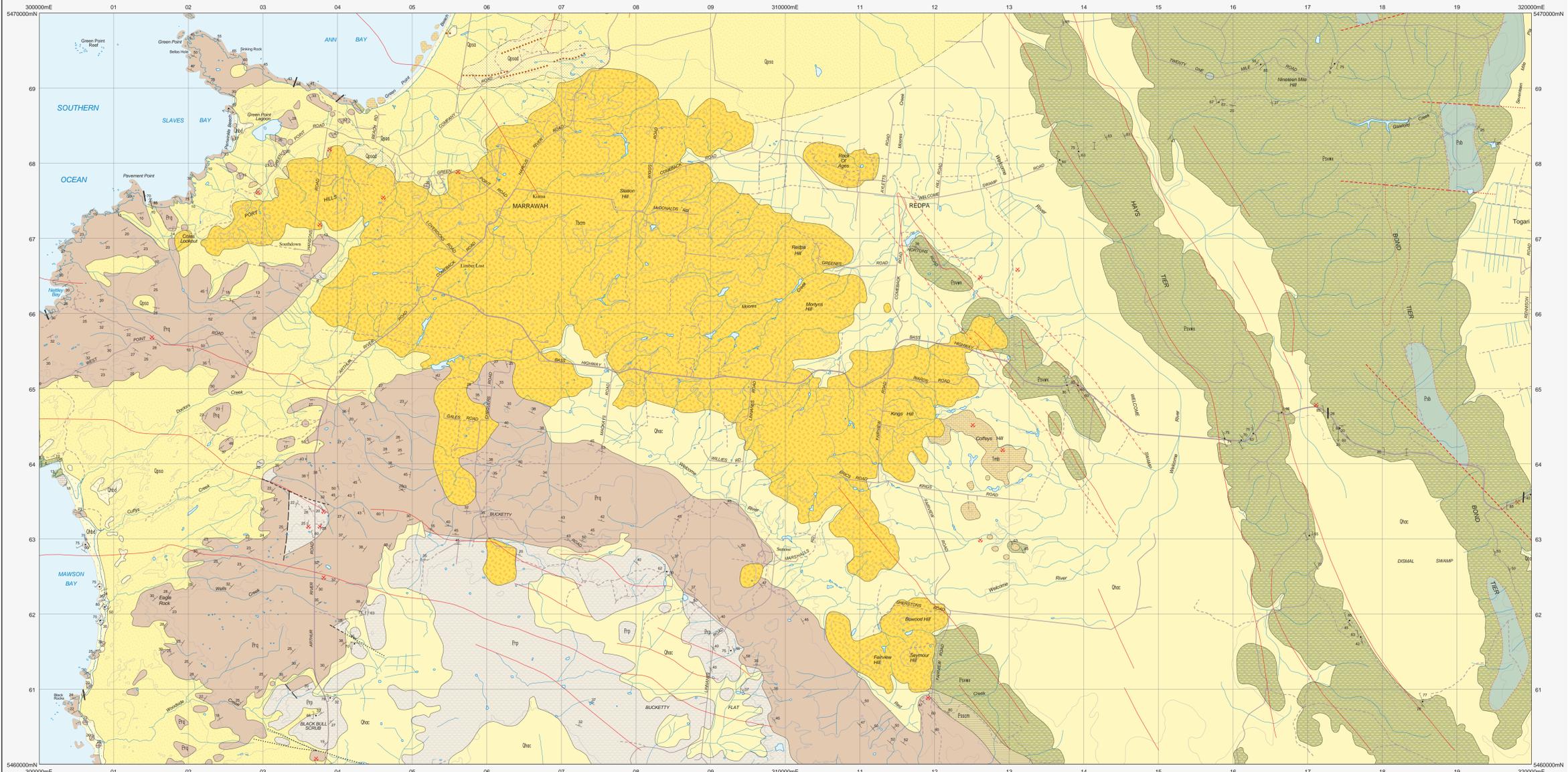


MARRAWAH EAST

Scale: 1:25 000

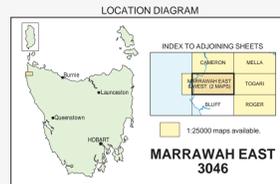
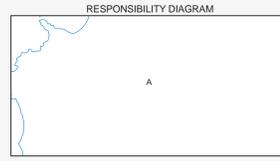


