Department of State Growth
MINERAL RESOURCES TASMANIA

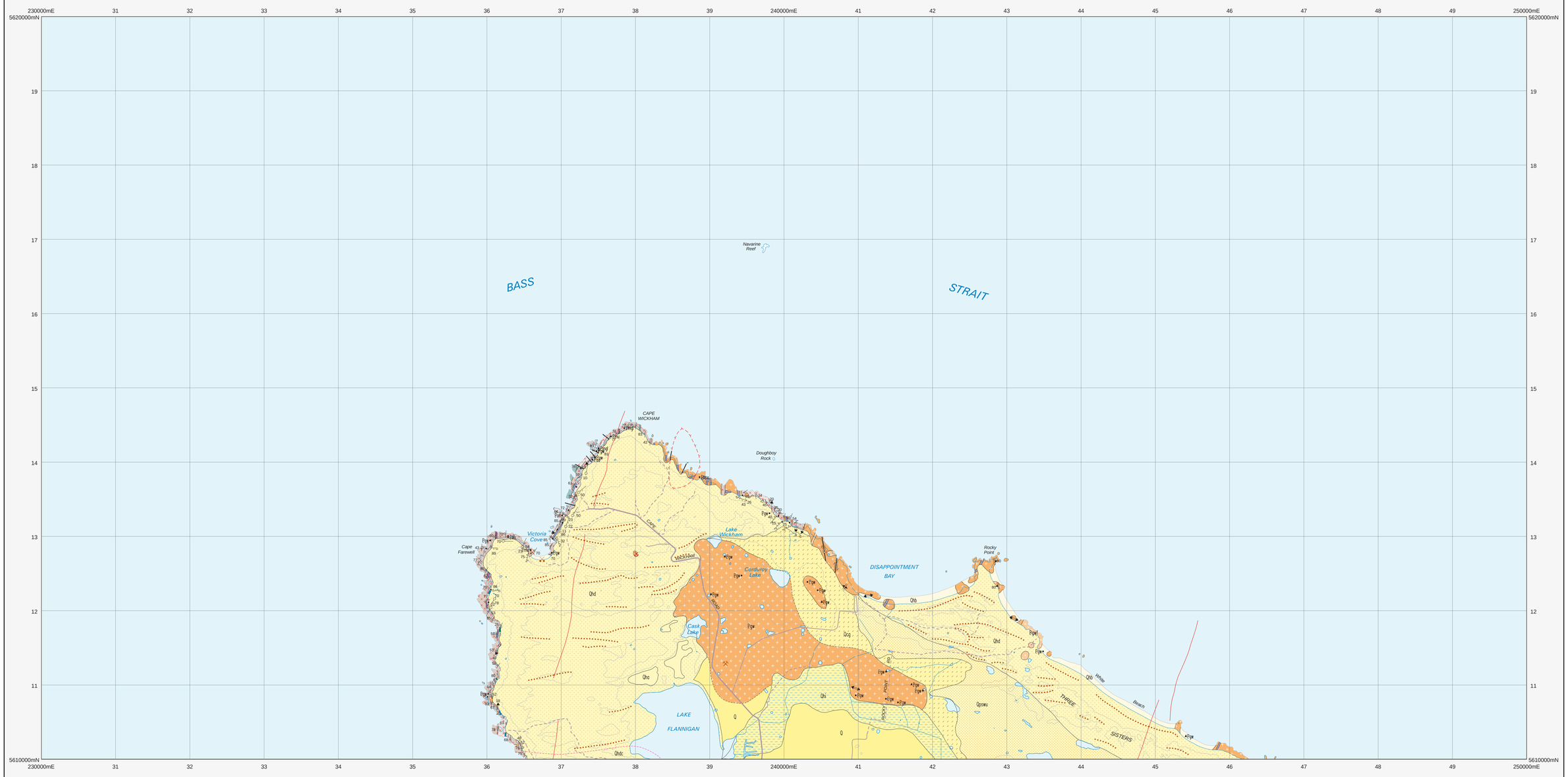
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
WICKHAM, SHEET 2361

WICKHAM

Scale: 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



INTRUSIVE ROCKS

CENOZOIC — QUATERNARY

- Qhb — *Mobile beach and dune sand (Qhb).*
- Qha — *Stream alluvium, swamp and marsh deposits (Qha).*
- Qhdc — *Vegetated calcareous dune sand (Qhdc).*
- Qhd — *Dune sand (Qhd).*
- Qcg — *Colluvium derived from granitic rocks (Qcg).*
- Qhl — *Lagoon and paralic swamp deposits (Qhl).*
- Qpswu — *Older aeolian dune sand and minor clay, peat and gravel (Qpswu).*
- Q — *Undifferentiated Quaternary deposits (Q).*

Unconformity.

