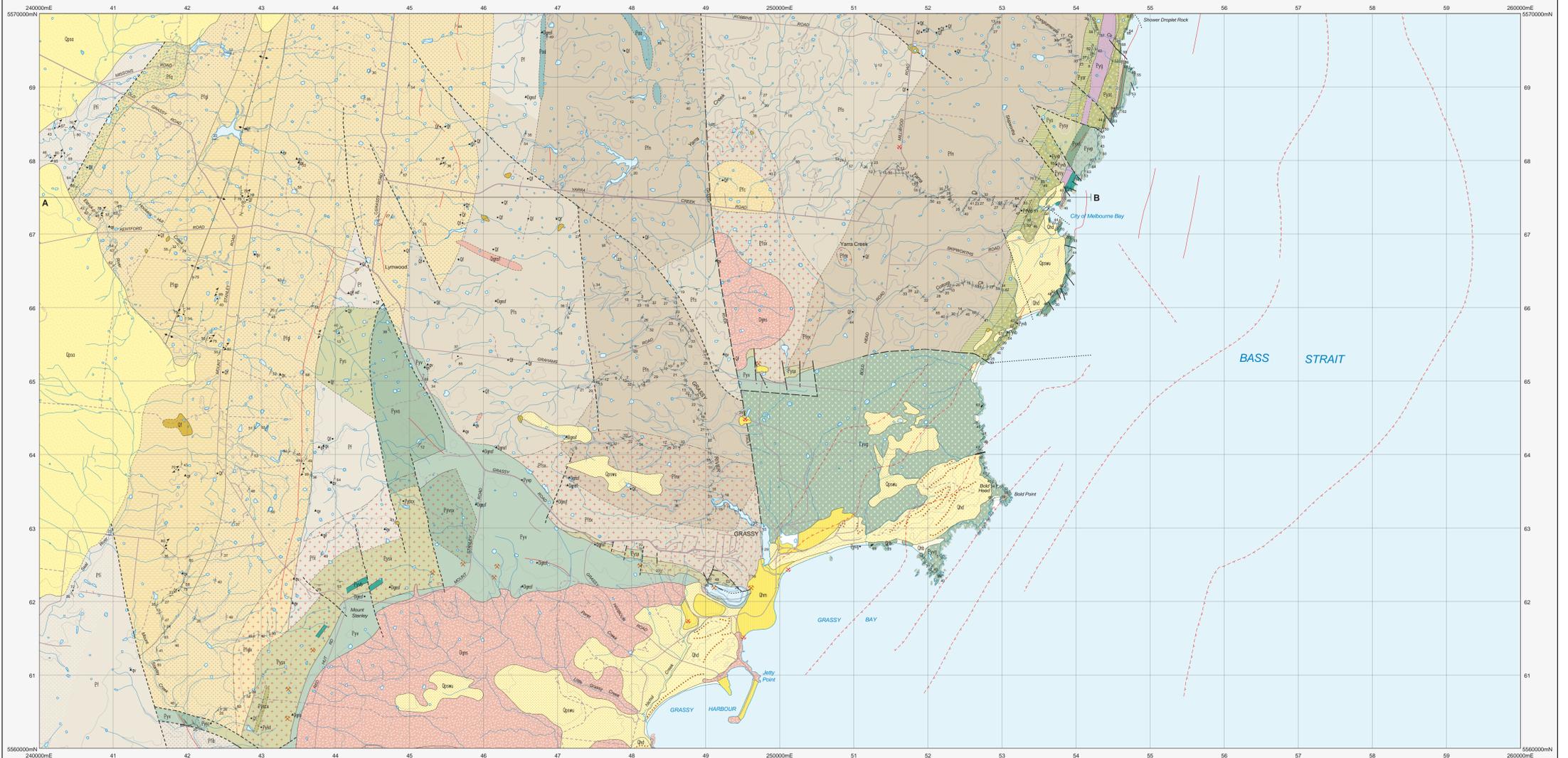


GRASSY

Scale: 1:25 000
0 500 1000 1500 2000 2500m



CENOZOIC	
QUATERNARY	
Qm	Mine tailings, landfill and man-disturbed ground (Qm).
Qhg	Beach shingle and gravel deposits (Qhg).
Qhs	Mobile beach and dune sand (Qhs).
Qhd	Vegetated dune sand (Qhd).
Qpas	Older aeolian dune sand and minor clay, peat and gravel (Qpas).
Qps	Stabilised aeolian sand of coastal plain (Qps).
Qf	Ironstone (Qf).

