TEEPOOKANA

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
TEEPOOKANA, SHEET 3632

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES

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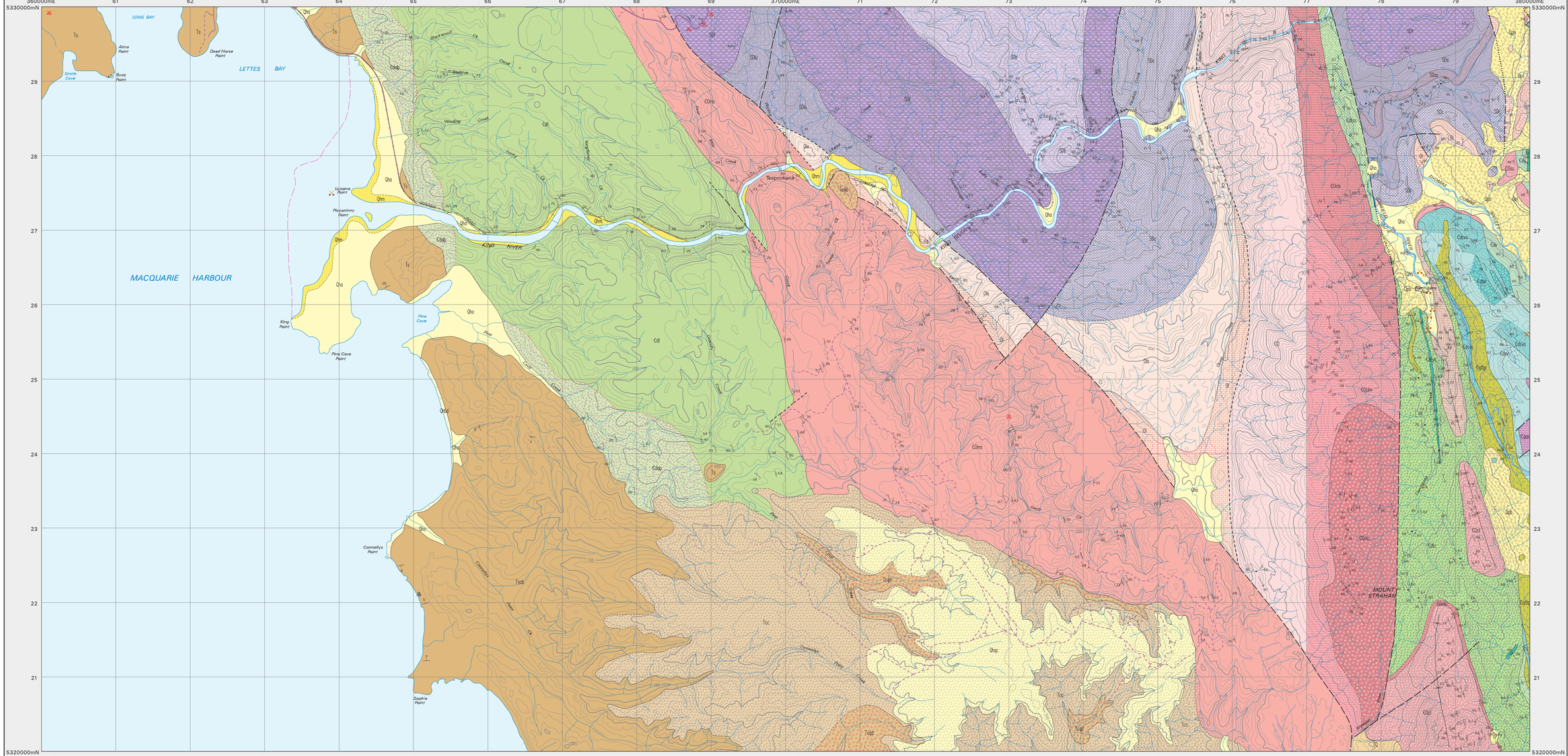


CAINOZOIC

QUATERNARY

HOLOCENE

- **Qhm** — *Man–made deposits including mine dumps and disturbed ground (Qhm).*
- **Qha** — *Alluvium, swamp and marsh deposits (Qha).*
- **Qhbd** — *Younger active dune, beach sand and gravel (Qhbd).*
- **Qhgc** — *Gravels formed of well–rounded siliceous clasts in fine silt to course sand, constituting channelised flood plain and river terrace deposits (Qhgc).*

