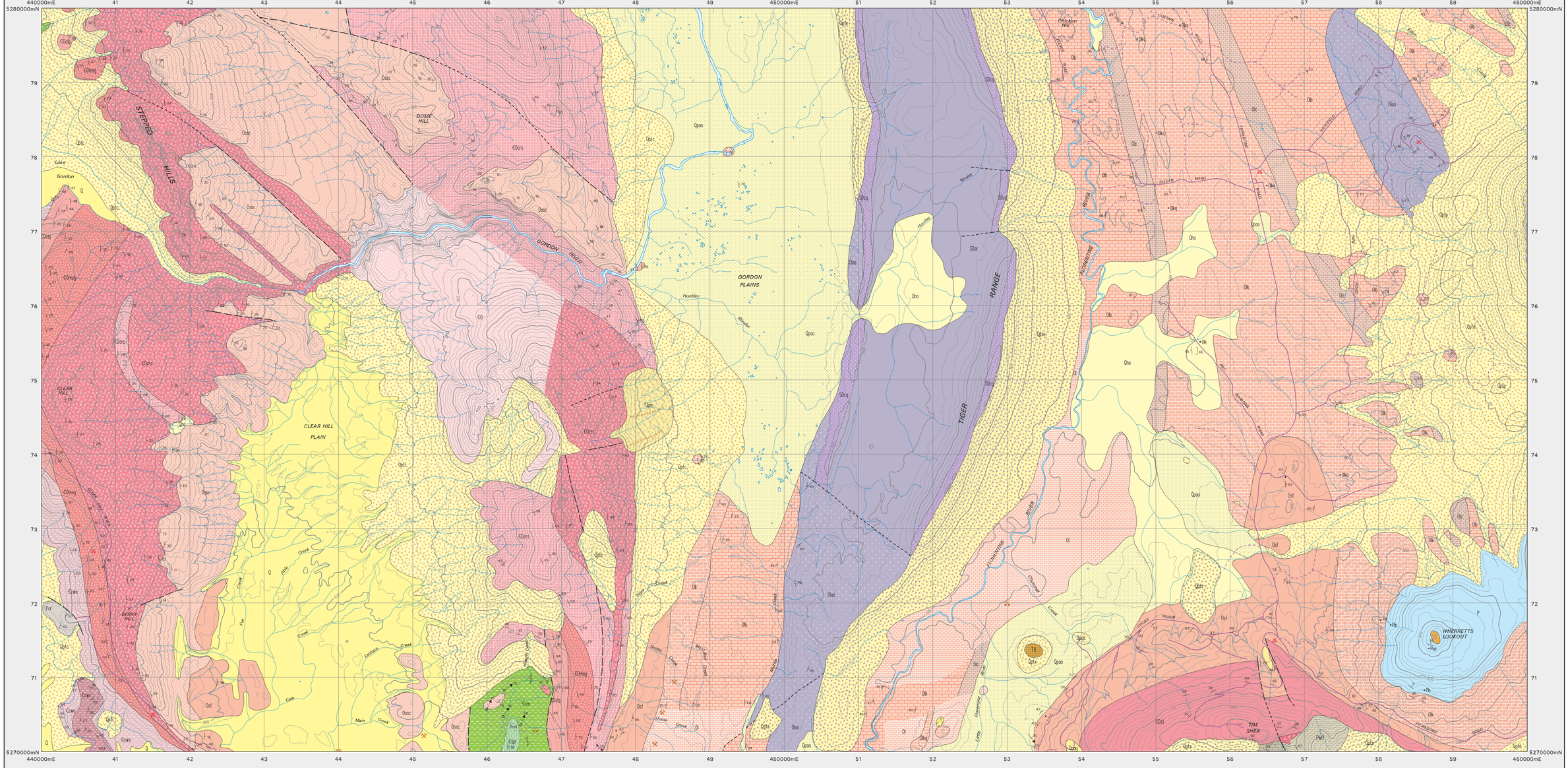
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
TIGER, SHEET 4427

