

7 MEGAPROT-ERZOIC	NEOPROTEROZOIC	PALEOZOIC	PALEOGENE-NEOGENE	QUATERNARY
Erq	Pscm	Ekvl	Tbnh	Qhac
	Psb	Evsv		Qhis
		Cri		Opss
				Opssd

TOUGAR GROUP

Erq Pale weathering, variably silicified quartzarenite, well bedded and commonly with cross-lamination of trough and planar-tabular types and oscillation ripple bedforms, and with minor horizons of laminated siltstone; tidal influence suggested by bed to bed reversals of cross-lamination polarity in some sections (Erq). (Rocky Cape Group correlate).

Pscm Massive to banded or mottled, black, white and grey chert (later shallow marine carbonates), with subordinate interbedded laminated black mudstone, and with preserved coiled and stromatolitic textures in places (Pscm). (Correlate of Black River Dolomite).

Psb Massive and minor amygdaloidal, dominantly tholeiitic basalt (Psb). (Correlate of Spinks Creek Volcanics).

Evsv Interbedded lithic wackes (massive to well bedded, turbiditic and/or mafic volcanoclastic in part), laminated siltstone/mudstone, and minor polymictic lithic conglomerate, includes some occurrences of coarse brachiopod or mollusc shells with casts of mafic volcanic rocks (Evsv). (Correlate of Kapeel Creek Formation, may include some equivalents of Crokes Hill Mafite).

Cri Reddish-brown weathering, interbedded lithic wackes, litharenite, lithic conglomerate and laminated siltstone/mudstone; generally well bedded and commonly in thick fining-upward cycles, turbiditic in part; contains marine fossils of Cambrian Stage 3 age at 331 310mE S 488 580mN and of Furongian age at 333 610mE S 488 600mN, south and north of this mapsheet respectively (Cri). (Slopas Formation).

Ekvl Well bedded to massive, shallow marine dolomite and dolomitic limestone, of subtidal to supratidal facies, and cherty silicified equivalents in some localities (Ekvl). (Correlate of Grenfell Dolomite).

Opssd Older stabilised aeolian sand of predominantly coastal plain, 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 (Opssd); some areas with preserved relict dune forms indicated (Opssd).

Opss Paralic clay, silt, sand and minor gravel deposits of modern salt marsh and associated tidal flats (Opss).

Qhac Alluvium and colluvium - including alluvial deposits of sand, clay-rich sand or gravel; talus 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).

IGNEOUS ROCKS

Tbnh Nepheline hawaitite lava (Tbnh).

Psb Massive and minor amygdaloidal, dominantly tholeiitic basalt (Psb). (Correlate of Spinks Creek Volcanics).

CONTACTS

- Geological contact.
- Geological contact - inferred from magnetic data.
- Transitional geological contact.

FAULTS

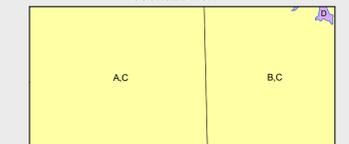
- Fault - inferred from magnetic data.
- Fault - concealed, inferred from magnetic data.

LINEARS

- Crest of remnant old stabilised longitudinal dune.
- Margin of relict lunette and associated swamp.
- Trend of relict beach ridges related to regressive strandline of Last Interglacial Stage.
- Lineament - visible in magnetic data.
- Lineament - visible in radiometric data.
- Magnetic gradient or lineament (direction towards lower values indicated).

STRIKE AND DIP OF BEDDING

- 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 lineation of minor fold, relative age unspecified, with vertical axial surface.
- Field station for adjacent readings on the map.
- Notable small outcrop with rock unit indicated.
- Mineral deposit location - hardrock.
- Construction material/industrial mineral/gemstone location.



Compiled by D.B. Seymour, B.Sc.(Hons), PHD, 2001 from the following sources (see source diagram):

A SEYMOUR, D.B., BAILLIE, P.W. 1992. Geological Atlas 1:50 000 Series. Sheet 7810S, Woolnorth, Tasmanian Department of Mines.

B LENOX, P.G., CORBETT, K.D., BAILLIE, P.W., CORBETT, E.B., BROWN, A.V. 1982. Geological Atlas 1:50 000 Series. Sheet 21 (7918S), Smithton, Tasmanian Department of Mines. With modifications and additions based on:

C D.B. SEYMOUR. 2001. Interpretation of aerial photographs and airborne magnetic radiometric data collected under the Western Tasmanian Regional Minerals Program, 2001.

D D.B. SEYMOUR. 2001. Unpublished interpretation of Western Tasmanian Regional Minerals Program airborne magnetic data covering offshore areas.

REFERENCE THIS MAP AS:
SEYMOUR, D.B. (compiler) 2001. Digital Geological Atlas 1:25 000 Scale Series Sheet 3247 Mella, Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.
Map produced by Spatial Information Services, Mineral Resources Tasmania.
Website: www.mrt.tas.gov.au
GDMS - MGA Zone 55. Contour Interval: 20 metres.

