
**LAKE WYANGAN & CATCHMENT MANAGEMENT COMMITTEE
TO BE HELD IN COUNCIL CHAMBERS ON
TUESDAY, 5 OCTOBER 2021 AT 5:00 PM**

- 1 Apologies
- 2 Confirmation of Minutes
- 3 Business Arising
- 4 Declarations of Interest
- 5 Items of Business
- CL01 p7 Concept Plan Update
- CL02 p8 Lake Wyangan & Catchment Management Project Officers Report
- 6 p22 Outstanding Action Report
- 7 General Business
- 8 Next Meeting

DISTRIBUTION LIST

Councillor John Dal Broi (Chair), Councillor Doug Curran, Councillor Anne Napoli, Councillor Brian Simpson, Paul Eldridge (Community Representative), Karen Hutchinson (Murrumbidgee Irrigation), Anthony Kidman (Community Representative), John McFadzean (Community Representative), Mat Ryan (Aquna Sustainable Murray Cod), Jade Salvestro (Alternate - Community Representative), Vickie Simpson (Griffith Local Aboriginal Land Council), Mark Vitucci (Community Representative), Kelvin Williams (Community Representative), Stephen Young (Griffith Local Aboriginal Land Council), Thomas Mackerras (Community Representative), Frank Battistel (Community Representative), Michele Groat (Commonwealth Water Office (Non-Voting Member))

General Manager, Brett Stonestreet, Director Sustainable Development, Phil Harding; Director Utilities, Graham Gordon; Principal Planner Urban Design & Strategic Planning, Peter Badenhorst; Lake Wyangan Project Officer, Vacant; Principal Officer – Environment, David Kellett and Minute Secretary, Brittany Everett

Quorum = 3

If you are unable to attend this meeting please notify the Minute Secretary prior to commencement of the meeting by email or by telephoning Council on 69628100.

**LAKE WYANGAN & CATCHMENT MANAGEMENT COMMITTEE
HELD IN COUNCIL CHAMBERS ON
TUESDAY, 3 AUGUST 2021 COMMENCING AT 5:00 PM**

PRESENT

Councillor John Dal Broi (Chair), Councillor Doug Curran, Councillor Anne Napoli, Councillor Brian Simpson, Paul Eldridge (Community Representative), Anthony Kidman (Community Representative - Zoom), John McFadzean (Community Representative), Mat Ryan (Aquna Sustainable Murray Cod - Zoom), Kelvin Williams (Community Representative), Frank Battistel (Community Representative), Michele Groat (Commonwealth Water Office – Zoom) (Non-Voting Member), Tom Armstrong (Armstrong Construction - Presenter) and Braeden Lampard (OzFish – Presenter - Zoom)

Quorum = 3

STAFF

General Manager, Brett Stonestreet, Director Sustainable Development, Phil Harding, Lake Wyangan & Catchment Management Project Officer, Thomas Mackerras, Director Utilities, Graham Gordon, Principal Planner Urban Design & Strategic Planning, Peter Badenhorst, Principal Officer - Environment, David Kellett and Minute Taker, Leanne Austin

1 APOLOGIES

RECOMMENDED on the motion of Councillors Doug Curran and Anne Napoli that an apology be received from Mark Vitucci.

2 CONFIRMATION OF MINUTES

RECOMMENDED on the motion of Councillor Brian Simpson and Frank Battistel that the minutes of the previous meeting held on 1 June 2021, having first been circulated amongst all members, be confirmed.

3 BUSINESS ARISING

Councillor Simpson requested a typographical error on page 5 be corrected – ‘pan’ should be ‘plan’.

4 DECLARATIONS OF INTEREST

Pecuniary Interests

Members making a pecuniary interest declaration are required to leave the meeting during consideration of the matter and not return until the matter is resolved.

Mathew Ryan

CL02 OzFish Unlimited Restocking of Lake Wyangan

Reason - Discussion in the meeting in regard to stocking of Lake with Fish by Tom Armstrong and Oz Fish Representative. As Managing Director of Murray Cod Australia Mr Ryan will be selling the fish at commercial value to the restocking program so Mr Ryan abstained from voting on this issue.

Significant Non-Pecuniary Interests

There were no significant non-pecuniary interests declared.

Less Than Significant Non-Pecuniary Interests

Members making a less than significant non-pecuniary interest declaration may stay in the meeting and participate in the debate and vote on the matter.

Paul Eldridge

CL02 OzFish Unlimited Restocking of Lake Wyangan

Reason – Talking about carp removal, to do with restocking of native fish.

5 ITEMS OF BUSINESS

CL01 PROJECT OFFICER'S REPORT

Mr Mackerras presented the Project Officer's report.

