

# Lake Cargelligo Embankment Dam Upgrade



Fact Sheet - December 2022



## Project overview

WaterNSW is upgrading the three embankment dams (as shown on the map overleaf) of Lake Cargelligo to ensure they comply with modern engineering standards and that they continue to function effectively for the long-term. This includes reducing the risk of internal and external erosion of the embankment dams and overtopping associated with wave erosion of the embankment dams. We have appointed delivery partner Diona to complete the construction stage of the project.

Due to significant inflows from above average rainfall within the Lachlan River catchment, construction works have been delayed until 2023.

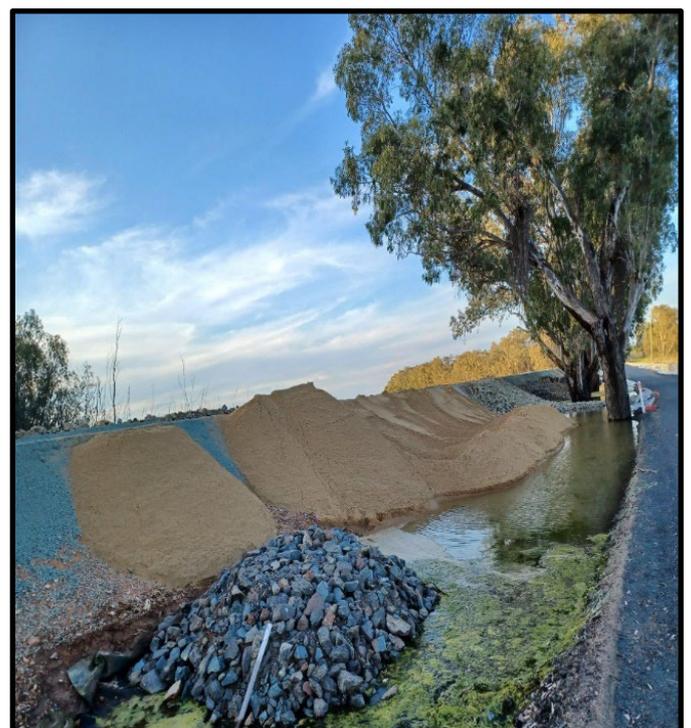
## Response to recent flooding events

In co-operation with the NSW State Emergency Services (SES) we are continuing to use drone technology to monitor the lake storage, which rose to a record high of almost 185% of capacity. We are continuing to update our flood modelling following the recent rainfall, with inflow to the storage receding and the storage projected to reach 100% by the end of December without significant additional inflows.

As a precautionary measure, the WaterNSW and Diona teams have increased the frequency of monitoring and will continue transporting additional stabilising material to key locations around the lake so the teams can react quickly and be prepared for additional large rain events. The Diona team are also working on reinforcing key areas of the lake's embankment including:

- providing additional stabilisation and raising embankment crests by up to 0.5 metres
- installing erosion protection using stabilising sand, rock and geofabric
- establishing material compounds.

We will continue working with NSW State Emergency Service (SES) to keep the community informed of the current situation and contingency planning, and the public should remain alert to communications from the SES regarding Lake Cargelligo. We will continue our work to provide additional stabilisation of the embankments over the coming weeks and into the new year.



*Additional stabilising work being completed along the embankment at Nilssons Lane.*

## Works program

To ensure the works can be completed safely, a 50% lake capacity is required during our period of works in 2023. Outside of our work program, the lake volume restrictions will be lifted.

Current – Q2 2023	Ongoing cultural heritage assessments.
Expected Q1/Q2 2023	Commence storage drawdown to 50%. Advanced notice will be provided to the community.
Expected Q1/Q2 2023	Remobilise construction teams, and machinery. Complete trial embankment works and establish temporary site compound.
Expected Q2 2023	Start of construction to upgrade embankments (program of works to be announced in Q1/Q2 2023). Construction restart pending lake levels and inflow levels.
End 2023	Removal of all temporary compounds and reinstatement of all impacted areas.

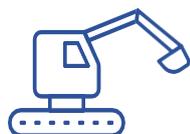
## Community involvement and project map

WaterNSW and Diona remain committed to working with local businesses and suppliers in the community. Please contact us using the information at the bottom of the page to register your interest.



## Contact us

For more information about the Lake Cargelligo Embankment Dam upgrade:



For construction related enquiries, please contact Diona's Community Engagement team by phone on **1300 131 338** or by email [community@diona.com.au](mailto:community@diona.com.au)



For general enquiries and to receive project updates email [Customer.Helpdesk@waternsw.com.au](mailto:Customer.Helpdesk@waternsw.com.au)



Call the WaterNSW Helpdesk on call **1300 662 077**



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