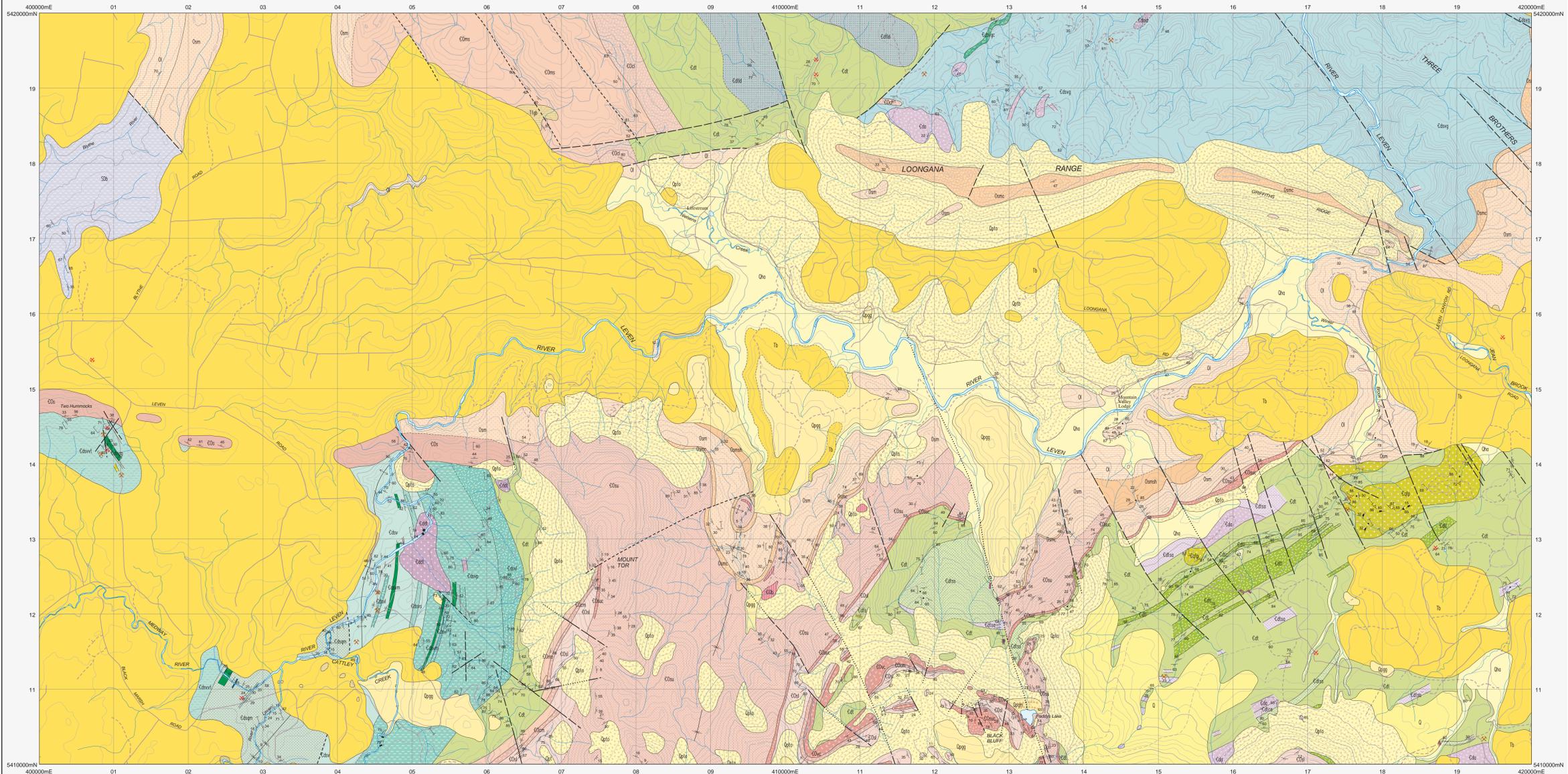
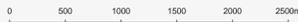