- The Lake has been on red alert for an extended period. The outbreak has been persistent due to a number of reasons, most likely due to high Phosphorus levels. Floating wetlands would assist with this issue.
- Water levels – North Lake: 2,500 ML in by end of June. 233 ML Customer's allocation has gone in. MoU signed with customer covering use of this water. South Lake: 1,237 ML in. Predicted levels based on a 10 year average, including the Council allocation of 2000ml show the level to be at around 105.8.
- Rain fall event of 41 mm occurred late June. Water overflowed causing some issues and increased sediment particularly through the Boorga Road drain with increased nutrients and salinity recorded at the Zillotto Road drain. The West Road East Drain recorded decreased nutrients and salinity.
- AHIP Constraints Report has been completed by AECOM, providing mapping of culturally significant heritage areas of the Lake.
- Floating wetlands quotes have been received and are to be assessed.
- Phoslock – sediment samples taken from both North and South Lakes have been sent to the Netherlands for analysis. A draft report has been received which suggests Phoslock will remove Phosphorus from the water column as well as sediments. The final report is to be prepared.

An update on Campbell's Wetland was provided by David Kellett.

- A grant of \$10,000 was received with Council contributing \$2,000 to the rehabilitation project. 3 hectares have been slashed along the walking track and weeds sprayed.
- The Cultural Heritage Survey has been completed with 1 artefact found on the eastern side of the walking track. GLALC have recommended vehicle gates be installed and all vehicle entrances padlocked with Cultural Area of Significance signs to be installed at all entry points. Gates are to be padlocked to ensure vehicles cannot access culturally significant areas of the Lake.
- Marian Catholic College students, Murrumbidgee Field Naturalists, Landcare planted 200 trees around the outside of the carpark and walking track down to the boardwalk.

Owen Toyota supported this event by providing refreshments. Direct seeding to be undertaken later in August / September.

- 300 tonnes of gravel is ready to spread over the walking track - two metres width and compacted to 10mm.
- Funding for the new boardwalk construction has been applied for. Cost of the project is approximately \$358,000 using recycled plastic which will have minimal maintenance requirements.
- \$50,000 applied for through Murrumbidgee Field Naturalists. Gravel provided by Council – now have \$50,000 to spend – will look at signage, change of name to be approved then put up new signs.
- Walkways and the boardwalk will be accessible for people in wheelchairs.
- Still have 1,100 plants to be planted. The northwest and northeast drains may be good candidates.

Councillor Simpson moved a **MOTION** that in future Council plant koala habitat trees.

Mr Harding advised that further investigation and management plans are required to be prepared.

RECOMMENDED on the motion of Councillor Simpson and Councillor Curran that where possible and pending further investigation, in relation to future tree plantings, Council use species that are koala friendly habitat trees.

Mr Mackerras continued his Project Officer's update.

- Data has been reviewed and Council's current systems for recording and sampling techniques require to be considered moving forward.
- Negotiations are continuing to rectify the issues with the in-lake monitoring buoys. Council will investigate other methods to gain better access.
- Algal warning signs have been installed at the Causeway, Boat Club, Sailing Club and Recreation Area.
- Carp removal is continuing. Site measurements have been completed for exclusion gates.
- Freshwater mussel samples have been collected as part of a two year program through University Technology Sydney.
- Catchment monitoring is currently under review as the previous contract has expired.
- Council is waiting on approval of EarthTec Algaecide for use in recreational water. It may be possible to conduct small scale trials.

CL02 OZFISH UNLIMITED RESTOCKING OF LAKE WYANGAN

Tom Armstrong addressed the Committee in relation to a proposal to replenish Murray Cod back into the Lake, to increase visitation and angling activities. Mr Armstrong has approached local businesses and raised \$10,000 to go towards restocking the lake with decent sized Murray Cod. Mr Armstrong advised Mat Ryan has offered to provide Murray Cod for restocking purposes.

Braeden Lampard (OzFish Unlimited) provided an overview of a partnership proposal to restock Lake Wyangan. OzFish aim to restore and protect fish habitats. Common Carp are an issue especially if there are no other fish to compete with.

Native fish species at the Lake need to be restocked and the habitat enhanced. It is proposed community events are to be held to remove pest species such as Catch a Carp days.

The restocking project will increase recreational fishing and tourism to Lake Wyangan and also bring economic benefits to the City as well as creating opportunities for young families and community members to enjoy the Lake.

OzFish will assist with funding applications and administration relating to restocking of the Lake. Grant funding is to be applied for to help fund a Catch a Carp day event. Funding of \$2,700 is required with OzFish providing in-kind funding of \$2,300.

RECOMMENDED on the motion of Councillor Curran and Paul Eldridge that Council fund a Catch a Carp day in the amount of \$2,700 funded from sale of water from Lake Wyangan and match dollar for dollar the amount that raised to help restock the Lake with native fish.

Mr Ryan declared a pecuniary conflict of interest in this matter and did not take part in the debate or vote.

Paul Eldridge declared a non-pecuniary conflict of interest in this matter.

Braeden Lampard left the meeting at 6.20 pm.

CL03 LAKE WYANGAN MASTER PLAN UPDATE

Mr Harding provided an update on the Lake Wyangan Master Plan.

A proposal to have a detailed business case prepared and funded is being prepared. This will test the feasibility of the proposed actions. The concept plan was presented to stakeholders at a recent Water Forum and it was well received.

