MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
NEW NORFOLK, SHEET 5026

NEW NORFOLK

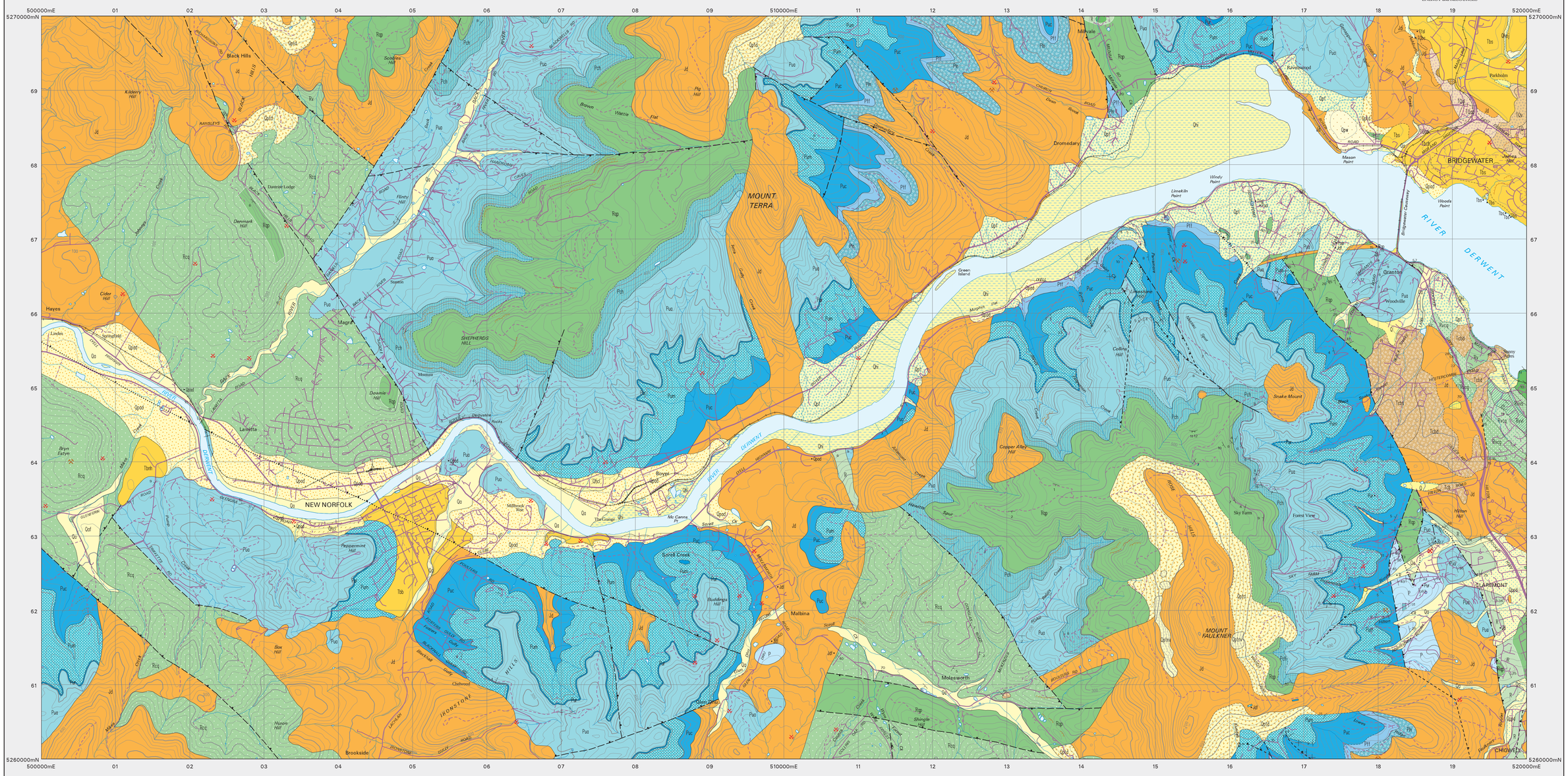
Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA

Tasmania

DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY

Unit	Description
Qhmm	Man-made deposits including refuse areas and landfill (Qhmm).
Qhw	Aeolian and locally derived sand (Qhw).
Qhl	Paralic clay, silt, sand and minor gravel deposits, includes modern salt marsh, tidal flats and deposits of older lagoons and swamps (Qhl).
Qhcl	Colluvium of clayey gravel, partly consolidated in places, derived from Lower Parmeener Supergroup rocks (Qhcl).
Qa	Alluvial gravel, sand and clay (Qa); alluvial fans (Qaf).
Qpw	Pleistocene aeolian deposits (Qpw).
Qpf	Undifferentiated probable Last Glacial alluvial fan deposits of predominantly coarse subangular gravel, and probable Last Interglacial alluvial terrace deposits of well-rounded gravel and sand (Qpf).
Qpad	Older alluvium of river terraces, predominantly dolerite-derived gravels (Qpad).
Qppd	Probable Pleistocene low gradient alluvial fan and alluvial terrace deposits; clasts predominantly of dolerite (Qppd).
Qptrv	Periglacial non-vegetated scree deposits (Qptrv).
Qptd	Talus dominantly of dolerite boulders and in places subordinate Parmeener Supergroup rocks (Qptd).
TQad	Clay-rich alluvial cobble deposits, clasts dominantly of weathered dolerite with subordinate well-rounded siliceous clasts (TQad).
TQgl	Lag deposits of siliceous cobbles, possibly derived from Tertiary deposits (TQgl).
TQv	Supra-basalt poorly lithified conglomerate with at places ferruginous cement or interbedded sandstone, clasts of well rounded cobbles and pebbles of quartz, quartzite, hornfels and traces of silicified wood and recycled Lower Parmeener lonestones (TQv).

TERTIARY

Unit	Description
Tfsl	Silcrete lag (Tfsl).
Tcmsg	Silicified gravel deposits (Tcmsg).
Tcb	Large boulder- to cobble-grade, semi-consolidated gravel with sandy clay matrix (Tcb); clasts dominantly dolerite (Tcbd); clasts dominantly Upper Parmeener Supergroup (Tcbs).
Tb	Basalt (Tb). Tholeiite (Tbs). Basanite (Tbb). Nepheline hawaiite (Tbnh). Basalt with crude layering defined by pillow lava structures, basalt breccia and massive to vesicular basalt (Tbcb). Inferred basalt beneath soil or Cainozoic deposits (Tbi).

Erosional surface.

MESOZOIC

TRIASSIC — UPPER PARMEENER SUPERGROUP

Unit	Description
Rvcq	Thickly- to thinly-bedded volcanic lithic sandstone, siltstone, mudstone and coal seams, fossil plants on some horizons (Newtown Coal Measures in part) (Rvcq).
Rvcqs	Interbedded cross-bedded white quartzose sandstone, quartz-rich lithic sandstone, siltstone and mudstone; intervals with much dark grey carbonaceous mudstone, thin lenticular coal seams and fossil plants in places (Rvcq).
Rvvl	Interbedded yellow brown or grey carbonaceous siltstone, mudstone and thin to thick-bedded quartz-rich lithic arkosic sandstone, some fossil plants, common siltstone palaeosols (Rvvl).
Rvvs	Predominantly fine-grained quartz sandstone, commonly partly silicified, interbedded with mudstone and lithic sandstone at places (Rvvs).
Rvvr	Predominantly brown, buff, grey carbonaceous and green poorly-micaceous siltstone and mudstone, interbedded with lithic sandstone, quartz sandstone and thin beds of silicified sandstone (Rvvr).
Rqm	Interbedded micaceous brown, red-purple, green and grey carbonaceous siltstone, shale, mudstone and planar-bedded, ripple-laminated or cross-bedded sandstone (Rqm).
Rqp	Freshwater, predominantly cross-bedded, quartzose to feldspathic sandstone, commonly with overturned cross-bedding, and subordinate micaceous siltstone (Rqp).
Rcq	Rcq=Rqp+Pch
Pch	Freshwater, predominantly cross-bedded feldspathic sandstone and micaceous siltstone, minor thin beds of quartz-pebble conglomerate; upper interval less feldspathic (correlate of Cygnet Coal Measures) (Pch).