PROTEROZOIC — MESOPROTEROZOIC — ECTASIAN — SURPRISE BAY FORMATION

- Pbsx — *Dominantly fine–grained quartzose sandstone in medium to thick turbidite beds, with interbedded siltstone and pelitic schist; contact metamorphosed (Pbsx).*
- Pbpx — *Dominantly thin–bedded pelitic schist, contact metamorphosed (Pbpx).*

PROTEROZOIC — MESOPROTEROZOIC — NEOPROTEROZOIC — CYROGENIAN — ECTASIAN ?

- Pmgl — *Tholeiitic dolerite dykes; younger than Cape Wickham Granite (Pmgl).*
- Pmgf — *Alkalic dolerite dykes, generally feldspar–phyric; younger than Cape Wickham Granite (Pmgf).*
- Pgw — *Dominantly medium– to coarse– grained, porphyritic to locally equigranular/seriate biotite syenogranite/monzogranite commonly with abundant later minor intrusions of less felsic medium–grained equigranular biotite granite, and minor microgranite and pegmatite (Pgw).*
- Pgwf — *Dominantly fine–grained grey aphyric to sparsely porphyritic microgranite, locally with minor later intrusions of coarse–grained granite (Pgwf). (Pgw, Pgwf: Cape Wickham Granite, dated at 762 ± 14Ma at 238017mE, 5612770mN, U–Pb SHRIMP on zircon: Black et al., 1997).*

MESOPROTEROZOIC — ECTASIAN ?

- Pmo — *Tholeiitic metadolerite dykes, older than Cape Wickham Granite (Pmo).*
- Paa — *Amphibolite dykes and sheets; older than Cape Wickham Granite (Paa).*
- Pmu — *Metadolerite dykes; probably Proterozoic, age relative to Cape Wickham Granite unknown (Pmu).*

- *Geological boundary – position accurate or approximate.*
- *Geological boundary – inferred.*
- *Geological boundary – inferred from airborne radiometric data.*
- *Fault – unspecified type, position accurate or approximate.*
- *Strike–slip fault (dextral) – position accurate or approximate.*
- *Lineament visible in airborne magnetic data.*
- *Magnetic gradient or lineament (direction towards lower values indicated).*
- *Dune crest.*
- *Limit of mapping.*
- (white line) *Limit of mapping of sub–unit within undifferentiated rock unit.*

- *Strike and dip of bedding – right way up; overturned; facing unknown.*
- *Strike and dip of cleavage, relative local age S1.*
- *Strike and dip of cleavage, relative local age S3; relative local age S5.*
- *Trend and plunge of minor fold hinge line, unspecified relative age, with dip and dip direction of axial surface, vergence sinistral.*
- *Trend and plunge of minor fold hinge line, relative local age F1.*
- *Trend and plunge of lineation L2 formed by intersection of cleavages or foliations of relative local ages S1 and S2.*
- *Trend and plunge of minor fold hinge line, relative local age F2; vergence dextral; with dip and dip direction of axial surface.*
- *Trend and plunge of minor fold hinge line, relative local age F3, with dip and dip direction of axial surface.*
- *Strike and dip of foliation due to alignment of K–feldspar phenocrysts in granitic rock; vertical.*
- *Trend of preferred orientation of K–feldspar phenocrysts in granitic rock.*
- *Strike and dip of foliation due to alignment of hornblende and/or biotite in granitic rock.*
- *Notable small outcrop.*
- *Notable log occurrence.*
- *Field station for adjacent readings on map.*
- *Mineral deposit location – hardrock*
- *Mineral deposit location – alluvial/tailings*
- *Construction material/industrial – mineral/gemstone location*

Data derived from Mineral Resources Tasmania DEPOSITS database. Data point position has not been verified in every case.

Geology by C.R. Calver, B.Sc.(Hons) and J.L. Everard, B.Sc.(Hons), 2012 – 2013 from the following sources (see responsibility diagram):

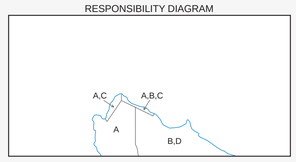
A C.R. Calver 1:25 000 scale geological mapping, 2011 – 2012.

B J.L. Everard 1:25 000 scale geological mapping, 2008 – 2010.

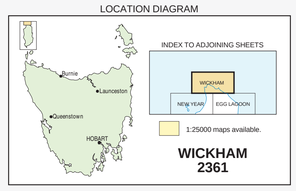
C Cox, S.F. 1973. The structure and petrology of the Cape Wickham area, King Island. B.Sc. Hons. thesis, University of Tasmania.

D J.N. Jennings, 1959. The coastal geomorphology of King Island, Bass Strait, in relation to changes in the relative level of the land and sea. Records of the Queen Victoria Museum, Launceston; New Series No.11.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



REFERENCE THIS MAP AS:

EVERARD J.L. and CALVER C.R. 2013 Digital Geological Atlas 1:25 000 Scale Series. Sheet 2361 Wickham. Mineral Resources Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania using G.I.S. software.

Website: www.mrt.tas.gov.au

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

Plotfile for this map generated from digital data as at: 02-SEP-2016

WARNING: INKS ARE LIGHT SENSITIVE