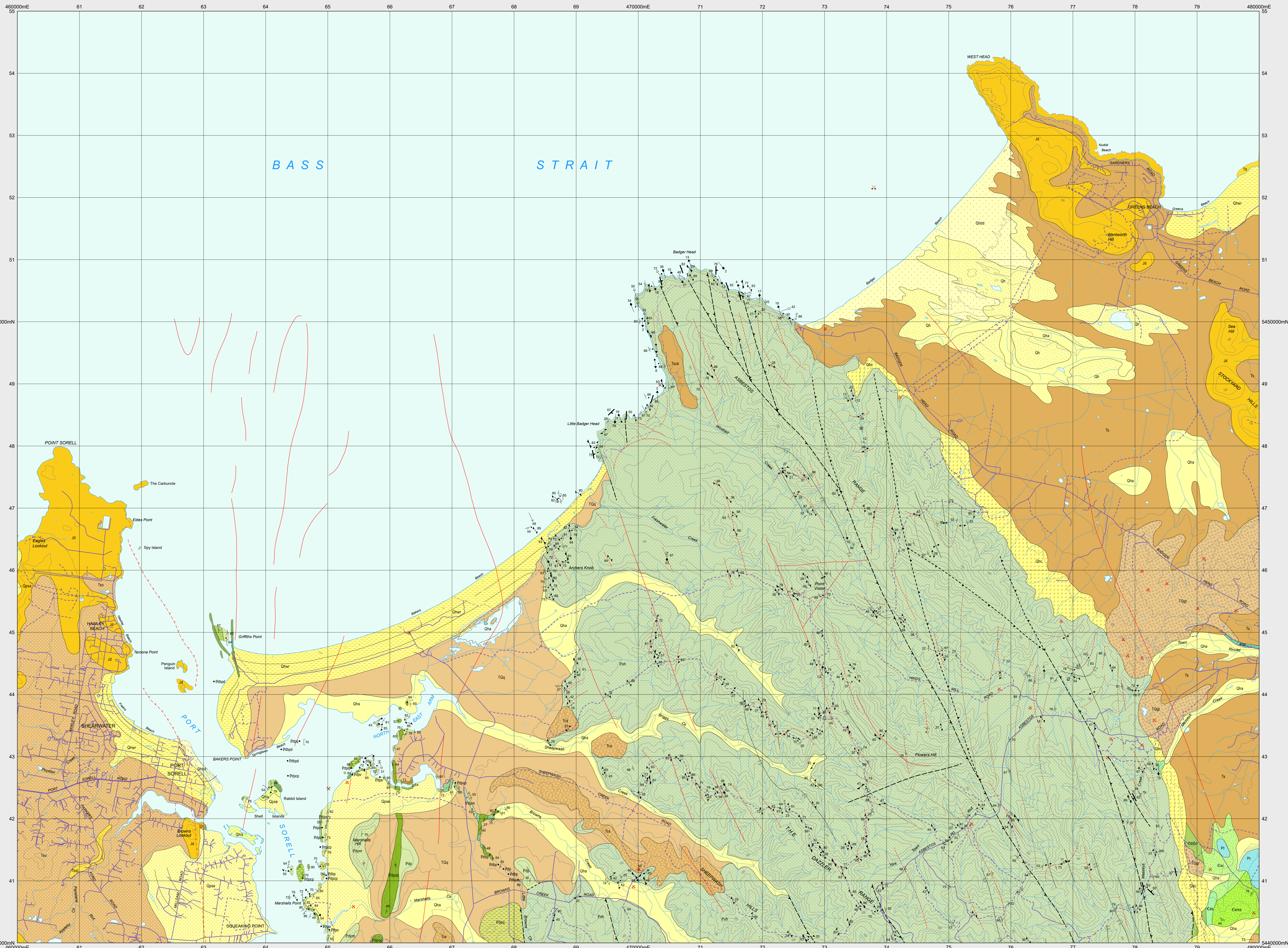


Scale 1:25 000

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
PORT SORELL, SHEET 4644



		QUATERNARY			PALEOGENE - NEogene			PALEOZOIC		
		Qhld	Qhs	Undifferentiated sand, gravel and clay of alluvial, lacustrine and littoral origin (Qhs). Dune and beach sand and beach gravel (Qhld). Beach sand (Qhs).						
		Qhr		Sand of stabilised longitudinal beach ridges (Qhr).						
		Qh	Qha	Stream alluvium, swamp and marsh deposits (Qha).						
			Qhc	Colluvium (Qhc).						
			Qhp	Pelagic clay, silt and sand-minor gravel deposits of modern <i>slat</i> marsh and associated tidal flats (Qhp).						
		Qpsa		Older stabilised aeolian sand of coastal plain, with underlying marine sands in places (Qpsa).						
		Qpss		Coastal fine-grained sand and pebbly sand (Qpss).						
			TQq	Undifferentiated sand and gravel deposits (TQq).						
			TQgr	Rounded gravel, mainly vein quartz (TQgr).						
			Tcs	Semiconsolidated sand and gravel and fine-grained sand (Tcs).						
			Tst	Silicified conglomerates and coarse-grained sandstone, cemented with iron oxides in places (Tst).						
			Tf	Psilicite ironstone (Tf).						
			Ts	Dominantly non-marine sequences of gravel, sand, silt, clay and regolith (Ts). Bassein (Ts).						
			Tsco	Quartz sandstone and siltstone with common plant matter (Tsco).						
			Tso	Sand, quartzite gravel and clay, including interbasal deposits (Wesley Vale Sand) of Oligocene age (Tso).						
			Tstst	Non-erosive to highly erosive and unmetamorphosed, in places deeply weathered, coarse-grained sandstone with minor siliceous sandstone and breccia, dated at 38.1 ± 0.6 Ma (Thirlstane Basalt) (Tstst).						
				Erosional surface.						
