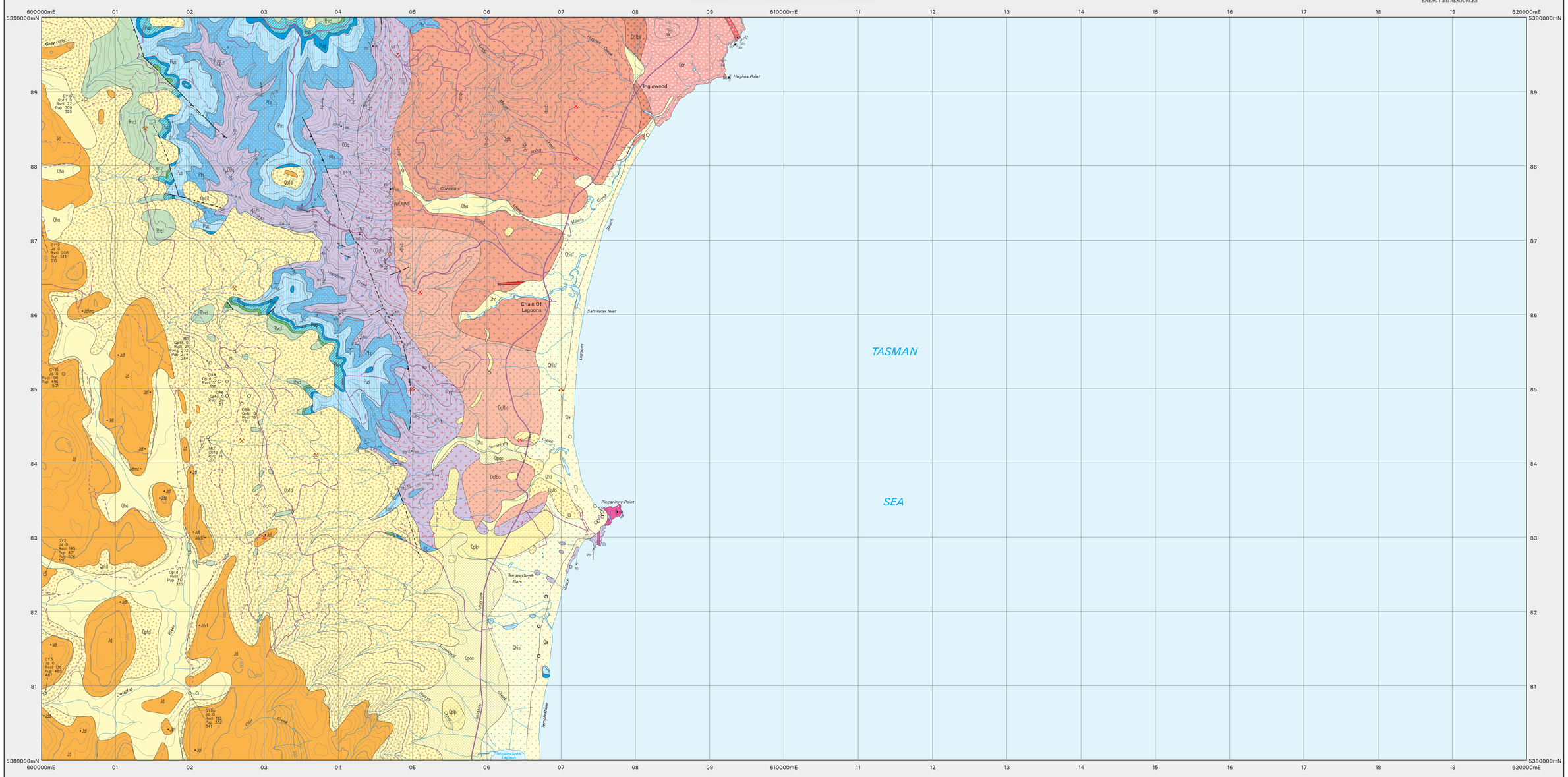
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
PICCANINNY, SHEET 6038

