

Report #19/2018

Issued 10:00 am 11 May 2018

This supersedes the previous flow report issued by the Department for Environment and Water (DEW) on 4 May 2018. The next report will be provided on Friday 18 May 2018.

In this report, for ease of representation, large volumes of water are expressed in gigalitres (GL), while smaller volumes are expressed in megalitres (ML). One GL is equal to 1 000 ML.

FLOW OUTLOOK

The flow at the South Australian border is approximately 3.1 GL/day and will remain around this rate during the coming week. It comprises:

- normal May Entitlement Flow of 3.0 GL/day;
- plus environmental water; and
- interstate trade adjustments.

The flow over Lock 1 is approximately 2.2 GL/day and will remain around this rate during the coming week, depending on weather conditions and extractions.

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. The forecasts will be revised as new information becomes available.

ENVIRONMENTAL WATER

During May, environmental water has been delivered to South Australia to ensure water levels in the Lower Lakes remain within the normal operating range and barrage releases continue. Environmental water will soon be provided for upstream environmental watering events during late Autumn and into Winter, such as increasing the base flow in the Goulbourn River to improve fish habitat. Environmental water returning to the river from these events is expected to reach South Australia by the end of May.

DEW is continuing discussions regarding environmental water to be delivered during 2018.

WATER TRADE

The final date for South Australian River Murray water access entitlement holders to receive guaranteed processing and determining of River Murray water allocation trade applications for the 2017-18 water year is Friday, 15 June 2017. The final date is always the third Friday in June.

MURRAY MOUTH

Dredging operations at the Murray Mouth commenced on 9 January 2015 to maintain connectivity (exchange of water) between the Coorong and the Southern Ocean.

Two dredges are operating 24/7 in the Goolwa and Tauwitchere channels. At 6 May 2018, a total of approximately 2 951 363 cubic metres of sand had been removed by dredging operations.

There are a number of shallow zones in and adjacent to the Murray Mouth. Mariners should use caution when traversing the mouth area, follow all directions, reduce speed and avoid travelling at low tide. Boats equipped with echo sounders should check depths regularly. Mariners are reminded that navigation through the Murray Mouth is only permitted during daylight hours and that Exclusion Zones established around the dredging operations are in place to ensure public safety. Refer to Notice to Mariners No 42 of 2016 [Notice 42](#)

There is a partial park closure in place for the northern tip of the Coorong National Park. For more information visit [Coorong partial park closure notice](#)



BARRAGE OPERATIONS AND WATER LEVELS IN THE LOWER LAKES

The water level in Lake Alexandrina is approximately 0.53 m AHD and Lake Albert is approximately 0.56 m AHD. The difference in water levels is due to wind effects. When possible, water levels are being managed to achieve a target water level of between 0.5 m AHD and 0.6 m AHD during May.

During the week ending 8 May 2018 total barrage releases were approximately 1.0 GL. All fishways remain open. 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.

Water levels and barrage operations are monitored closely by the South Australian Government, the Murray-Darling Basin Authority and the Commonwealth Environmental Water Office.

WEIR POOL OPERATIONS

The Normal Pool Level (NPL) and Normal Operating Range (NOR) for the South Australian locks and weirs are identified in the table below.

| Weir | Normal Pool Level (NPL) m AHD | Normal Operating Range (NOR) m AHD |
|--------------------------|----------------------------------|---------------------------------------|
| Lock 6 - Murtho | 19.25 | 19.17 - 19.50 |
| Lock 5 - Renmark | 16.30 | 16.22 - 16.43 |
| Lock 4 - Bookpurnong | 13.20 | 13.16 - 13.50 |
| Lock 3 - Overland Corner | 9.80 | 9.77 - 10.02 |
| Lock 2 - Waikerie | 6.10 | 6.02 - 6.40 |
| Lock 1 - Blanchetown | 3.20 | 3.10 - 3.50 |

Weir and Lock 1

Remedial works to fix the seepage issue at the Lock 1 embankment have been completed. The Lock 1 water level was reinstated to the NPL of 3.20 m AHD. Monitoring is being undertaken to ensure the structure is sound and no seepage is detected at various water levels above NPL, but within the NOR. Last week, the water level was raised to 3.30 m AHD. This week the water level will be raised to 3.40 m AHD.

Weirs and Locks 6, 5 and 2

Weir pool lowering trials are being considered for:

- Lock 6 weir pool by a maximum of 0.2 m below NPL to 19.05 m AHD (May to June);
- Lock 5 weir pool by a maximum of 0.15 m below NPL to 16.15 m AHD (June to August); and
- Lock 2 weir pool by a maximum of 0.25 m below NPL to 5.85 m AHD (July to September).

Timing of these actions may be subject to change depending on river conditions. Water level changes will be undertaken in stages, at a rate of approximately 0.02 m/day.

For further information on the proposed lowerings please click on [Fact Sheet](#) and scroll down to related links or you can contact Ms Jodie Woof on (08) 8595 2141 or jodie.woof@sa.gov.au

NAVIGATION ISSUES

SA Water plans to undertake maintenance work on the Lock 3 chamber, commencing on 12 June 2018. The works will take approximately 12-14 weeks to complete. Lock 3 will be closed to river vessel traffic during this period.

