



CENTRAL PLAINS WATER

Stage 2 Stored Water Summary

Version 1 – 13 July 2018

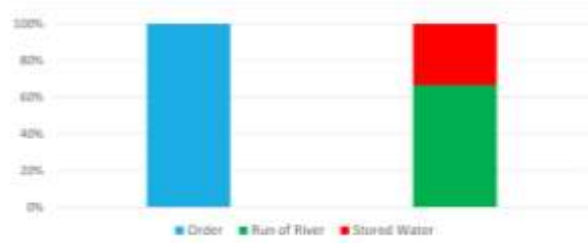
Water Sources and Restriction Types



Water Sources – No Restriction



Water Sources – Partial Restriction



Water Sources – Full Restriction



Restriction Types

No Restriction

- All scheme demand for the day can be met from ROR water

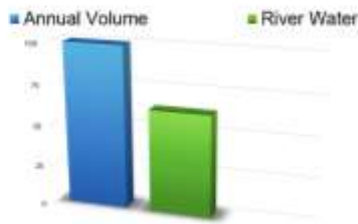
Partial Restriction

- Not enough river water available to meet total scheme demand
- Available water is rationed equitably across all orders in the system for the day
- No order = no water
- The System then “tops up” individual orders with Stored Water (if stored water has been ordered).

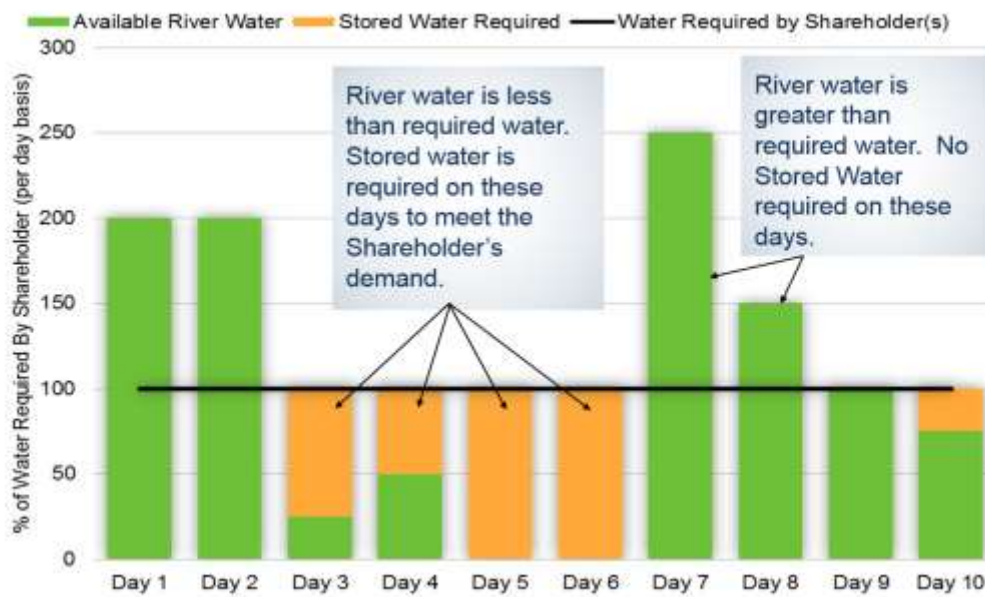
Full Restriction

- No river water available under CPWL take consents
- The System then “tops up” individual orders with Stored Water (if stored water has been ordered).

Reliability – Run of River Only



Reliability – Stored Water



Stored Water – Types of Stored Water



How Much Stored Water?

- Modelling shows an average of 1,560 m³ per hectare per year.
- Note that this is modelling. No guarantees. It is weather dependent and demand dependent.
- Stage 1 modelling has been accurate, so we do have a level of confidence in the numbers.
- 1 in 10 year event modelling shows 2,270m³/Ha. to 2,350m³/Ha. required.
- Worst events would require more than 3,000 m³/Ha.

How Much CTOP Do I Contract?

- Assess what level of reliability you require (high/medium/low/none).
- CTOP = one third of the total volume required per hectare.
- If you want to contract to 2400m³/ha to cover yourself for the 1 in 10 year event you would contract to 800 m³/ha CTOP.
- CTOP volume can only be increased, it cannot be decreased.
- CTOP water is guaranteed by Trustpower, additional water is not guaranteed and is subject to confirmation by Trustpower.

