

# FRESHWATER LAKE FUTURE OPTIONS CONSULTATION

Freshwater Lake, also known as the Delfin Island duck ponds, is much-loved by our community. We are planning for the future of Freshwater Lake and we have developed options for community consideration and feedback.

**Look at the options and complete our survey by 5.00pm, Monday 22 August 2022.**

All options maintain the lake in its existing form and offer different approaches to improve lake water quality as well as ongoing management.

Community sentiment gathered in the stage one consultation told us there are four key actions our community want for Freshwater Lake, these are:

- Plan for the future
- Improve water quality
- Enhance biodiversity
- Activate the place

We have developed principles and future options that address the first three actions; the fourth action “activate the place” can follow once we establish the best option for managing the lake.

## Principles for Freshwater Lake

We have identified seven guiding principles for Freshwater Lake, which will apply across the various options being considered.

1. 'Reset' lake water quality
2. Remove carp and enhance biodiversity
3. Remove sludge
4. Secure and maintain water supply
5. Reduce water losses
6. Improve water circulation and increase lake water turn over
7. Develop an effective and sustainable water quality treatment process



## Future options for Freshwater Lake

### Option 1: Existing system

Maintain the lake in its current form and continue with existing maintenance and management practices.

### Option 2A: Off-line treatment

Maintain the lake in its current form with structural and management improvements to permanently enhance lake performance and quality, operations, and management.

This option involves off-line water treatment where water is circulated out of the lake into a bioretention system and treated using a filter media, plants, and other biological processes external to the lake water body and then the water is recirculated back into the lake.

Possible off-line methods include a biofiltration system (Ocean Protect Filterra system) or connection to the wetlands at West Lakes Golf Club and Cooke Reserve, Royal Park.

### Option 2B: In-line treatment

Maintain the lake in its current form with structural and management improvements to permanently enhance lake performance and quality, operations, and management.

This option involves in-line water treatment where water is treated in the lake using plants and other biological processes in a wetland/reedbed system within the lake.

Possible in-line methods include floating wetlands and reedbeds in Freshwater Lake.

NOTE: Given the preliminary nature of the assessment undertaken to date, the options presented are subject to further feasibility, site investigations and detailed design.

## How do the options compare?

Refer to the Options Comparison Tables attached to examine the similarities and differences between options.

## Further information

- Read the Fact Sheet and the Options Comparison Tables.
- Refer to background documents available at:
  - Your Say Charles Sturt [yoursaycharlessturt.com.au/freshwater-lake](http://yoursaycharlessturt.com.au/freshwater-lake)
  - Ngutungka West Lakes, 9 Charles Street, West Lakes
  - Front Counter, City of Charles Sturt Civic Centre, 72 Woodville Road, Woodville.
- Attend our community drop-in information event at Ngutungka West Lakes, 9 Charles Street, West Lakes on Saturday 13 August 2022. Drop-in and talk with our team anytime between:
  - 10.30am - 12pm
  - 1.00pm - 2.30pm.



Complete our survey by 5.00pm, Monday 22 August 2022:

- *Online survey – visit [yoursaycharlessturt.com.au/freshwater-lake](http://yoursaycharlessturt.com.au/freshwater-lake)*
- OR
- *Hard copy survey – available from Ngutungka West Lakes and Civic Centre.*

