Department of State Growth
MINERAL RESOURCES TASMANIA

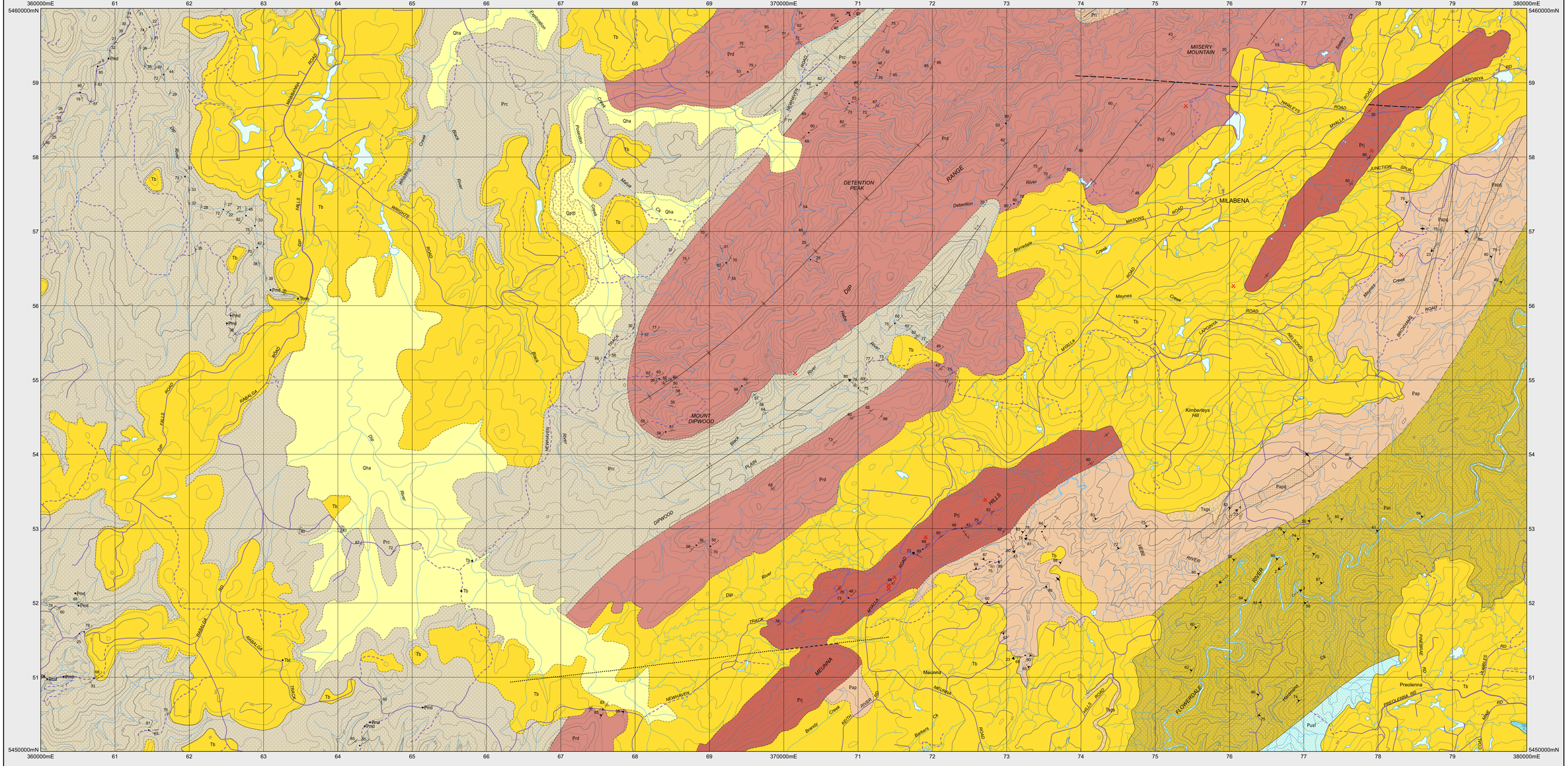
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
MILABENA, SHEET 3645

MILABENA

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

- QUATERNARY — HOLOCENE
  - Qha — *Stream alluvium, swamp and marsh deposits (Qha).*
  - Qptb — *Basalt talus (Qptb).*
- PLEISTOCENE ?
- *Erosional surface.*
- PALEOGENE-NEOGENE ?
  - Tb — *Basalt (Tb) including local occurences of nepheline hawaiite (Tbnh) indicated and transitional olivine basalt (Tbr) indicated.*
  - Tsgs — *Interbedded siliceous gravel, quartz sand and clay (Tsgs).*
- *Unconformity, usually low-angle.*

