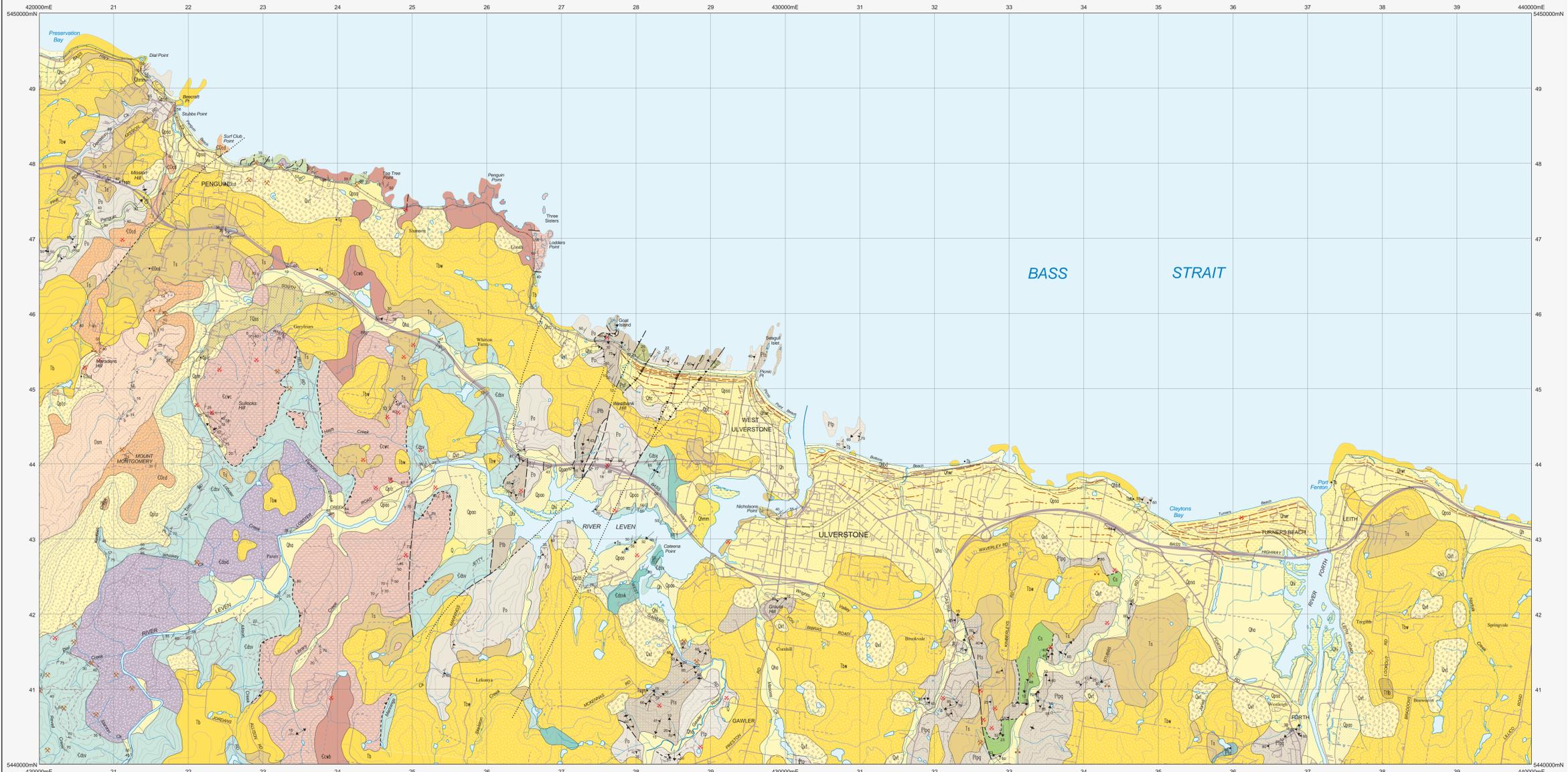


ULVERSTONE

Scale: 1:25 000



CENOZOIC	
QUATERNARY	
HOLOCENE	
Dhmm	Man made deposits (Dhmm), including man disturbed ground (Dhm).
Qhd	Beach sand, sand dunes and beach gravel (Qhd).
Qh	Predominantly estuarine mud (Qh).
Qhc	Coluvium (Qhc).
Qhr	Sand of stabilised longitudinal beach ridges (Qhr).
Qha	Stream alluvium, swam and marsh deposits (Qha).
Qa	Landslide deposits predominantly derived from weathered Palaeogene - Neogene rocks (Qa).
Qpsa	Older stabilised aeolian sand of coastal plain (Qpsa).
Qat	Talus (Qat), basal talus (Qatb), talus derived from chert (Qatc), quartz sandstone and conglomerate talus derived from Owen Group corallites (Qatd).
Qpa	Older alluvium of river terraces (Qpa).
Tos	Dominantly sand, clayey sand and sandy clay and subordinate clay and gravel of probable mixed alluvial and oolitic origin (Tos).
Tb	Laterite derived from Palaeogene - Neogene Basalt (Tb).
Tba	Predominantly deeply-weathered basalt (Tba).
Tb	Basalt (Tb), including local occurrences of hawthite (Tb).
Tsm	Terracial sand, gravel and minor lacustrine deposits (Tsm); shielded zones (Tsm).
Ts	Grey poorly sorted fine-grained sandstone, commonly bioturbated (corrosette or Molar Sandstone) (Ts).
Cocd	Pebble-cobble siliciclastic conglomerate and coarse-grained sandstone with abundant quartzite and chert clasts (Duncan Conglomerate) (Cocd).

MESOZOIC	
PROTEROZOIC	
CAMBRIAN	
Cds	Grey to green massive to bedded wacke, pebble conglomerate and laminated siltstone with clasts of quartzite and chert, (undifferentiated Tynwald Group and Western Volcanic-Sedimentary Sequence previously mapped as Cdsen) (Cds).
Cdsvb	Large blocks of chert, quartzite, basalt, limestone, siltstone and mudstone and (in part) in a matrix of siltstone, mudstone and conglomerate. (Beechcroft and Tea Tree Point Magdalenite) (Cdsvb).
Cdsv	Interbedded ash volcanoclastic siltstone, greywacke and siltstone, purpureous volcanoclastic siltstone and dacite-andesite lavas and intrusives (Cdsv).
