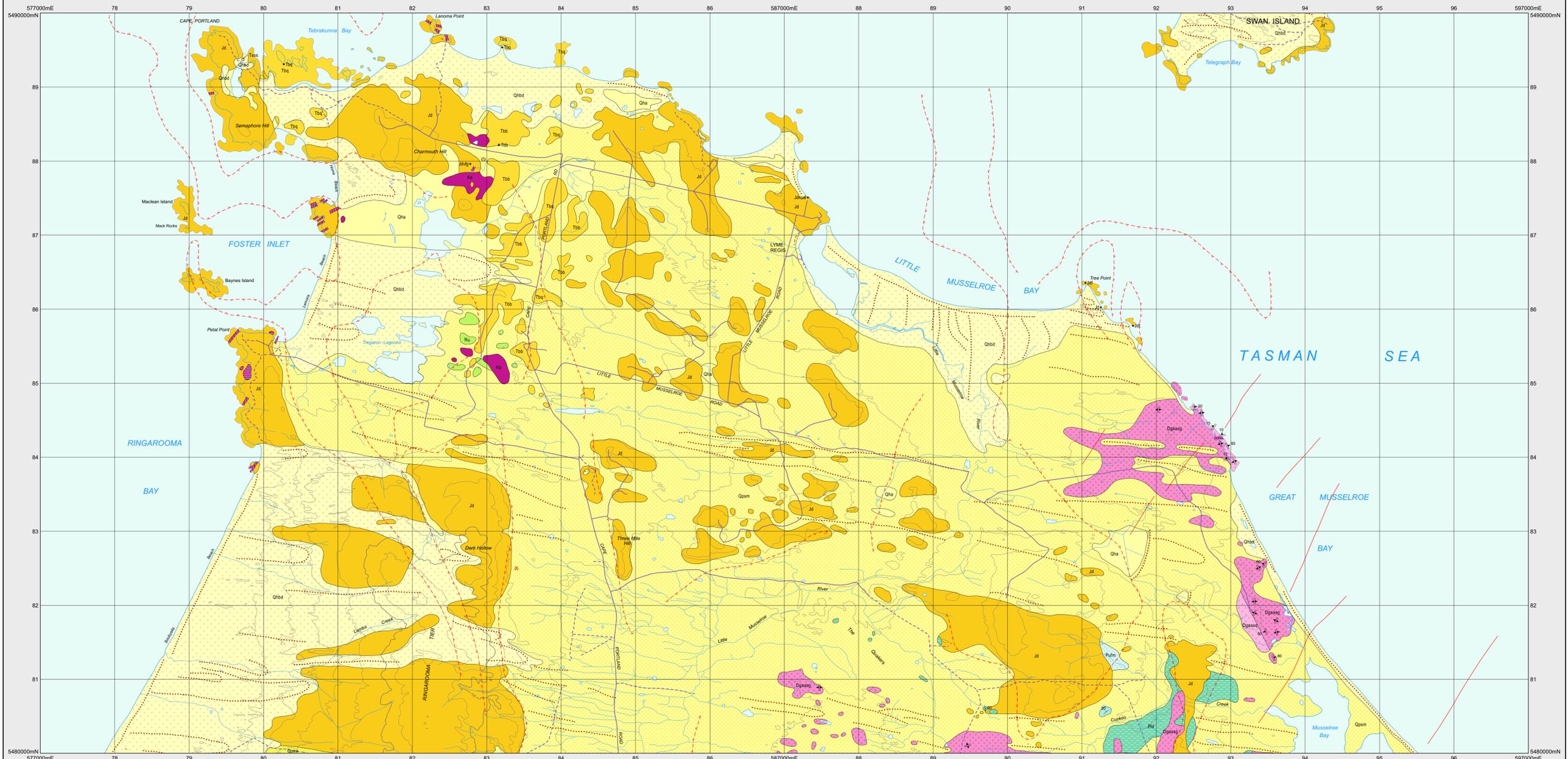
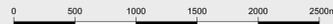