Mr Eldridge enquired if there are plans to take salt out of the reclaimed water through a desalination process after it has passed through the filtration plant? Mr Gordon responded that the reclamation plant is constructed to treat raw sewerage. It would not be possible to put raw water through the reclamation plant, as it would be detrimental to the plant (biological) elements however it may be possible to add on a desalination component.

Councillor Simpson enquired if North lake water is to be mixed into the South lake water to dilute the salt levels as the focus seems to be on productive outcome for irrigators.

Mr Gordon advised the reclamation water proposal would offset evaporation from the lake. Water will be going to farmers out of the South lake, North lake water will be going into the South lake.

6 OUTSTANDING ACTION REPORT

Mr Harding advised the detailed business case will cover off a lot of the outstanding actions.

RECOMMENDED on the motion of Councillors Simpson and Curran that the Action Report be noted.

RECOMMENDED on the motion of Kel Williams and Councillor Simpson that the Committee go into Closed session to discuss the supplementary report.

7 MATTERS TO BE DEALT WITH BY CLOSED COMMITTEE

CL04 SUPPLEMENTARY REPORT TO PROJECT OFFICER'S REPORT

Councillor Simpson enquired why cages over wetlands were required. Mr Harding advised the detailed business plan will check the feasibility of the various options. Mr Kellett advised cages could remain permanently and it is recommended that they are used for the first twelve months particularly if Ibis are present.

RECOMMENDED on the motion of Kel Williams and Frank Battistel that:

- (a) The Committee endorse to not proceed with the tender to construct sediment ponds and wetlands at North Lake Wyangan.
- (b) Upon endorsement of the detailed Business Case, Council seek tenders for the supply and installation of floating wetlands in Lake Wyangan.
- (c) Upon review of the water sampling and monitoring program, the Committee endorse Council seeking tenders for data collection systems for both in-lake and on-shore locations.
- (d) The Committee endorse allocating \$10,000 annually in support of removing Carp from Lake Wyangan for the next two years.

8 GENERAL BUSINESS

The Mayor advised the Project Officer's contract will soon expire and Mr Mackerras has decided not to re-apply. The Mayor, on behalf of the Committee, wished to thank Mr Mackerras for his contribution to the Lake Wyangan project.

Councillor Simpson suggested that council investigate the purchase of new buoys for the Lake. Mr Harding advised this is being investigated.

7 NEXT MEETING

The next meeting of the Lake Wyangan & Catchment Management Committee is to be held on Tuesday, 5 October 2021 at 5:30 pm.

There being no further business the meeting terminated at 6:47 pm.

Confirmed:

CHAIRPERSON

CLAUSE **CL01**

TITLE **Concept Plan Update**

FROM **Phil Harding, Director Sustainable Development**

TRIM REF **21/104786**

SUMMARY

Director Sustainable Development to present Concept Plan update.

RECOMMENDATION

Committee note the information presented.

REPORT

Concept Plan update to be provided including:

- Staging
- Infrastructure
- Lake Ownership
- Discussion with Landholders
- Grant Funding
- Other.

LINK TO STRATEGIC PLAN

This item links to Council's Strategic Plan item 10.5 Plan and implement programs to improve sustainability.

ATTACHMENTS

Nil

CLAUSE CL02

TITLE Lake Wyangan & Catchment Management Project Officers Report

FROM David Kellett, Principal Officer - Environment

TRIM REF 21/104791

SUMMARY

Project Officer's report to be provided by David Kellett.

RECOMMENDATION

Committee note the information provided.

REPORT

Presentation attached.

LINK TO STRATEGIC PLAN

This item links to Council's Strategic Plan item 10.5 Plan and implement programs to improve sustainability.

ATTACHMENTS

(a) Project Officer's Report [↓](#)

9



Current lake level: 106.15

LAKE WYANGAN & CATCHMENT MANAGEMENT COMMITTEE MEETING OCTOBER 2021

Water Sampling Review
BGA
Ultrasound BGA units

Salinity
Lake Level
Updates on: Phoslock, Chemplas, OzFish,
Fish Hotels, Carp control, data buoys.

Water Sampling Review

North Lake Water Sampling

Reviewed water sampling schedule (Griffith University to produce final)

Replacement water data buoy

Drain data captured every two months and sent electronically to Ventia for input to model

South Lake Additional Water Sampling (baseline data before RW)

