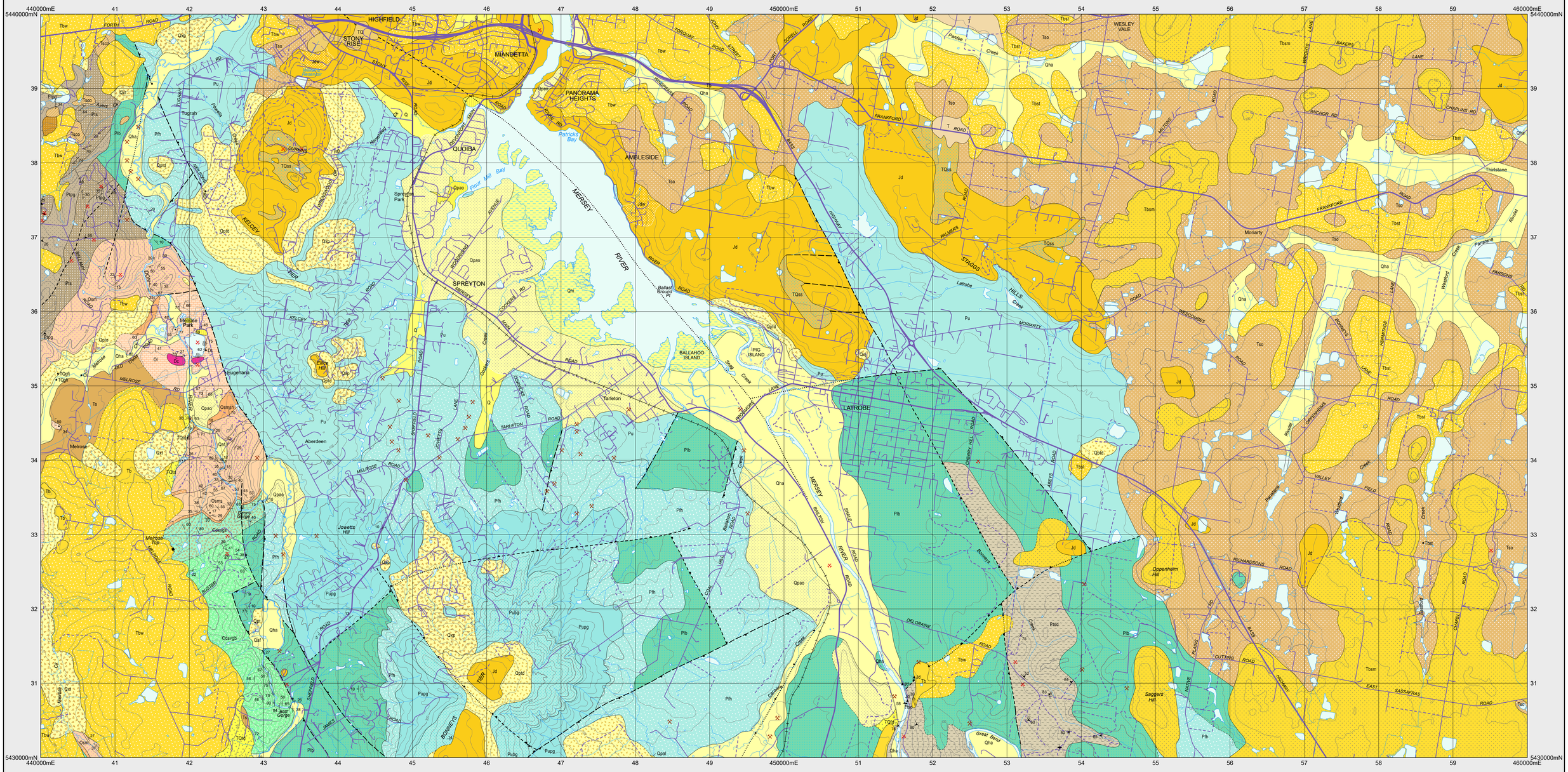
Department of State Growth
MINERAL RESOURCES TASMANIA

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
LATROBE, SHEET 4443

LATROBE

Scale 1:25 000



CENOZOIC

QUATERNARY — PLEISTOCENE - HOLOCENE

Q

- **Qhmm** — *Undifferentiated Quaternary sediments (Q). Man-made deposits (Qhmm).*
- **Qhi** — *Predominantly estuarine mud (Qhi).*
- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qaf** — *Alluvial fan (Qaf).*
- **Qld** — *Landslide deposits predominantly derived from weathered Tertiary rocks (Qld); from Permian rocks (Qxp); from weathered Jurassic dolerite (Qxj).*
- **Qpal** — *Clay and alluvial gravel with dolerite boulders in places (Qpal).*
- **Qpt** — *Talus (Qpt); Talus consisting dominantly of dolerite boulders (Qptd). Basalt talus (Qptb). Quartz sandstone and conglomerate talus derived from Owen Group - Moina Sandstone correlates (Qpto).*
- **Qpao** — *Older alluvium of river terraces (Qpao).*

Erosional surface.