LOONGANA

Scale: 1:25 000



GEOLOGICAL GROUP	UNIT CODE	UNIT DESCRIPTION
GENOZOIC	QUATERNARY	Qha Alluvium, swamp and marsh deposits (Qha).
		Qp Talus (Qp).
		Qpt Basalt tuffs (Qpt).
		Qpca Quartzite and conglomerate talus (Qpca).
		Qpcc Glacial deposits (Qpcc).
	PLEISTOCENE	Qpym Mostly moraine deposits (Qpym).
		Tfip Grey-silt and siltstone (Tfip).
		Tb Basalt (Tb).
		Ts
		Sdb Mudstone, minor siltstone, minor fine-grained sandstone and rare limestone (correlate of Bell Formation) (Sdb).
PALEOZOIC	SILURIAN - PALEOZOIC - DEVONIAN	Oi Limestone with siltstone in some areas (Oi).
		Orn Coloured siltstone and sandstone. Transitional unit from Meina Sandstone to Gordon Limestone (Orn).
		Orp Pale grey to pink commonly cross-bedded quartz sandstone, coarse and pebbly (favored tops and with tabular trace fossils in horizons of upper sequence) (correlate of Meina Sandstone) (Orp).
		Ormc Grey to pink/purple granule-pebble conglomerate and coarse sandstone. Chert clasts common. Some bioturbated horizons (Ormc).
		Orsu Mostly pink sandstone and gravel-pebble conglomerate with minor siltstone. Clasts of chert common (Orsu).
	ORDOVICIAN	Orsa Basalt, typically kaemite-tered, fine grained, purple weathering. Massive to brecciated, generally well cleaved, vesicular, rare pillow structures (Orsa).
		Orca Pink pebble to pebble-cobble conglomerate with minor lenses of coarse sandstone (Orca).
		Orcl Thin bedded pink to grey sandstone, minor siltstone, calcareous sandstone and pebble conglomerate. Some bioturbated horizons (Orcl).
		Orcm Pebble-cobble to cobble-boulder conglomerate thick bedded to massive, with minor sandstone lenses. Pink to pale grey (correlate of Meina Conglomerate) (Orcm).
		Orca Intermediate micaceous sandstone, siltstone and siliceous pebble sandstone, mostly grey in colour (correlate of Newton Creek Sandstone) (Orca).
CAMBRIAN	Orca Lower sequence of siliceous pebble to cobble grade conglomerate with sandstone interbeds (Orca).	
	Orca Volcanic conglomerate, breccia and sandstone. Correlate of Jukes Conglomerate (Orca).	
	Orca	
	Orca	
	Orca	

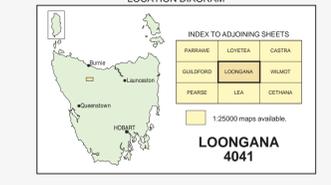
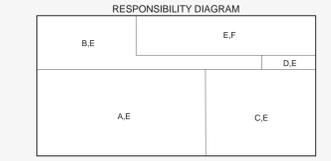
GEOLOGICAL GROUP	UNIT CODE	UNIT DESCRIPTION
CAMBRIAN SERIES 3 - FURCIGANTID	Cot Mixed sequences of volcanoclastic and felsic to intermediate volcanic rocks (Cot).	
	Cotc Volcanoclastic conglomerate and sandstone (Cotc).	
	Cotca Andesitic volcanic conglomerate (Cotca).	
	Cotbs Volcanoclastic sandstone and siltstone, typically quartz-feldspar +/- biotite-phyric, with minor felsic lava (Cotbs).	
	Cotc Andesitic volcanic sandstone (Cotc).	
	Cotc Andesitic lava and breccia, typically feldspar-hornblende-phyric (Cotc).	
	Cotc Volcanoclastic mass-flow units (Cotc).	
	Cotc Dacitic lavas and related intrusives, typically feldspar-ferromagnesian-phyric, commonly flow-banded (Cotc).	
	Cotc	
	Cotc	
CAMBRIAN SERIES 3	Cdvg Marine volcan-sedimentary sequences of sandstone, siltstone, conglomerate and breccia with some felsic to andesitic volcanic rocks (Cdvg).	
	Cdvu Siliceous conglomerate and sandstone, with some volcanic detritus in places (Cdvu).	
	Cdvu Andesitic lavas, breccias and related intrusives (Cdvu).	
	Cdvu Mixed sequence of volcan-sedimentary, sedimentary and volcanic rocks (Cdvu).	
	Cdvu Upper sequences of pumice-bearing volcanoclastic sandstone and breccia in Mt Tigr area (correlate of Southwell Subgroup) (Cdvu).	
	Cdvu Coarse polytuff volcanoclastic breccia units, typically graded, of mass-flow origin (Cdvu).	
	Cdvu Felsic lava, typically quartz-feldspar-phyric (Cdvu).	
	Cdvu Bedded sandstone-siltstone unit (Cdvu).	
	Cdvu Coarse polytuff volcanoclastic breccia units, typically graded, of mass-flow origin (Cdvu).	
	Cdvu Felsic lava, typically quartz-feldspar-phyric (Cdvu).	

