

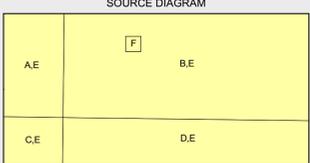
PERIOD	UNIT	DESCRIPTION
CENOZOIC	QUATERNARY	Qha: Stream alluvium, swamp and marsh deposits (Qha). Qpao: Older alluvium of river terraces (Qpao).
	PALEOCENE-NEOGENE	TQd: Probably older, possible lag deposits, consisting dominantly of Jurassic dolerite boulders (TQd). Ts: Gravel, sand, silt, mud and clay (Ts). Tb: Basalt (Tb). Tfb: Grey-billy and silcrete (Tfb).
		PERMIAN
PALEOZOIC	SHUWENIAN DEVONIAN	SDpm: Quartzite turbidite, sandstone dominant, contact metamorphosed by granitic intrusion undifferentiated Panama Group (SDpm).
	DEVONIAN	Tb: Basalt (Tb); alkali olivine basalt (Tbao), basaltic (Tbb), basaltic with percolite xenoliths (Tbx), nepheline hawaiite indicated (Tbnh). Tbal: Agglomerate and tuff (Tbal).
PALEOZOIC	DEVONIAN (?)	Dd: Dolerite dykes (Dd).

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	DEVONIAN	Dgf: Quartz-feldspar porphyry (Dgf).
	BLUE TIER BATHOLITH	Dgafe: Fine- to coarse-grained equigranular biotite-muscovite alkali feldspar granite (Dgafe).
		Dgafc: Fine- to coarse-grained equigranular alkali feldspar granite, with large brown mica aggregates and pegmatite patches (Dgafc) (Dgafe, Dgafc - Lottah Granite, S-type).
		Dgafll: Fine-grained, variably porphyritic (feldspar), muscovite-muscovite-rich monzogranite (Dgafll) (greenish variety of Poimena Granite).
		Dgaac: Coarse-grained equigranular biotite monzogranite (Dgaac).
		Dgab: Medium-grained porphyritic (K-feldspar-glaucophane-quartz) biotite-minor muscovite syenogranite/monzogranite (Dgab).
		Dgaf: Fine- to medium-grained, porphyritic (feldspar), relatively melanocratic biotite-muscovite syenogranite/monzogranite (Dgaf).
		Dgac: Coarse-grained, porphyritic to equigranular biotite-minor muscovite monzogranite (Dgac).
		Dgaf: Coarse- to fine-grained, variably porphyritic hornblende monzogranite (Dgaf).
		Dgr: Coarse- to fine-grained, variably porphyritic hornblende monzogranite, with very abundant Mathinna Supergroup xenoliths (Dgr).
		Dgrk: Coarse- to fine-grained, porphyritic (very abundant large K-feldspar phenocrysts) granodiorite, with minor or no hornblende (Dgrk) (Dgr, Dgrk, Dgrk - Scamander Tier Granodiorite, I-type).
		Dgafe: Fine-grained equigranular biotite-muscovite granite (Dgafe).
		Dgac: Coarse-grained, porphyritic to sialite to equigranular biotite-minor muscovite monzogranite (Dgac) (M. Pearson Granite, I-type).
		Dgr: Coarse-grained, sparsely porphyritic biotite-hornblende granodiorite (Dgr) (George River Granodiorite, I-type).
Dgpm: Coarse-grained monzonite/monzonite (Dgpm) ('Priority Monzonite', altered variant of George River Granodiorite).		

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	DEVONIAN	Dgrs: Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite. Locally with a strong gran foliation. Variable but usually strongly magnetic (susceptibility typically 0.002 to 0.008 SI) (Dgrs).
	LOWER DEVONIAN	Dgrw: Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite. Locally with a strong gran foliation. Weakly magnetic (susceptibility < 0.0005 SI) (Dgrw).
	DEVONIAN	Dgrw: Medium- to coarse-grained equigranular to rarely porphyritic (K-feldspar) biotite granodiorite weakly magnetic (susceptibility < 0.0005 SI) (Dgrw).

SYMBOL	DESCRIPTION
—	Geological contact.
- - - - -	Geological contact - inferred.
- . - . - .	Unconformable lithological contact.
- - - - -	Igneous intrusive contact.
- - - - -	Limit of mapping of sub-unit within undifferentiated rock unit.
- - - - -	Fault.
- - - - -	Normal fault (downthrown side indicated).
- - - - -	Lineament - visible in magnetic data.

SYMBOL	DESCRIPTION
—	Strike and dip of bedding - facing unknown.
—	Strike and dip of cleavage of unspecified type and relative age.
—	Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granitic rock.
—	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, vertical.
—	Trend of preferred orientation of hornblende and/or biotite in granitic rock.
•	Field station for adjacent readings on the map.
•	Notable small outcrop with rock unit indicated.
•	Mineral deposit location - hardrock.
•	Mineral deposit location - alluvial/alluvial.
•	Construction materials/industrial mineral/gemstone location.



Compiled by M.P. McClenaghan, B.Sc.(Hons), Ph.D., 1996 from the following sources (see source diagram):

A. BROWN, A.V. et al. 1977. Geological atlas 1:50 000 series, sheet 32 (8415N), Ringarooma. Department of Mines, Tasmania.

B. McCLENAGHAN, M.P.; WILLIAMS, P.R. 1983. Geological atlas 1:50 000 series, sheet 33 (8515N), Blue Tier. Department of Mines, Tasmania.

C. McCLENAGHAN, M.P.; EVERARD, J.L.; GOSCOMBE, B.D.; FINDLAY, R.H.; CALVER, C.F. 1993. Geological Atlas 1:50 000 series, sheet 40 (8415S), Aberton. Department of Mines, Tasmania.

D. McCLENAGHAN, M.P.; TURNER, N.J. and WILLIAMS, P.R. 1987. Geological Atlas 1:50 000 series, sheet 41 (8515S), St Helens. Department of Mines, Tasmania.

Updated by:

E. M.P. McClenaghan 2008-2009: Interpretation of airborne magnetic data particularly targeting 'bullseye' anomalies considered likely to be Paleogene-Neogene Terrestrial basalt necks together with ground checking and mapping of small areas of basalt in some instances, as part of the TasExplore Project, Mineral Resources Tasmania.

F. J.L. Everard, field reconnaissance 2010.

REFERENCE THIS MAP AS:
McCLENAGHAN, M.P. 2010 (compiler). Digital Geological Atlas 1:25 000 Scale Series. Sheet 5843 Blue Tier. 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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