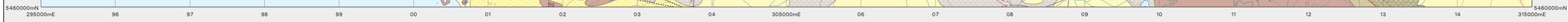
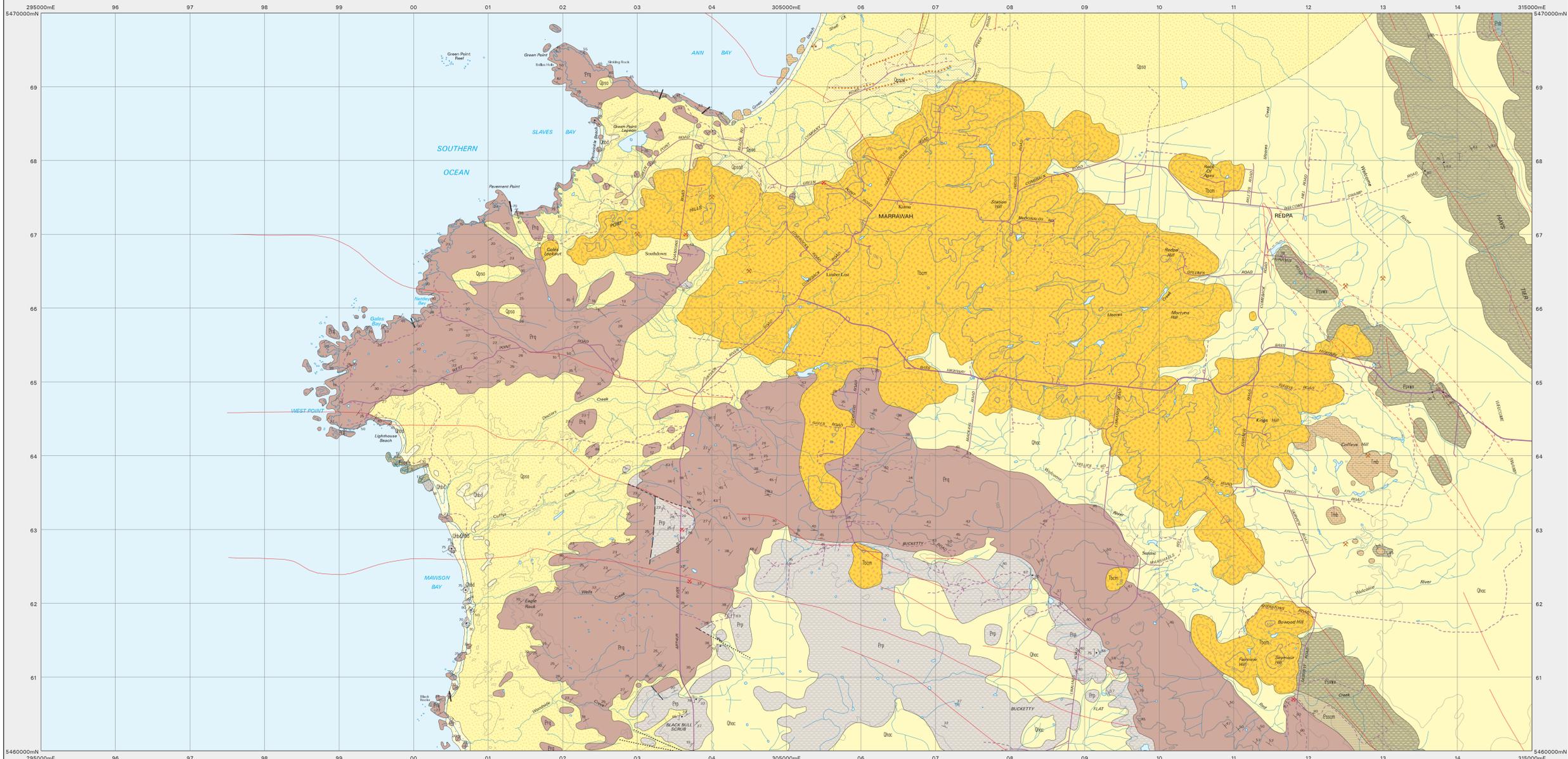
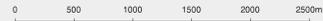


