

Maintaining chlorine residual levels - TasWater Scamander Network

(reference site only)



TRILITY
A member of BEWG

The Hydra-Mix submersible mixer is designed for use in water reservoirs to reduce the effects of chlorine stratification and maintain a constant chlorine residual



TRILITY was engaged by TasWater to provide a solution to assist with the stabilisation of chlorine residuals across their network, regardless of flow



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Successful mixing of the Scamander reservoir resulting in the solution being installed in nine other locations across Tasmania

TRILITY was engaged to provide a top up chlorination solution in the Scamander reticulation system. The solution had to incorporate a purpose built standalone building to house the chemical dosing system and monitoring equipment. It had to be placed at the town storage tank with minimal impact.

TRILITY's relocatable pre manufactured dosing system provided;

- "Duty standby" sodium hypochlorite dosing system
- Online free chlorine analyser
- Control cabinet and alarm outputs for remote communications

Additionally, a Hydra-Mix, in tank mixing and monitoring device was installed. The Hydra-Mix monitors and continually maintains the chlorine residual within the reservoir at all times. This means the chlorine residual will be stabilised across the network, no matter what volume or what time water is leaving the reservoir.

Due to the success of Hydra-Mix in Scamander, this solution has now been supplied throughout the TasWater network as part of TasWater 24 glasses (Regional Towns Water Supply Program).



Who

TasWater commenced operations on 1 July, 2013 and was formed through the amalgamation of the three Tasmanian water and sewerage corporations: Ben Lomond Water, Cradle Mountain Water, Southern Water, and their shared services firm; Onstream.

TasWater's vision is to be a trusted and respected provider of essential services that is making a positive difference to Tasmania.

What

Hydra-Mix and modular sodium hypochlorite dosing solution for re chlorination.

Where

Scamander

Why

Variable demands, turnover and low flows made it difficult to maintain a steady chlorine residual in the Scamander reservoir. This was especially evident in the middle of the night when low flows were present.

To ensure safe, disinfected drinking water throughout the network, TRILITY was engaged to provide a top up chlorination solution in the Scamander reticulation system.

Snapshot

Client	TasWater
Facilities	Sodium hypochlorite modular dosing solution, mixing and monitoring system
Technology	Hydra-Mix
Capacity	Circulation and dosing of reservoirs from 200kL to 1ML

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