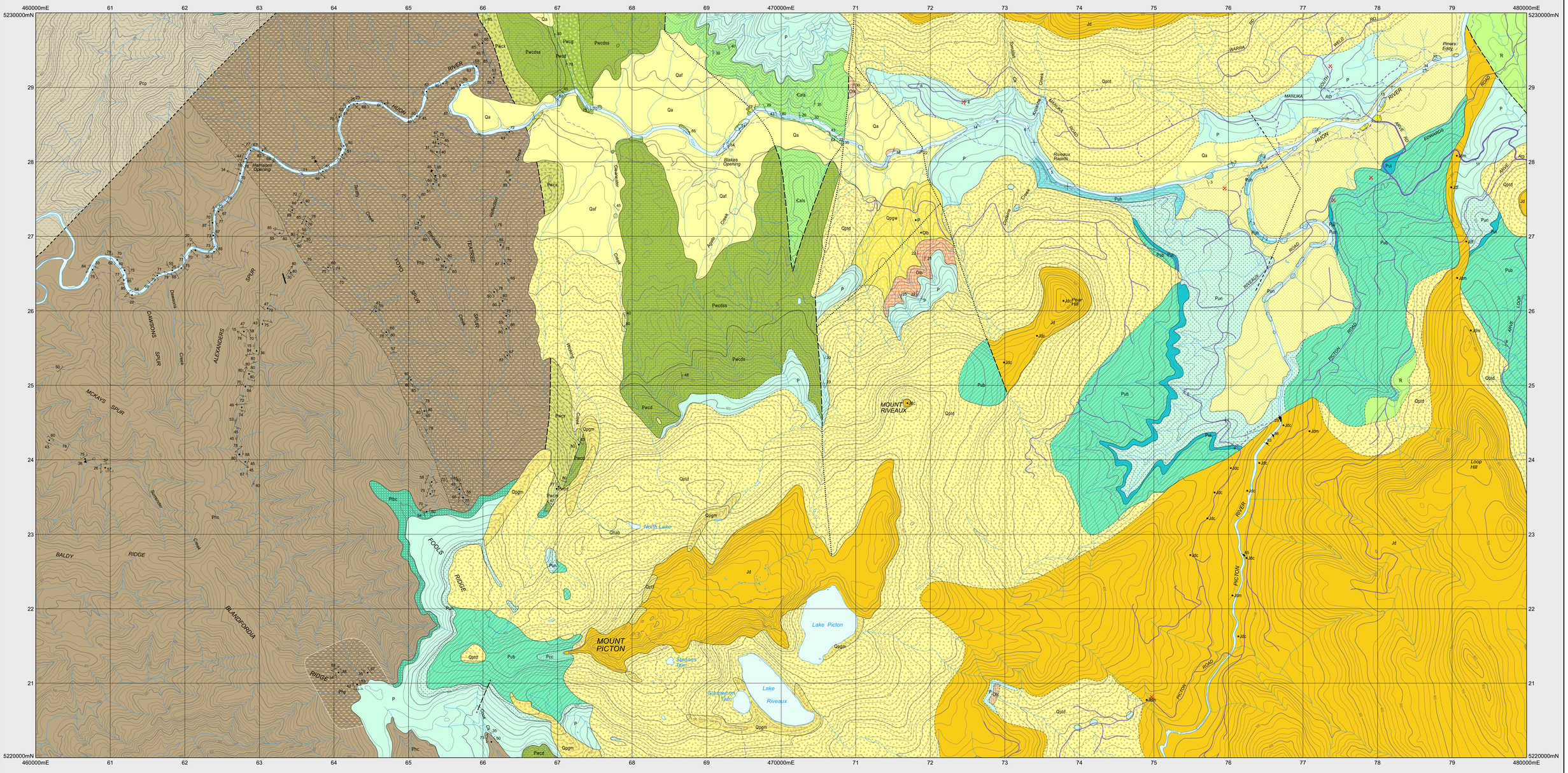
Department of State Growth
MINERAL RESOURCES TASMANIA

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
PICTON, SHEET 4622

PICTON

Scale 1:25 000

0 500 1000 1500 2000 2500m



CENOZOIC — QUATERNARY

Qa / Qpao	Alluvial sand, gravel and clay (Qa). Alluvial fans (Qaf). Some alluvial terrace deposits indicated (Qpao).
Qhab	Swamp and marsh deposits (Qhab).
Qptd	Talus consisting of Jurassic dolerite boulders (Qptd).
Qpgm	Till of undissected moraines (Qpgm).
Qpgw	Weathered till (Qpgw).
Qpdb	Deeply weathered dolerite boulder deposits including till (Qpdb).
Qptf	Dolerite topples (Qptf).

Erosional surface.