TQ

- **TQss** — *Undifferentiated Cenozoic sediments (TQ). Dominantly sand, clayey sand and sandy clay and subordinate clay and gravel of probable mixed alluvial and aeolian origin (TQss).*
- ● **TQgfi** — *Local occurrences of ironstone (TQgfi).*
- **TQtd** — *Boulders of Jurassic dolerite and minor quartzite pebbles in clay; reworked into Quaternary slope deposits in places (TQtd).*

PALEOGENE - NEOGENE

T

Undifferentiated Paleogene - Neogene (T).

- **Ts** — *Sand, gravel, silt and clay, consolidated in places (Ts).*
- **Tflb** — *Laterite derived from Paleogene - Neogene basalt (Tflb).*
- **Tbw** — *Basalt (Tb). Predominantly deeply-weathered basalt (Tbw).*
- **Tb / Tbsm** — *Olivine basalt, deeply weathered in most areas, dated at 25.9 ± 0.2 Ma (Moriarty Basalt) (Tbsm).*
- **Tso** — *Sand, quartzite gravel and clay, including interbasalt deposits (Wesley Vale Sand) of Oligocene age (Tso).*
- **Tb** — *Basalt (Tb).*
- **Tbst** — *Non-vesicular to highly vesicular and amygdaloidal, in places deeply weathered, alkali olivine basalt, with minor volcanic sandstone and breccia, dated at 38.1 ± 0.6 Ma (Thirlstane Basalt) (Tbst).*
- **Tsco** — *Sub-basalt conglomerate, quartz-stone or claystone (Tsco).*

Erosional surface.

PALEOZOIC

PERMIAN — PARMEENER SUPERGROUP, LOWER DIVISION

- **Pu** — *Undifferentiated siltstone and pebbly siltstone with sandstone horizons (Pu).*
- **Pubg** — *Unfossiliferous pebbly siltstone, siltstone and sandstone (Pubg). (Correlate of Bogan Gap Group).*
- **Pupg** — *Pebbly sandstone, siltstone and mudstone with marine fossils (Pupg). (Correlate of Poatina Group). (Pu, Pubg, Pupg - Kelcey Tier Beds, Upper Glaciomarine Sequence).*

Disconformity

CARBONIFEROUS — PARMEENER SUPERGROUP, LOWER DIVISION

- **Pth** — *Quartz sandstone and minor conglomerate, with a middle interval of mudstone, shale and coal seams (Pth) (Mersey Coal Measures, correlate of Liffey Group; Lower Freshwater Sequence).*
- **Plb** — *Poorly sorted pebbly mudstone, siltstone and sandstone with marine fossils in places, with Tasmanite oil shale towards base, and basal siliciclastic conglomerate (Plb). (Spreyton Beds; Lower Glacialomarine Sequence).*

DEVONIAN — MIDDLE DEVONIAN

- **Dc** — *Terrestrial cavern fillings consisting of limestone breccia with ferruginous mudstone matrix, and minor lenses of flat-lying laminated sandstone and grey shale (Dc) (Eugenana Beds).*

Angular unconformity.

ORDOVICIAN — GORDON GROUP

- **Ol** — *Massive or thickly bedded, grey, fine-grained limestone, with marine fossils in places (Ol).*
- **Osmsh** — *Siltstone, calcareous siltstone and mudstone, with marine fossils in places (Osmsh).*
- **Osm / Osmc** — *Dominantly very fine- to medium-grained, purple, pink or white quartzarenite, locally cross-bedded (Osm). Chert-bearing, granule to pebble conglomerate indicated (Osmc). Dominantly bioturbated quartz siltstone with sparse marine fossils (Osms).*
- **Osms / Osmc** — *Granule to pebble conglomerate, purple, pink or white, with up to 15% chert clasts (Osmc). (Osmc + Osms + Osm + Osmsh = Caroline Creek Sandstone; correlate of Moina Sandstone).*

Angular unconformity.