PERIOD	UNIT	DESCRIPTION
QUATERNARY	Qhac	Alluvium and colluvium - including alluvial deposits of sand, clay-rich sand or gravel (aka and slope-wash deposits, swamp deposits of sand, clay and peat), and deposits rich in chert lag derived with associated soil from underlying Proterozoic dolomite sequences. (Qhac).
	Qhbd	Younger active dune and beach sand and beach gravel (Qhbd).
	Qpss	Older stabilised aeolian sand of predominantly coastal plain, with underlying marine sands in places; may show relic landforms including terraces, lunettes, lines or patches of dunes, and beach ridges related to regressions of Last Interglacial Stage (Qpss); some areas with preserved relic dune forms indicated (Qpss).
	Qpgr	Gravel deposits of probable strandline origin, probably related to higher sea-level during Last Interglacial Stage (Qpgr).
PALEOCENE - NEOGENE	Tmnc	Erosional Surface. Bioturbated shallow marine limestone of Early Miocene (Li Longfordian to Batefordian) biostratigraphic age (Tmnc).
	Tbcm	Crudely bedded basaltic pyroclastic rocks, pillow and tachylitic breccias and hydrothermalite, with subordinate olivine basalt lava and pillow lava (Tbcm). (Correlate of Spike Creek Volcanics).
NEOPROTEROZOIC	Psb	Well bedded to massive, shallow marine dolomite and dolomitic limestone, of subtidal to supratidal facies, and cherty silicified equivalents in some localities (Psb). (Correlate of Smitton Dolomite).
	Ppax	Interbedded lithic wacke (massive to well bedded turbiditic and/or mafic volcanoclastic in part), laminated siltstone/mudstone, and minor polymictic lithic conglomerate, includes some occurrences of coarse breccia or white sandstone or multi-ventricose rock (Ppax). (Correlate of Spring Creek Formation; may include some equivalents of Crude Hill Member).
	Ppssm	Massive and minor amygdaloid, dominantly tholeiitic basalt (Ppss). (Correlate of Spike Creek Volcanics).
MESOPROTEROZOIC	Ppssm	Massive to coarse or medium, block, white and grey chert (after shallow marine carbonate), with subordinate interbedded laminated black mudstone, and with preserved spalls and symmetrical features in places (Ppssm). (Correlate of Black River Dolomite).
	Ppcc	Mudstone (with dominantly quartziferous clasts) and minor polymictic, massive coarse lithic breccia, and bedded lithic conglomerate with subordinate cross-laminated quartzite (Ppcc). (Correlate of Forest Conglomerate and Quartzite).
ROCKY CAPE GROUP CONGLOMERATE	Ppcc	Erosional and transgressive surface; low angle unconformity of some localities.
	Ppcc	Pale weathering, variably silicified quartzite, well bedded and commonly with cross-lamination of trough and piano-tabular types and oscillation ripple bedforms, and with minor horizons of laminated siltstone, (fossil silicification suggested by bed to bed reversals of cross-lamination polarity in some sections. (Ppcc).
ROCKY CAPE GROUP CONGLOMERATE	Ppcc	Mud to dark grey, thin-bedded laminated siltstone and mudstone, with minor thin interbeds of cross-laminated and oscillation ripple-marked quartzite in some places (Ppcc); dominantly red-brown weathering sequence of interbedded laminated dolomitic siltstone, dolomitic siltstone and peloidal grainstones, and Talga-laminated dolomite with possible stromatolites. (Ppcc).
	Ppcc	

SYMBOL	DESCRIPTION
Tbcm	Crudely bedded basaltic pyroclastic rocks, pillow and tachylitic breccias and hydrothermalite, with subordinate olivine basalt lava and pillow lava (Tbcm). (Correlate of Spike Creek Volcanics).
Psb	Massive and minor amygdaloid, dominantly tholeiitic basalt (Psb). (Correlate of Spike Creek Volcanics).
—	Geological boundary - position accurate or approximate.
---	Geological boundary - inferred.
---	Geological boundary - transitional. Position of this boundary between units Qhac and Qpss is very approximate and indicative only.
---	Geological boundary, unspecified type, inferred from airborne magnetic data.
---	Fault, unspecified type, position accurate or approximate.
---	Fault, unspecified type, inferred.
---	Fault, unspecified type, concealed.
---	Fault, unspecified type, inferred from airborne magnetic data.
---	Fault, unspecified type, concealed, inferred from airborne magnetic data.
---	Lineament visible in airborne magnetic data.
---	Magnetic gradient - direction towards lower values indicated.
---	Crest of remnant old stabilised longitudinal dune.
---	Limit of mapping.
(White line)	Limit of mapping of sub-unit within undifferentiated unit.

SYMBOL	DESCRIPTION
---	Strike and dip of bedding - facing known; unknown.
---	Strike and dip of cleavage, type and relative age unspecified - dipping, vertical.
---	Trend of horizontal minor fold hinge line, unspecified relative age, with dip of axial surface.
---	Trend and plunge of crenulation lineation.
---	Trend and plunge of hinge line of minor fold, relative age unspecified; with dip direction and dip of axial surface; with vertical axial surface; with distal vergence.
---	Strike and dip of outcrop-scale fault, unspecified type and relative age - dipping, vertical.
---	Mineral deposit location - hardrock.
---	Mineral deposit location - alluvial/alluvial.
---	Construction material/industrial mineral/gemstone location.

Compiled by D.B. Seymour, B.Sc.(Hons), PHD, 2002 from the following sources (see Responsibility Diagram):
A SEYMOUR, D.B. and BALLE, P.W. 1990. Geological Atlas 1:50 000 Series. Sheet 20 7163, Warrarah. Department of Mines Tasmania.
With modifications and additions based on interpretation of airborne magnetic and radiometric data collected under the Western Tasmanian Regional Minerals Program 2001.



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

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