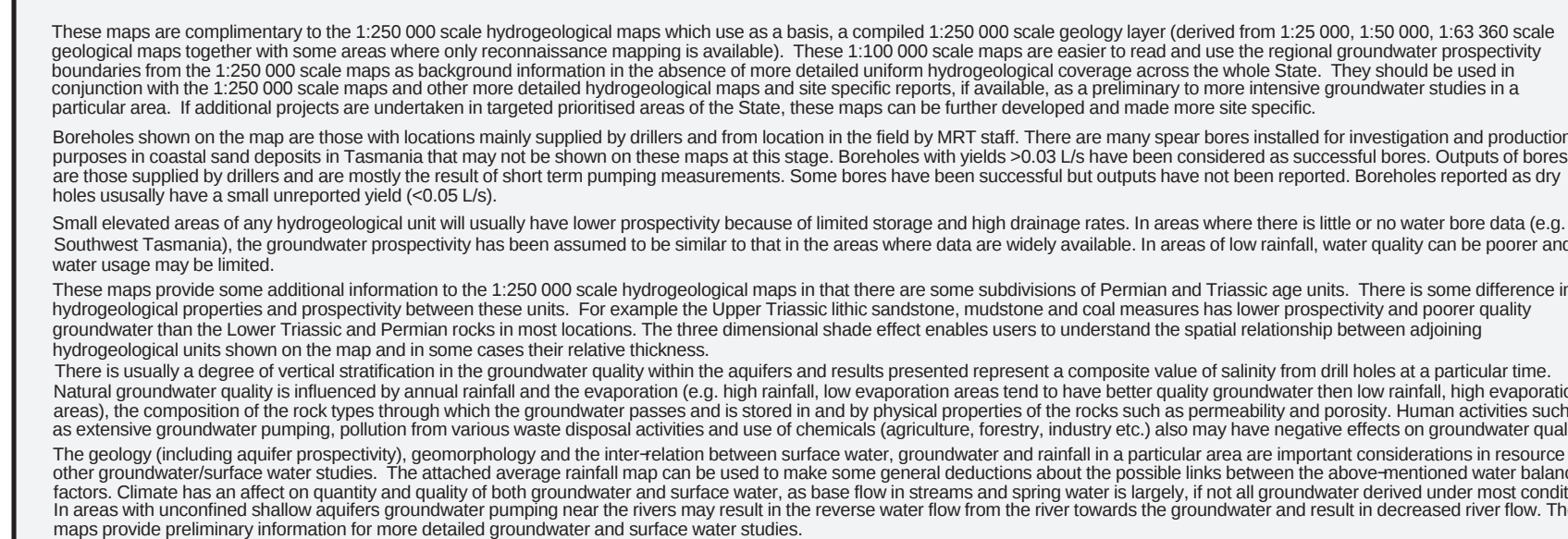




AQUIFER TYPE	PROSPECTIVITY (value of Tennesses)	ROCK GROUPS	VULNERABILITY TO POLLUTION
POROUS (INTERGRANULAR)	HIGH	Quaternary weakly deformed marginal to the coast consisting of fine to medium grain size sand.	High.
POROUS (INTERGRANULAR)	Moderate-High	Quaternary coastal plain deposits consisting of sand, silt, clay, silty clays and gravel underlying present near the coast. Probable marine origin.	Moderate to high. Dependent on permeability of the material that overlies the aquifer.
POROUS (INTERGRANULAR)	LOW-Moderate	Quaternary alluvium (clay, sand and gravel with varying clay contents) and talls (ouster deposits). Sand, gravel and mud of alluvial, lacustrine and littoral origin. Minor windblown sands on diking bedrock.	Low to high. Low where clay material overlies aquifer. High where there is no clay.
POROUS (INTERGRANULAR)	LOW-HIGH High to low moderate-high to NE low-high SE	Tertiary sandstone; clay, sand and gravel of non marine origin (lacustrine alluvial-deposited). Minor limestone (marine origin). Variable thickness up to several hundred meters.	Low to high. Low where clay overlies aquifers. High where gravel aquifers come to the surface.
FRACTURED ROCK (on some horizons)	HIGH	Tertiary, quaternary and rift carbonates, sandstone, minor coal. Tertiary origin (Rv, Rr).	High—unless a layer of low permeability material overlies the aquifer.
FRACTURED ROCK	Moderate-HIGH Weak to moderate and SE, high in NE	Permian sandstones, shales and sandstone (often pebbly), minor limestone, conglomerate and lites. Mostly marine origin (P).	High—unless a layer of low permeability material overlies the aquifer.
FRACTURED ROCK	HIGH	Oreduvian to Devonian subordinate units of sandstone and shale. Carboniferous sandstone and shales. Permian sandstones, clats, quartzite and dolomite. Neoproterozoic sandstone.	Very high—unless a layer of low permeability material overlies the aquifer.
FRACTURED ROCK	HIGH	Tertiary basalt.	High Very occasionally deep clay seals may offer some protection and lower vulnerability
FRACTURED ROCK	Moderate	Jurassic dolomite Triassic basalt – St Marys. Tertiary basalt – Scottsdale, Ringomata, Tamar and Brown Creek.	Moderate Can be high if fractured zones are not overlain by low permeability material.
FRACTURED ROCK	LOW-Moderate	Devonian granite rocks. Cambrian mafic ultrabasic complexes (gabbro, diorite, gneiss, etc.). Precambrian granites.	Low to moderate. Can be high if highly fractured zones are covered by clay.

SALINITY CONTOURS

