

# SA River Murray Flow Report



Report #18/2024

Issued 12.00pm 3 May 2024

This supersedes the previous Flow Report issued by the Department for Environment and Water (DEW) on 26 Apr 2024. The next Flow Report will be provided on Friday 10 May 2024.

## Flow outlook



The flow at the South Australian border is approximately 6 GL/day and will remain at around 6 GL/day over the coming week **depending on river operations**.

The current flow at the border comprises the full May Entitlement Flow (3 GL/day), water for the environment and interstate trade adjustments.

The flow over Lock 1 is approximately 3 GL/day and the flow over the coming week will remain at around 3 GL/day.

It is important to note that flow forecasts in this advice are based on the information available at the time of preparation. Advice may change as new gauging information becomes available or due to rainfall events or changed operations upstream.

## Water levels

Current water levels are updated daily and can be found on [WaterConnect](#).

## Upstream flows

More information on upstream conditions and forecasts can be found in the [Murray-Darling Basin Authority's Weekly Flow Report](#).

## Murray Mouth

Dredging operations at the Murray Mouth continue after resuming on 27 November 2023 after a break of just over a year due to high flows scouring sand out of the mouth. Dredging is undertaken to maintain connectivity (exchange of water) between the Coorong and the Southern Ocean. Dredging is currently being undertaken with a single large dredge which is operating 12 hours a day for 5 days a week.

Barrage releases, combined with dredging, help to maintain flow connectivity of the River Murray Channel to the Murray Mouth and assist in exporting salt from the river system.

Exclusion Zones established around the dredging operations are in place to ensure public safety. Refer to [Notice to Mariners No 61 of 2023](#).

## Barrage operations and water levels in the Lower Lakes

The water level in Lake Alexandrina is approximately 0.61 m AHD and Lake Albert is approximately 0.54 m AHD.

The Lower Lakes are being managed to target a daily average lake level between 0.6 m AHD to 0.7 m AHD during April 2024.

During adverse weather conditions, SA Water will operate the barrages to minimise the risk of seawater entering Lake Alexandrina, therefore minimising any negative salinity impacts from reverse flow events.

Gate openings at the barrages can now be viewed on [Water Data SA – Barrage dashboard](#).

Total daily flow releases from the barrages can also be found on [Water Data SA – Flows dashboard](#)

## Bathymetric surveys – Lock 3 and Lock 6 reaches

DEW is progressing investigations into weir pool raising and lowering to achieve environmental objectives in the lock 3 and 6 reaches and has engaged contractors to undertake bathymetric surveys of the region.

A bathymetric survey is a water-based study that uses sensor technology (sonar), attached to watercraft, to map the depths and shapes of underwater terrain.

The surveys are being undertaken until July 2024 and will include the main River Murray channel and connected anabranches and wetlands in the Lock 3 reach (from Lock 3 to Lock 4) and Lock 6 reach (from Lock 6 to Lock 7).

Survey data will be used to create updated bathymetric digital elevation models (DEM) that will improve the accuracy of hydrodynamic models of the locks' weir pools under both regulated and flood flow conditions, and assist in the detection of potential submerged navigational hazards (e.g. sandbars). The data will also enable the detection of any changes to the river that may have occurred as a result of the 2022-23 River Murray flood event.

If you have any questions, please contact: [DEW.SREProgram@sa.gov.au](mailto:DEW.SREProgram@sa.gov.au)

## Water quality

### Algal blooms within SA

A **Water Quality Alert for Lake Alexandrina** issued by SA Health remains current due to elevated levels of potentially harmful blue green algae present in the lake. This alert and other information can be found on the [SA Health website – Water Quality Alerts page](#).

Water samples taken at several locations in Lake Alexandrina have detected high levels of *Cylindrospermopsis*, a type of blue-green algae (cyanobacteria) which is potentially harmful to humans and animals.

The Water Quality Alert for Lake Alexandrina advises the public to avoid ingestion or contact with water in the lake, including the avoidance of recreational activities. The Water Quality Alert advises that water sampled from Lake Albert indicates some algae are present, however, this does not currently pose a health risk.

DEW and SA Water will continue to monitor the location and movement of the algae. Barrage operations are being modified to encourage the discharge of algae through the mouth and away from populated areas.