			Pth	Quartz sandstone and shales, carbonaceous in some places, and minor conglomerates (Pth).						
			Pm	Mudstone, mainly siltstone and sandstone (Pm). Tiltite (Pm). (Pm, Pt = Bassein Creek Group).						
			Pr	Angular unconformity.						

	PALEOZOIC	
	CAMBRIAN	
NEOPROTEROZOIC	Cds	State with lesser sandstone. Possible correlate of Blythe Creek Formation (Cds).
	Cdsbc	Laminated, commonly brecciated chert (Cdsbc).
	Pdp	Unidentified sequence of predominantly mudstone, shale, slate and phyllite, with sandstone, siltstone, chert, basalt, dolostone, conglomerate and calcarenite; strongly folded in most areas (Fort Seward Formation) (Pdp).
	Pdpdp	Calcareous and tectonic melange (Pdpdp).
	Pdpdp	Basalt (Pdpdp); porphyritic basalt (Pdpdp).
	Pdpdp	Mafic-volcaniclastic sandstone, siltstone and shale, with minor conglomerate (Pdpdp).
	Pdpdp	Dolostone interbedded with chert and shale (Pdpdp).
	Pdpdp	Chert, thinly interbedded with shale in most areas (Pdpdp).
	Pdpdp	Laminated block to gray-green shale with minor siltstone, chert and dolostone lacking sandstone (Pdpdp).
	Pdpdp	Interbedded muscovitic quartz sandstone and shale (Pdpdp).
NEOGENEOIC	Pdpdp	Dominantly black shale, with minor sandstone, siltstone, chert, dolostone and basalt (Pdpdp).
	Pdpdp	Laminated mudstone, slate and siltstone, with lesser interbedded quartzarenite (Pdpdp).
	Puh	Sandstone, slate and phyllite (Puh).

PALEOZOIC MESOZOIC { CAMBRIAN JURASSIC }
NEOPROTEROZOIC { PRE-CAMBRIAN FORMATION }

INTRUSIVE ROCKS

Jd	Dolerite and related rocks (Jd).
Gac	Norite to gabbro-norite (Gac).
Cma	Serpentine with amphibole (Cma).
Ptbp	Basalt (Ftbp); porphyritic basalt (Ftbp).
Ptdpd	Dolerite (Ptdpd).

CONTACTS

- Geological contact.
- Geological contact - inferred.
- Limit of detailed mapping.

