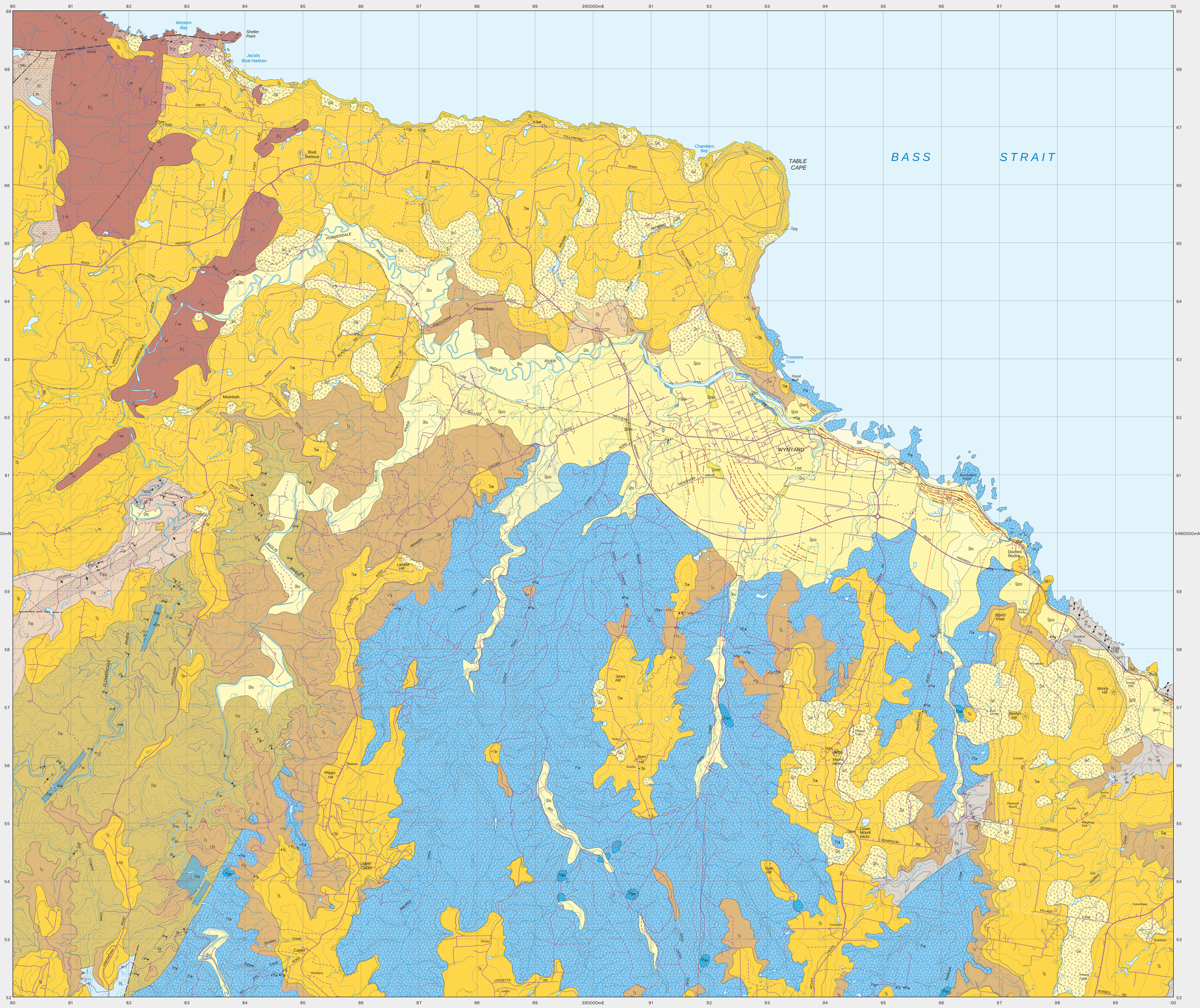
Tasmania
Explore the possibilities

Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

TASMANIAN LANDSLIDE MAP SERIES

WYNYARD – GEOLOGY

MAP 3



Scale: 1:25 000

0 500 1000 1500 2000 2500m

GDA94 – MGA Zone 55. Contour Interval 20 metres.

GDA

CENOZOIC

QUATERNARY

- **Qhmm** – *Man–made deposits (Qhmm).*
- **Qhb** – *Beach sand (Qhb).*
- **Qhis** – *Paralic clay, silt, sand and minor gravel deposits of modern salt marsh and associated tidal flats (Qhis).*
- **Qha** – *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qhwr** – *Sand of stabilised longitudinal beach ridges (Qhwr).*
- **Qxt** – *Landslide deposits predominantly derived from weathered Tertiary rocks (Qxt).*
- **Qaf** – *Alluvial fans (Qaf).*
- **Qpt** – *Talus (Qpt). Talus derived from Tertiary basalt (Qptb).*
- **Qpao** – *Older alluvium of river terraces (Qpao).*
- **Qpso** – *Older sand, gravel and clay on coastal plains (Qpso).*

