Department of Infrastructure Energy and Resources
MINERAL RESOURCES TASMANIA

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

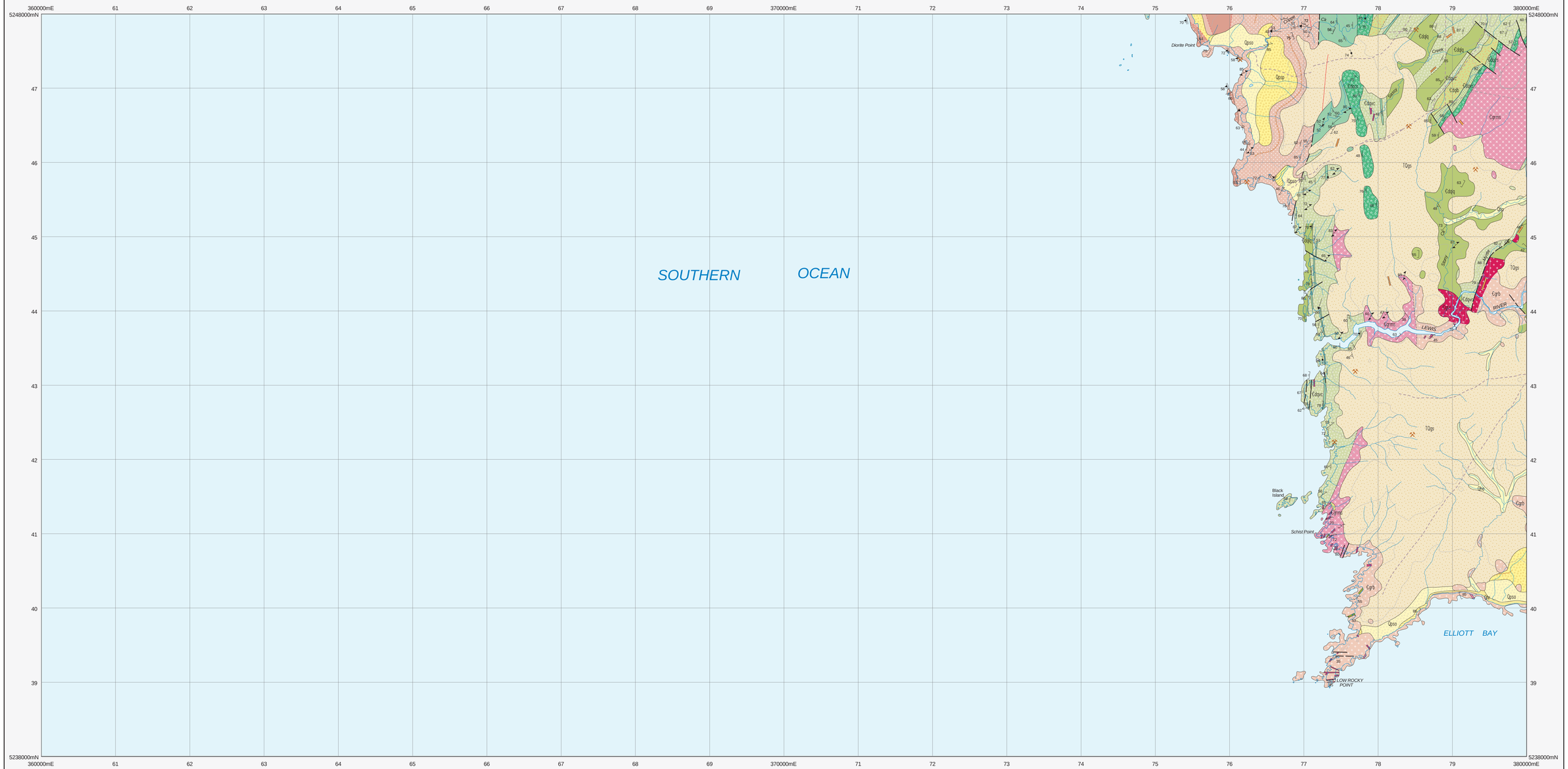
VERIDIAN SOUTH

Scale: 1:25 000

0 500 1000 1500 2000 2500m

INDUSTRY TOURISM RESOURCES

Tasmania
Explore the possibilities



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).*
- Qpsp — *Sands and gravels associated with older marine platforms – probably includes marine, alluvial and slope deposits (Qpsp).*

TERTIARY
- 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

MIDDLE CAMBRIAN — CORRELATE OF WESTERN VOLCANO-SEDIMENTARY SEQUENCE
- Cdsv — *Volcano–sedimentary and sedimentary sequences of sandstone, mudstone and minor conglomerate, with some felsic to andesitic volcanic units (Cdsv).*
- Cdsvc — *Dominantly volcaniclastic pebble conglomerate and sandstone with interbedded siltstone (Cdsvc).*
- Cdsvs — *Dominantly volcaniclastic sandstone with interbedded siltstone and mudstone and minor granule conglomerate (Cdsvs).*

