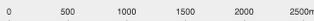
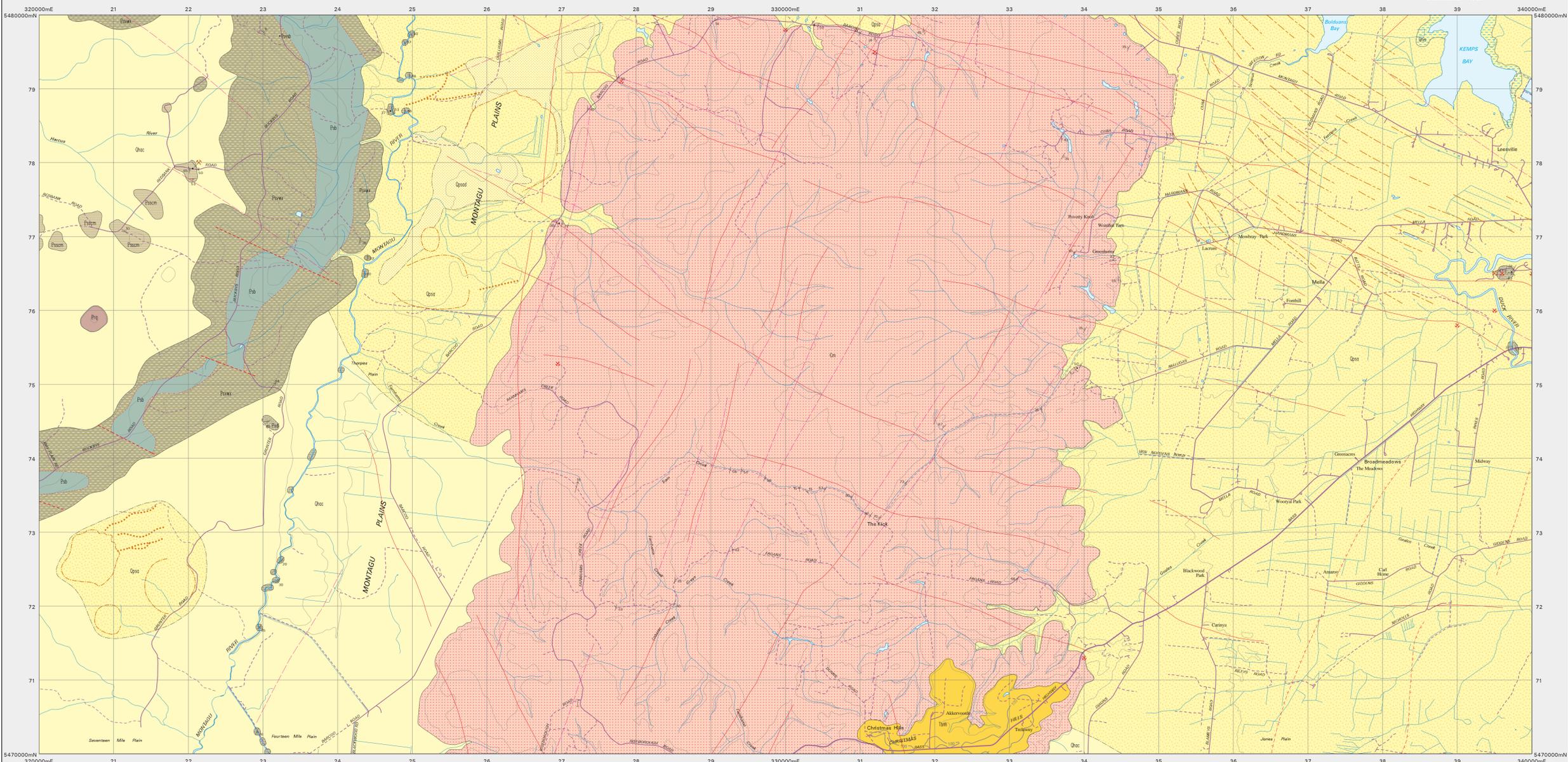


MELLA

Scale: 1:25 000



TASMANIAN GEOLOGICAL SURVEY
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
MELLA, SHEET 3247



547000mN 320000mE 21 22 23 24 25 26 27 28 29 30000mE 31 32 33 34 35 36 37 38 39 340000mE

