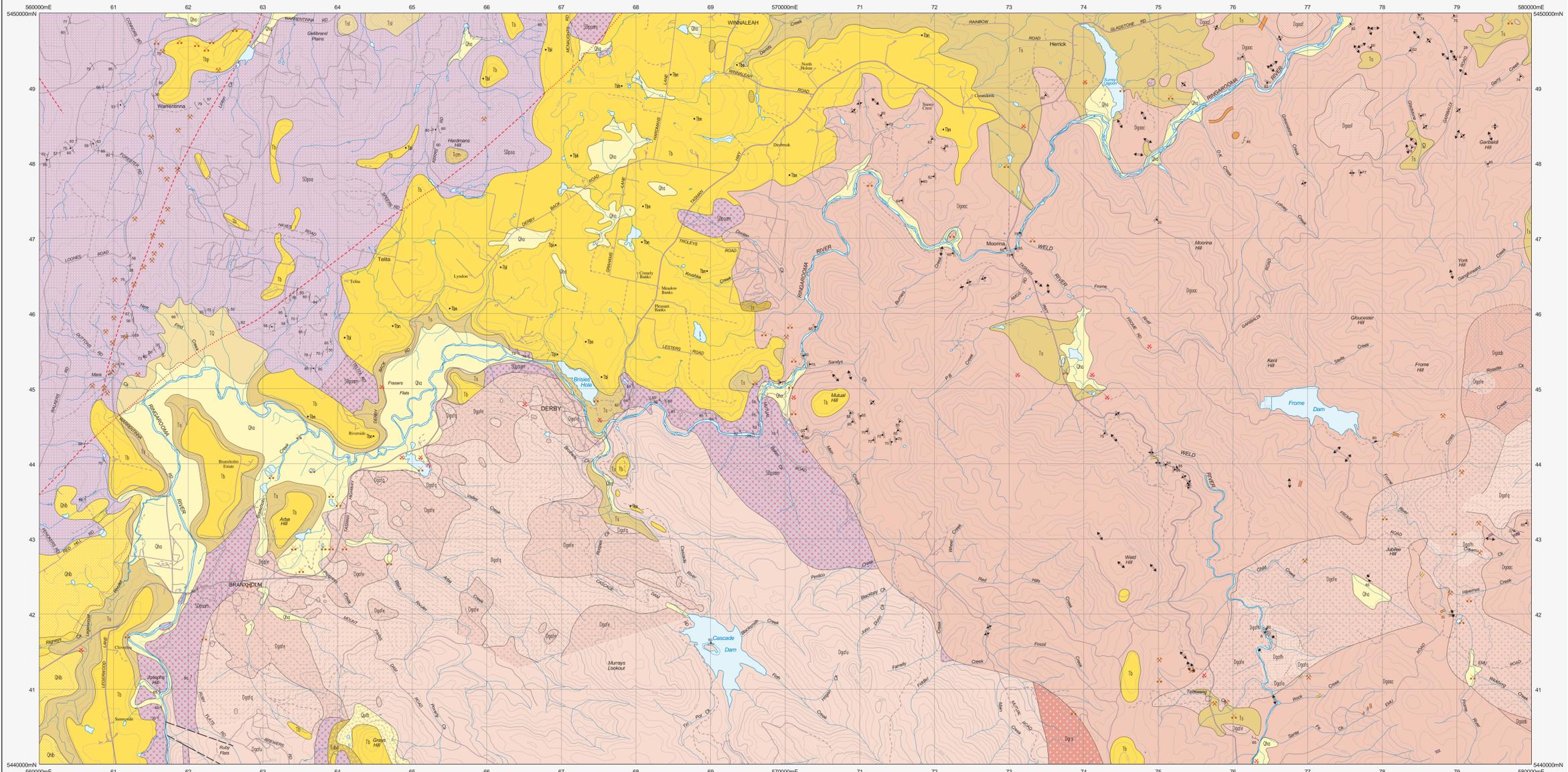


DERBY

Scale: 1:25 000



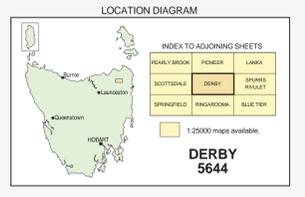
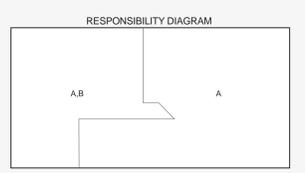
PERIOD	UNIT	DESCRIPTION
QUATERNARY	Qha	Stream alluvium, swamp and marsh deposits (Qha).
	Qhb	Basalt derived lag deposit (Qhb).
	Qp1, Qp2	Undifferentiated tala (Qp1); basalt derived tala (Qp2).
CEANOZOIC	T0	Undifferentiated Cenozoic sediments (T0).
	Tb	Basalt (Tb), including local occurrences of alkali basalt (Tba); olivine nephelinite (Tbn); limburgite (Tbl); howlite (Tbh); nodular basalt (Tbv); porphyritic (gyrogonite rosettes) basalt (Tbp).
	Ts	Conglomerate, gravel, sand, silt, mud and clay (Ts).
	Tcl	Gravel lag (Tcl).
	Tcm	Conglomerate with rounded clasts of Mathinna Supergroup and very rare weathered dolerites, often partly cemented by iron oxides (Tcm).
	Tf	Ferricrete lag (Tf).
PALEOZOIC - NEOGENE	Tf	Ferricrete (Tf).
	Tfbb	Subbasaltic boulder deposit with abundant dolerite clasts (Tfbb).
		Unconformity.
PALEOZOIC - SILURIAN/DEVONIAN	Sbasa	Dominantly medium- to fine-grained turbiditic quartz-rich sandstones, with some interbedded siltstone, rare volcanic sand flows (Sbasa).
	Sbasa*	Contact metamorphosed by granitic intrusion (Sbasa*).

