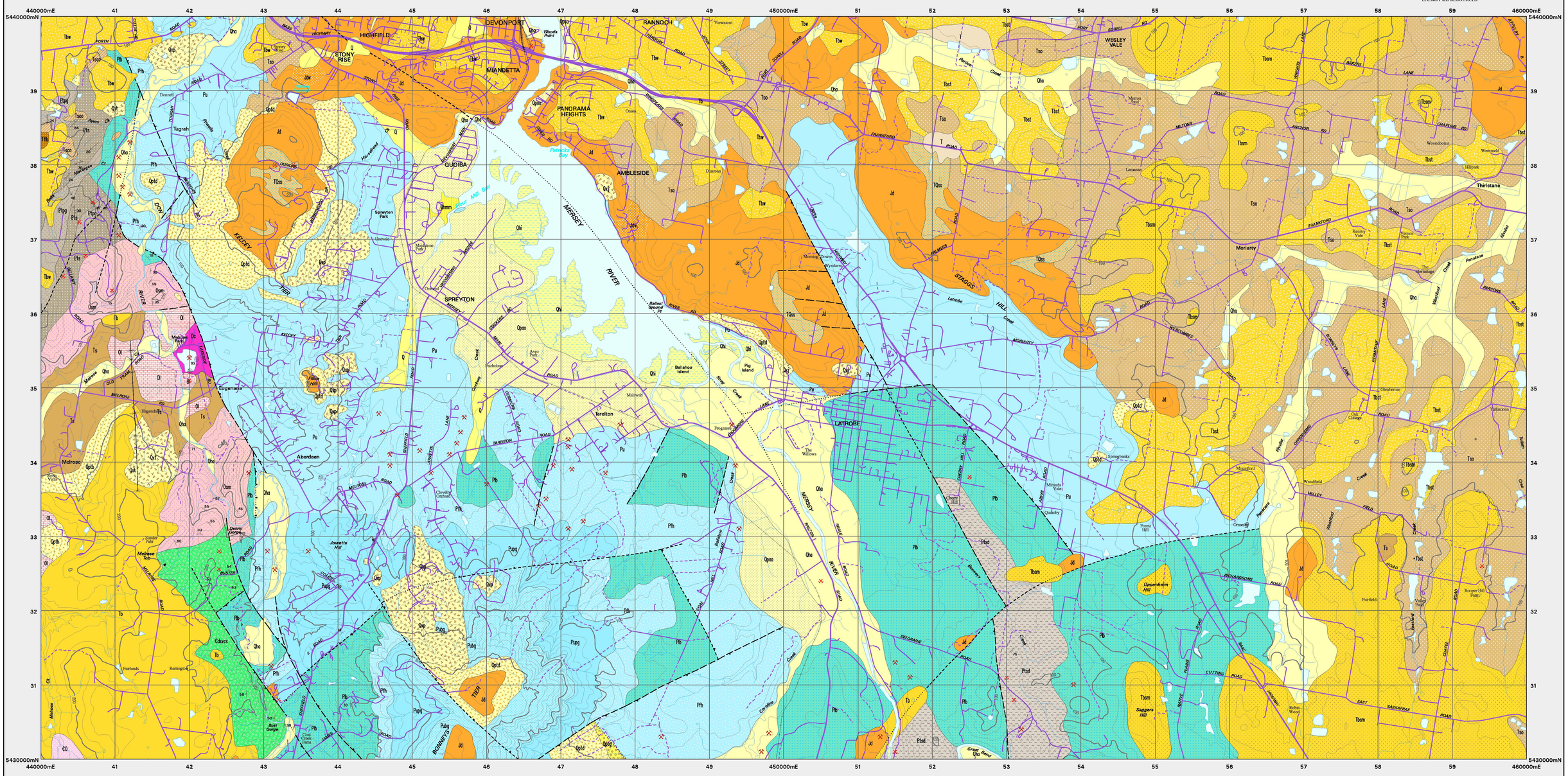
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
LATROBE, SHEET 4443

LATROBE

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY

PLEISTOCENE - HOLOCENE

- **Qhmm** — *Man-made deposits (Qhmm).*
- **Qhi** — *Predominantly estuarine mud (Qhi).*
- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qxt** — *Landslide deposits predominantly derived from weathered Tertiary rocks (Qxt); from Permian rocks (Qxp); from weathered Jurassic dolerite (Qxj).*
- **Qpag** — *Marsh deposits and residual gravels (Qpag).*
- **Qpsa** — *Older sand, gravel and clay on coastal plains (Qpsa).*
- **Qptd** — *Talus consisting dominantly of dolerite boulders (Qptd). Basalt talus (Qptb).*
- **Qpao** — *Older alluvium of river terraces (Qpao).*

Erosional surface.