Create water sampling schedule

Created weekly/monthly/yearly Water Sampling Templates

Investigated Ultrasound BGA Management Units

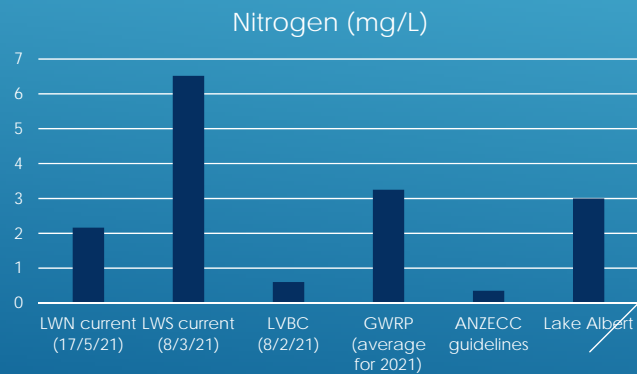
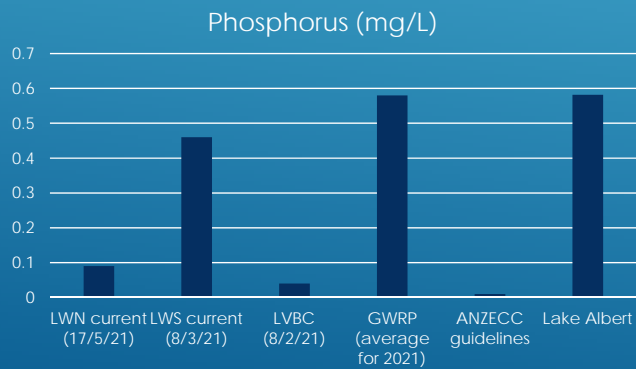
CURRENT BGA STATUS OF LAKE WYANGAN

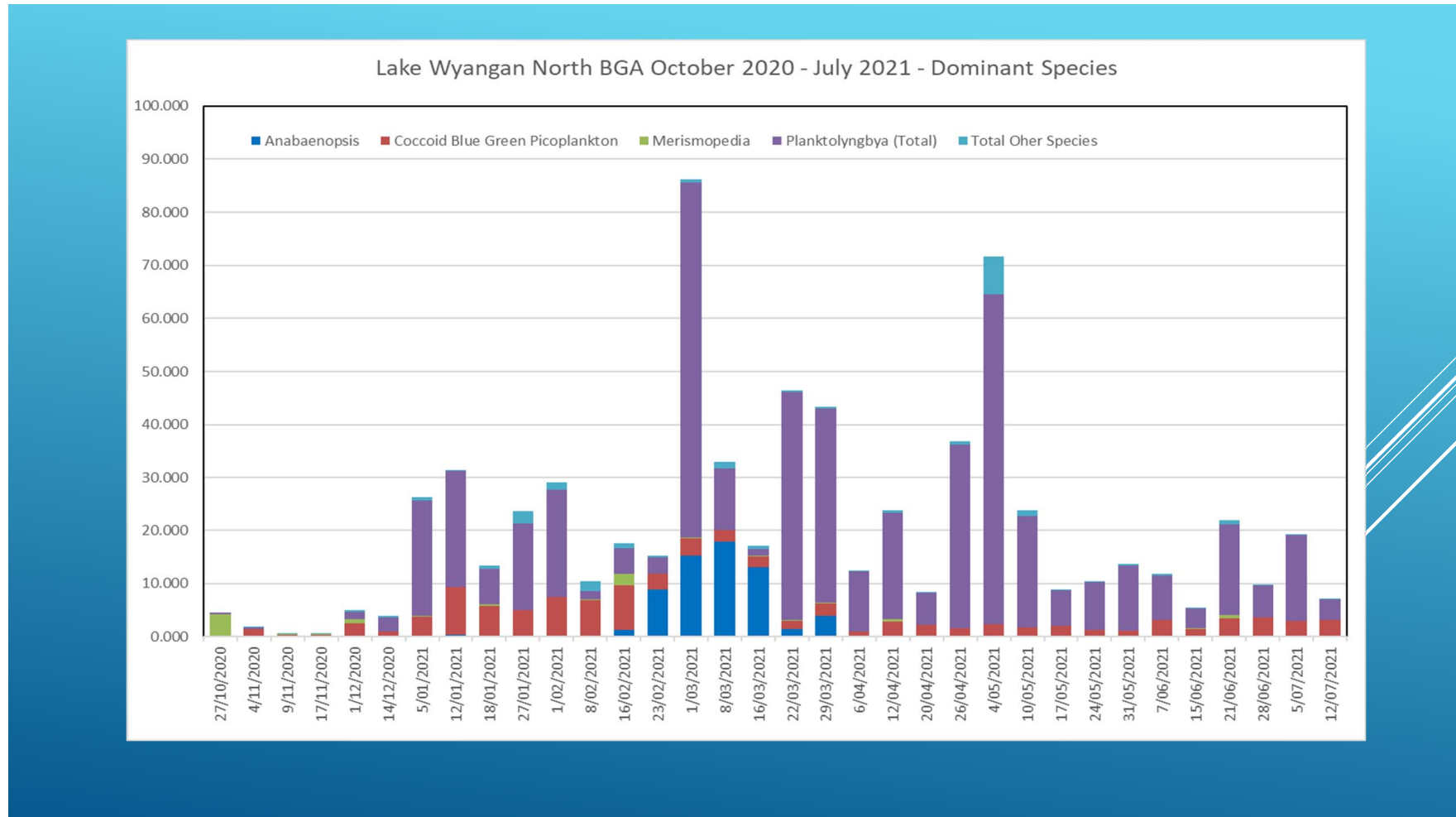
Lake Wyangan North **RED**: BGA Level 24th September **10.110**