GEOLOGICAL GROUP	UNIT CODE	UNIT DESCRIPTION
CAMBRIAN SERIES 3	Cdvu	Micaceous quartzite sandstone with siltstone and gravel conglomerate (correlate of Anson Creek Greywacke) (Cdvu).
	Cdvu	Volcanoclastic mass-flow units (Cdvu).
	Cdvu	Volcanic ash units (Cdvu).
	Cdvu	Mafic intermediate lava unit (Cdvu).
	Cdvu	Dominant fine-grained vitriclastic siltstone with some mass-flow deposits, shale and greywacke (correlate of Black Henry Beds) (Cdvu).
	Cdvu	Volcanoclastic mass-flow units (Cdvu).
	Cdvu	Bedded sandstone-siltstone unit (Cdvu).
	Cdvu	Basaltic dykes, usually chlorite-carbonate altered (Cdvu).
	Cdvu	Quartz-feldspar porphyry (Cdvu).
	Cdvu	Feldspar-quartz porphyry, commonly spherulitic, usually intrusive (Cdvu).
INTRUSIVE ROCKS	Cdvu	Massive plagioclase-hornblende-phyric diorite, andesite and dacitic intrusives (Cdvu).
	Cdvu	Ophitic textured mafic-intermediate rocks of uncertain affinity, feldspar-pyroxene-chlorite-quartz-bearing (Cdvu).
	Cdvu	Basaltic dykes, usually chlorite-carbonate altered (Cdvu).
	Cdvu	Quartz-feldspar porphyry (Cdvu).
	Cdvu	Feldspar-quartz porphyry, commonly spherulitic, usually intrusive (Cdvu).
	Cdvu	Massive plagioclase-hornblende-phyric diorite, andesite and dacitic intrusives (Cdvu).
	Cdvu	Ophitic textured mafic-intermediate rocks of uncertain affinity, feldspar-pyroxene-chlorite-quartz-bearing (Cdvu).
	Cdvu	Basaltic dykes, usually chlorite-carbonate altered (Cdvu).
	Cdvu	Quartz-feldspar porphyry (Cdvu).
	Cdvu	Feldspar-quartz porphyry, commonly spherulitic, usually intrusive (Cdvu).

SYMBOL	DESCRIPTION
—	Geological boundary - position approximate.
- - -	Geological boundary - position inferred.
- . - .	Fault - position inferred.
- - - -	Fault - position approximated.
- . - .	Fault - position concealed.
—	Axial surface trace of major fold, antiform.
—	Axial surface trace of major fold, synform.
—	Marine ridge crests.
(white line)	Limit of mapping of sub-unit within undifferentiated rock unit.

SYMBOL	DESCRIPTION
— X —	Strike and dip of bedding - right way up; overturned; facing unknown.
— X —	Strike of vertical bedding facing unknown.
— X —	Strike and dip of cleavage of unspecified type and relative age; vertical.
— X —	Strike and dip of metamorphic foliation other than cleavage.
— X —	Trend and plunge of hinge line of minor antiform, unspecified relative age; horizontal.
— X —	Trend of horizontal hinge line of minor synform, unspecified relative age.
— X —	Trend of horizontal minor fold hinge line - unspecified relative age; relative local age P2.
— X —	Strike and dip of dominant joint set; vertical.
— X —	Strike and dip of igneous banding or platy alignment; vertical.
— X —	Field station for adjacent readings on the map.
— X —	Glacial striae, sense of movement unknown.
— X —	Mineral deposit location - hardrock.
— X —	Construction material/industrial mineral/gemstone location.

Compiled by J. Pemberton, B.Sc.(Hons) and J. McKibben, B.Sc.(Hons), 1988 from the following sources (see responsibility diagram):
A PEMBERTON, J. and VICARY, M.J., 1988. Mt Read Volcanics Project Map 9. Tasmania Department of Mines.
B BALLIE, P.V. et al. 1986. Geological Atlas 1:50 000 Series. Sheet 36 (8112N), St. Valentines, Tasmania. Tasmania Department of Mines.
C PEMBERTON, J. and VICARY, M.J., 1988. Mt Read Volcanics Project Map 9. Tasmania Department of Mines.
D JENNINGS, I.B. et al. 1959. Geological Atlas 1 Mile Series. Zone 7 Sheet 37, Sheffield, Tasmania Department of Mines.
 Updated by:
E Modified and updated by K.D. Corbett, 2004 as part of the Western Tasmanian Regional Minerals Program, with additional information from:
F Vicary, M.J. 1984 and 1986. Unpublished company mapping, RAC Exploration Pty Ltd. TCR 94-3565 and TCR 95-3728.



REFERENCE THIS MAP AS:
 PEMBERTON, J. and MCKIBBEN, J. (compilers) 2004. Digital Geological Atlas 1:25000 Scale Series. Sheet 4041. Loongana, Mineral Resources Tasmania.
 Base data from the LIST, Copyright State of Tasmania.
 Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.
 GDAS4 - MGA Zone 55. Contour Interval: 20 metres.
 While every care has been taken in the preparation of this data, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act or fail to act on the basis of any material contained herein. Readers should consult professional advisers. As a result the Crown in Right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) to any persons whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this data.
 Crown copyright reserved.