



EP
WATER ALLOCATION PLAN
REVISION

Groundwater for stock and domestic use



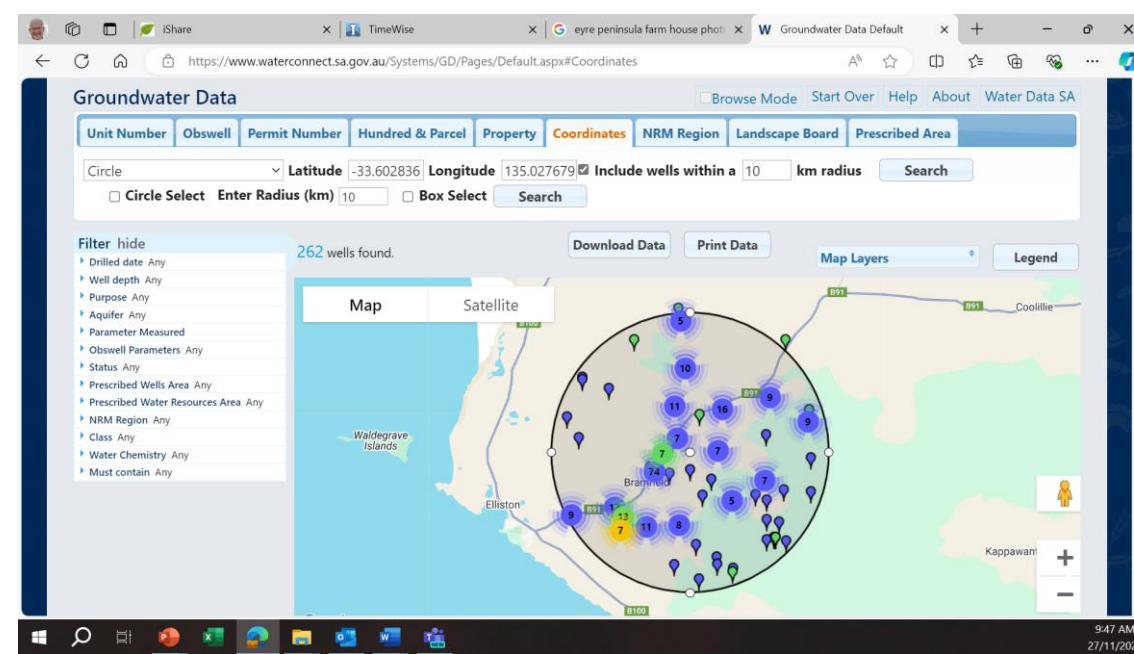
The 2016 WAP estimated groundwater demand for livestock by:

- Using PIRSA spatial data about numbers of different types of livestock to assign stock numbers/types to each groundwater recharge zone
- Converting different types of livestock to Dry Sheep Equivalents (a DSE is the feed needed by a 50kg Merino wether in fat score 2)
- Adopting a 7.14 Litres/DSE/day figure for sheep water use and associated losses, based on advice from PIRSA
- Calculating livestock water demand for recharge zones, from livestock location, numbers, types, equivalent DSEs and water use per DSE.



The 2016 WAP estimated domestic groundwater demand by:

- Using the SA Geodatabase to map 'domestic wells' by recharge zone
- Assuming that wells were in the Quaternary Limestone aquifer, if no aquifer information was provided in the database
- Adopting a conservative estimate of 280 kL/year per domestic well, to allow for uncertainty.



The revised 2026 Water Allocation Plan could re-estimate groundwater demand for stock and domestic by:

- Updating livestock numbers and types in the different recharge zones
- Revising daily water use requirement per DSE if appropriate
- Recalculating stock water demand for some/all recharge zones
- Gathering any data that would inform an update of the likely domestic groundwater use per rural household in these areas of EP.

However, in several recharge zones, stock and domestic is a small proportion (< 6%) of the total available for consumptive demand, so it may not be warranted to redo these calculations, given the small proportion and possibly limited changes in stock numbers since the last WAP?