Some level of blue-green algae on a large open water body like the River Murray is normal for this time of year when weather conditions are favourable for growth. Blooms can be transient, and their location and severity can be affected by a range of factors including wind direction, air and water temperatures and degree of water movement. SA Health encourages people to avoid contact with obvious green discoloured water as it may have health impacts.

SA Health and DEW will continue to monitor the situation and provide further advice and information to the public as conditions evolve.

### Algal blooms upstream of SA

A number of current alerts for blue-green algae have been issued by upstream authorities for the River Murray upstream of the SA border and the Lower Darling River. Details of the current alert locations can be found on the [WaterNSW website – Algae Alerts page](#).

## River Murray River Vessel Waste Disposal Stations

The Lock 3 River Vessel Waste Disposal Station has been out of commission since January 2020 due to a significant infrastructure failure. The nearest alternative waste facility is located at Waikerie. Normal boat hard waste (domestic or galley waste) can still be deposited at the Lock 3 facility at the present time.

Goolwa RVWDS Portaloo unit is currently out of service. The closest Portaloo disposal facilities are available at no charge at Coorong Quays, Hindmarsh Island by contacting them on 8555 7300. The remainder of the station is operating as normal.

Updates will be provided as further information becomes available.

You can also report any River Vessel Waste Disposal Station issues on 1800 799 065.

If you have any questions, please contact the DEW Engagement Team on [DEW.WIOCommunications@sa.gov.au](mailto:DEW.WIOCommunications@sa.gov.au)

## Lower River Murray levees intermediate remediation funding

The Federal and State Governments have announced \$17.1 million in funding to undertake intermediate remediation works for government-owned levees in the Lower Murray Reclaimed Irrigation Area (LMRIA) that were damaged in the 2022-23 River Murray flood event.

The intermediate remediation works will bolster the stabilisation works, which began in March 2023 to enable dewatering of inundated agricultural areas and will support the protection of the region's economically significant agricultural land and floodplain infrastructure in the event of future high flows.

In addition to the \$17.1 million jointly-funded Disaster Recovery Funding Arrangement funding, the South Australian Government has allocated \$14.2 million in state funds for intermediate remediation works to privately-owned LMRIA levees.

Condition assessments of the levees will inform the development of a longer-term resilience strategy for government and privately-owned levees within the LMRIA. This strategy will also be underpinned by consultation and engagement with the region's relevant stakeholders.

The Department for Environment and Water will continue to work closely with the LMRIA landholders, irrigation trusts and community members in progressing the intermediate remediation works.

## Public access to Lower Murray Reclaimed Irrigation Area Levees

All government-owned levee banks along the Lower Murray from Mannum to Wellington continue to remain closed to public access until full condition assessments of the levees are undertaken and levees are deemed safe for public access. Recreational activities along the levee banks, such as walking, cycling and fishing are not allowed.

The government-owned levee banks are Cowirra, Neeta, Wall Flat, Pompoota, Mypolonga, Mobilong, Burdett, Long Flat, Monteith and Jervois.

Privately-owned levees along the Lower Murray are managed and maintained by private landowners and access to their levee banks is at the landholder's discretion. In addition, access to private levee banks where the department is undertaking reinforcement of levee stabilisation work is not permitted.

If you have any questions, please contact Lisa van der Linde, Communications and Engagement Officer on 0437 313 087 or [Lisa.vanderlinde@sa.gov.au](mailto:Lisa.vanderlinde@sa.gov.au)

## Environmental water delivery

SA is currently receiving approximately 1 GL/day of water for the environment from releases from Lake Victoria. This is expected to continue through April. This water is being provided by the Commonwealth Environmental Water Holder (CEWH) and will support the maintenance of water levels in the Lower Lakes and barrage outflows to the Coorong.

Planning for the delivery of water for the environment in 2024-25 is in progress. This includes consideration of operations of the Chowilla, Pike and Katarapko floodplain environmental regulators with associated raising of Locks 6, 5 and 4. The decision to proceed with these operations will depend on River Murray flows and environmental water availability through the latter half of 2024 and will be informed by the outcomes of environmental monitoring and consultation. Weir pool manipulation within normal operating ranges is under consideration and planning is also underway, in conjunction with the MDBA, NSW and Victoria, for the delivery of enhanced flows to South Australia during spring.