PALEOZOIC

- CARBONIFEROUS ? — PERMIAN
  - Pusf — *Fine- to coarse-grained sandstone and pebbly sandstone (Pusf) (Flowerdale Sandstone).*
- *Inferred disconformity.*
  - Ptw — *Interbedded diamictite (including tillite), pebbly mudstone and laminated mudstone (rhythmite), with minor conglomerate and sandstone (Ptw) (Correlate of the Wynyard Tillite).*
- *Angular unconformity.*

MESOPROTEROZOIC - NEOPROTEROZOIC

ROCKY CAPE GROUP
- Prj — *Well-bedded, cross-bedded, mostly medium to coarse-grained orthoquartzite (Prj) (Jacob Quartzite).*
- Pri — *Laminated grey siltstone, mudstone and dolomite (Pri) (Irby Siltstone).*
- Prd — *Well-bedded, cross bedded, mostly fine grained orthoquartzite and subordinate siltstone (Prd) (Detention Subgroup).*
- Prc — *Interbedded, black, dark grey and green, commonly pyritic, laminated siltstone and mudstone, with rare sandstone and mud pellet conglomerate (Prc) (Cowrie Siltstone).*

Transitional metamorphic boundary between Rocky Cape Group and Arthur Metamorphic Complex.

ARTHUR METAMORPHIC COMPLEX
- Pap / Papq — *Phyllite with minor pelitic schist, foliated quartzite and dolomite, and rare conglomerate (Pap). Units of foliated quartzite (Papq) indicated.*
- Pac — *Chloritic schist with minor phyllite, dolomite and magnesite (Pac).*

LOWER PARMENEER SUPERGROUP
- Lymingtonian Stage
- Hellyerian Stage

REKUNIAN SERIES

IGNEOUS ROCKS

CENOZOIC — PALEOGENE-NEOGENE
- Tb — *Basalt (Tb) including local occurences of nepheline hawaiite (Tbnh) indicated and transitional olivine basalt (Tbr) indicated.*

NEOPROTEROZOIC
- • Pmd — *Local occurrences of dolerite dykes (Pmd) indicated.*

CONTACTS
- *Geological contact.*
- *Geological contact - inferred.*
- *Transitional geological contact.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*

FAULTS
- *Fault.*
- *Fault - inferred.*
- *Fault - concealed.*

LINEARS
- *Axial surface trace of major antiform.*
- *Axial surface trace of major synform.*
- *Axial surface trace of major overturned antiform.*

- *Strike and dip of bedding, facing known - right way up; overturned; facing unknown.*
- *Strike of vertical bedding - facing indicated by single tic; facing unknown.*
- *Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.*
- *Strike and dip of crenulation cleavage; vertical.*
- *Strike and dip of compositional layering.*
- *Strike and dip of metamorphic foliation - dipping; vertical.*
- *Strike and dip of metamorphic foliation parallel to compositional layering.*
- *Trend and plunge of minor fold hinge line, unspecified relative age; symmetrical with dip and dip direction of axial surface.*
- *Trend and plunge of minor fold hinge line, relative local age F_n with dip and dip direction of axial surface; symmetrical.*
- *Trend and plunge of mineral elongation lineation.*
- *Strike of vertical kink band - dextral; sinistral; movement sence unspecified.*
- *Field station for adjacent readings on the map.*
- *Notable small outcrop with rock unit indicated.*
- *Notable small float or lag occurrence with rock unit indicated.*
- *Construction material/industrial mineral/gemstone location.*

SOURCE DIAGRAM

- Highly detailed (eg. more detailed than 1:25 000 scale
- Detailed systematic (eg.1:25 000 map or equivalent
- Regional systematic (eg.1:50 000, 1:63 360 map or equivalent
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by D.B. Seymour, B.Sc.(Hons), Ph.D., 1998 from the following sources (see source diagram):

A EVERARD, J.L., SEYMOUR, D.B., and BROWN, A.V. 1996. Geological Atlas 1:50 000 Series. Sheet 27 (7915N), Trowutta. Mineral Resources Tasmania.

B GEE, R.D. GULLINE, A.B. and BRAVO, A.P. 1967. Geological Atlas 1 Mile Series. Sheet 28 (8015N), Burnie. Tasmanian Department of Mines.

REFERENCE THIS MAP AS:

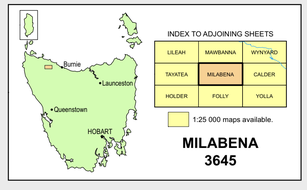
SEYMOUR, D.B. (compiler) 1998. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3645 Milabena. Mineral Resources Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GDA94 - MGA Zone 55. Contour Interval: 20 metres.

LOCATION DIAGRAM



Map generated: 30-AUG-2023

WARNING: INKS ARE LIGHT SENSITIVE.