Lake Wyangan South **Green**

Lake Albert **Green**

Nutrient level comparisons, LWN lower than LWS & Lake Albert

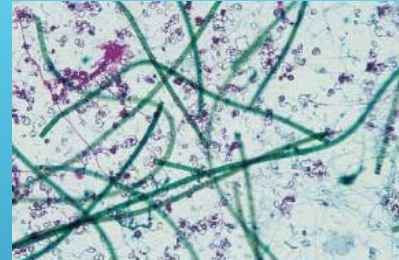




DOMINANT SPECIES OF ALGAE

▶ Lake Wyangan

- ▶ Anabaenopsis
- ▶ Coccoid Green Picoplankton
- ▶ Merismopedia
- ▶ Planktolyngbya



▶ Lake Albert

- ▶ Aphanocapsa
- ▶ Aphanothece
- ▶ Chroococcus
- ▶ Dolichospermum
- ▶ Microcystis
- ▶ Pseudanbaena

Commonwealth Environment Water Office:
Once a blue-green algal bloom form, very little can be done to stop it. The scale of the current events means that the provision of additional flows would be unlikely to significantly affect the blooms.

Nil similarities of Dominant Algae Species

Ultrasound BGA Management Units

Both Murrumbidgee Irrigation and Wagga Wagga City Council currently have these units in use

Both have positive outcomes reducing Toxic BGA



The ultrasound units effectively control blue green algae throughout the column of water - that is, not just at the surface of the water. Algae can grow to a depth of over seven metres!

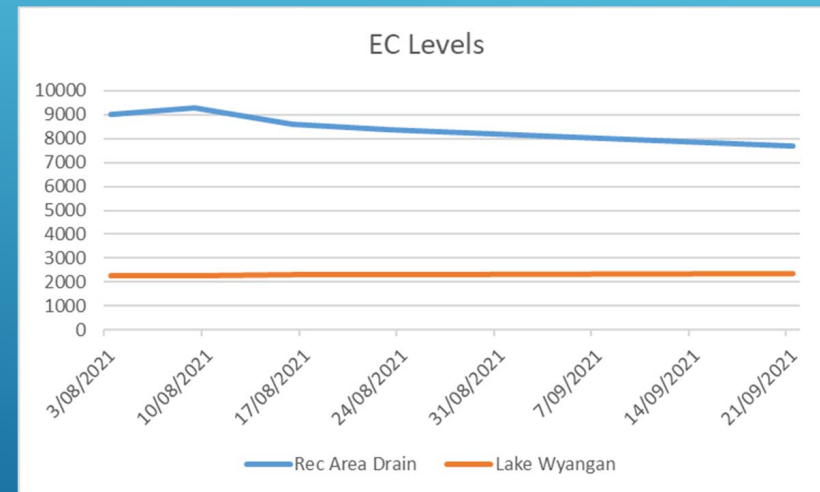
LAKE ALBERT – WAGGA WAGGA

Lake Albert has five pontoons and 9 EnviroSonic units
Hired before outright purchase



SALINITY

Salinity slowly on the rise within the lake due to high salt entering through the north west drain along with high nutrient levels.



NORTH LAKE WATER LEVEL

Very little difference due to low evaporation rates, rain events and tile drain flows

Nth Lake		Sth Lake				Approx. North Volume Change (ML)	
Date	Level	Date	Level	Date	Level		
06/08/21	106.21	06/08/21	106.01	06/08/21	0	0	
13/08/21	106.20	13/08/21	106.00	13/08/21	-1	-20.209	
20/08/21	106.19	20/08/21	106.00	20/08/21	-1	-20.209	
03/09/21	106.19	03/09/21	105.97	03/09/21	0	0	
10/09/21	106.19	10/09/21	106.00	10/09/21	0	0	
17/09/21	106.19	17/09/21	105.99	17/09/21	0	0	
23/09/21	106.15	23/09/21	105.99	23/09/21	-4	-80.836	



June 2021



21 September 2021

Updates

Phoslock – Nil updates apart from having several zoom meetings

Chemplas –

Earth Science Laboratories Global have now applied to have the use section in the Australian Pesticides & Veterinary Medicines Authority (APVMA) approval for EarthTec to change from 'managed municipal and local authority water supply reservoirs' to 'managed contained water body'. This will allow broader use and encompass the recreational water status of Lake Wyangan. Approval Possibly November 2021

Carp Control –

Keith Bell was on the lake early September for the day and barely caught a fish, decided that it was not viable to stay.

He will be back again before Christmas to see what Carp numbers are like.