LYME REGIS SOUTH

Scale 1:25 000



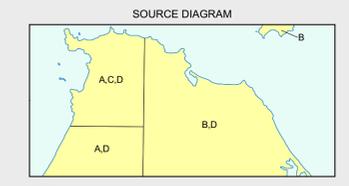
COMPOSITE LEGEND FOR LYME REGIS NORTH AND LYME REGIS SOUTH

CENOZOIC	
QUATERNARY	HOLOCENE
Qha	Stream alluvium, swamp and marsh deposits (Qha).
Qhbd	Younger aeolian dune sand, beach sand and gravel (Qhbd).
Qpht	Dolerite talus (Qpht).
Qpsm	Marine terrace deposits of gravel, sand, clay, shells and organic material (Qpsm); clay, sand, minor peat and gravel (Qpsc).
Qpsw	Older aeolian dune sand (Qpsw).
Trss	Lag and outcrop of silicified quartz sandstone and conglomerate (Trss).
Tm	Marine limestone (Tm).
Tb	Basalt (Tb).
Unconformity	
MESOZOIC	CRETACEOUS
Ru	Fresh-water, cross-bedded quartz sandstone (Ru) (Upper Parmeener Group).
Pulm	Fossiliferous marine sandstone (Pulm) (Upper glacio-marine sequence).
Pp	Cross-bedded quartz sandstone and carbonaceous mudstone (Pp) (freshwater sequence).
Pld	Richly to sparsely fossiliferous (bryozoa) siltstone with dropstones and poorly sorted pebbly sandstone (Pld) (Lower glacio-marine sequence).
PALEOZOIC	DEVONIAN
Upper Devonian	
Lower Devonian	

IGNEOUS ROCKS	
Tb	Basalt (Tb); basaltite (Tbs) and quartz tholeiite (Tbt) indicated; Tbt dated at ~70Ma (K/A) (P.L. Sutherland & H. Zwingmann, unpublished).
Ka	Shoshonitic to latic porphyry intrusives, with phenocrysts of hornblende + plagioclase + quartz + biotite + titanite in a quartzfeldspathic groundmass; dated at 102.3±2.6 Ma (K/A) at 583 000mE, 5 487 600mN (McDougal & Green 1982) (Ka).
Ks	Coeval shoshonitic to latic dykes dated at 101.3±2.6 Ma at 580 700mE, 5 487 400mN (McDougal & Green 1982) (Ks).
Kaf	Coeval, vesicular to amygdaloidal shoshonitic lava with phenocrysts of augite and hornblende in a quartzfeldspathic groundmass (Kaf).
Jd	Dolerite (Jd); very-fine-grained (0.2 - 0.7mm) with interstitial black glass (JdVg); fine-grained (0.7 - 1.5mm) (JdF); medium to coarse-grained (1.5 - 3mm) with abundant interstitial mesotaxite (JdM).
EDDYSTONE BATHOLITH	
Dgaaq	Fine-grained porphyritic biotite-muscovite granite, with phenocrysts of quartz and feldspar (Dgaaq).
Dgaag	Coarse- to very coarse-grained variably porphyritic biotite-garnet-minor muscovite alkali feldspar granite/monzonite (Dgaag); (Dgaaq, Dgaag: Musselroe Granite, S-type).

CONTACTS	
Geological contact.	
Limit of mapping of sub-unit within undifferentiated rock unit.	
Limit of detailed mapping.	
LINEARS	
Dune crest.	
Lineament - visible in magnetic data.	
Magnetic gradient or lineament (direction towards lower values indicated).	

Strike and dip of bedding, facing known.	
Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granite rock, vertical.	
Notable small outcrop with rock unit indicated.	
Notable small float or lag occurrence with rock unit indicated.	
Construction material/industrial mineral/gemstone location.	



Compiled by M.P. McClenaghan, B.Sc.(Hons), Ph.D. 2005 from the following sources (see source diagram):

A. BAILLIE, P.W., TURNER, N.J., COX, S.F., JENNINGS, D.J. and SUTHERLAND, F.L. 1978. Geological Atlas 1: 50 000 Series, Sheet 24 (84165), Bockyalla. Department of Mines, Tasmania.

B. BAILLIE, P.W., JENNINGS, D.J., MUSHANE, R.F., WILLIAMS, P.R. 1984. Geological Atlas 1: 50 000 Series, Sheet 25 (85165), Ecolystone. Department of Mines, Tasmania.

C. JENNINGS, D.J. & SUTHERLAND, F.L. 1969. Geology of the Cape Portland area. Technical Report Department of Mines Tasmania 13:45-82.

Updated by:

D. Geophysical lineaments derived from 2008 Mineral Resources Tasmania "TasExplore" survey, basalt geochemistry and dolerite grain-size information added by J.L. Everard, 2010.

REFERENCE THIS MAP AS:

MCLENGHAGHAN, M.P. (compiler) 2005. Digital Geological Atlas 1:25 000 Scale Series, Sheet 5848 Lyme Regis. 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

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



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LOCATION DIAGRAM

