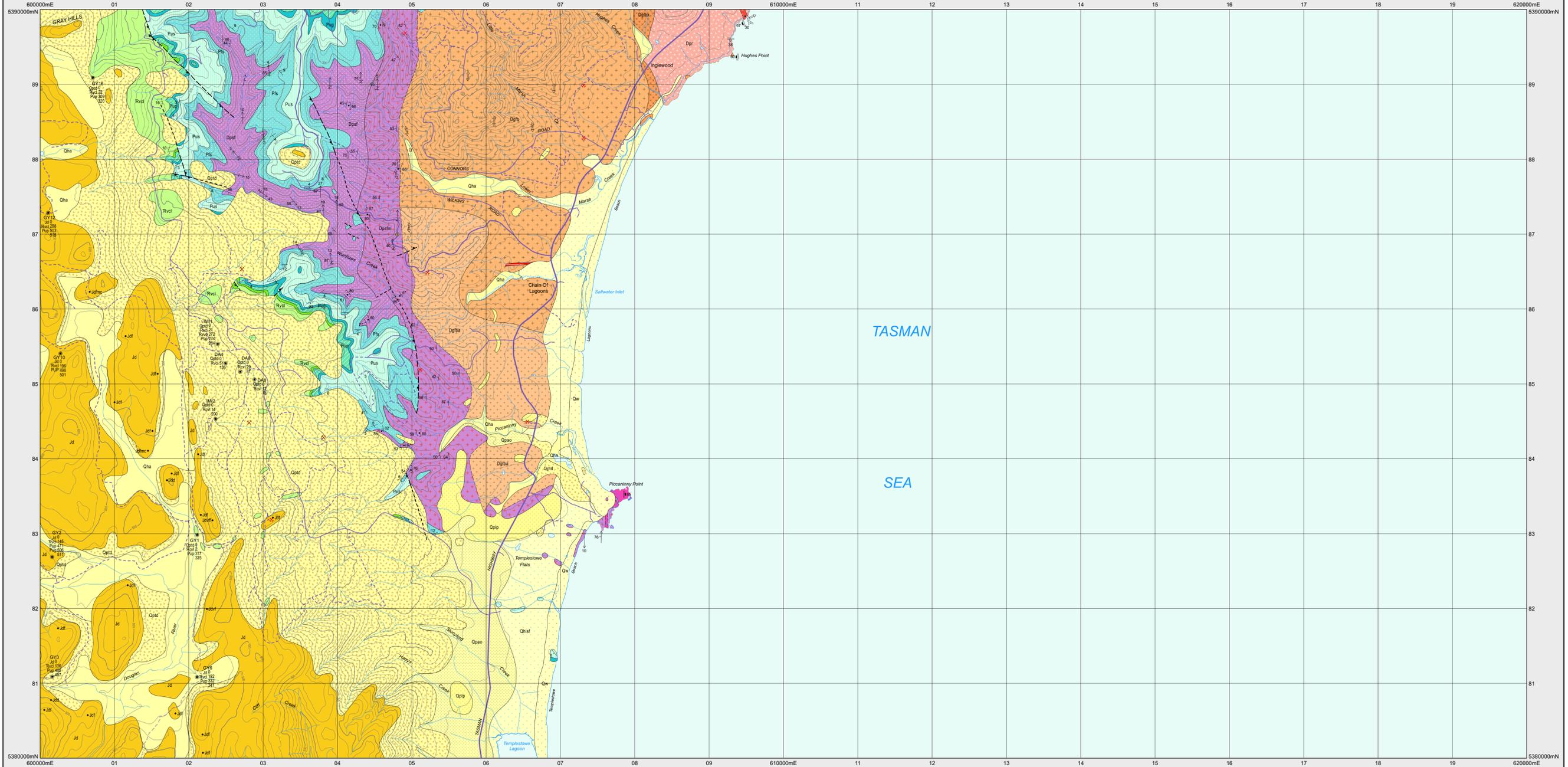


PICCANINNY

Scale 1:25 000



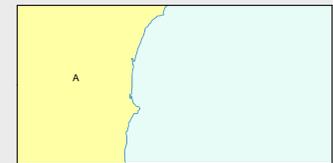
CENOZOIC	
QUATERNARY	<p>Qha Stream alluvium, swamp and marsh deposits (Qha).</p> <p>Qw Aeolian deposits and locally derived sand (Qw).</p> <p>Qhsf Sand, gravel and clay occasionally with ferruginous cement (Qhsf).</p> <p>Qpdl Talus consisting dominantly of dolerite boulders (Qpdl).</p> <p>Qppl Lag deposit derived from sand and gravel beds consisting of well sorted quartz and detritus from Permian Supergroup and older rocks (Qppl).</p> <p>Qpao Older alluvium of river terraces (Qpao).</p>
Angular unconformity.	
TRIASIC	<p>Rvcl Dominantly lithic sandstone with minor mudstone and coal (Rvcl).</p> <p>Rvvc Dominantly quartz sandstone (Rvvc).</p>
Erosional surface.	
PERMIAN	<p>Pup Poorly sorted grey mudstone, siltstone and rare sandstone, unfossiliferous except for rare forams (Pup).</p> <p>Pvg Thickly bedded usually poorly sorted sandstone passing upwards into interbedded sandstone, siltstone and mudstone. Marine fossils abundant in places (Pvg).</p> <p>Pus Marine limestone, calcareous mudstone and sandstone; usually richly fossiliferous (Pus).</p> <p>Pfs Dominantly well sorted quartz sandstone, usually cross-bedded and commonly with interbedded and interlamated carbonaceous shale lesser conglomerate and rare coal (Pfs).</p>
Angular unconformity.	

