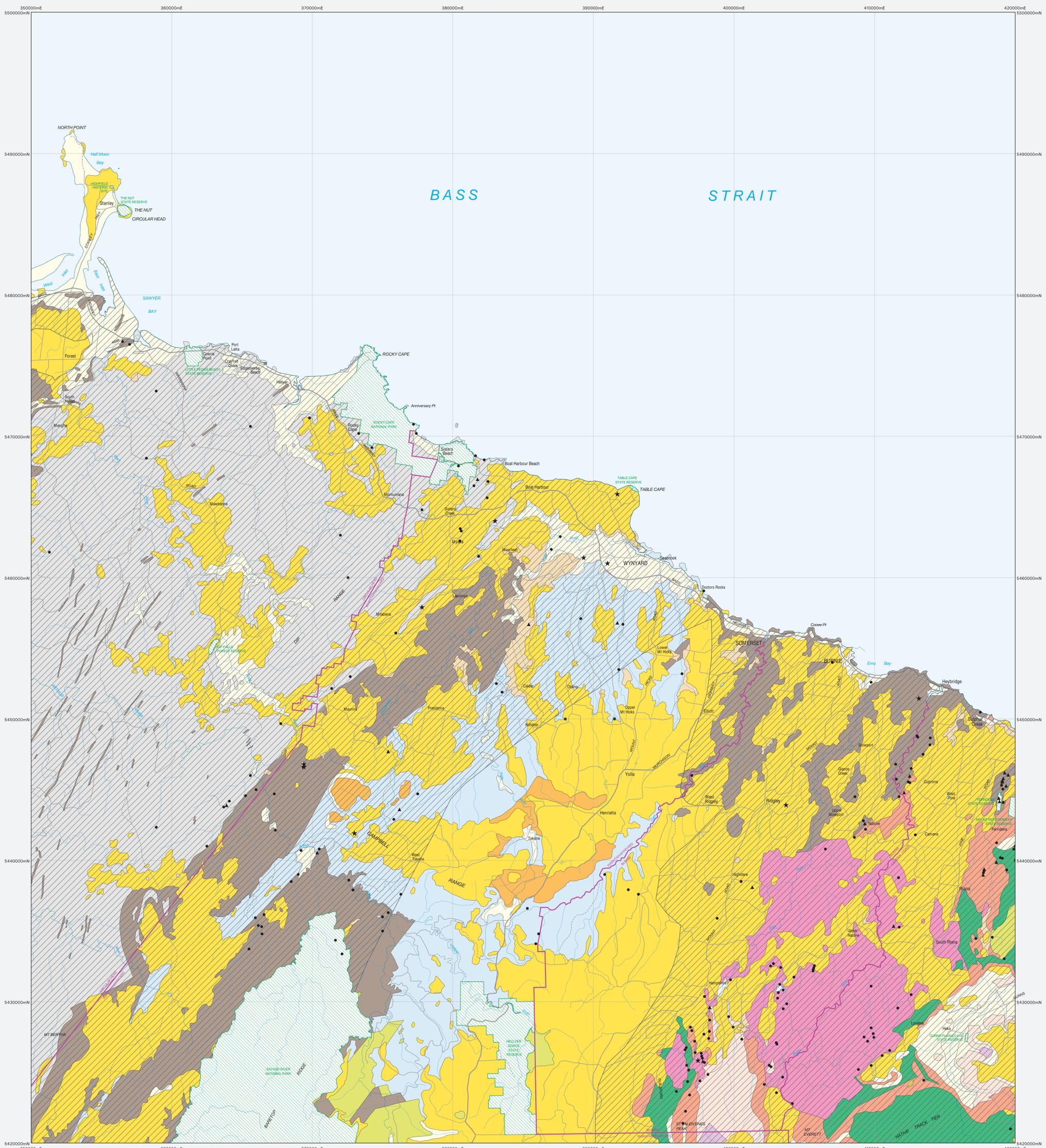


# MAP 4A – SIMPLIFIED GEOLOGY AND AREAS OF HIGHEST MINERAL EXPLORATION AND MINING POTENTIAL



- QUATERNARY** 0 – 1.8 million years before present  
Gravel, sand, clay, mud and minor limestone.
- TERTIARY** 1.8 – 65 million years before present  
Unconsolidated or cemented gravel, sand, silt and clay, minor limestone and brown coal.  
Basalt and related sediments.
- CRETACEOUS** 65 – 141 million years before present  
Intrusive and volcanic igneous rocks of various compositions (Cygnet and Cape Portland areas only).
- JURASSIC** 141 – 205 million years before present  
Dolerite.
- TRIASSIC** 205 – 251 million years before present  
Sandstone and mudstone, minor black coal, basalt and volcanic sediments.
- PERMIAN – LATE CARBONIFEROUS** 251 – 314 million years before present  
Mudstone, pebbly mudstone, sandstone and conglomerate, minor limestone, black coal and of shale.
- EARLY CARBONIFEROUS – ORDOVICIAN** 340 – 490 million years before present  
Granite and related intrusive and minor volcanic igneous rocks of various compositions.  
Folded and locally deformed sandstone, quartzite, siltstone, shale and slate, minor quartz veining.
- ORDOVICIAN** 434 – 490 million years before present  
Limestone and minor sandstone, siltstone and shale.
- MIDDLE ORDOVICIAN – LATE CAMBRIAN** 460 – 500 million years before present  
Folded and locally deformed conglomerate, sandstone, quartzite, siltstone and shale.

- LATE – MIDDLE CAMBRIAN** 490 – 510 million years before present  
Folded, deformed and altered volcanic rocks of various compositions, and related intrusive igneous rocks, sandstone, siltstone and conglomerate (includes Mt Read Volcanics).
- MIDDLE – EARLY CAMBRIAN** 510 – 545 million years before present  
Serpentine and greenstones. Deformed and metamorphosed volcanic and intrusive igneous rocks of ultra mafic and basaltic compositions, and associated sandstone, mudstone and chert.
- NEOPROTEROZOIC** 545 – 1000 million years before present  
Deformed and metamorphosed basaltic volcanic rocks and associated sandstone, siltstone, shale, dolomite, chert and schist.
- MESOPROTEROZOIC** 1000 – 1600 million years before present  
Granite (King Island only).  
Deformed and metamorphosed quartzite, siltstone, conglomerate, schist and dolomite.

Area of highly prospective rocks. These areas have a high potential for exploration and mine development, especially in the vicinity of existing mine sites and prospects, as indicated.  
 Note: Land outside the highly prospective areas, except Reserved Land, can still be subject to exploration and mining tenements.  
 Reserved Land / Land unavailable for exploration and mining tenement application.  
 Municipality boundary.  
 Active Mine  
 Abandoned Mine  
 Prospect or Mineral Occurrence

**THIS MAP SHOULD BE USED IN CONJUNCTION WITH MAP B – MINING LEASES AND ACTIVE MINES, PITS AND QUARRIES.**

Scale: 1:100000  
0 2 4 6 8 10km  
AGCS – AMG Zone 56  
Contour Interval: 100 metres

The simplified geology for this map is derived from the 1:250000 digital geology of Tasmania.

Mineral potential data compiled by K. Morrison M. Econ. Geol. (based on Weighted Composite Mineral Potential information compiled for the Tasmanian Regional Forest Agreement).

Mineral deposit information derived from Mineral Resources Tasmania DEPOSITs data base. Data point position has not been verified in every case.

Digital base information from Land Information Services Division, Department of Primary Industries, Water and Environment.

Map produced by the Data Management Branch, Mineral Resources Tasmania using G.I.S. software.

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