# MARRAWAH WEST

Scale: 1:25 000



PERIOD	UNIT	DESCRIPTION
CANGEROONIAN	Qhac	Alluvium and colluvium - including alluvial deposits of sand, clay-rich sand or gravel, loam and silt, with deposits of heavy deposits of sand, silt 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).
	Qpca	Aeolian calcarenite, partially lithified, showing dune cross-bedding (Qpca).
PLEISTOCENE	Qpsa	Older stabilised aeolian sand of predominantly coastal plain, with underlying marine sands in places; may show relic landforms including terraces, knifets, lines or benches, dunes, and beach ridges related to regressive strandlines of Last Interglacial Stage (Qpsa); some areas with preserved relic dune forms (Qpsa).
	Qpsp	Gravel deposits of probable strandline origin, probably related to higher sea-level during Last Interglacial Stage (Qpsp).
TERTIARY	Tmb	Erosional Surface.
	Tbcm	Blocky shaly marine limestone, of Early Miocene (L1 Longfordian to Batefordian) Australiagigantea age (Tmb).
	Tbcm	Crudely bedded basaltic pyroclastic rocks, pillow and tachylitic breccias and hyaloclastite, with subordinate olivine basalt lava and pillow lava (Tbcm). (Marrawah Volcanics).
NEOPROTEROZOIC	Esb	Well bedded to massive, shaly marine dolomite and dolomitic limestone, of sublate to transgigantea (late) and cherty siltified equivalents in some localities (Esb). (Correlate of Smithton Dolomite).
	Epsc	Interbedded thin wavy massive to well bedded, turbiditic and/or mafic volcanoclastic in part, laminated siltstone/mudstone, and minor polymictitic conglomerate; includes some occurrences of coarse breccia or mudite with clasts of mafic volcanic rocks (Epsc). (Correlate of Koppal Creek Formation; may include some equivalents of Crater Hill Member).
	Epsc	Massive and minor amygdaloidal, dominantly tholeiitic basalt (Esb). (Correlate of Spinks Creek Volcanics).
MESOPROTEROZOIC	Prq	Massive to banded or mottled, black, white and grey chert (after shallow marine carbonate), with subordinate interbedded laminated black mudstone, and with preserved strophic and stromatolitic textures in places (Prq). (Correlate of Black River Dolomite).
	Drp	Monomictic (with dominantly quartzarenite clasts) and minor polymictic, massive coarse lithic breccia, and bedded thin conglomerate with subordinate cross laminated quartzarenite (Drc). (Correlate of Forest Conglomerate and Quartzite).
ROCKY CAVE GROUP CONGLOMERATE	Prq	Erosional and transgressive surface; low angle unconformity of some localities.
	Drp	Pale weathering, variably siltified quartzarenite, well bedded and commonly with cross-lamination; trough and pillow-tubular types and oscillation ripple bedforms, and with minor horizons of laminated siltstone, silt influence suggested by bed to bed reversals of cross-lamination particularly in some sections (Drc).
ROCKY CAVE GROUP CONGLOMERATE	Prq	Mid to dark grey, thin-bedded laminated siltstone and mudstone, with minor thin interbeds of cross-laminated and oscillation ripple-marked quartzarenite in some places (Prq); dominantly near-dip weathering sequence of interbedded laminated dolomitic siltstone, dolomitic siltstone and peloidal granitoides, and fossil-laminated dolomite with possible stromatolites (Prq).
	Drp	

PERIOD	UNIT	DESCRIPTION
TERTIARY	Tbcm	Crudely bedded basaltic pyroclastic rocks, pillow and tachylitic breccias and hyaloclastite, with subordinate olivine basalt lava and pillow lava (Tbcm). (Marrawah Volcanics).
NEOPROTEROZOIC	Esb	Massive and minor amygdaloidal, dominantly tholeiitic basalt (Esb). (Correlate of Spinks Creek Volcanics).

	Geological boundary - position accurate or approximate.
	Geological boundary - transitional position of this boundary between units Qhac and Qpsa 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, inferred from airborne magnetic data.
	Fault, unspecified type, 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.
	(White line) Limit of mapping of sub-unit within undifferentiated unit.

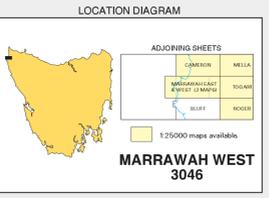
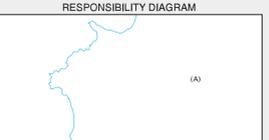
	Strike and dip of bedding - facing known, unknown.
	Strike and dip of cleavage, type and relative age unspecified - dipping, vertical.
	Trend and plunge of crenulation lineation.
	Trend and plunge of hinge line of minor fold, relative age unspecified, with dip direction and dip of axial surface, with vertical axial surface, with dextral vergence.
	Strike and dip of outcrop-scale fault, unspecified type and relative age.
	Mineral deposit location - hardrock. Data derived from Mineral Resources Tasmania MRECH data base. Datapoint position has not been verified in every case.
	Mineral deposit location - alluvial. Data derived from Mineral Resources Tasmania COMAT data base. Datapoint position has not been verified in every case.
	Construction materials location. Data derived from Mineral Resources Tasmania COMAT data base. Datapoint position has not been verified in every case.

Compiled by D.B. Seymour, B.Sc.(Hons), PH.D., from the following sources (see Responsibility Diagram):

A Seymour, D.B.; Baillie, P.W., 1992; Geological Atlas 1:50,000 Series, Sheet 7818S, Woodnorth, 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.

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, ACT95-AMG Zone 85, Contour Interval: 20 metres.



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