NEOPROTEROZOIC	
EDICACARAN	
Ey1	Undifferentiated mafic volcanics and metavolcanics (Ey1). Dark grey to purple-grey, ferruginous silty mudstone (Ey1); contact metamorphosed (Ey1a).
Ey2	Massive, tholeiitic basalt, with minor volcanoclastic conglomerate and sandstone (Grassy River Volcanics) (Ey2).
Ey3	Flow-bag, volcanic breccia, volcanic sandstone, and thin lava flows, all of picritic composition (Shower Droplet Volcanics) (Ey3).
Ey4	Flow-bag, massive lava and volcanic breccia and sandstone, all of tholeiitic composition (City of Melbourne Volcanics) (Ey4).
Ey5	Undifferentiated sedimentary rocks of Grassy Group (Ey5); contact metamorphosed and metasedimented (Ey5a).
Ey6	Shale, pale yellow-green, red, or black in colour (Yarra Creek Shale) (Ey6).
Ey7	Laminated siltstone passing up into finely interbedded siltstone, shale and limestone (Cumberland Creek Dolostone) (Ey7).
Ey8	Dolomite with crinoid stems up to boulder size of dominantly limestone, dolostone and metadolostone. Grey, carbonate-rich matrix in lower part; upper part with reddish siliceous matrix and beds of volcanoclastic sandstone. (Grassy Shale) (Ey8); contact metamorphosed and metasedimented (Ey8a).
Ey9	Laminated black shale and cherty siltstone, including minor altered mafic lavas and local basal conglomerate (Robina Creek Formation) (Ey9).

NEOPROTEROZOIC	
FRASER FORMATION	
F1a	Undifferentiated Fraser Formation (F1); contact metamorphosed (F1a).
F1b	Thin-bedded grey-black mudstone with minor thin beds of quartzite siltstone (F1b); contact metamorphosed (F1b).
F1c	Thin-bedded micaceous quartzite siltstone and very fine-grained quartz sandstone with minor grey-black mudstone (F1c); contact metamorphosed (F1c).
F1d	Cummingtonite-quartz-biotite hornfels (F1d).
F1e	Pale grey quartzite metasilstone and minor pelitic siltstone, laminated in most places, with metamorphic chlorite, biotite and garnet (F1e).
F1f	Thinly interbedded grey silty metasilstone and pale grey quartzite metasilstone, with metamorphic chlorite, biotite and garnet (F1f).
F1g	Actinolite-quartz-biotite hornfels (F1g).
F1h	Interbedded quartzite siltstone and dark grey siltstone, with metamorphic biotite and chlorite (F1h).
F1i	Interbedded quartzite siltstone and dark grey mudstone (F1i).

INTRUSIVE ROCKS	
Dgn1	Monzonite and quartz-feldspar porphyry (Dgn1).
Dgn2	Porphyritic (K-feldspar) hornblende-biotite monzonite (Sandstone and Bold Head Granites), Smeeth Granite dated at 355±17 Ma (SHRM U-Pb on zircon) (Dgn2).
Dgn3	Subvolcanic andesitic intrusive sheet in Grassy Group, crystallized in places and locally with agpatic cumulate base, dated at 322±17 Ma (GWRM U-Pb on zircon) (Grassy Intrusive Suite) (Dgn3).
Dgn4	Mafic dykes and sills in Grassy Group (Dgn4); tholeiitic (Dgn4); porphyritic (Dgn4).
Dgn5	Hornblende amphibolite (Dgn5).
qv	Notable vein quartz float (qv).
	Contact metamorphism and metasomatism associated with intrusion of Early Carboniferous monzonites.

—	Geological boundary — position accurate or approximate.
- - -	Geological boundary — inferred.
- · - · -	Transitional geological boundary — position approximate.
- - - - -	Fault — unspecified type, position accurate or approximate.
- - - - -	Fault — unspecified type, inferred.
- · - · -	Fault — unspecified type, concealed.
— · — · —	Magnetic gradient.
— · — · —	Dune crest.
— · — · —	Axial trace of major lateral antiform.
— · — · —	Bedding trend line (on Cross Section only).
— · — · —	S1 cleavage trend line (on Cross Section only).
— · — · —	S2 cleavage trend line (on Cross Section only).
— · — · —	S3 cleavage trend line (on Cross Section only).
— · — · —	Limit of mapping.
(white line)	Limit of mapping of sub-unit within undifferentiated rock unit.

REFERENCE THIS MAP AS:
CALVER, C.R. (compiler) 2008. Digital Geological Atlas 1:25 000 Scale Series, Sheet 2468: Grassy. Mineral Resources Tasmania.

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

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A. C.R. Calver 1:25 000 scale geological mapping, 2007-2008.
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