Successful Application Grant from DPI for Revegetation around lakes edge as well as 12 x Fish Hotels

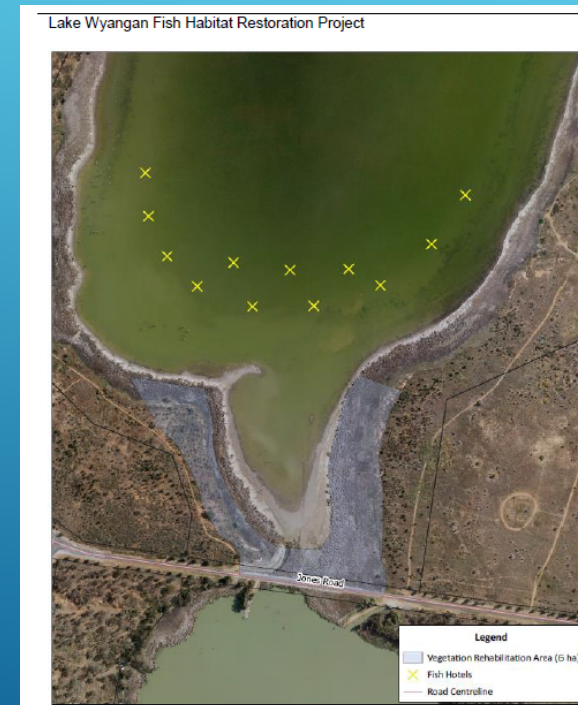
Work in conjunction with OzFish and local community groups

Men's Shed

Murrumbidgee Field Naturalists

Local Fishing Groups

Schools



OzFish, DPI & GCC

Matthew McLellan – DPI The initial stage of the plan is to release fish into the lake but other goals include carp removal projects and habitat improvement.

As part of this longer-term plan we are looking at the possibility to exclude carp via screening the inlet. This would hopefully involve DPI, Griffith City Council and OzFish.

Matthew will also approach Murrumbidgee Irrigation about coming on-board as a project partner.

Matthew will be looking at holding a half day workshop/meeting in Griffith to look at infrastructure and have a fish screening team from the department present.

Water Data Buoys

Both buoys were sent to Ventia (Victoria) on the 24th of September

One serviceable unit to be replaced back into lake



TITLE Outstanding Action Report

TRIM REF 21/104316

RECOMMENDATION

The report be noted.

ATTACHMENTS

(a) Outstanding Action Report [↓](#)

23

Lake Wyangan & Catchment Management Committee Action Report				
5 October 2021				
Date of Meeting	Agenda Item	Action	Action Officer	Comment
3 August 2021	CL04 Supplementary Report to Project Officer's Report	<p>RECOMMENDED on the motion of Kel Williams and Frank Battistel that:</p> <p>(a) The Committee endorse to not proceed with the tender to construct sediment ponds and wetlands at North Lake Wyangan.</p> <p>(b) Upon endorsement of the detailed Business Case, Council seek tenders for the supply and installation of floating wetlands in Lake Wyangan.</p> <p>(c) Upon review of the water sampling and monitoring program, the Committee endorse Council seeking tenders for data collection systems for both in-lake and on-shore locations.</p> <p>(d) The Committee endorse allocating \$10,000 annually in support of removing Carp from Lake Wyangan for the next two years.</p>	Tom Mackerras/ Phil Harding	29/09/2021 (a): Tenderer advise.
3 August 2021	CL02 Ozfish Unlimited Restocking Of Lake Wyangan	<p>RECOMMENDED on the motion of Councillor Curran and Paul Eldridge that Council fund a Catch a Carp day in the amount of \$2,700 funded from sale of water from Lake Wyangan and match dollar for dollar the amount that raised to help restock the Lake with native fish.</p>	Phil Harding/ Tom Mackerras	29/09/2021: Discussed with Oz Fish.
3 August 2021	CL01 Project Officer's Report	<p>RECOMMENDED on the motion of Councillor Simpson and Councillor Curran that where possible and pending further investigation, in relation to future tree plantings, Council use species that are koala friendly habitat trees.</p>	David Kellett/ Tom Mackerras	29/09/2021: Investigation underway.

6 April 2021	7.1 Storm Water Sediment Control	RECOMMENDED on the motion of Kelvin Williams and Frank Battistel that Council write to the local landholders and request their assistance in retaining storm water to aid Lake Wyangan.	Tom Mackerras/ Phil Harding	23/07/2021: Letters written & on-site meetings held. 29/09/2021: Ongoing discussion.
4 February 2020	Rural Catchment Management Issues and Discussion of need for Rural Development Water Quality Guidelines	RECOMMENDED on the motion of Councillor Brian Simpson and Councillor Doug Curran that Mr Ryan will communicate with land owners in the Lake Wyangan catchment area in relation to water drainage and the General Manager will seek legal advice in relation to neighbouring shires retaining drainage water.	Phil Harding/ Peter Badenhorst/ Brett Stonestreet	11/02/20: Legal advice requested with associated discussions ongoing. 29/09/2021: Legal advice discussed at Committee Meeting.
6 April 2021	CL03 - Lake Wyangan Concept Design	RECOMMENDED on the motion of Councillor Brian Simpson and Anthony Kidman that the Committee support the concept design presented and requested further engineering and costing details be prepared. Further details and costings be presented in regard to the floating wetlands.	Tom Mackerras/ Phil Harding	23/07/2021: Council preparing a detailed Business Case Proposal to the National Water Grid.
2 February 2021	CL03 - Lake Wyangan Master Plan - Options	RECOMMENDED on the motion of Councillor Brian Simpson and Frank Battistel that further investigation be conducted on the Masterplan Option D-1 of the report and then present to the Committee prior to a public consultation period.	Tom Mackerras/ Phil Harding	30/03/2021: Revised concept to be presented to the Committee 6 th April. 23/07/2021: Investigated. Not proceeding with Option D-1.
2 July 2019	Draft Master Plan	Mr Ryan advised that community consultation is required in relation to the draft masterplan as presented by Mr Beer at the last meeting.	Phil Harding/ Tom Mackerras	6/11/2019: Ongoing. 23/07/2021: Stage II recreation infrastructure to be included in Master Plan developed as a part of detailed Business Plan Proposal.
2 February 2021		RECOMMENDED on the motion of Councillors Doug Curran and Brian Simpson that further research be	Tom Mackerras/ Phil Harding	30/03/2021: Product application approval is being sought by company through DPI (Fisheries).