CAMBRIAN — MOUNT READ VOLCANICS

- **Ꞓdsvgs** — *Polymict conglomerate, with clasts of mudstone, siltstone, sandstone, basalt; and minor chert, quartzite and schist (Ꞓdsvgs).*
- **Ꞓdsvgb** — *Massive to thick-bedded, dominantly open-framework pebble conglomerate with clasts of Precambrian provenance (quartzite, schist, minor carbonate); and minor coarse-grained quartz sandstone (Ꞓdsvgb) (Bott Conglomerate).*

MESOPROTEROZOIC(?) — FORTH METAMORPHICS

- **Pts** — *Dominantly quartzite (Pts).*
- **Ptpg** — *Fine-to coarse-grained, often thinly banded, pelitic, garnetiferous quartz-mica and mica-quartz schist, commonly containing phengite, biotite, almandine, albite and chlorite. Relatively high metamorphic grade (Ptpg).*
- **Ptsd** — *Dominantly quartz-mica schist and foliated micaceous metaquartzite (Ptsd).*

INTRUSIVE ROCKS

MESOZOIC — JURASSIC

- **Jdw / Jd** — *Dolerite and related rocks (Jd). Predominantly deeply-weathered dolerite (Jdw).*

CONTACTS

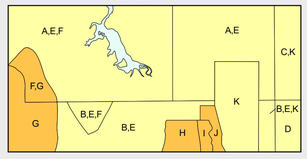
- *Geological contact.*
- *Geological contact - inferred.*
- *Transitional geological contact.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*

FAULTS

- *Fault.*
- *Fault - inferred.*
- *Fault - concealed.*
- *Normal fault (downthrown side indicated).*
- *Normal fault (downthrown side indicated) - inferred.*
- *Normal fault (downthrown side indicated) - concealed.*

- *Strike and dip of bedding, right way up.*
- *Strike and dip of bedding, facing unknown.*
- *Strike and dip of cleavage, relative local age S_1.*
- *Strike and dip of cleavage of unspecified type and relative age; vertical.*
- *Strike and dip of metamorphic foliation other than cleavage; vertical.*
- *Strike and dip of metamorphic foliation other than cleavage, parallel to compositional layering.*
- *Trend and plunge of columnar jointing.*
- *Trend and plunge of minor fold hinge line, unspecified relative age.*
- *Strike of dominant joint set, vertical.*
- *Trend and plunge of minor fold hinge line, relative local age F_2.*
- *Field station for adjacent readings on the map.*
- *Notable small outcrop with rock unit indicated.*
- *Notable small float or lag occurrence with rock unit indicated.*
- *Macrofossil location.*
- *Mineral deposit location - hardrock.*
- *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 D. C. Green, B.Sc.(Hons), Ph.D., 2004 from the following sources (see source diagram):

A BURNS, K.L. 1963. Geological Atlas 1:63 360 Series. Sheet 29, Devonport. Tasmanian Department of Mines.

B JENNINGS, I.B; BURNS, K.L; MAYNE, S.J. and ROBINSON, R.G. 1959. Geological Atlas 1:63 360 Series. Sheet 37, Sheffield. Tasmanian Department of Mines.

C GEE, R.D. and LEGGE, P.J. 1971. Geological Atlas 1:63 360 Series. Sheet 30, Beaconsfield. Tasmanian Department of Mines.

D GULLINE, A.B. 1973. Geological Atlas 1:63 360 Series. Sheet 38, Frankford. Tasmanian Department of Mines.

Updated by:

E M.J. Vicary 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmanian Geological Survey Record 2005/05. Mineral Resources Tasmania.

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

G C.R. Calver 2007. 1:25 000 scale mapping.

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

I D.B. Seymour & J.L. Everard 2007. Limited traverses.

J J.L. Everard 2007. Limited traverses.

K W.C. Cromer. 1993. Geology and groundwater resources of the Devonport - Port Sorell - Sassafras Tertiary Basin. Geological Survey Bulletin 67.

REFERENCE THIS MAP AS:

GREEN, D.C. and CALVER, C.R.(compilers) 2008. Digital Geological Atlas 1:25 000 Scale Series. Sheet 4443 Latrobe. 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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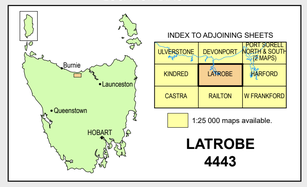
LOCATION DIAGRAM



Map generated: 19-DEC-2025

WARNING: INKS ARE LIGHT SENSITIVE.