

MAP 3



TASMANIAN REGIONAL DROUGHT INITIATIVE PROJECT
HYDROGEOLOGY OF THE SOUTH ESK RIVER DRAINAGE BASIN

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SCALE 1:100000



GRID: Australian Map Grid, Zone 55

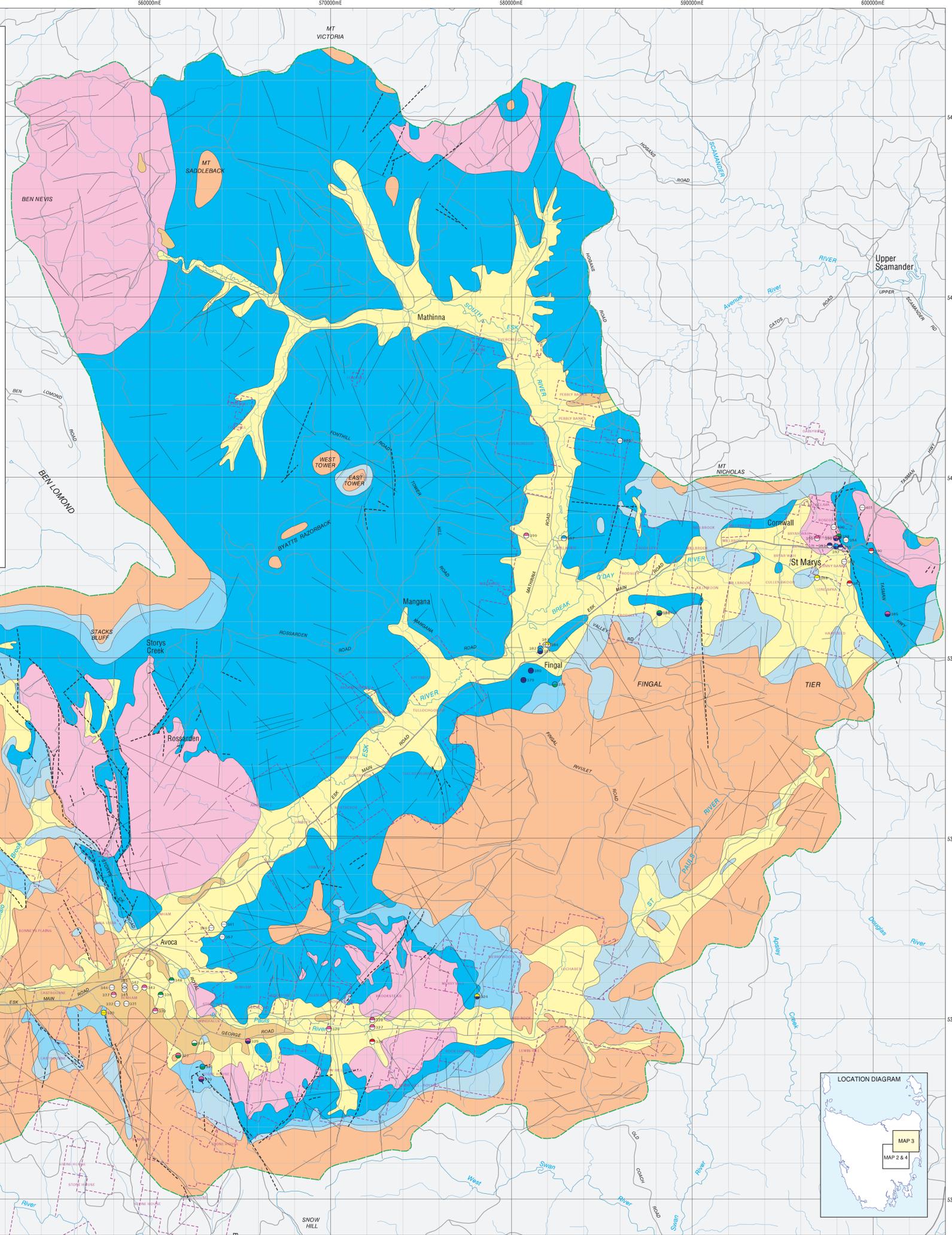
Geology adapted and redrawn from Tasmanian Geological Survey Geological Atlas 1:50 000 series maps Show Hill, St Marys, St Helens, and Tasmanian Geological Survey Geological Atlas 1:250 000 digital series maps North East, South East.
 Digital base information from Land Information Services Division, Department of Primary Industries, Water and Environment.
 Map produced April 2000 by Data Management Group using GIS software.

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AQUIFER CHARACTERISTICS

AQUIFER TYPE	LITHOLOGY	AGE	NUMBER OF BORES *	% SUCCESSFUL BORES	DEPTH OF SUCCESSFUL BORES (m)	YIELD OF SUCCESSFUL BORES (lit)	% UNSUCCESSFUL BORES	AVERAGE DEPTH OF UNSUCCESSFUL BORES	AQUIFER CONDUCTIVITY (µs/cm)
UNCONSOLIDATED SEDIMENTS	Predominantly claystone, siltstone, and sandstone, with some well sorted sands and gravels.	QUATERNARY TO TERTIARY	82	61	3.4 - 196 (39)	0.17 - 4 (1.97)	39	19	126 - 16,634 (13180)
FRACTURED SEDIMENTARY ROCK	Highly fractured: Marine sandstone, mudstone and siltstone, with some limestone. Mainly exposed in Fingal Valley.	PERMIAN TO SILURIAN	23	73	27 - 109 (54)	0.4 - 12 (4.8)	27	44	290 - 4460 (1870)
	Moderately fractured: Freshwater quartz sandstone.	LOWER TRIASSIC	42	78	13.1 - 73 (35)	0.15 - 9 (1.3)	22	28	386 - 5000 (1170)
	Moderately fractured: Lithic sandstone, interbedded with siltstone, mudstone and coal.	UPPER TRIASSIC	85	71	17.3 - 117 (33)	0.1 - 3.6 (0.67)	29	39	550 - 8170 (12660)
FRACTURED IGNEOUS ROCK	Basalt: Variably fractured, mostly vesicular basalt. Dominantly tholeiitic in chemistry.	TERTIARY	25	88	10.4 - 85 (37)	0.12 - 25 (4.2)	12	21	780 - 7150 (12724)
	Dolerite: Medium to fine grained dolerite. Variably jointed and fractured.	JURASSIC	49	61	6.7 - 55 (27)	0.12 - 6 (1.3)	39	24	490 - 10,520 (13630)
	Granite: Relatively massive, coarse grained, porphyritic granite, typically well jointed.	DEVONIAN	-	-	-	-	-	-	-

* Number refers to maps 2 and 3 combined.
 (27) Average figures are given in brackets.



BOREHOLES

YIELD (lit) and CONDUCTIVITY (µs/cm) legend with color-coded circles and numbers.

LINEMENTS

Legend for topographic lineaments, faults, and property boundaries.

Bore success in relation to distance from topographic lineaments