MESOZOIC

TRIASSIC

R	Non-marine sedimentary rocks of Upper Parmeener Supergroup (R)

PERMIAN

Pcc	Fine-grained, slightly feldspathic quartz sandstone (correlate of Cygnet Coal Measures) (Pcc).
Pub	Undifferentiated Permo-Carboniferous sediments (P). Generally unfossiliferous medium to thick-bedded marine siltstone and sandstone with lonestones (correlate of Abels Bay Formation) (Pub).
Pui	Well-sorted, fine-to coarse-grained marine feldspathic sandstone with quartz granules and pebbles (correlate of Risdon Sandstone) (Pui).
Pun	Medium to thick-bedded, generally poorly fossiliferous pebbly marine siltstone and sandstone, glauconitic in places (correlate of Minnie Point Formation) (Pun).
Puh	Thin to thick-bedded, generally richly fossiliferous marine mudstone, siltstone and sandstone with lonestones (correlate in part of Deep Bay Formation) (Puh).
Pfk	Cross-bedded quartz sandstone (correlate in part of Faulkner Group) (Pfk).

PALEOZOIC

CARBONIFEROUS — PENNSYLVANIAN

Plbc	Interbedded conglomerate and poorly-sorted pebbly sandstone (Plbc).
Ptx	Dark grey pebbly diamictite (Ptx).

Angular unconformity.

UPPER PARMEENER SUPERGROUP

LOWER PARMEENER SUPERGROUP

REKUNIAN SERIES: Lymingtonian Stage; Bernacchian Stage; Tamarian Stage; Hellyerian Stage

PALEOZOIC

ORDOVICIAN — GORDON GROUP

Olb	Dolomitic, micritic limestone (correlate of Benjamin Limestone) (Olb).
Olc	Oncolitic calcarenite (correlate of Cashions Creek Limestone) (Olc).
Olk	Micritic limestone, usually with chert nodules (correlate of Karmberg Limestone) (Olk).

Inferred unconformity.

CAMBRIAN

Ꞓals	Turbiditic, quartz-rich lithic sandstone, siltstone and minor conglomerate of metamorphic, volcanic and dolomitic provenance, and mudstone (Ꞓals).

Inferred unconformity.

NEOPROTEROZOIC — CYROGENIAN - EDIACARAN — WELD RIVER GROUP

Pwcm	Predominantly mudstone, slate and siltstone (Pwcm).
Pwcg	Predominantly pebbly laminated dolomitic siltstone and mudstone (Pwcg).
Pwcx	Predominantly black dolomitic diamictite (Pwcx).
Pwcd	Predominantly massive, fine-grained dolostone (Pwcd). Variably silicified dolostone (Pwcds); lag of silicification products (Pwcdss).

Inferred low-angle unconformity.

MESOPROTEROZOIC - NEOPROTEROZOIC

Pcp	Slate and phyllite with minor quartzite, dolostone and quartzitic conglomerate (Pcp).
Php	Black slate and phyllite with minor quartzwacke and diamictite (Php).
Phc	Turbiditic quartz-rich lithic sandstone and conglomerate of sedimentary provenance, interlayered with black slate and phyllite (Phc).

INTRUSIVE ROCKS

MESOZOIC — JURASSIC

Jd	Dolerite (Jd). Dolerite of grainsize 0 - 1.5mm (Jdf); 1.5 - 3mm (Jdm); and > 3mm (Jdc) indicated.

CONTACTS

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

FAULTS

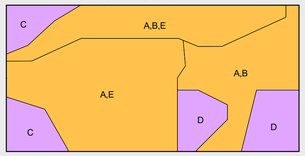
Fault.
Fault - inferred.
Fault - concealed.

LINEARS

Moraine ridge crest.

Strike and dip of bedding - right way up; overturned; facing unknown; vertical with facing indicated by single tic.
Strike of vertical bedding, facing unknown.
Horizontal bedding.
Strike and dip of cleavage of unspecified type and relative age - dipping; vertical.
Strike and dip of crenulation cleavage; vertical.
Trend and plunge of minor fold hinge line, unspecified relative age; with dip and dip direction of axial surface; vertical.
Trend and plunge of minor fold hinge line, relative local age F_1; with dip and dip direction of axial surface; F_2.
Trend and plunge of lineation L_2 formed by intersection of cleavages or foliations of relative local ages S_1 and S_2.
Trend and plunge of crenulation lineation.
Strike and dip of dominant joint set; vertical.
Strike and dip of outcrop-scale fault, type unspecified.
Field station for adjacent readings on the map.
Notable small outcrop with rock unit indicated.
Construction material/industrial mineral/gemstone location.

SOURCE DIAGRAM



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

Compiled by C.R. Calver, B.Sc.(Hons), Ph.D. and J.L. Everard, B.Sc.(Hons), 1999 from the following sources (see source diagram):

A C.R. Calver, 1996-1998, 1:25 000 scale mapping.

B J.L. Everard, 1996-1998, 1:25 000 scale mapping.

C C.C.R. Calver, 1999. Extrapolation, inference or airphoto interpretation.

D J.L. Everard, 1999. Extrapolation, inference or airphoto interpretation.

Updated by:

E M.J. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program.

REFERENCE THIS MAP AS:

CALVER, C.R. and EVERARD, J.L. (compilers) 1999. Digital Geoloogical Atlas 1:25 000 Scale Series. Sheet 4622 Picton. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

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

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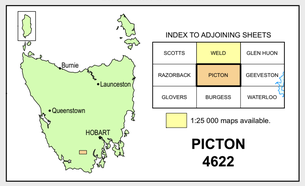
LOCATION DIAGRAM



Map generated: 11-JUN-2024

WARNING: INKS ARE LIGHT SENSITIVE.