		conducted on the product from Earthtech and presented to the Committee.		23/07/2021: Awaiting on approval from APVMA.
6 October 2020	CL04 Lake Wyangan Fish Sampling - 24/25 August 2020	RECOMMENDED on the motion of Councillors Doug Curran and Councillor Brian Simpson that Council proceed in obtaining costings and engage a Carp Fisherman. Mr Kerezsy to return bi-monthly or at an agreed date over the warmer months to ascertain fish numbers prior to restocking early next year.	Phil Harding/ Tom Mackerras	25/11/2020: Enquires sent to potential Carp fisherman. Mr Kerezsy to complete another Fish Sample on 10 & 11 December 2020. 30/03/2021: European Carp culling carried out from 10 to 17 February 2021. 24 May 2021: Ongoing carp fishing occurring. > 3800kg of carp removed to date.
3 September 2019	Drainage Channel Redesign EOI	An Expression of Interest (EOI) has been developed and will go out to applicants to submit a concept design and including examples of previous work. From the submissions a fully costed tender for design and construct will be sought.	Phil Harding & Peter Badenhorst	6/11/2019: Four applicants are being asked to submit detailed design and construct tenders. 4/06/20: Tender awarded to Woodlots & Wetlands Pty Ltd. 30/03/2021: Tender on hold while AHIP sought. 23/07/2021: Cultural Heritage prevents these works proceeding.
2 July 2019	Detailed Design for Sediment Traps and Wetland	RECOMMENDED on the motion of Councillors Brian Simpson and Anne Napoli that Council allocate funds to prepare a detailed design for sediment traps and a wetland to address the algae and water quality issues in the lake.	Phil Harding/ Tom Mackerras	6/11/2019: As per Action 1: Four applicants are being asked to submit detailed design and construct tenders. 4/6/20: Tender awarded to Woodlots & Wetlands Pty Ltd. 30/03/2021: Project on hold while AHIP sought. 23/07/2021: Cultural Heritage prevents these works proceeding. 29/09/2021: Proposal to develop a detailed business case being prepared to

				obtain funds through the National Water Grid to write a detailed business plan.
2 July 2019	Waste and Stormwater Management for Development Approval	RECOMMENDED on the motion of Councillors Brian Simpson and Doug Curran that the Committee approve the draft terms of reference for Waste and Stormwater Management for Development Approval and an EOI process commence.	Phil Harding	6/11/2019: Expression of Interest in development to be advertised. 4/06/2020: Received 2 submissions, currently under consideration. 30/03/2021: Contract awarded to Civile Pty Ltd. 23/07/2021: Preliminary Draft report received from Civile. Final report will inform Development Control Plan.
3 September 2019	Biological Manipulation (Billabong Mussels)	RECOMMENDED on the motion of Councillor Doug Curran and Councillor Anne Napoli that subject to approval from Department of Agriculture – Fisheries, the introduction of Floodplain Mussels at Lake Wyangan be trialled to assist with improvement of water quality.	Phil Harding/ Paul Eldridge	6/11/2019: Negotiations are still in progress with Department of Agriculture – Fisheries. Dry conditions have made finding sources of freshwater mussels difficult to find. 24 May 2021: Mussels in Lake Wyangan are part of an ongoing project by UTS. Will keep GCC informed.
3 September 2019	Algae Update (BGA + Other Algae Species)	Mr Ryan is to provide an update at the next meeting regarding restocking of native fish and ongoing management for the lake.	Phil Harding	6/11/2019: Negotiations are still in progress with Department of Agriculture – Fisheries. 4/06/20: Restocking necessary as part of recovery plan following recent events. 30/03/2021: 5,000 Murray Cod added January 2021 and 5,000 Yellowbelly added February 2021. 23/07/2021: Further stocking to occur through OzFish Unlimited programme.
2 July 2019	Request for Assistance – Sail Club And Boat Club	Councillor Simpson enquired if approval/assistance has been provided to the Sailing Club for construction of a retaining wall. Mr Ryan advised a	Phil Harding	6/11/2019: Sailing and Boat Club in the process of collating paperwork and preparing to commence work.

