

# MAP 19A – SIMPLIFIED GEOLOGY AND AREAS OF HIGHEST MINERAL EXPLORATION AND MINING POTENTIAL



|   |  |  |
|---|--|--|
| <b>QUATERNARY</b> 0 – 1.8 million years before present<br>Gravel, sand, clay, mud and minor limestone.  | <b>TRIASSIC</b> 205 – 251 million years before present<br>Sandstone and mudstone, minor black coal, basalt and volcanic sediments.   | <b>LATE – MIDDLE CAMBRIAN</b> 490 – 510 million years before present<br>Folded, deformed and altered volcanic rocks of various compositions, and related intrusive igneous rocks, sandstone, siltstone and conglomerate (includes Mt Read Volcanics).        |
| <b>TERTIARY</b> 1.8 – 65 million years before present<br>Unconsolidated or cemented gravel, sand, silt and clay, minor limestone and brown coal.<br>Basalt and related sediments. | <b>PERMIAN – LATE CARBONIFEROUS</b> 251 – 314 million years before present<br>Mudstone, pabbly mudstone, sandstone and conglomerate, minor limestone, black coal and of shale. | <b>MIDDLE – EARLY CAMBRIAN</b> 510 – 545 million years before present<br>Serpentine and greenstones. Deformed and metamorphosed volcanic and intrusive igneous rocks of ultra mafic and basaltic compositions, and associated sandstone, mudstone and chert. |
| <b>CRETACEOUS</b> 65 – 141 million years before present<br>Intrusive and volcanic igneous rocks of various compositions (Cygnet and Cape Portland areas only).                    | <b>EARLY CARBONIFEROUS – ORDOVICIAN</b> 340 – 490 million years before present<br>Granite and related intrusive and minor volcanic igneous rocks of various compositions.      | <b>NEOPROTEROZOIC</b> 545 – 1000 million years before present<br>Deformed and metamorphosed basaltic volcanic rocks and associated sandstone, siltstone, shale, dolomite, chert and schist.  |
| <b>JURASSIC</b> 141 – 205 million years before present<br>Dolerite.   | <b>ORDOVICIAN</b> 434 – 490 million years before present<br>Limestone and minor sandstone, siltstone and shale.  | <b>MESOPROTEROZOIC</b> 1000 – 1600 million years before present<br>Granite (King Island only).<br>Deformed and metamorphosed quartzite, slate, siltstone, conglomerate, schist and dolomite.   |
|   | <b>MIDDLE ORDOVICIAN – LATE CAMBRIAN</b> 460 – 500 million years before present<br>Folded and locally deformed conglomerate, sandstone, quartzite, siltstone and shale.        |  |

**Scale: 1:100000**  
0 2 4 6 8 10km  
AZGDE – AMG Zone 55  
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 Waigand 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.

While every care has been taken in the preparation of this data no warranty is given as to the correctness of the information and no liability is accepted for any assessment or opinion or for any error or omission. No reader should act or fail to act on the basis of any of the material contained herein. Expenses should be met by professional advisers. As a result the Crown in right of the State of Tasmania and its employees, contractors and agents shall not be liable in any way for any liability (including all liability from attribution to any negligent or wrongful act or omission) to any person whatsoever in respect of any thing done or omitted to be done by any such person in reliance whether in tort or in part upon any of the material in this data. Crown copyright reserved.

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

**INDEX TO ADJOINING MAP SHEETS**

MUNICIPAL PLANNING INFORMATION SERIES  
**MAP 19A**