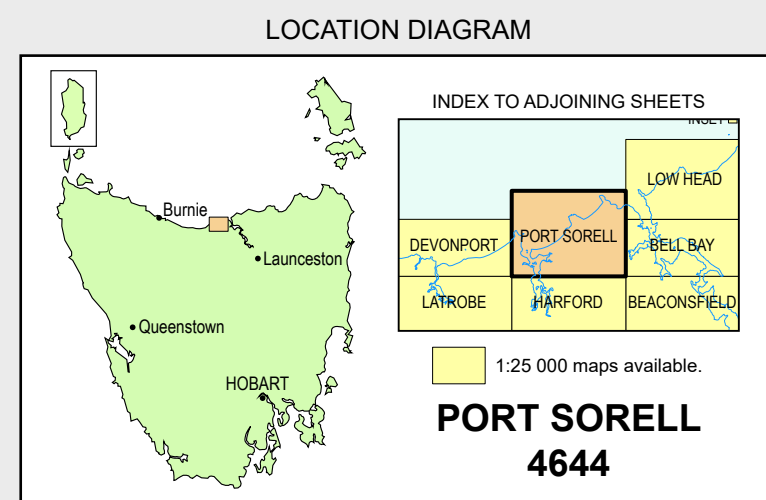
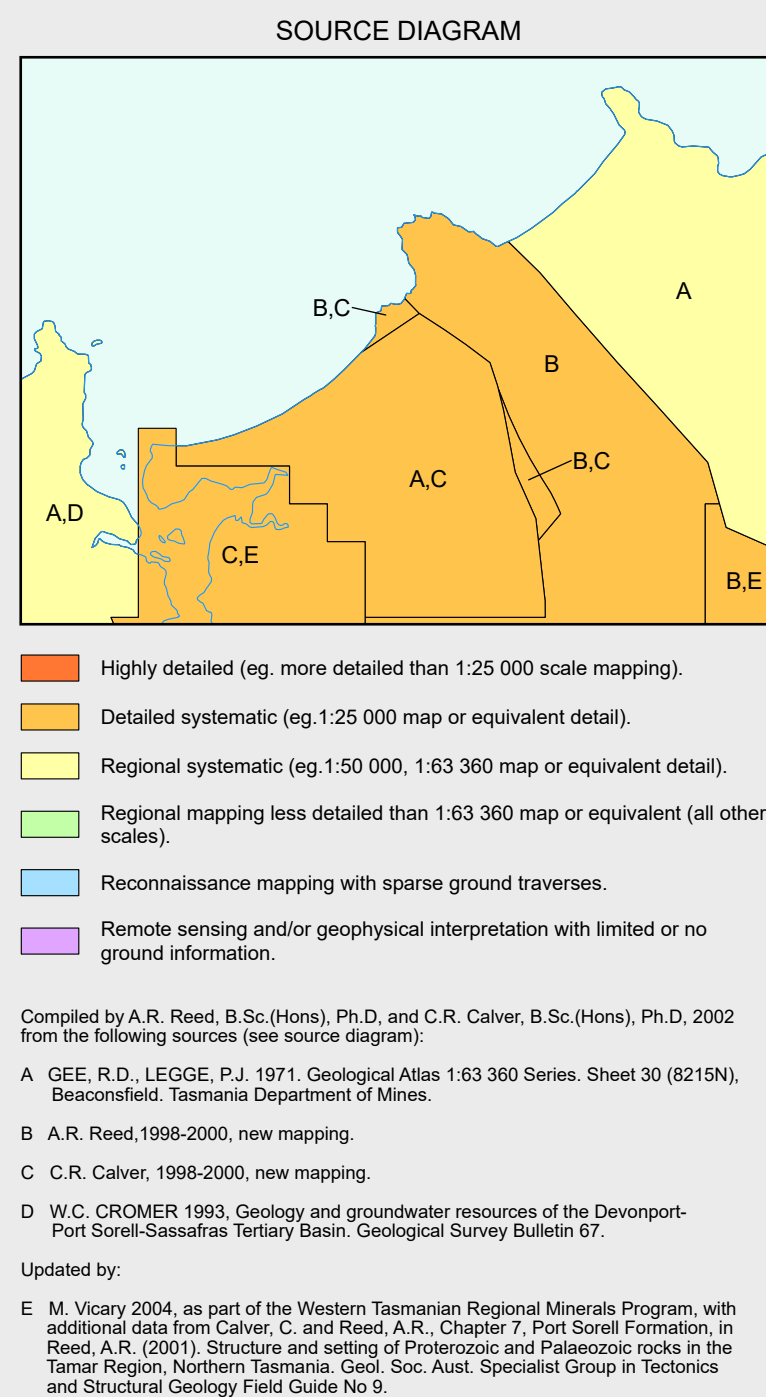
FAULTS

- Fault.
- Fault - inferred.
- Fault - contoured.
- Normal fault (downthrown side indicated).
- Thrust fault (both on upper plate).
- Thrust fault (both on upper plate) - inferred.

LINEARS

- Axial surface trace of major early overturned antiform.
- Axial surface trace of major early overturned synform.
- Axial surface trace of major later antiform.
- Axial surface trace of major later synform.
- Lineament - visible on aerial photographs.
- Lineament - visible in magnetic data.
- Magnetic gradient or lineament (direction towards lower values indicated).
- Lithological trend line, including bedding trace interpreted from aerial photographs.
- Tectonic foliation trend line.