## Environmental news – Rakali spotted

Recently, rakali (*Hydromys chrysogaster*) also known as water rats, were spotted around Greenings Landing (near Mannum) hanging around the riverbank.

Rakali sightings aren't very common along the river, but that doesn't mean they aren't there. There seems to be an increase of rakali sightings since the natural flood from 2022-23 along the floodplains.

Telltale signs of rakali are footprints and feeding platforms with piles of crustacean shells where they perch to consume their food. Though they can be observed out during the day, they tend to be more active in the evening. They are sensitive to water temperatures. Being unable to maintain a stable body temperature in cold water, they often have to sit on the bank or a log to warm up; so they are more active during warm weather.

Have you spotted any recently? Please let us know.



Photos: Rakali spotted recently at Greenings Landing, SA. Credit: M Heuzenroeder.

## Salinity

Salinity levels throughout the River Murray in South Australia are within their typical range. Nonetheless, it is possible that some irrigators may record higher salinity readings at isolated locations. These higher readings are more likely to be observed at the bottom of the water column.

Irrigators are encouraged to monitor the [daily salinity levels](#) provided by SA Water as part of their business operations.

## New Commonwealth requirements for data accuracy on trade forms in the Murray-Darling Basin

From 1 July 2023, the [Water Amendment \(Restoring our Rivers\) Act 2023](#) established new Commonwealth obligations on persons when providing information to water market authorities in relation to an application for trade or transfer of eligible tradeable water rights (e.g. water access entitlements, water allocations, irrigation rights and water delivery rights).

These persons must ensure that all information provided by water markets participants in a trade or transfer application form is comprehensive and accurate. No new information is required to be provided on forms; the new requirement applies to the existing data fields on existing forms.

Records will also need to be kept by these persons in relation to reason for trade and price information that is provided to water market authorities on trade or transfer application forms, for a minimum of 5 years.

These new obligations are in addition to existing South Australian requirements under the *Landscape South Australia Act 2019* which require that all information provided in water trade forms must be both accurate and truthful.

The commencement of these obligations will increase the accuracy and completeness of trade and transfer data, including price, for all eligible tradeable water rights and help to improve the transparency, efficiency and integrity of water markets. An overview of the broader suite of water markets reform measures in the *Water Amendment (Restoring Our Rivers) Act 2023* can be found [here](#).

The Australian Government Department of Climate Change, Energy, the Environment and Water will be holding a **webinar** on the consultation process for the water markets reforms on **Tuesday 21 May 2024**. You can register for the webinar here [Public webinar: Water market reforms](#).

For additional information, please refer to the factsheet on the new requirements for data accuracy in trade forms in the Murray-Darling Basin. You can find the factsheet [here](#).

## Further information

- [SA River Murray Flows page - Department for Environment and Water](#)
- [2022-23 River Murray Flood event](#)
- [Government of South Australia - State Disaster Recovery](#)
- [SA Water quality alerts - SA Health](#)
- [Real-time SA water data](#)
- [Current SA daily water levels](#)
- [Daily flow and water level information at key SA Water sites on the River Murray](#)
- [SA daily salinity information](#)
- [SA Marine safety](#)
- [Real time information - whole of River Murray system](#)
- [Whole River Murray System weekly reports](#)
- [Flows in the River Murray System including water for the environment](#)
- [Water for the environment actions in the Murray-Darling basin catchments](#)
- [NSW fish kills](#)
- [NSW algal alerts](#)

## Bureau of Meteorology

- [SA rainfall and river conditions](#)
- [Victorian rainfall and river conditions](#)
- [NSW rainfall and river conditions](#)
- [Climate outlooks](#)
- [Climate drivers](#)

ID	RM-Flow-Report_2024 05 03
Classification	Public I2 A2
Issued	3 May 2024
Authority	DEW
Master Document Location	R:\Water Group\RMO\WRO\04 Communications\Flow Advices\2023-24
Managed and Maintained by	Water Infrastructure and Operations Branch
Author	Water Infrastructure and Operations Branch
Reviewer	A/Director, Water Infrastructure and Operations