PLEISTOCENE

- **Qpt** — *Talus, scree and colluvial deposits (Qpt).*
- **Qpb** — *Bouldery slope and fan deposits, commonly with leveed channels, probably partly of glacial origin (Qpb).*
- **TQ** — *Undifferentiated Cainozoic sediments, including talus and bouldery slope and fan deposits (Pleistocene?–Holocene). Possible Tertiary sediments at lower levels (TQ).*

TERTIARY

MACQUARIE HARBOUR GROUP

- **Tcc** — *Interbedded sandstone, siltstone, clay and conglomerate with lignite horizons (Ts).*
- **Tcgd** — *Poorly indurated siliceous pebble to cobble conglomerate horizons containing more than 5% dolerite clasts (Tcgd).*
- **Tcb** — *Siliceous pebble to cobble conglomerate (Tcc).*
- **Tscb** — *Fine to medium grained quartz sandstone with carbonaceous siltstone laminae containing plant stems and leaf impressions (Tscb).*
- **Tf** — *Local occurrence of ferricrete at 360900mE 5329080mN (Tf).*

PALAEOZOIC

DEVONIAN

ELDON GROUP

- **SDb** — *Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine–grained quartz sandstone (Bell Shale and correlates) (SDb).*
- **SDf** — *Fine–grained quartz sandstone with minor siltstone and mudstone (correlate of Florence Formation) (SDf).*
- **SDa** — *Mainly mudstone and siltstone with minor sandstone and rare limestone (correlate of Amber Formation) (SDa).*

SILURIAN

- **SDas** — *Unit of fine–grained quartz sandstone indicated (SDas).*
- **SDc** — *Mainly coarse–to fine–grained sandstone (commonly decomposed to a friable sand) with an upper sequence of siltstone and fine–grained sandstone in some areas (Crotty Formation and correlates) (SDc).*

ORDOVICIAN

GORDON GROUP

- **Ol** — *Mainly siltstone and fine–grained sandstone ("Rinadeena Shale" and correlates) (Ola).*
- **Ola** — *Limestone with some interbedded siltstone in places. Commonly decomposed to black clay "pug". (Gordon Limestone) (Ol).*

WURAWINA SUPER–GROUP

PALAEOZOIC

ORDOVICIAN

GORDON GROUP

- **Osmp** — *Grey to pink quartz sandstone with basal pebble–cobble conglomerate; trace fossils and chromite–rich bands in upper part (Pioneer Beds and correlates) (Osmp).*

LATE CAMBRIAN

OWEN GROUP

- **COsu** — *Thin–bedded quartz sandstone, commonly bioturbated, with interbedded siltstone and minor granule–pebble conglomerate. Chert clasts in places. Bioturbation common (Linda Sandstone = "Upper Owen" Sandstone) (COsu).*
- **COms** — *Interbedded laminated siltstone, micaceous sandstone, graded greywacke, quartzite and minor siliceous conglomerate in the Lower King River area (correlate of Newton Creek Sandstone) (COms).*
- **COcl** — *Pebble–cobble to cobble–boulder conglomerate, generally thick bedded to massive, with minor sandstone lenses (Sedgwick Conglomerate = "Lower Owen" conglomerate) (COcl).*
- **COcim** — *Mainly thin bedded micaceous sandstone (COcim).*
- **COcic** — *Thick bedded to massive cobble–boulder conglomerate (COcic).*
- **COcls** — *Green to grey, thin bedded micaceous siltstone and sandstone (COcls).*

WURAWINA SUPER–GROUP

MIDDLE CAMBRIAN

TYNDALL GROUP

- **Cdtc** — *Mainly volcaniclastic conglomerate and sandstone with minor mudstone and interbedded volcaniclastic sandstone. Quartz–rich matrix. Sparse quartzite clasts in places (Cdtc).*
- **Cdtsh** — *Mainly thin–bedded siltstone and mudstone with subordinate volcaniclastic sandstone (Cdtsh).*
- **Cdtss** — *Mainly well–bedded quartz–feldspar crystal–rich volcaniclastic sandstone with minor siltstone and volcaniclastic conglomerate; graded bedding common (Cdtss).*
- **Cdtlg** — *Interlayered andesitic to basaltic lavas/intrusives with some crystal lithic rich volcaniclastic sediments and minor acid volcanics in the Pine Cove Creek area (Cdalp).*