-  Strike and dip of bedding - right way up, overturned, facing unknown, vertical, horizontal.
-  Strike and dip of compositional layering.
-  Strike and dip of cleavage of unspecified type and relative age.
-  Strike and dip of cleavage, relative local age: S₁, S₂, S₃ vertical; S₁, S₂ vertical, S₃.
-  Strike and dip of crenulation cleavage.
-  Strike of outcrop-scale fault with dip indicated; thrust fault.
-  Strike and dip of cataclastic foliation.
-  Trend and plunge of minor fold hinge line, unspecified relative age.
-  Trend and plunge of minor fold hinge line, relative local age F₁, F₂, F₃; F₁, F₂, F₃, F₄, F₅, F₆, F₇, F₈, F₉, F₁₀, F₁₁, F₁₂, F₁₃, F₁₄, F₁₅, F₁₆, F₁₇, F₁₈, F₁₉, F₂₀, F₂₁, F₂₂, F₂₃, F₂₄, F₂₅, F₂₆, F₂₇, F₂₈, F₂₉, F₃₀, F₃₁, F₃₂, F₃₃, F₃₄, F₃₅, F₃₆, F₃₇, F₃₈, F₃₉, F₄₀, F₄₁, F₄₂, F₄₃, F₄₄, F₄₅, F₄₆, F₄₇, F₄₈, F₄₉, F₅₀, F₅₁, F₅₂, F₅₃, F₅₄, F₅₅, F₅₆, F₅₇, F₅₈, F₅₉, F₆₀, F₆₁, F₆₂, F₆₃, F₆₄, F₆₅, F₆₆, F₆₇, F₆₈, F₆₉, F₇₀, F₇₁, F₇₂, F₇₃, F₇₄, F₇₅, F₇₆, F₇₇, F₇₈, F₇₉, F₈₀, F₈₁, F₈₂, F₈₃, F₈₄, F₈₅, F₈₆, F₈₇, F₈₈, F₈₉, F₉₀, F₉₁, F₉₂, F₉₃, F₉₄, F₉₅, F₉₆, F₉₇, F₉₈, F₉₉, F₁₀₀.
-  F₁, F₂, F₃ with dip direction of axial surface, F₄, F₅, F₆, F₇, F₈, F₉, F₁₀, F₁₁, F₁₂, F₁₃, F₁₄, F₁₅, F₁₆, F₁₇, F₁₈, F₁₉, F₂₀, F₂₁, F₂₂, F₂₃, F₂₄, F₂₅, F₂₆, F₂₇, F₂₈, F₂₉, F₃₀, F₃₁, F₃₂, F₃₃, F₃₄, F₃₅, F₃₆, F₃₇, F₃₈, F₃₉, F₄₀, F₄₁, F₄₂, F₄₃, F₄₄, F₄₅, F₄₆, F₄₇, F₄₈, F₄₉, F₅₀, F₅₁, F₅₂, F₅₃, F₅₄, F₅₅, F₅₆, F₅₇, F₅₈, F₅₉, F₆₀, F₆₁, F₆₂, F₆₃, F₆₄, F₆₅, F₆₆, F₆₇, F₆₈, F₆₉, F₇₀, F₇₁, F₇₂, F₇₃, F₇₄, F₇₅, F₇₆, F₇₇, F₇₈, F₇₉, F₈₀, F₈₁, F₈₂, F₈₃, F₈₄, F₈₅, F₈₆, F₈₇, F₈₈, F₈₉, F₉₀, F₉₁, F₉₂, F₉₃, F₉₄, F₉₅, F₉₆, F₉₇, F₉₈, F₉₉, F₁₀₀.
-  Trend and plunge of hinge line of downward-facing minor fold, relative local age F₁, F₂, F₃, F₄, F₅, F₆, F₇, F₈, F₉, F₁₀, F₁₁, F₁₂, F₁₃, F₁₄, F₁₅, F₁₆, F₁₇, F₁₈, F₁₉, F₂₀, F₂₁, F₂₂, F₂₃, F₂₄, F₂₅, F₂₆, F₂₇, F₂₈, F₂₉, F₃₀, F₃₁, F₃₂, F₃₃, F₃₄, F₃₅, F₃₆, F₃₇, F₃₈, F₃₉, F₄₀, F₄₁, F₄₂, F₄₃, F₄₄, F₄₅, F₄₆, F₄₇, F₄₈, F₄₉, F₅₀, F₅₁, F₅₂,



REFERENCE THIS MAP AS:
 REED, A.R. and CALVER, C.R. (compilers) 2002. Digital Geological Atlas
 1:25 000 Scale Series, Sheet 4644 Port Sorell. Mineral Resources Tasmania.

Map produced by Spatial Information Services.

Website: www.mrt.tas.gov.au

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