		statement of public access has been received and Mr Harding will present this to Senior Management for discussion. Mr Ryan advised the Boat Club had put in a similar request for assistance. Mr Stonestreet advised that these issues will be discussed by Senior Management and presented to Council however the concerns are around the issue of community members having access to the facilities.		20/03/20: Retaining Wall works completed. Outstanding budget money still available. 24/5/2021: Sailing Club continuing to progress associated works. 23/07/2021: Sailing club have purchased additional materials & progressing the wall and other works around the clubhouse.
2 July 2019	Installation of Aeration Oxygenation and Bacterial Dosing System	RECOMMENDED on the motion of Councillor Brian Simpson and Paul Eldridge that Council investigate and install an aeration oxygenation and bacterial dosing system in a sample section of the lake providing the costing is between \$60,000 to \$80,000. The trial is to include at least one solar powered aerator.	Phil Harding/ Tom Mackerras	6/11/2019: Negotiations in progress. Difficulty is finding sufficient power source close to water. 4/06/2020: Further considered as part of sediment pond and wetlands design and construction. 23/07/2021: Not proceeding with this option at this time.
2 July 2019	Funding Opportunities - Environmental	Mr Ryan to discuss options for funding opportunities/creating environmental areas with Office Environment and Heritage.	Phil Harding/ Tom Mackerras	6/11/2019: Will update on November 12. 4/06/2020: Ongoing
2 July 2019	Water and Sewer Infrastructure	Mr Eldridge suggested Council consider opportunities presented by the proposed upgrade to infrastructure in relation to the Almond processing plant. This may be an opportunity for Council to investigate upgrading of water/sewer infrastructure for future requirements. Mr Ryan and/or Council management will meet with appropriate Council Project Managers to get an update.	Brett Stonestreet/ Phil Harding/ Tom Mackerras	6/11/2019: Department of Water and Sewer have advised that this was not possible under the given circumstances.

2 July 2019	Removal of Cumbungi	Mr Williams requested that the dry, dead Cumbungi be removed. Mr Ryan advised he would look into the management of this invasive native plant in this winter/spring and for the future.	Phil Harding/ Tom Mackerras	6/11/2019: On-going management issue. 23/07/2021: Part of a aquatic plants management programme to be developed.
7 May 2019	Weeds at Lake Wyangan	Mr Ryan advised weed control is to be undertaken at the Lake to maintain access at boat ramps. Mr Ryan is to enquire about the purchase of machinery to maintain the weeds with the option of hiring this out to other organisations.	Phil Harding/ Tom Mackerras	26/6/2019: Ongoing negotiations. 6/11/2019: Need to change "Weeds" to "Aquatic plants" to reflect that these water plants are native. 23/07/2021: Filled lake may make action unlikely in the short term.
6 Feb 2018	Weeds at Lake Wyangan	RECOMMENDED on the motion of Thomas Mackerras and Hayden Cudmore that Council make enquiries to engage a contractor to control the weeds at the Griffith Sailing Club and Boat Club areas at Lake Wyangan when and if required.	Phil Harding/ Tom Mackerras	1/5/2018: Mr Mackerras advised that removal of the pond weed (with a mechanical harvester) was conducted by the Griffith Boat Club and that 60 loads of the weed was extracted from Lake Wyangan. Ongoing maintenance will be required. 7/5/2019: Quotes for this year on for an annual program are being compiled. Weed control was not required in 2018/19, but ongoing commitment will be required when lake refills. 23/07/2021: Filled lake may make action unlikely in the short term. 23/07/2021: Weed management plan to be developed.
6 Feb 2018	MI & Council – Water Protocols	RECOMMENDED on the motion of Councillor Doug Curran and John McFadzean that a report be prepared by Council in conjunction with MI to the next meeting to be held 1 May 2018 as to the protocol in the use of water at the North Lake at Lake Wyangan.	Tom Mackerras/ Phil Harding	1/5/2018: Mr Gordon to liaise with MI to draft a document as a benchmark on the process of the use of water at Lake Wyangan. Who to contact for the refilling of water at the lake for recreational purposes and pumping access on allocation provision.

				<p>7/5/2019: This is still the focus of ongoing discussions with MI.</p> <p>6/11/2019: Draft MOU of water level maintenance with MI will be discussed.</p> <p>04/06/2020: Draft MOU with MI being finalised.</p> <p>23/07/2021: Master Plan will include protocols.</p>
2 May 2017	Overview of Lake Wyangan and Catchment Management Strategy Technical Report and Strategy Report	Mrs de Wit advised options are available to utilise satellite monitoring on the lake, aligning imagery and sampling times on the same day. There are opportunities to identify which parts of the lake are subject to algal blooms through satellite mapping. The Mayor requested the Committee be updated on progress in relation to these issues (monitoring options) at the Workshop.	Phil Harding/ Tom Mackerras	<p>Information about an enhanced monitoring program is to be discussed further at the 8 August 2017 meeting. The project is currently exploring all options of spectral observations including fixed and drone mounted cameras and satellite imagery.</p> <p>7/5/2019: Remote imagery options continue to be explored and trialled.</p> <p>04/06/2020: Discuss at next meeting.</p> <p>23/07/2021: In conjunction with Griffith University a new water quality sampling regime being developed.</p>