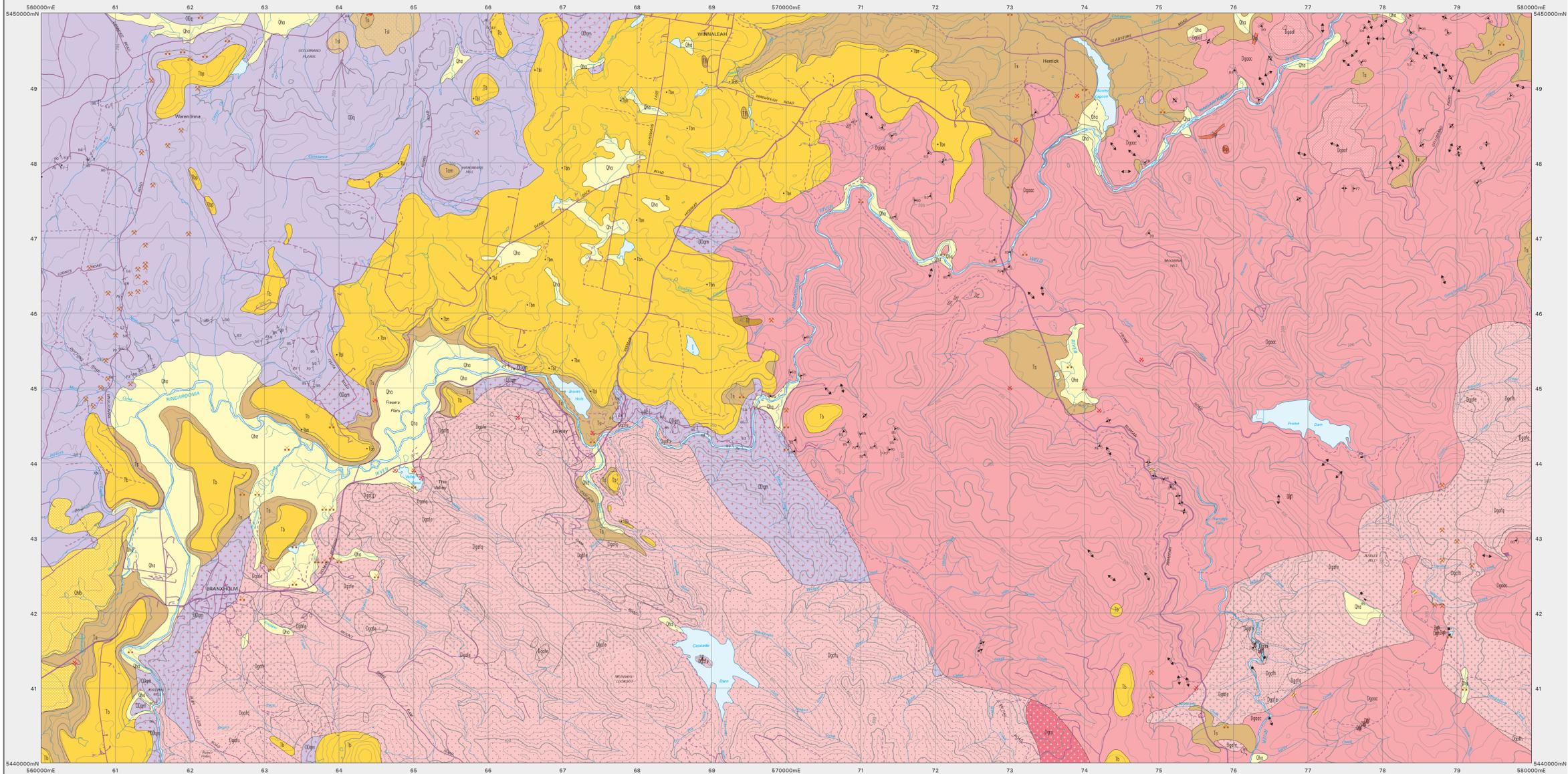
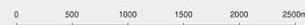


