Department of State Growth
MINERAL RESOURCES TASMANIA

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
VERIDIAN NORTH, SHEET 3624

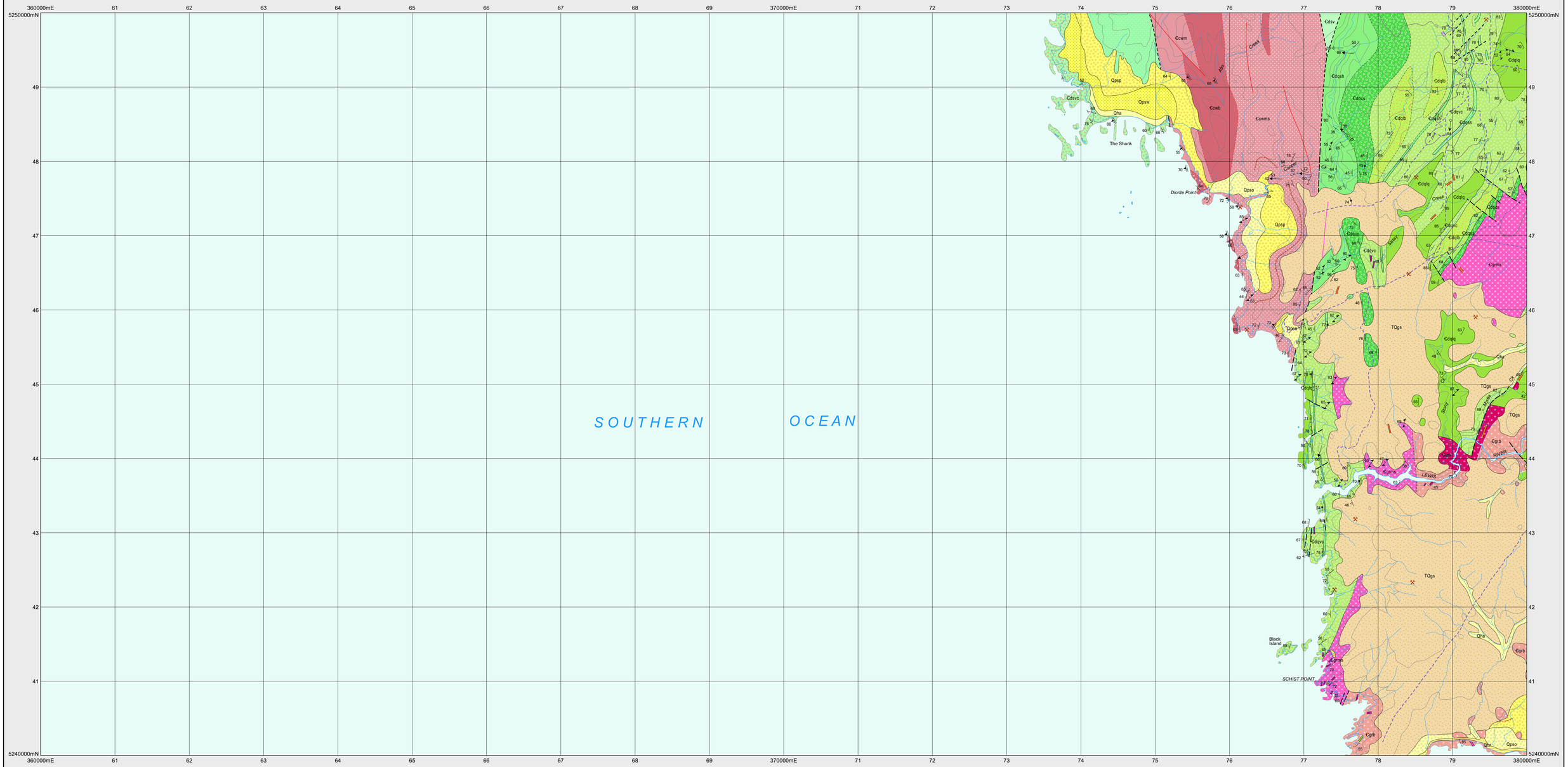
VERIDIAN NORTH

Scale 1:25 000

0 500 1000 1500 2000 2500m

INDUSTRY TOURISM RESOURCES

Tasmanian Government



COMPOSITE LEGEND FOR VERIDIAN NORTH AND SOUTH

CENOZOIC

QUATERNARY

- **Qhdb** — *Modern shore face and associated aeolian dune sand (Qhdb).*
- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qhr** — *Raised beach deposits (Qhr).*
- **Qpsw** — *Older aeolian dune sand (Qpsw).*
- **Qpso** — *Older aeolian sand and sand dunes (Qpso).*

