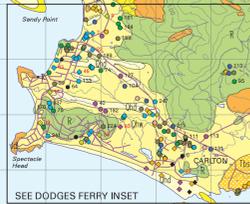
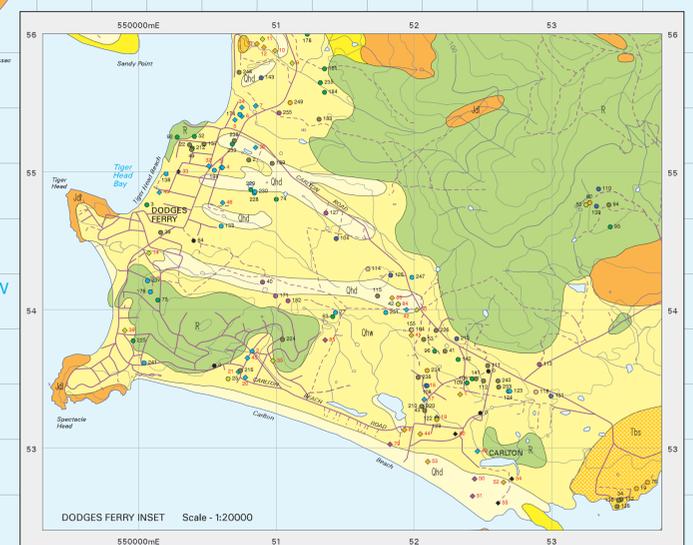


SORELL GROUNDWATER PROJECT GEOLOGY



- QUATERNARY**
- Qha River alluvium, swamp, marsh, beach and soil deposits (Qha).
 - Qhw Windblown sand deposits (Qhw).
 - Qhd Sand dunes (Qhd).
 - Qtsa Talus of basalt (Qtsa).
 - Qtda Talus of dolerite (Qtda).
 - Qtm Talus of mudstone (Qtm).
 - Qs Well sorted fine-grained sandstone (Qs). (EN640450)
 - Qb Breccia derived from Permian rocks (Qb).
- TERTIARY**
- Ts Sandstone, claystone, conglomerate, pyroclastic rocks sand and clay (Ts). Tertiary bays (Tb) overlain by tertiary and quaternary clays (Tb).
 - Tal Silica stone (greybl and albertite) (Tal).
- TRASSIC**
- R Undifferentiated Triassic rocks. Quartz sandstone, shale and mudstone (R).
- PERMIAN**
- P Undifferentiated Permian rocks. Sandy mudstone, alluvium, sandstone, mudstone with opaliferous and occasionally conglomerate, and impure limestone (P).

- IGNEOUS ROCKS**
- TERTIARY**
- Tb Basalt flows and dykes (Tb).
- JURASSIC**
- Jd Dolerite (Jd).
- DEVONIAN**
- Dg Deep Glen Bay Adamellite (Dg).

- Geological boundary - position approximate.
- Geological boundary - position inferred.
- Fault - unspecified type, position approximate.
- Fault - position approximate, downthrown side indicated.
- Fault - position inferred, downthrown side indicated.
- Notable small outcrop.
- Strike and dip of bedding - right way up.

- DEEP BORE DEPTH (m)**
- No data
 - 0 - 15
 - 15 - 25
 - 25 - 35
 - 35 - 45
 - 45 - 55
 - 55 - 65
 - 65 - 75
 - 75 - 100
 - 100 - 175
- Deep bore numbers shown in black.
Spear/Auger bore numbers shown in red.

- SPEAR/AUGER BORE DEPTH (m)**
- No data
 - 0 - 4
 - 4 - 6
 - 6 - 9
 - 9 - 14
- Auger Array
- Spear Array

Bore numbers indicate bore number from Mineral Resources Tasmania hydrogeological database for Sorell quadrangle, Geological Atlas 150000 series. Prefix 'A' or 'B' indicates 'A' bore or 'B' bore. Bore number, O indicates borehole found during fieldwork, construction data unavailable.

Data set for shallow spear/auger holes has been compiled from existing Mineral Resources Tasmania unpublished reports, records, field observations and analysis for period 1997 - 1999.

For Hydrogeological data see map 'Sorell Groundwater Project - Hydrogeology' (Map 1).

Map compiled by M. Lavinovic, B.Sc.(Hons) from:
- Geological Atlas 150 000 series, sheet E3 (E4129) Sorell 1982.
- Field Mapping by M. Lavinovic, 1997 - 1998.
- Available Groundwater Borehole data.
- Gravity Survey and Structure of the Forester Peninsula by D. Leaman (1997).
Geological information in some areas (Permian and Triassic rocks) has been generalised for Hydrogeological purposes.
Refer to Sorell, Geological Atlas 150 000 series for Geology.
Mineral Resources Tasmania,
Department of Infrastructure Energy and Resources.



Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.

Map produced by the Data Management Branch of Mineral Resources Tasmania using GIS, software.
GMS: Australian Map Grid, Zone 55. Contour Interval: 20 metres.
Geological and Hydrogeological digital data used in the production of this map are available from Data Management Branch, Mineral Resources Tasmania.

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