TIGER

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CENOZOIC

QUATERNARY

- **Qha** — *Undifferentiated Quaternary sediments (Q).* *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qptx** — *Talus, till and scree of probable Pleistocene age (Qpt).* *Talus composed of predominantly ferricrete fragments (Qptx).*
- **Qptd** — *Talus consisting dominantly of dolerite boulders (Qptd).*
- **Qptp** — *Talus of dolerite and subordinate Lower Parmeenner rocks (Qptp).*
- **Qpte** — *Scree, talus and associated colluvium – derived from Eldon Group rocks (Qpte).*
- **Qptc** — *Talus of siliceous conglomerate (Qptc).*
- **Qpts** — *Sandstone derived talus (Qpts).*
- **Qpoo** — *Older alluvium of river terraces (Qpoo).*
- **Qpod** — *Older alluvium of river terrace, predominantly dolerite derived (Qpod).*
- **Qpgg** — *Pleistocene glacial and glacigene deposits (Qpgg).*
- **Qpgp** — *Erratic of Precambrian provenance (Qpgg).*
- **Qpm** — *Till with moraine ridge crests (Qpm).*

TERTIARY

- **Tfr** — *Ferricrete lag (Tfr).*

~~~~~~~~~~ *Low angle unconformity*

PALEOZOIC

CARBONIFEROUS – PERMIAN

- **Puo** — *Undifferentiated Permo–Carboniferous sedimentary rocks (P).* *Undifferentiated fossiliferous glaciomarine sandstone, siltstone and limestone (Deep Bay Formation, Berriedale Limestone, Nassau Siltstone and Rayner Sandstone) (Puo).*
- **Pln** — *Sparsely to richly fossiliferous marine siltstone, mudstone, sandstone and impure limestone with lonestones (correlate of Bundella Formation) (Pln).*

~~~~~~~~~~ *Angular unconformity*

SILURIAN

- **SDor** — *Shallow marine quartz sandstone, siltstone and shale (Eldon Group correlates) (SD).* *Well-bedded, usually bioturbated, buff to grey–green micaceous siltstone with minor thin layers of fine–grained sandstone; richly fossiliferous horizons present with Late Llandovery and Wenlock faunas (Richea Siltstone) (SDor).*
- **SDcq** — *Unfossiliferous, well–sorted, fine– to very fine–grained hard quartz sandstone with common ripple marks and minor thinly interbedded micaceous mudstone (Gell Quartzite) (SDcq).*

ORDOVICIAN

- **Oao** — *Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone. In part fossiliferous (Oj).* *Buff–coloured micaceous very fine–grained sandstone, siltstone and mudstone, coarsening upward; richly fossiliferous with Ashgillian to Silurian faunas (Arndell Sandstone, including Westfield Beds) (Oao).*
- **Olb** — *Dolomitic, micritic limestone (Benjamin Limestone) (Olb).*
- **Olc** — *Oncolitic calcarenite (Cashions Creek Limestone) (Olc).*
- **Olk** — *Micritic limestone, usually with chert nodules (Karmberg Limestone) (Olk).* *Locally indicated by Quaternary lag of chert fragments (Olkq).*
- **Osf** — *Undifferentiated shallow marine – non–marine siliciclastic conglomerate – sandstone sequence (€O).* *Siltstone and calcareous shale (Florentine Valley Formation and correlates, including Squirrel Creek Formation) (Osf).*
- **Ossc** — *Upper marine shallow–water quartz sandstone with abundant worm casts, minor basal conglomerate against Cambrian basement (lower member of Florentine Valley Formation) (Ossc).*