Ccb	Filtered to massive fine- to medium-grained magite bearing tholeiitic basalt with interbedded volcanoclastic sandstone and conglomerate, mudstone and chert bearing breccia (Milton Spire) (Ccb).
Ccw	Flow to dark grey to black distinctly bedded and plane laminated to massive or brecciated chert, with minor red and grey siliceous hemispheric mudstone and siltstone (Barrington Chert) (Ccw).
Pc	Fault breccia with blocks of probable Topoi Group corallites including siliceous conglomerate, sandstone, mudstone, chert, dolomite, dolomitic dolomite and limestone, in a shored mudstone matrix with scaly fabric (Pc).
Pq	Quartzitic turbidite sequence of sandstone, siltstone and well bedded black silty mudstone (Burnie Formation) (Pq).
Ptb	Dominantly schistose conglomerate (Coat Island Conglomerate and corallites) (Ptb).
Pts	Dominantly quartzite (Pts).
Ptp	Quartz-chlorite-muscovite schist (Ptp).
Ptpg	Quartz-muscovite-garnet schist (Ptpg).

MESO-PROTEROZOIC	
CAMBRIAN	
Csd	Massive plagioclase-hornblende phric dioritic, andesitic and dacitic intrusives. (L-Pb, Sd) Age of igneous zone - 502.2 +/- 1.5 Ma at 4200E, 54420N, (Lobster Creek Intrusives) (Csd).
Cs	Serpentine (Cs).
Pta	Amphibole (Pta).

- Geological boundary - position accurate or approximate.
- Geological boundary - inferred.
- Trends of older stabilised Holocene beach ridges.
- Trends of relict beach ridge related to regressive strandline of Last Interglacial Stage.
- Fault - position accurate or approximate.
- Fault - inferred.
- Fault - concealed.
- Thrust fault (teeth on upper plate) - position accurate or approximate.
- Thrust fault (teeth on upper plate) - inferred.
- Thrust fault (teeth on upper plate) - concealed.
- Axial surface trace of major later system.
- Limit of mapping.
- (white line) Limit of mapping of sub-unit within undifferentiated rock unit.

INTRUSIVE ROCKS

Strike and dip of bedding, right way up, overturned.