PALEOGENE - NEOGENE

- **Qpsp** — *Sands and gravels associated with older marine platforms - probably includes marine, alluvial and slope deposits (Qpsp).*
- **TQgs** — *Gravel and sand deposits associated with surface approx. 50m a.s.l. Includes vein quartz lag and probable younger alluvial deposits (TQgs).*

Unconformity.

PALEOZOIC

CAMBRIAN — CAMBRIAN SERIES 3

CORRELATE OF WESTERN VOLCANO - SEDIMENTARY SEQUENCE

- **Ꞓdsv** — *Volcano-sedimentary and sedimentary sequences of sandstone, mudstone and minor conglomerate, with some felsic to andesitic volcanic units (Ꞓdsv).*
  - **Ꞓdsvc** — *Dominantly volcaniclastic pebble conglomerate and sandstone with interbedded siltstone (Ꞓdsvc).*
  - **Ꞓdsvs** — *Dominantly volcaniclastic sandstone with interbedded siltstone and mudstone and minor granule conglomerate (Ꞓdsvs).*

CORRELATES OF MOUNT READ VOLCANICS

CORRELATE OF EASTERN QUARTZ - PHYRIC SEQUENCE

- **Ꞓdqvc** — *Dominantly volcaniclastic rocks, typically quartz feldspar-phyric (Ꞓdqvc).*
- **Ꞓdqsh** — *Dominantly siltstone sequence, typically grey, thinly bedded (Ꞓdqsh).*
- **Ꞓdqcs** — *Siliceous conglomerate, sandstone and breccia (Ꞓdqcs).*
- **Ꞓdqss** — *Siliceous-micaceous sandstone, generally thin bedded (Ꞓdqss).*
- **Ꞓdqvs** — *Dominantly volcaniclastic sandstone with minor siltstone, typically quartz-feldspar-rich, well bedded (Ꞓdqvs).*
- **Ꞓdqlq** — *Dominantly felsic quartz-feldspar-phyric lavas and/or intrusives, with minor felsic volcaniclastic rocks (Ꞓdqlq).*
- **Ꞓdqlb** — *Quartz-feldspar-biotite-phyric lava and/or intrusive (Ꞓdqlb).*

PALEOZOIC

CAMBRIAN — TERRENEUVIAN - CAMBRIAN SERIES 2

CORRELATE OF CLEVELAND - MAINWARING ASSOCIATION

- **Ꞓcwm** — *Volcaniclastic sandstone, siltstone, mudstone and minor chert with intercalated basaltic lavas and breccias ('Mainwaring Group') (Ꞓcwm).*
  - **Ꞓcwms** — *Dominantly mafic volcaniclastic sandstone with siltstone, dolomitic sandstone, mafic volcanic breccia and minor mafic lava (Ꞓcwms).*
  - **Ꞓcwb** — *Dominantly basaltic lavas and breccias, typically chlorite-epidote-altered, with minor sedimentary rocks (Ꞓcwb).*

ALLOCHTHONOUS SEQUENCE

INTRUSIVE ROCKS

- **qv** — *Quartz vein.*
- **Ꞓdfd** — *Felsic dyke, commonly flow-banded (Ꞓdfd).*
- **Ꞓdbc** — *Mafic dykes, typically chlorite-altered (Ꞓdbc).*