PICCANINNY

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CENOZOIC	QUATERNARY	Qha	Stream alluvium, swamp and marsh deposits (Qha).
		Qw	Aeolian deposits and locally derived sand (Qw).
	PLEISTOCENE - HOLOCENE	Qptd	Talus consisting dominantly of dolerite boulders (Qptd).
		Qhief	Sand, gravel and clay occasionally with ferruginous cement (Qhief).
		Qplp	Lag deposit derived from sand and gravel beds consisting of vein quartz and detritus from Parmeener Supergroup and older rocks (Qplp).
		Qpao	Older alluvium of river terraces (Qpao).
			Angular unconformity
MESOZOIC	TRIASSIC	Rvcl	Dominantly lithic sandstone with minor mudstone and coal (Rvcl).
		Rvvq	Dominantly quartz sandstone (Rvvq).
			Erosional surface.
PALEOZOIC	PERMIAN	Pus	Poorly sorted grey mudstone, siltstone and rare sandstone, unfossiliferous except for rare forams (Pus).
		Pug	Thickly bedded usually poorly sorted sandstone passing upwards into interbedded sandstone, siltstone and mudstone. Marine fossils abundant in places (Pug).
		Pus	Marine limestone, calcareous mudstone and sandstone: usually richly fossiliferous (Pus).
		Pfs	Dominantly well sorted quartz sandstone, usually cross-bedded and commonly with interbedded and interlaminated carbonaceous shale lesser conglomerate and rare coal (Pfs).
			Angular unconformity
	ORDOVICIAN	ODq	Quartzwacke turbidite sequence of interbedded sandstone siltstone and mudstone with sandstone dominant (ODq); contact metamorphosed (ODqm).

UPPER PARMEENER SUPERGROUP

LOWER PARMEENER SUPERGROUP

IGNEOUS ROCKS

MESOZOIC	JURASSIC	Jd	Dolerite and related rocks (Jd); containing late aphanitic dykes (Jdd); very fine grained (1.2–0.7mm) (Jdvf); very fine– to fine–grained (0.2–1.5mm) (Jdvff); fine grained (0.7–1.5mm) (Jdf); fine– to coarse–grained (>0.7mm) (Jdfmc).
PALEOZOIC	LATE-EARLY (?) DEVONIAN	Dpr	Two pyroxene bearing, quartz porphyrite with very fine–grained groundmass. Single cooling unit of rhyodacite, with sporadic basal rhyolitic pyroclastics; crystal–lithic–lapilli tuff preserved at base (St Marys porphyry) (Dpr).
		Dprl	Lithic rich layers within porphyrite (Dprl).
		Dgph	Hornblende–bearing quartz–feldspar porphyry (Dgph).
		Dgfb, Dgfba	Equigranular to porphyritic adamellite with sparse feldspar phenocrysts; coarse–grained biotite and trace pyroxene (Dgfb); with aplite intrusions (Dgfba).
		Dgfbx	Xenolithic diorite (Dgfbx).
		Dgref	Foliated, equigranular to porphyritic xenolithic granodiorite, with sparse feldspar phenocrysts, coarse–grained biotite, hornblende and pyroxene (Dgref).

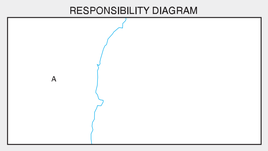
Geological boundary – position approximate.
Unconformable boundary – position accurate or approximate.
Intrusive boundary – position accurate or approximate.
Fault – inferred.
Normal Fault (downthrown side indicated) – position accurate or approximate.
(white line) Limit of mapping of sub–unit within undefferentiated rock unit (colour boundary).

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 plunge of minor fold hingeline, unspecified relative age – with dip and dip direction of axial surface; with vertical axial surface.
Trend and plunge of minor fold hinge line, unspecified relative age: vergence dextral; with dip and dip direction of 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.
Field station for adjacent readings on the map.
Notable small outcrop.
O 24 Jd 0 Rcvl 18.3 221 — Borehole with identification number, depth of rock units encountered, and final depth.
Mineral deposit location – hardrock; Mineral deposit location – alluvial — Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.
Construction materials location – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

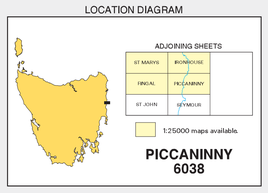
Compiled by D.C.Green, 2007 from the following sources (see responsibility diagram):

A TURNER, N.J., CALVER, C.R., CASTLEDEN, R.H. and BAILLIE, P.W. 1984. Geological Atlas 1:50 000 series, sheet 49 (8514N) St Marys.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



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Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.

AGD66 - AMG Zone 55. Contour Interval: 20 metres.

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