CORRELATE OF EASTERN QUARTZ–PHYRIC SEQUENCE / CORRELATES OF MOUNT READ VOLCANICS
- Cdqvc — *Dominantly volcaniclastic rocks, typically quartz feldspar–phyric (Cdqvc).*
- Cdqsh — *Dominantly siltstone sequence, typically grey, thinly bedded (Cdqsh).*
- Cdqcs — *Siliceous conglomerate, sandstone and breccia (Cdqcs).*
- Cdqss — *Siliceous–micaceous sandstone, generally thin bedded (Cdqss).*
- Cdqvs — *Dominantly volcaniclastic sandstone with minor siltstone, typically quartz–feldspar–rich, well bedded (Cdqvs).*
- Cdqlq — *Dominantly felsic quartz–feldspar–phyric lavas and/or intrusives, with minor felsic volcaniclastic rocks (Cdqlq).*
- Cdqlb — *Quartz–feldspar–biotite–phyric lava and/or intrusive (Cdqlb).*

PALEOZOIC

EARLY CAMBRIAN — CORRELATE OF CLEVELAND–WARATAH ASSOCIATION — ALLOCHTHONOUS SEQUENCE
- Ccwm — *Volcaniclastic sandstone, siltstone, mudstone and minor chert with intercalated basaltic lavas and breccias ('Mainwaring Group') (Ccwm).*
- Ccwms — *Dominantly mafic volcaniclastic sandstone with siltstone, dolomitic sandstone, mafic volcanic breccia and minor mafic lava (Ccwms).*
- Ccwb — *Dominantly basaltic lavas and breccias, typically chlorite–epidote–altered, with minor sedimentary rocks (Ccwb).*

INTRUSIVE ROCKS

- qv — *Quartz vein.*

MIDDLE CAMBRIAN — CORRELATE OF EASTERN QUARTZ–PHYRIC SEQUENCE
- Cdfd — *Felsic dyke, commonly flow–banded (Cdfd).*
- Cdbc — *Mafic dykes, typically chlorite–altered (Cdbc).*
- Cgrb — *Dominantly medium–to coarse–grained biotite granite–adamellite (Cgrb).*
- Cgrms — *Granite with strongly sericitised feldspar and biotite altered to opaque, muscovite and chlorite (Cgrs).*
- Cgrms — *Intensely sericite–quartz–altered microgranite. May include minor thermally altered country rock (Cgrms).*
- Cgra — *Granite–related aplite, microgranite or quartz–feldspar porphyry dyke (Cgra).*
- Cdqlb — *Quartz–feldspar–biotite–phyric lava and/or intrusive (Cdqlb).*
- Cda — *Andesitic intrusive or lava (Cda).*

EARLY CAMBRIAN — ALLOCHTHONOUS SEQUENCE
- Ccwbd — *Doleritic rocks forming sill–like bodies with peperitic features in places, within 'Mainwaring Group' (Ccwbd).*

- *Geological boundary – position accurate or approximate.*
- *Geological boundary – position inferred.*
- *Geological boundary inferred from aeromagnetic data.*
- *Fault – unspecified type, position accurate or approximate.*
- *Fault – unspecified type, inferred.*
- *Scarp.*
- *Lineament visible in airborne magnetic data.*
- *(white line) Limit of mapping of sub–unit within undifferentiated rock unit.*

- *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; vertical.*
- *Strike and dip of cleavage, type and relative age unspecified, parallel to bedding, facing unknown; vertical.*
- *Strike and dip of cleavage, relative local age S2.*
- *Strike and dip of cleavage, relative local age S3; 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 F1.*
- *Trend and plunge of hingeline of minor fold, relative local age F2; with dip and dip direction of axial surface.*
- *Trend and plunge of mineral elongation lineation.*
- *Strike and dip of vein, rock type or mineral specified by RCODE in Point Attribute Table; vertical.*
- *Field station for adjacent readings on the map.*
- *Mineral deposit location – hardrock – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.*

Compiled by D.B. Seymour, B.Sc.(Hons), Ph.D. and D.Green, B.Sc. (Hons), Ph.D. 2003 from the following sources (see Responsibility Diagram):

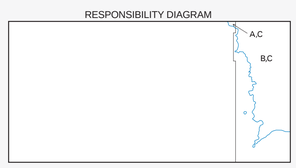
A BROWN, A.V., 1988. Geological Atlas 1:50 000 Series, Sheet 78(7912S), Montgomery, with modifications based on aeromagnetic and airphoto interpretation.

B 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.

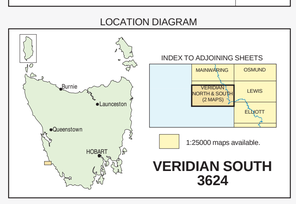
Updated by:

C K.D. Corbett, 2004 as part of the Western Tasmanian Regional Minerals Program.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



VERIDIAN SOUTH 3624

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 the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.

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

GDA

Plotfile for this map generated from digital data as at: 20-JAN-2010

WARNING:INKS ARE LIGHT SENSITIVE