LATE CAMBRIAN

- **€Ost** — *Quartz sandstone and chert–clast conglomerate (Tim Shea Sandstone) (€Ost).*
- **€Ocrs** — *Interbedded cross–bedded quartz sandstone, pebbly sandstone and siliceous well–sorted pebble conglomerate (€Ocrs).*
- **€Ocrc** — *Terrestrial shallow–water thicky–bedded siliceous–cobble conglomerate (€Ocrc).* *(€Ocrc + €Ocrs – Reeds Conglomerate)*
- **€Ocrc** — *Dolomitic and siliceous breccia and sandstone, overlain by red bioturbated sandstone and mudstone (base of the Tim Shea Sandstone) (€Ostc).*
- **€Omsg** — *Lower marine shallow–water quartz sandstone with worm casts; minor basal conglomerate (Great Dome Sandstone) (€Omsg).*
- **€Oclq** — *Siliceous turbidilic quartzwacke, calcareous and micaceous sandstone and siltstone, with minor conglomerate, limestone and quartz arenite; Late Cambrian (Idamean) fossils present (Singing Creek Formation and correlates) (€Oclq).*

~~~~~~~~~~ *Angular unconformity of €O on €cw, Pw.*

EARLY CAMBRIAN

- **€cwa** — *Interbedded chert, lithic sandstone, siltstone and pyritic mudstone (€cwa)*
- **€cwc** — *Pale to dark grey or black, distinctly bedded and planar laminated to massive or brecciated chert with minor red and grey siliceous hematitic mudstone and siltstone (€cwc).*

PARMEENER SUPERGROUP (Lower Division)

TIGER RANGE GROUP (Correlate of Eldon Group)

GORDON GROUP

WURAWINA SUPERGROUP

DENISON GROUP (Correlate of Owen Group)

RAGGED BASIN COMPLEX

NEOPROTEROZOIC

- **Pwtg** — *Dominantly bedded, oolitic dolograinstone (Pwtg).* — WELD RIVER GROUP
- **Pwtf** — *Dominantly fine–grained dolostone (Pwtf)* — WELD RIVER GROUP

Faulted contacts of €cw with older units.

Faulted contacts of Pcr with €cw.

- **Pcr** — *Red siltstone and mudstone (Pcr).* — CLARK GROUP

INTRUSIVE ROCKS

JURASSIC

- **Jd** — *Dolerite (Jd).*

EARLY CAMBRIAN

- **€sp** — *Dominantly layered pyroxenite and dunite (€sm).* — ADAMSFIELD ULTRAMAFIC COMPLEX
- **€sm** — *Massive serpentinite (€sm).* — ADAMSFIELD ULTRAMAFIC COMPLEX

Geological boundary – position accurate or approximate.
Geological boundary – inferred.
Geological boundary – transitional.
Fault – unspecified type, position accurate or approximate.
Fault – unspecified type, inferred.
Morainal ridge crest.
(white line) *Limit of mapping of sub–unit within undifferentiated rock unit ('Colour boundary').*

Strike and dip of bedding – right way up; facing unknown.
Strike and dip of bedding, overturned.
Strike and dip of cleavage of unspecified type and relative age; vertical.
Strike and dip of cleavage, relative local age S1; vertical.
Trend and plunge of minor fold hinge line, with dip and dip direction of axial surface, unspecified relative age; F2.
Trend and plunge of minor fold hinge line, relative local age F1, with vertical axial surface.
Trend and plunge of lineation L2, formed by intersection of cleavages or foliations of relative local ages S1 and S2.
Strike and dip of primary igneous banding or platy alignment, and schlieren in granitic rocks.
Notable small outcrop.
Field station for adjacent readings on the map.
Mineral deposit location – hardrock
Mineral deposit location – alluvial
Construction materials location –
Data derived from Mineral Resources Tasmania DEPOSITS base. Data point position has not been verified in every case.

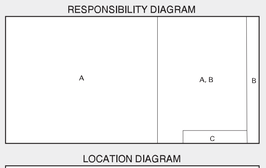
Compiled by J.L. Everard, 2007 from the following sources (see responsibility diagram):

A BROWN, A.V.; McCLENAGHAN M.P., TURNER, N.J.; McCLENAGHAN, J.; LENNOX, P.G. & WILLIAMS, P.R. 1992. Geological Atlas 1:50,000 series, sheet 73 (8112N). Huntley. Tasmania Department of Mines.

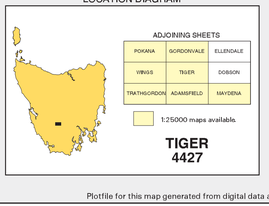
B SHARPLES, C. 2002. Reconnaissance mapping of soil parent materials in the East Florentine and Upper Tyenna Valleys - report to Forestry Tasmania (Derwent Division).

C CALVER, C.R. 2006. The Geology of The Needles area and some revisions to the stratigraphy of the Clark Group. Appendix 1 in Geology of the Maydena, Skeleton, Nevada, Weld and Picton 1:25 000 sheets. Tasmanian Geological Survey Record 2006/04.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



REFERENCE THIS MAP AS:

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Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.

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

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