PERMIAN — LOWER PARMEENER SUPERGROUP

Unit	Description
Pua	Generally unfossiliferous, glaciomarine interbedded non-fissile and fissile, bioturbated mudstone, siltstone and minor poorly-sorted pebbly sandstone (Abels Bay Formation) (Pua).
Pur	Moderately well-sorted, fine to medium-grained marine feldspathic sandstone with quartz granules and pebbles and thin pebbly layers (Risdon Sandstone) (Pur).
Pum	Generally poorly fossiliferous glaciomarine fine-grained sandstone, siltstone and mudstone with common lonestones and pebble-rich patches; topmost beds richly fossiliferous; lower beds dominantly sandstone and variably fossiliferous (Malbina Formation) (Pum).
Puc	Dominantly richly fossiliferous, interbedded glaciomarine grey bioclastic and argillaceous limestone and calcareous siltstone; lower beds of fossiliferous siltstone; basal pebbly sandstone bed locally present (Berriedale Limestone, Nassau Siltstone and Rayner Sandstone) (Puc).
Prf	Paralic, generally unfossiliferous dark grey mudstone and siltstone with subordinate very fine-grained, well-sorted sandstone; minor glaciomarine intervals of sparsely fossiliferous, bioturbated dark grey siltstone and pebbly sandstone (Faulkner Group) (Prf).
Pin	Generally fossiliferous glaciomarine siltstone, calcareous siltstone and sandstone, with lonestones; richly fossiliferous central interval with some impure limestone; upper interval dominantly of less fossiliferous micaceous siltstone (Bundella Formation) (Pin).

INTRUSIVE ROCKS

MESOZOIC — JURASSIC

Unit	Description
Jd	Dolerite (Jd). Dolerite of grainsize 0 – 1.5mm (Jdf), 1.5 – 3mm (Jdm), > 3mm (Jdc) indicated in places. Dolerite inferred beneath soil or Cainozoic deposits (Jdi).

Geological boundary – position accurate or approximate.
Geological boundary – inferred.
Scarp.
Airphoto lineament.
Airphoto lineament – trace of bedding.
(white line) Limit of mapping of sub-unit within undifferentiated rock unit.
Fault – position accurate or approximate.
Fault – concealed.
Fault – position accurate or approximate, downthrown side indicated.
Fault – inferred, downthrown side indicated.
Fault – concealed, downthrown side indicated.
Small outcrop or lag occurence.

Strike and dip of bedding, right way up.
Horizontal bedding.
Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified.
Strike and dip of cataclastic foliation.
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 C.R. Calver, A. Ezzy and S.M. Forsyth 2005
(see responsibility diagram):

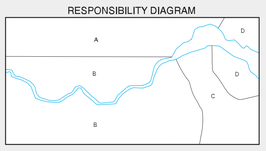
A Leaman, D.E. & Legge, P.J. 1975. Geological atlas 1:50000 series. Sheet 79 (8312N) Brighton; minor revision by C.R. Calver.

B Leaman, D.E. 1972. Geological atlas 1:50000 series. Sheet 82 (8312S) Hobart; minor revision by C.R. Calver.

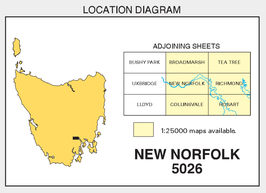
C 1:25000 scale mapping by C.R. Calver and A. Ezzy 2003.

D 1:25000 scale mapping by C.R. Calver and S.M. Forsyth 2002.

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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