- **TQss** — *Dominantly sand, clayey sand and sandy clay and subordinate clay and gravel of probable mixed alluvial and aeolian origin (TQss).*

TERTIARY

- **T** — *Undifferentiated Tertiary (T).*
- **Ts** — *Sand (Ts).*
- **Tflb** — *Laterite derived from Tertiary basalt (Tflb).*
- **Tb**
  - **Tbw** — *Basalt (Tb). Predominantly deeply-weathered basalt (Tbw).*
  - **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.

PALAEOZOIC

PERMIAN

UPPER GLACIOMARINE SEQUENCE

- **Pu** — *Upper glaciomarine sequences of pebbly mudstone, pebbly sandstone and limestone (Pu).*
  - **Pub** — *Unfossiliferous pebbly siltstone, siltstone and sandstone (Pub).*
  - **Pup** — *Sandstone, mudstone and pebbly mudstone with marine fossils (Pup).*

LOWER GLACIOMARINE SEQUENCE

- **Pfh** — *Quartz sandstone and shale, carbonaceous in places, and minor conglomerate (Pfh).*
- **Pfb** — *Poorly sorted pebbly mudstone, sandstone and minor conglomerate marine fossils present in places (Pfb).*

DEVONIAN

- **Dc** — *Terrestrial cavern filling (Dc).*

Angular unconformity.

LATE CAMBRIAN - EARLY ORDOVICIAN

GORDON GROUP

- **Ol** — *Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone and black clay weathering products. In part fossiliferous (Gordon Limestone and correlates) (Ol).*

OWEN GROUP / WURAWINA SUPERGROUP

- **Osm** — *Poorly sorted quartz sandstone and minor mudstone (probable correlate of Moina Sandstone) (Osm).*
- **€O** — *Undifferentiated shallow marine – non-marine siliciclastic conglomerate – sandstone sequence (Owen Group and correlates) (€O).*

Angular unconformity.

CAMBRIAN

MOUNT READ VOLCANICS

- **€dsvcs** — *Quartz conglomerate (€dsvcs).*

PROTEROZOIC

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** — *Quartzitic schist with dolomite (Ptsd).*

INTRUSIVE ROCKS

JURASSIC

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

Geological boundary – position accurate or approximate.
Geological boundary – inferred from aeromagnetic data.
Fault – position accurate or approximate.
Fault – inferred.
Fault – concealed.
Fault – normal – position accurate or approximate.
Axial surface trace of major fold – synform.

Strike and dip of bedding, facing unknown.
Strike and dip of cleavage, relative local age 51.
Trend and plunge of minor fold hinge line, unspecified relative age.
Strike of dominant joint set, vertical.
Mineral deposit location – hardrock } *Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.*
Mineral deposit location – alluvial
Construction materials location – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by D. C. Green, 2004 from the following sources (see responsibility diagram):

A BURNS, K.L. 1963. Geological Atlas 1:63360 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 1:63360 Series, sheet 37 Sheffield. Tasmanian Department of Mines.

C GEE, R.D. and LEGGE, P.J. 1971. Geological Atlas 1:63360 Series, sheet 30 Beaconsfield, Tasmanian Department of Mines.

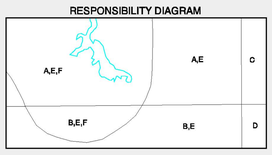
D GULLINE, A.B. 1973. Geological Atlas 1:63360 Series, sheet 38 Frankford, Tasmanian Department of Mines.

Updated by:

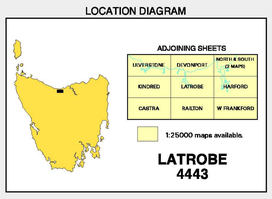
E M. Vicary 2004, as part of the Western Tasmania Regional Minerals Program.

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

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



REFERENCE THIS MAP AS:

GREEN, D.C. (compiler) 2004. Digital Geological Atlas 1:25000 Series, sheet 4443 Latrobe. Mineral Resources Tasmania.

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AGD66 - AMG Zone 55. Contour Interval: 20 metres.

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