

| PERMAN TRIASSIC | PERMAN TRIASSIC | PERMAN TRIASSIC |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Qha | Undifferentiated Quaternary sediments (Q). Stream alluvium, swamp and marsh deposits (Qha). | CENOZOIC QUATERNARY |
| Qhbd | Active dune and beach sand and beach gravel (Qhbd). | |
| Qpht | Talus consisting dominantly of dolerite boulders (Qpht), where dominant Lower Permian rocks (Qpht). | |
| Qpsc | Clay, sand and gravel with minor peat. May have ferruginous cement and contain marine shells (Qpsc). | |
| TQpl | Gravel, sand and derived lag (TQpl). | MESZOZOIC PERMAN TRIASSIC |
| Rb | Alkali olivine basalt/hawaiite (Rb). | MESZOZOIC TRIASIC |
| Pus | Marine limestone, calcareous mudstone and sandstone; usually richly fossiliferous (Pus). | |
| Dpr | Two pyroxene bearing quartz porphyry with very fine-grained groundmass. Single cooling unit of rhyolite, with sporadic basal rhyolitic pyroclastic crystalline tuff preserved at base (Dpr). | PALEOZOIC DEVONIAN MIDDLE DEVONIAN |
| Dpb | Brecciated and undisturbed layers of interbedded quartzite and mudstone (Dpb). | |
| Dpsf | Turbidite succession dominated by quartz-rich sandstones with minor siltstone and mudstone. Current related sedimentary structures abundant. Contains Devonian marine macrofossils, graptolites and vascular plant fossils (Scamander Formation) (Dpsf). | PALEOZOIC DEVONIAN LOWER DEVONIAN |
| SDpq | Turbidite succession dominated by quartz-rich sandstones with interbedded massive grey mudstones which locally predominate. Current related sedimentary structures common in coarser sandstones. No fossils recorded (SDpq). | |

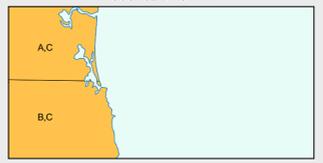
| IGNEOUS ROCKS | |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rb | Alkali olivine basalt/hawaiite (Rb). |
| BLUE TIER BATHOLITH AND COEVAL EXTRUSIVE ROCKS | |
| Dpr | Porphyry with phenocrysts of plagioclase, quartz, biotite, K-feldspar, hypersthene and augite in a very fine-grained groundmass; single cooling unit of rhyolite, with sporadic basal rhyolitic pyroclastics (St Marys Porphyry) (Dpr). |
| Dgrv | Fine- to coarse-grained, variably porphyritic granodiorite (Scamander Ter Granodiorite, type) (Dgrv). |

| CONTACTS | |
|----------|-------------------------------------|
| — | Geological contact. |
| — | Unconformable lithological contact. |
| — | Igneous intrusive contact. |
| — | Limit of detailed mapping. |

| FAULTS | |
|--------|--------------------------------------------------|
| — | Fault. |
| — | Thrust fault (teeth on upper plate) - inferred. |
| — | Thrust fault (teeth on upper plate) - concealed. |

| LINEARS | |
|---------|--------------------------------------------------------|
| — | Axial surface trace of major F ₁ anticline. |
| — | Axial surface trace of major F ₂ syncline. |
| — | Lineament - visible in magnetic data. |

| | |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| — | Strike and dip of bedding right way up; overturned; facing unknown; vertical facing unknown. |
| — | Strike and dip of cleavage of unspecified type and relative age; relative local age ST. |
| — | Trend and plunge of minor fold hinge line, relative local age F1 with dip and dip direction of axial plane; fold hinge line, unspecified relative age. |
| — | Strike and dip of igneous banding or platy alignment. |
| — | 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. |
| ✕ | Mineral deposit location - hardrock. |
| ✕ | Construction material/industrial mineral/gemstone location. |



| Color | Description |
|--------------|-----------------------------------------------------------------------------------------|
| 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). |
| Light Blue | Regional mapping less detailed than 1:63 360 map or equivalent (all other scales). |
| Light Purple | Reconnaissance mapping with sparse ground traverses. |
| Dark Purple | Remote sensing and/or geophysical interpretation with limited or no ground information. |

Compiled by M.P. McClenaghan, B.Sc. (Hons), Ph.D., 2002 from the following sources (see source diagram):
A. MCLLENAGHAN, M.P., TURNER, N.J. and WILLIAMS, P.R. 1987. Geological Atlas 1:50 000 Series, Sheet 41 (85155). St Marys, Tasmania Department of Mines.
B. TURNER, N.J., CALVER, C.R., CASTLEDEN, R.H. and BAILLIE, P.W. 1984. Geological Atlas 1:50 000 Series, Sheet 49 (85149). St Marys, Tasmania Department of Mines.

Updated by:
C. WORTHING, M.A. 2008-2010: Stratigraphic revision and re-mapping of Mathinna supergroup supported by interpretation of airborne geophysical data, as part of the TechExplore Project, Mineral Resources Tasmania.
D. WORTHING, M.A. and WOOLWARD, I.R. 2010. Explanatory Report for the Dublin Town (5840), Brilliant (5841), Falmouth (6040) and Beaumont (6041) geological map sheets, 1:25 000 Scale Digital Geological Map Sheets, Explanatory Report 3.

REFERENCE THIS MAP AS:
WORTHING, M.A. (compiler) 2010. Digital Geological Atlas 1:25 000 Scale Series, Sheet 6040 Falmouth. 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
GDAS4 - MGA Zone 55. Contour Interval: 20 metres.



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