# DERBY

Scale: 1:25 000



<p><b>QUATERNARY</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffffcc; border: 1px solid black; margin-right: 5px;"></span> Qha Stream alluvium, swamp and marsh deposits (Qha).</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffcc00; border: 1px solid black; margin-right: 5px;"></span> Qhb Basalt derived from lag deposit (Qhb).</li> </ul> <p><b>TERTIARY</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #d2b48c; border: 1px solid black; margin-right: 5px;"></span> T Conglomerate, gravel, sand, silt, mud and clay (T); conglomerate with rounded clasts of Maitland Group and very rare weathered dolerite, often partially cemented by iron oxide (Tm); gravel lag (Tl); terraced lag (Tt); Ferricrete (Ft). Basaltic rock (Tb).</li> </ul> <p><b>ORDOVICIAN - SILURIAN(?) - EARLY DEVONIAN</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #d9ead3; border: 1px solid black; margin-right: 5px;"></span> O Quartzweck turbidite sequence of interbedded sandstone, siltstone and mudstone with sandstone domes (O); coarse metamorphosed by granitic intrusion (Ogm); (O) (Maitland Group).</li> </ul> <p><b>IGNEOUS ROCKS</b></p> <p><b>TERTIARY</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffcc00; border: 1px solid black; margin-right: 5px;"></span> Tb Basalt (Tb); alkali basalt (Tba); alkali nephelinite (Tbn); limburgite (Tli); hawaiite (Tht); nodular basalt (Tnb); porphyritic (pyroxene resitized) basalt (Tbp).</li> </ul> <p><b>DEVONIAN(?)</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #cc0000; border: 1px solid black; margin-right: 5px;"></span> D Dolerite dyke (D).</li> </ul>	<p><b>MINOR GRANITIC INTRUSIONS</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e67e22; border: 1px solid black; margin-right: 5px;"></span> Dgl Fine-grained granite/damellite (Dgl); apite (DglA).</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e74c3c; border: 1px solid black; margin-right: 5px;"></span> Dgf Quartz-feldspar porphyry (Dgf).</li> </ul> <p><b>BLUE TIER BATHOLITH</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e91e63; border: 1px solid black; margin-right: 5px;"></span> Dgfb Doleritic, fine- to coarse-grained, biotite-muscovite alkali-feldspar granite/damellite (Dgfb).</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e91e63; border: 1px solid black; margin-right: 5px;"></span> Dgfd Porphyritic feldspar and rounded quartz, fine- to medium-grained, biotite-muscovite alkali-feldspar granite/damellite (Dgfd).</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e91e63; border: 1px solid black; margin-right: 5px;"></span> Dgfh Porphyritic feldspar, fine- to medium-grained, biotite-muscovite alkali-feldspar granite/damellite (Dgfh).</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e91e63; border: 1px solid black; margin-right: 5px;"></span> Dgfi Porphyritic feldspar, coarse-grained, biotite-muscovite granite/damellite (Dgfi).</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e91e63; border: 1px solid black; margin-right: 5px;"></span> Dgfa Porphyritic feldspar, fine- to medium-grained, biotite-muscovite granite/damellite (Dgfa).</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e91e63; border: 1px solid black; margin-right: 5px;"></span> Dgac Coarse-grained porphyritic (K-feldspar) to equigranular biotite-minor muscovite granite/damellite (Dgac).</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e91e63; border: 1px solid black; margin-right: 5px;"></span> Dgpc Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite and subvolcanic biotite granodiorite. Locally with a strong grain foliation. Variably but usually strongly magnetic. Susceptibility typically 0.002 to 0.008 SI (Dgpc).</li> </ul> <p><b>Geological boundaries</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; border-bottom: 1px solid black; margin-right: 5px;"></span> Geological boundary - position approximate</li> <li><span style="display: inline-block; width: 15px; border-bottom: 1px dashed black; margin-right: 5px;"></span> Geological boundary - inferred</li> <li><span style="display: inline-block; width: 15px; border-bottom: 1px dotted black; margin-right: 5px;"></span> Geological boundary - transitional</li> <li><span style="display: inline-block; width: 15px; border-bottom: 1px solid black; margin-right: 5px;"></span> Fault - position approximate</li> <li><span style="display: inline-block; width: 15px; border-bottom: 1px dashed black; margin-right: 5px;"></span> Fault - inferred</li> <li><span style="display: inline-block; width: 15px; border-bottom: 1px dotted black; margin-right: 5px;"></span> Fault - concealed</li> <li><span style="display: inline-block; width: 15px; border-bottom: 1px solid black; margin-right: 5px;"></span> Scarp at edge of basalt plateau</li> <li><span style="display: inline-block; width: 15px; border-bottom: 1px solid black; margin-right: 5px;"></span> Airphoto lineament</li> <li><span style="display: inline-block; width: 15px; border-bottom: 1px solid black; margin-right: 5px;"></span> Notable small outcrop or float / lag occurrence</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> / / Strike and dip of bedding - right way up; facing unknown.</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px dashed black; margin-right: 5px;"></span> / / Strike and dip of cleavage - relative local age St vertical.</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px dotted black; margin-right: 5px;"></span> / / Trend and plunge of minor fold hinge line, unspecified relative age, vergence <i>destr.</i></li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> / / Strike and dip of dominant joint set; vertical.</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px dashed black; margin-right: 5px;"></span> / / Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granitic rock; vertical.</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px dotted black; margin-right: 5px;"></span> / / Trend of preferred orientation of K-feldspar phenocrysts in granitic rock.</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> / / Strike of vertical foliation due to alignment of hornblende and/or biotite in granitic rock.</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> / / Strike and dip of igneous banding or platy alignment.</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> / / Strike and dip of dyke or vein.</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> / / Mineral deposit location - hardrock</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> / / Mineral deposit location - alluvial</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> / / Construction materials location</li> </ul> <p><small>Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.</small></p>	<p>Geology based on: BROUW, A.V., MCLELAGHAN, M.P., MOORE, W.B., TURNER, N.J., MCLELAGHAN, J., WILLIAMS, F.R., BULLIE, P.W., CORRETT, S.J., CORRETT, E.B., COX, S.C., GRAVES, D.L., PIKE, G.P. 1977. Geological atlas 1:50 000 series, sheet 52 (S126). Reprographic, Department of Mines, Tasmania.</p> <p>Compiled by M.P. McLellan.</p>
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**RESPONSIBILITY DIAGRAM**

**LOCATION DIAGRAM**

ADJOINING SHEETS

FLINDERS ISLAND PENNETH LANKA  
SCOTTSDALE DERBY FLEMING  
SPYINGFIELD BRUNSWICK BLUE TIER

1:25000 maps available

**DERBY 5644**

Base data from the LIST, Copyright State of Tasmania.  
Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.  
AID64 - AMG Zone 55. Contour Interval: 20 metres.

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