PALEOZOIC	
DEVONIAN	<p>Dpr Porphyry with phenocrysts of plagioclase, quartz, biotite, K-feldspar, hypersthene and apatite, in a very fine-grained groundmass; single cooling unit of rhyodacite, with sporadic basal rhyolitic pyroclastics (Dpr).</p> <p>Dpsf Lithic-rich layers in porphyry (Dpsf).</p> <p>Dpsfm Turbidity succession dominated by quartz-rich sandstone with minor siltstone and mudstone. Current related sedimentary structures abundant. Contains Devonian marine macrofossils, graptolites and vascular plant fossils (Dpsfm). Contact metamorphosed Dpsf (Dpsfm).</p>
IGNEOUS ROCKS	
JURASSIC	<p>Jd Dolerite and related rocks (Jd); containing late aphanitic dykes (Jd); very fine grained (1.5-0.7mm) (Jd); very fine- to fine-grained (0.2-1.5mm) (Jd); fine grained (0.7-1.5mm) (Jd); fine- to coarse-grained (>0.7mm) (Jd).</p>
MINOR GRANITIC INTRUSIONS	
	<p>Dgph Quartz-feldspar-biotite-hornblende porphyry (Dgph).</p>
BLUE TIER BATHOLITH AND COEVAL EXTRUSIVE ROCKS	
DEVONIAN	<p>Dgbs Generally coarse-grained equigranular to sparsely porphyritic (K-feldspar) biotite-hornblende-face pyroxene monzogranite (Dgbs); with apite intrusions (Dgbs).</p> <p>Dgbl Medium-grained, sparsely porphyritic quartz diorite with abundant fine-grained mafic enclaves and sparse hornfels xenoliths (interstitial phase of Dgbl) (Dgbl).</p> <p>Dgbs Medium-grained, sparsely porphyritic quartz diorite with abundant fine-grained mafic enclaves and sparse hornfels xenoliths (interstitial phase of Dgbl) (Dgbs).</p>
MIDDLE DEVONIAN	<p>Dpr Porphyry with phenocrysts of plagioclase, quartz, biotite, K-feldspar, hypersthene and apatite, in a very fine-grained groundmass; single cooling unit of rhyodacite, with sporadic basal rhyolitic pyroclastics (Dpr).</p> <p>Dpsf Lithic-rich layers in porphyry (Dpsf).</p>
LOWER DEVONIAN	<p>Dgref Coarse-grained, equigranular to medium-grained, sparsely porphyritic (K-feldspar) hornblende-biotite-micro pyroxene granodiorite with very common mafic enclaves (Dgref) (Long Point Granodiorite; I-type; at Piccaniny Point on this sheet).</p>

CONTACTS	
—	Geological contact.
—	Unconformable lithological contact.
—	Igneous intrusive contact.
—	Limit of mapping of sub-unit within undifferentiated rock unit.
—	Limit of detailed mapping.

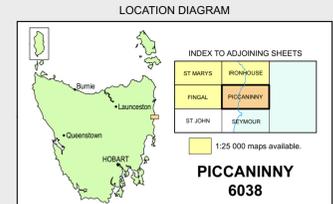
FAULTS	
—	Normal fault (downthrown side indicated).
—	Strike and dip of bedding right way up; overturned; facing unknown.
—	Strike of vertical bedding, facing unknown.
—	Strike and dip of cleavage of unspecified type and relative age.
—	Trend and plunges of minor fold hingeline, unspecified relative age; with dip and dip direction of axial surface; with vertical axial surface.
—	Trend and plunges of major fold hinge line, unspecified relative age; with dip and dip direction of axial surface; with vertical axial surface.
—	Strike and dip of mafic schlieren associated with granitic rock.
—	Strike and dip of foliation due to alignment of hornblende and/or biotite in granitic rock.
—	Trend of preferred orientation of hornblende and/or biotite in granitic rock.
—	Borehole location with name, depth of rock units encountered, and final depth.
—	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.

SOURCE DIAGRAM	
Orange	Highly detailed (eg. more detailed than 1:25 000 scale mapping).
Yellow	Detailed systematic (eg. 1:25 000 map or equivalent detail).
Light Green	Regional systematic (eg. 1:50 000, 1:63 360 map or equivalent detail).
Dark Green	Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
Light Blue	Reconnaissance mapping with sparse ground traverses.
Dark Blue	Reconnaissance mapping with limited or no ground information.



Compiled by D.C.Green, B.Sc.(Hons), Ph.D., 2007 from the following sources (see source diagram):
A. TURNER, N.J., CALVER, C.R., CASTLEDEN, R.H. and BALLIE, P.W. 1964. Geological Atlas 1:50 000 Series. Sheet 49 (8514N), St. Marys.

REFERENCE THIS MAP AS:
GREEN, D.C. 2007 (compiler). Digital Geological Atlas 1:25 000 Scale Series. Sheet 6038 Piccaniny, 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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