PERIOD	UNIT	DESCRIPTION
MESOZOIC - PALEOZOIC - NEOGENE	Tb	Basalt (Tb), including local occurrences of alkali basalt (Tba); olivine nephelinite (Tbn); limburgite (Tbl); howlite (Tbh); nodular basalt (Tbv); porphyritic (gyrogonite rosettes) basalt (Tbp).
	Dd	Dolerite dyke (Dd).
MINOR GRANITIC INTRUSIONS	Dg1	Fine-grained equigranular granite (Dg1).
	Dg1*	Aplite (Dg1*).
	Dg1f	Quartz-feldspar porphyry (Dg1f).
BLUE TIER BATHOLITH	Dg1a	Dominantly fine- to medium-grained, equigranular to porphyritic (feldspar +/- quartz) biotite-muscovite alkali feldspar granite (Dg1a) (Mt Paris Granite, S-type).
	Dg1a*	Fine- to coarse-grained, equigranular biotite-muscovite alkali-feldspar granite/pegmatite (Dg1a*).
	Dg1a**	Fine- to medium-grained porphyritic (feldspar and rounded quartz) biotite-muscovite alkali feldspar granite/pegmatite (Dg1a**).
	Dg1a***	Fine- to medium-grained porphyritic (feldspar) biotite-muscovite alkali feldspar granite (Dg1a***) (includes parts of Mt Paris Granite and Lottian Granite).
	Dg1a****	Coarse-grained, porphyritic (feldspar) biotite-muscovite granite (Dg1a****).
	Dg1a*****	Medium-grained (K-feldspar-pegmatite-quartz) biotite-muscovite granite (Dg1a*****).
	Dg1a*****	Fine- to medium-grained, porphyritic (feldspar) biotite-muscovite monzogranite (Dg1a*****).
	Dg1a*****	Coarse-grained porphyritic (K-feldspar) to equigranular biotite-muscovite monzogranite (Dg1a*****).
	Dg1a*****	Dg1a, Dg1a*, Dg1a** - Palmyra Granite, I-type.
	Dg1a*****	Medium-grained, equigranular to rarely porphyritic (K-feldspar) hornblende-quartz monzonite and subordinate biotite granodiorite. Locally with a strong green tinge. Varying but usually strongly magnetic (susceptibility typically 0.002 to 0.008 SI) (Dg1a*****).

SYMBOL	DESCRIPTION
—	Geological boundary - position approximate
- - -	Geological boundary - inferred
- · - · -	Geological boundary - transitional
- - - - -	Fault - position approximate
- · - · -	Fault - inferred from airborne magnetic data.
- - - - -	Fault - concealed, inferred from airborne magnetic data.
- - - - -	Scarp at edge of basalt plateau
(White line)	Limit of mapping of sub-unit within undifferentiated rock unit.

SYMBOL	DESCRIPTION
↘ ↙	Strike and dip of bedding - right way up; facing unknown.
↘ ↙	Strike and dip of cleavage of unspecified type and relative age; vertical.
↘ ↙	Trend and plunge of minor fold hinge line, unspecified relative age, vergence destr.
↘ ↙	Trend and plunge of minor fold hinge line, unspecified relative age.
↘ ↙	Strike and dip of dominant joint set; vertical.
↘ ↙	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 of vertical metamorphic foliation other than cleavage.
↘ ↙	Strike and dip of dyke or vein.
•	Field station for adjacent readings on map.
•	Notable small outcrop with rock unit indicated.
⊗	Mineral deposit location - hardrock
⊗	Mineral deposit location - alluvial/tailing
⊗	Construction material/industrial mineral/gemstone location

Compiled by M.P. McLennaghan, B.Sc. (Hons), Ph.D., 1994 from the following sources (see Responsibility Diagram):
 A. BROWN, A.V., MCLLENNAGHAN, M.P., MOORE, W.R., TURNER, N.J., MCLLENNAGHAN, J., WILLIAMS, P.R., BAILEY, P.W., CORBETT, K.D., CORBETT, S.B., COOK, S.F., GROVES, D.J. and PINE, G.P. 1997. Geological Atlas 1:50 000 series, Sheet 52 (8415N) Ringwooda, Department of Mines, Tasmania.
 Updated by:
 B. M.J. Vicary, 2008 - 2010. Limited geological traverses and interpretation of airborne geophysical data as part of the TailExposure Project.



REFERENCE THIS MAP AS:
 MCLLENNAGHAN, M.P. and VICARY, M.J. 2010. Digital Geological Atlas 1:25 000 Scale Series, Sheet 5644 Derby, Mineral Resources Tasmania.
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