

Brief: Toowoomba City Council Reservoir and Water Quality Management

Client: Toowoomba City Council

Storages: Cooby and Perseverance Dams

Location: SE Queensland

WEARS' design and construct contract with Toowoomba City Council involved extensive analysis of historical data and computer modelling to produce the desired effect of improved raw water quality. By improving raw water quality the cost benefit is realised at the treatment plant and the dramatic improvement to the reservoir ecology which reduces the public risk.



The project goal was to both thermally and chemically destratify the reservoir, thereby eliminating autumn turnover, creating a uniform oxygen profile, establishing thermal uniformity, reducing surface heating, minimizing Cyanobacterial (BGA) Blooms, restoring the degraded condition of the reservoir and increasing fish habitat. All these goals have been achieved.

The reservoirs – Cooby and Perseverance are both about >24,000ML and in the case of Perseverance 45m deep.