CENTRAL VOLCANIC COMPLEX

- **Cdv** — *Dominantly feldspar–phyric volcanic and volcaniclastic rocks, with some andesitic to basaltic volcanics (Cdv).*
- **Cdvt** — *Mainly felsic pyroclastic rocks, dominantly feldspar–phyric, including pumice–bearing tuff and breccia, crystal–vitric tuff, vitric tuff and minor shale and sandstone (Cdvt).*
- **Cdvl** — *Mainly feldspar (+ quartz)–phyric lava, commonly with spherulitic groundmass (Cdvl).*
- **Cdvs** — *Units of bedded siltstone, sandstone, tuff and agglomerate (Cdvs).*

WESTERN VOLCANO SEDIMENTARY SEQUENCE

- **Cdsv** — *Mixed sequence of bedded volcaniclastic sandstone (usually quartz–feldspar–bearing), siltstone, sandstone, mudstone and rhyolitic to andesitic lavas and intrusives (Cdsv).*
- **Cdsvs** — *Dominantly greywacke and mudstone with some interbedded vitric tuff, crystal tuff and crystal–lithic tuff (Cdsvs).*
- **Cdsvl** — *Mainly quartz–feldspar (+ biotite)–phyric lava (Cdsvl).*

MT READ VOLCANICS

INTRUSIVE ROCKS

PALAEOZOIC

MIDDLE CAMBRIAN

- **Cdfbp** — *Quartz–feldspar–biotite porphyry – mainly intrusive but may be partly extrusive (Cdfbp).*
- **Cdah** — *Feldspar–hornblende–phyric andesite (Cdah).*

MT READ VOLCANICS

- *Geological boundary – position accurate or approximate.*
- *Geological boundary – inferred.*
- *Geological boundary inferred from airborne magnetic data.*
- *Lineament visible in airborne radiometric data.*
- *Fault, position accurate or approximate.*
- *Fault, position inferred.*
- *Fault, position concealed.*
- *Axial surface trace of major antiform.*
- *Axial surface trace of major synform.*
- (White line) *Colour boundary.*

- *Strike and dip of bedding facing known – right way up; overturned.*
- *Strike and dip of bedding, facing unknown – dipping; vertical.*
- *Strike and dip of igneous banding.*
- *Strike and dip of cleavage, type and relative age unspecified – dipping; vertical.*
- *Strike and dip of crenulation cleavage.*
- *Trend and plunge of minor fold hinge line, unspecified relative age, with dip and dip direction of axial surface.*
- *Trend and plunge of minor fold hingeline, relative local age F1.*
- *Field station for adjacent readings on the map.*
- *Notable small outcrop with rock unit indicated*
- *Microfossil locality.*
- *Macrofossil locality.*
- *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* } Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.
- *Construction materials location –* Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by M.J. Vicary, 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see Responsibility Diagram):

A Baillie et al, 1977. Strahan. Geological Atlas 1:50,000 Series, Sheet 7913M. Department of Mines, Tasmania.

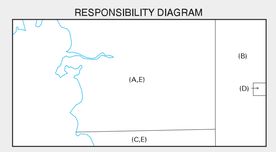
B Corbett et al, 1993. Mt Read Volcanics Project. Map 13 Geology of the Mt Jukes - Mt Darwin area. Tasmania Department of Mines.

C McClenaghan, M.P. and Findlay, R.H., 1989 Macquarie Harbour, Geological Atlas 1:50,000 Series. Sheet 64 (7913S). Department of Mines, Tasmania.

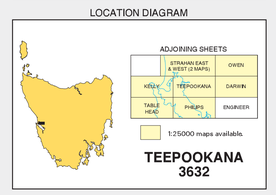
D Halley, S., Vicary, M., and Boyd, D.1995 Exploration Licences No's 102/87, 55/89 and 12/92 (Queenstown, Mt Darwin and Queenstown South). Annual Report April 1994 - March 1995 RGC Exploration Pty Ltd. TCR 95-3721.

E Additional information based on alphoto and WTRMP geophysical data interpretation.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



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

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