Strike and dip of bedding, facing unknown, vertical.

Strike and dip of compositional layering.

Strike and dip of cleavage of unspecified type and relative age, vertical.

Strike and dip of cleavage, relative local age S1.

Strike and dip of crenulation cleavage.

Strike and dip of metamorphic foliation other than cleavage - slipping, vertical.

Strike and dip of metamorphic foliation other than cleavage, relative local age S1 - dipping, vertical.

Trend and plunge of minor fold hinge line, unspecified relative local age, with up and dip direction of axial surface.

Trend and plunge of minor fold hinge line, relative local age F1, F2.

Trend and plunge of hinge line of reclined minor F1 fold.

Trend of horizontal minor fold hinge line, relative local age F2, with vertical axial surface.

Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified.

Trend and plunge of minor fold hinge line, unspecified relative age, with up and dip direction of axial surface, vergence directed, vergence antisense.

Trend and plunge of minor fold hinge line, unspecified relative age, with up and dip direction of axial surface, symmetrical.

Trend and plunge of hinge line of reclined minor fold, unspecified relative age.

Trend and plunge of crenulation lineation.

Fossil location.

Notable small outcrop.

Field station for adjacent readings on map.

Mineral deposit location - hardrock.

Mineral deposit location - alluvial/talings.

Construction material/industrial mineral/gemstone location.

Data derived from Mineral Resources Tasmania (MRT) database. Data point position has not been verified in every case.

Compiled by M.J. Vicary, B.Sc.(Hons), Ph.D., 2004 as part of the Western Tasmania Regional Minerals Program from the following sources (see responsibility diagram):

A BURNS, K.L. 1963. Geological Atlas 1 Mile Series, Zone 7 Sheet 29 (NH 1:1), Devonport, Tasmania Department of Mines.

With additional information from:-

1 HERRMANN, W. 1993. Notes on a geological reconnaissance of the Dial Range - EL 9192. Appendix B in FitzGerald, F.G. 1993. EL 9192 Dial Range Annual Report June 1992 - June 1993. Unpublished Report, Palumnao Exploration, TCR 85-147.

2 CRAWFORD, A.J. 1993. Summary and implications of petrographic work on Palumnao Dial Range EL 9192. Appendix C in FitzGerald, F.G. 1993. EL 9192 Dial Range Annual Report June 1992 - June 1993. Unpublished Report, Palumnao Exploration, TCR 85-147.

3 SPROCKLE, R.A. 1994. Petrography and Geochemistry of the Dial Range Through, NW Tasmania. B.Sc.(Hons) thesis, University of Tasmania.

B J.L. Everard, unpublished data.

C WILSON, P.A. 1980. Annual Report EL 241073 Dial Range - 1980 Field Season. Unpublished Report, Geoscope Limited, TCR 82-187.

Updated by:

D M. Vicary 2004, as part of the Western Tasmania Regional Minerals Program.

E C.R. Calver 2005. Field checking and revision of geology as part of the Northwest Landuse Hazard Project.

F D.B. Seymour 2005 - 2007. Field work.

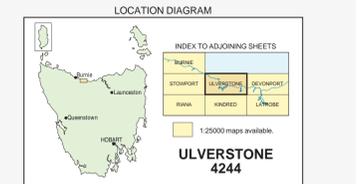
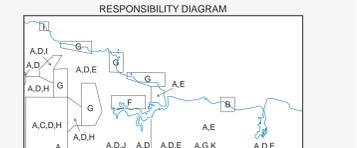
G D.B. Seymour 2005. 1:25 000 scale geological mapping.

H J.L. Everard 2007. 1:25 000 scale geological mapping.

I C.R. Calver 2007. 1:25 000 scale geological mapping.

J D.C. Green 2007. 1:25 000 scale geological mapping.

K LEWIS, R. 1991. Structure and metamorphic geology of the Fort Metamorphic Complex. B.Sc.(Hons) thesis, University of Tasmania.



REFERENCE THIS MAP AS:
VICARY M.J., CALVER C.R., EVERARD J.L. and SEYMOUR D.B. (compilers)
2008. Digital Geological Atlas 1:25 000 Scale Series, Sheet 4244.
Ulverstone, Mineral Resources Tasmania.

Base data from the LST, Copyright State of Tasmania.
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GDAS4 - MGA Zone 55. Contour Interval: 20 metres.

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