CAMBRIAN — CAMBRIAN SERIES 3

CORRELATE OF EASTERN QUARTZ - PHYRIC SEQUENCE

- **Ꞓgrb** — *Dominantly medium-to coarse-grained biotite granite-adamellite (Ꞓgrb).*
  - **Ꞓgrt** — *Granite with strongly sericitised feldspar and biotite altered to opaque, muscovite and chlorite (Ꞓgrs).*
  - **Ꞓgrms** — *Intensely sericite-quartz-altered microgranite. May include minor thermally altered country rock (Ꞓgrms).*
  - **Ꞓgra** — *Granite-related aplite, microgranite or quartz-feldspar porphyry dyke (Ꞓgra).*
- **Ꞓdqlb** — *Quartz-feldspar-biotite-phyric lava and/or intrusive (Ꞓdqlb).*
- **Ꞓda** — *Andesitic intrusive or lava (Ꞓda).*

TERRENEUVIAN - CAMBRIAN SERIES 2

ALLOCHTHONOUS SEQUENCE

- **Ꞓcwbd** — *Doleritic rocks forming sill-like bodies within 'Mainwaring Group' (Ꞓcwbd).*

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Geological contact - inferred from magnetic data.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*
- *Limit of detailed mapping.*

FAULTS

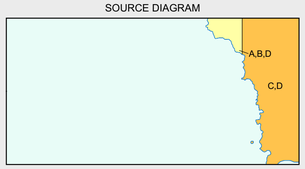
- *Fault.*
- *Fault - inferred.*

LINEARS

- *Scarp.*
- *Lineament - visible in magnetic data.*
- *Lineament - visible in radiometric data.*

- *Strike and dip of bedding, facing known - right way up; overturned; vertical, facing indicated by single tic.*
- *Strike and dip of bedding, facing unknown.*
- *Strike and dip of cleavage, type and relative age unspecified - dipping.*
- *Strike and dip of cleavage, type and relative age unspecified, parallel to bedding, facing unknown.*
- *Strike and dip of cleavage, relative local age S_2.*
- *Strike and dip of cleavage, relative local age S_2, vertical.*
- *Strike and dip of crenulation cleavage.*
- *Strike and dip of penetrative cleavage.*
- *Strike and dip of primary igneous banding or platy alignment.*
- *Strike and dip of metamorphic foliation other than cleavage, parallel to compositional layering.*
- *Trend and plunge of hingeline of minor fold, unspecified relative age; with dip and dip direction of axial surface.*
- *Trend and plunge of hingeline of minor fold, relative local age F_1.*
- *Trend and plunge of hingeline of minor fold, relative local age F_2; with dip and dip direction of axial surface.*
- *Trend and plunge of mineral elongation lineation.*
- *Strike and dip of vein, rock type or mineral unspecified; vertical.*
- *Mineral deposit location - hardrock.*

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 D.B. Seymour, B.Sc.(Hons), Ph.D. and D.Green, B.Sc.(Hons), Ph.D. 2003 from the following sources (see source diagram):

A BROWN, A.V., 1988. Geological Atlas 1:50 000 Series, Sheet 78 (7912S), Montgomery. Tasmania Department of Mines.

B D.B Seymour, 1999. New aeromagnetic and airphoto interpretation.

C PEMBERTON, J., VICARY, M. J., BRADBURY, J. and CORBETT, K.D., 1991. Geology of the Elliott Bay - Mt Osmund area. Map 10. Mt Read Volcanics Project. Department of Mines, Tasmania.

Updated as part of the Western Tasmanian Regional Minerals Program by:

D CORBETT, K.D. 2004. Updating and revision of the 1:25 000 scale series geological maps covering the Mt Read Volcanics belt in western and northwestern Tasmania. Tasmanian Geological Survey Record 2004/03. Mineral Resources Tasmania.

REFERENCE THIS MAP AS:

SEYMOUR, D.B. and GREEN, D. (compilers) 2004. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3624 Veridian. 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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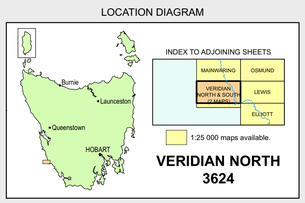
LOCATION DIAGRAM



Map generated: 15-MAR-2024

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