DRAPPER ENVIRONMENTAL CONSULTANTS

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CASE STUDY

# Lake Water Quality Management



## Challenge

Urban lakes are typically unpopular with Councils due to poor water quality and aquatic weed growth. Recent designs incorporating best practice including aeration, recirculation and floating wetlands needed verification.

## Approach

Develop multiple management plans (Vegetation, Fish/shark, Weed, Stormwater, Flood, Riparian Zone, Erosion Control). Monitor and report on water quality over a 2 years duration. Perform a Bathymetric survey of lake bed. Conduct an aerial drone survey of Riparian erosion.

## Outcome

Councils have accepted the Lake Assets. Water quality is good, ecosystem health is acceptable.

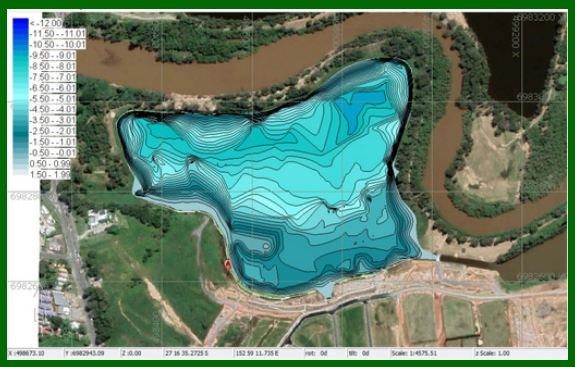
## RECENT PROJECTS

### LAWNTON LAKES, USHER CONSTRUCTIONS

Former sand & gravel pits were transformed into urban lakes to provide cooling and aesthetic outcomes to a new residential estate.

### BRIBIE LAKES, GEMLIFE

New lakes were constructed in acid-sulfate soils to provide flood immunity and aesthetic improvement for new residential estate and retirement communities.







# EXPERIENCE

Drapper Environmental Consultants are specialists in the sampling, monitoring and water quality management of urban lakes. These provide multiple benefits including water quality improvement, ecological habitat and cooling, but require detailed understanding and experience to maximise performance, minimise footprint and optimise community outcomes. We are leaders in this area, Australia-wide and internationally.
We have monitored the performance of Floating Wetlands for stormwater and lake water quality improvement, and have a decade of practical experience guiding optimised designs.

## Drone Asset Inspection

Our fleet of underwater and aerial drones make inspections of assets easy and safe. From evaluation of sacrificial anodes on ships, to anchor cables on floating wetlands, and bridge crossings, we can quickly, simply and safely inform asset owners of condition and maintenance requirements

## 1 About our company.

Think of us as your support team for everything water, stormwater, wastewater and environmental management.

## 2 Our Mission

We believe innovation is driven by continual learning and best practice results in better outcomes for our clients.

DRAPPER ENVIRONMENTAL CONSULTANTS

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