TQ – *Undifferentiated Cenozoic sediments (TQ).*

TERTIARY

- **Tb** – *Predominantly deeply–weathered basalt (Tbw).*
- **Tbc** – *Crinanite neck and probable crater fill with nephelinitic pyroclastics at base (Tbc).*
- **Tbnp** – *Nephelinitic pyroclastics with abundant mantle and crustal xenoliths (base of Table Cape) (Tbnp).*
- **Tbt** – *Basalt (Tb) with transitional olivine basalt (Tbr), basanite (Tbb), nepheline hawaiite (Tbnh), nepheline mugearite (Tbnm), alkali olivine basalt (Tbao), olivine tholeiite (Tbt), hawaiite (Tbh), and olivine melilite (Tbom) indicated. Basaltic pyroclastics (Tbat).*

Ts – *Terrestrial sand, gravel and minor lacustrine deposits. (Ts).*

Tfgb – *Greybilly and silcrete including lag and outcrop of siliceous conglomerate (Tfgb).*

Tm – *Calcareous sandstone and calcarenite with Lower Miocene/ Upper Oligocene marine fossils (Table Cape Group) (Tm).*

PALAEOZOIC

CARBONIFEROUS – LOWER PARMENTER SUPERGROUP HERTHAN STAGE

- **Pli** – *Grey poorly bedded siltstone, mudstone and fine–grained sandstone, with lenticular beds of oil shale near base, and marine fossils toward top (Inglis Siltstone) (Pli).*
- **Ptw** / **Ptwv** – *Tillite, pebbly siltstone and mudstone, laminated siltstone and sandstone (Wynyard Tillite) (Ptw). Areas with varves indicated (Ptwv).*

Angular Unconformity.

PRECAMBRIAN

PROTEROZOIC – ROCKY CAPE GROUP

- **Prjs** – *Interbedded shaly black siltstone and thinly bedded quartzite (Prjs).*
- **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).*

PROTEROZOIC – KEITH METAMORPHICS, BLYTHE RIVER GROUP & METAMORPHIC COMPLEX

- **Pap** – *Dominantly phyllite (Pap).*
- **Papq** – *Foliated or schistose quartzite (Papq).*
- **Pac** / **Paa** – *Dominantly mafic schist with subordinate pelitic schist, calcic schist and phyllite (Pac), units of amphibolite indicated (Paa).*
- **Po** – *Quartzwacke turbidite sequence of sandstone, siltstone and well–bedded black slaty mudstone (Burnie Formation) (Po). Possible pillow basalt indicated (Pobp).*

INTRUSIVE ROCKS

PROTEROZOIC – **Pmd** – *Dolerite dykes (Pmd).*

- *Geological boundary – position approximate.*
- *Geological boundary – inferred.*
- *Transitional geological boundary – position approximate.*
- *Geological boundary – inferred from airborne radiometric data.*
- *Fault – position approximate.*
- *Strike–slip fault – position approximate, showing relative lateral displacement.*
- *Lineament visible in airborne magnetic data.*
- *Trends of older stabilised Holocene beach ridges.*
- *Trends of relict beach ridges related to regressive strandlines of Last Interglacial Stage.*
- *Inferred axial surface trace of major synform.*
- (White line) *Limit of mapping of sub–unit within undifferentiated rock unit.*

- *Strike and dip of bedding, facing known – right way up; overturned; facing unknown.*
- *Strike of vertical bedding – facing indicated by single tic.*
- *Strike and dip of compositional layering – dipping; vertical.*
- *Strike and dip of cleavage of unspecified type and relative age.*
- *Strike and dip of crenulation cleavage.*
- *Strike and dip of cleavage, relative local age S1.*
- *Strike and dip of cleavage, relative local age S4; vertical.*
- *Strike and dip of metamorphic foliation – dipping; vertical.*
- *Trend and plunge of minor fold hinge line, unspecified type and relative age.*
- *Trend and plunge of hinge line of unspecified relative age – minor antiform; minor synform.*
- *Trend and plunge of minor fold hinge line, relative local age F1, with dip and dip direction of axial surface.*
- *Trend and plunge of minor fold hinge line, relative local age F2, with dip and dip direction of axial surface.*
- *Trend and plunge of minor fold hinge line, relative local age F4.*
- *Trend and plunge of mineral elongation lineation.*
- *Generalised palaeocurrent direction, showing sense of movement.*
- *Possible eruptive centre.*
- *Notable small outcrop with rock unit indicated.*
- *Notable small float or lag occurrence, with rock unit indicated.*
- *Field station for adjacent readings on the map.*

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Acknowledgements:

Geology based on Mineral Resources Tasmania, Digital Geological Atlas 1:25 000 series. For source information refer to 1:25 000 series map sheets – see Location Diagram below.

Base data from the Land Information System of Tasmania (LIST). Copyright State of Tasmania.

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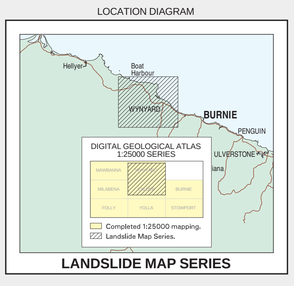
LOCATION DIAGRAM



LANDSLIDE MAP SERIES

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WARNING:INKS ARE LIGHT SENSITIVE