PERIOD	UNIT	DESCRIPTION	CORRELATE
CENOZOIC	Quaternary	Qhac	Alluvium and colluvium - including alluvial deposits of sand, clay-rich sand or gravel; lake 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)
	Pleistocene	Qpca	Paralic clay, silt, sand and minor gravel deposits of modern salt marsh and associated lake flats (Qpca)
		Qpsa	Older stabilised aeolian sand of predominantly coastal plains, with underlying marine sands in places; may show relict landforms including terraces, lunettes, linear or baraban dunes, and beach ridges related to regressive strandlines of Last Interglacial Stage (Qpsa); some areas with preserved dune forms indicated (Qpsad). Erosional Surface.
Tertiary	Tbnh	Nepheline hawthite lava (Tbnh). Angular unconformity.	
	Paleozoic	Cin	Reddish-brown weathering, interbedded lithic wackes, lithic conglomerate and laminated siltstone/mudstone, generally well bedded and commonly at thick fining-upward cycles; turbiditic in part; contains marine fossils of late Middle Cambrian age at 332,000mE, 5467,800mN, and of early Late Cambrian age at 333,500mE, 5480,600mN, south and north of this mapsheet respectively (Cin). (Correlate of Spinks Creek Formation). Inferred disconformity.
Neoproterozoic		Epsb	Well bedded to massive, shallow marine dolomite and dolomitic limestone, or similar to, hyperaltered (siliceous and cherty siliceous equivalents in some localities) (Epsb). (Correlate of Smithton Dolomite). Interbedded lithic wackes (massive to well bedded, turbiditic and/or mafic volcanoclastic in part), laminated siltstone/mudstone, and minor polymict lithic conglomerate; includes some occurrences of coarse breccia or matrix with clasts of mafic volcanic rocks (Epsw). (Correlate of Keppel Creek Formation). Massive and minor amygdaloidal, dominantly tholeiitic basalt (Epsb). (Correlate of Spinks Creek Volcanics). Massive to banded or mottled, black, white and grey chert (after shallow marine carbonate), with subordinate interbedded laminated black mudstone, and with preserved oolitic and stromatolitic textures in places (Epsc). (Correlate of Black River Dolomite). Erosional and transpressive surface; low angle unconformity at some localities.
	Epsc		
	Eprq	Pale weathering, variably silicified quartzite, well bedded and commonly with cross-lamination of trough and plane-tabular types and oscillation ripple bedforms; and with minor horizons of laminated siltstone; local influence suggested by bed to bed reversals of cross-lamination polarity in some sections (Eprq). (Rocky Cape Group correlate).	

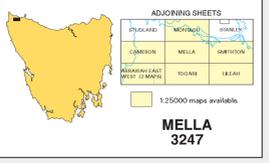
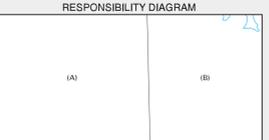
IGNEOUS ROCKS	
Tbnh	Nepheline hawthite lava (Tbnh).
Epsb	Massive and minor amygdaloidal, dominantly tholeiitic basalt (Epsb). (Correlate of Spinks Creek Volcanics).

—	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, inferred from airborne magnetic data.
---	Lineament visible in airborne magnetic data.
---	Lineament visible in airborne radiometric data.
---	Magnetic gradient - direction towards lower values indicated.
-----	Crest of remnant old stabilised longitudinal dune.
-----	Margin of relict lunette and associated swamp.
-----	Trend of relict beach ridge related to regressive strandline of Last Interglacial Stage.

↘ ↗	Strike and dip of bedding - facing known; facing unknown.
↘ ↗	Strike and dip of cleavage, type and relative age unspecified - dipping, vertical.
↘ ↗	Trend and plunge of hinge/line of minor fold, relative age unspecified; with vertical oval surface.
⊗	Mineral deposit location - hardrock - Data derived from Mineral Resources Tasmania (MRT) COIN data base. Datapoint position has not been verified in every case.
⊙	Mineral deposit location - alluvial
⊗	Construction materials location - Data derived from Mineral Resources Tasmania (MRT) COIN 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., Balliu, P.W., 1997: Geological Atlas 1:50 000 Series, Sheet 7818S, Woodnorth, Department of Mines, Tasmania. With modifications and additions based on new interpretation of airborne magnetic and radiometric data.
B. Lemieux, P.G., Corbett, K.D., Balliu, P.W., Corbett, E.B., Brown, A.V., 1982: Geological Atlas 1:50 000 Series, Sheet 2117818S, Southport, Department of Mines, Tasmania. With modifications and additions based on interpretation of airborne magnetic and radiometric data collected under the Western Tasmania 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 GIS software.
AGID66 - AMG Zone 55. Contour interval 20 metres.



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WARNING: INKS ARE LIGHT SENSITIVE