Sandbars in the vicinity of the Murray Mouth may cause navigation hazards. Mariners are advised to navigate with caution when operating in the area. Sandbars are also present along sections of the River Murray downstream of Locks 7 and 8 and in South Australia. All Mariners should be aware of the risk of submerged navigation hazards, and should regularly check river depth.

RIVERINE RECOVERY CONSTRUCTION WORKS

The Riverine Recovery Project is in the process of constructing environmental regulators to manage a number of wetlands between Mannum and Murtho. Construction is expected to be completed by the end of October 2018. Construction works have commenced at Big Bend, Sugar Shack, Pyap and Murtho-Wiela wetlands. During the coming months work will commence at North Caurnamont, Teal Flat, Teal Flat Hut, Silverlea, Goat Island Paringa Paddock and Woolenook Bend wetlands.

RIVER MURRAY WATER LEVELS

Below is a table of River Murray water levels at a number of locations from Lock 10 to Murray Bridge.

River Murray Water Levels

| Location | River km | Normal Pool Level (m AHD) | Current Level 9/5/2018 (m AHD) | 1974 Flood Level (m AHD) | 1993 Flood Level (m AHD) | 2016 High Water Level (m AHD) |
|--------------------|----------|---------------------------|--------------------------------|--------------------------|--------------------------|-------------------------------|
| Lock 10 | 825.0 | 30.80 | 30.83 | 33.81 | 33.32 | 32.72 |
| Lock 9 Kulnine | 764.8 | 27.40 | 27.31 | 30.03 | 29.44 | 28.85 |
| Lock 8 Wangumma | 725.7 | 24.60 | 24.31 | 27.60 | 27.19 | 26.85 |
| Lock 7 Rufus River | 696.6 | 22.10 | 22.02 | 25.70 | 25.24 | 24.97 |
| Lock 6 Murtho | 619.8 | 19.25 | 19.22 | 21.03 | 20.50 | 20.19 |
| Renmark | 567.4 | - | 16.34 | 18.54 | 18.04 | 17.44 |
| Lock 5 | 562.4 | 16.30 | 16.34 | 18.07 | 17.50 | 17.05 |
| Lyrup | 537.8 | - | 13.28 | 16.85 | 16.26 | 15.80 |
| Berri | 525.9 | - | 13.27 | 15.81 | 15.74 | 15.21 |
| Lock 4 | 516.2 | 13.20 | 13.25 | 15.65 | 15.08 | 14.73 |
| Loxton | 489.9 | - | 9.98 | 15.05 | 14.12 | 13.54 |
| Cobdogla | 446.9 | - | 9.86 | 13.44 | 12.38 | 11.59 |
| Lock 3 | 431.4 | 9.80 | 9.83 | 13.16 | 12.02 | 10.98 |
| Overland Corner | 425.9 | - | 6.22 | 12.73 | 11.58 | 10.41 |
| Waikerie | 383.6 | - | 6.26 | 11.26 | 10.24 | 9.20 |
| Lock 2 | 362.1 | 6.10 | 6.14 | 10.28 | 9.30 | 8.32 |
| Cadell | 332.6 | - | 3.39 | 9.17 | 8.08 | 7.01 |
| Morgan | 321.7 | - | 3.39 | 8.85 | 7.65 | 6.38 |
| Lock 1 Blanchetown | 274.2 | 3.20 | 3.31 | 6.81 | 5.38 | 4.46 |
| Swan Reach | 245.0 | 0.75 | 0.49 | 6.06 | 4.51 | 3.11 |
| Mannum PS | 149.8 | 0.75 | 0.51 | 3.15 | 1.90 | 1.33 |
| Murray Bridge | 115.3 | 0.75 | 0.48 | 2.06 | 1.26 | 1.04 |

Note that the above water levels may be affected by local wind conditions

FURTHER INFORMATION

The WaterConnect website is South Australia's comprehensive water information portal and can be accessed at [Home page](#)

Up-to-date River Murray salinity, flow and water level information can be accessed at the Department for Environment and Water, SA Water and Murray-Darling Basin Authority websites

- [Water allocation and carryover announcements](#)
- [River Murray real-time water data](#)
- [SA Water River Murray info - levels, flows etc](#)
- [Murray-Darling Basin real-time water data](#)

The latest news, information and announcements about the River Murray and Basin Plan are available at [River Murray Update](#).

The Department for Environment and Water has published a series of inundation maps for the River Murray. They are available at [River Murray Inundation Maps](#)

Information on the management of acid drainage water in the Lower River Murray can be accessed at [Acid drainage water LMRIA](#)

Details of river height and rainfall information in the River Murray within Victoria and New South Wales are available at the Bureau of Meteorology website

[Victoria rainfall and river conditions](#)

[NSW rainfall and river conditions](#)

Information provided by the Commonwealth Environmental Water Office can be accessed at [CEWH Environmental Watering](#)

Information on The Living Murray can be accessed at [MDBA TLM](#)

Chowilla Floodplain Icon Site management [Chowilla-floodplain](#)

Department for Environment and Water [Home page](#)

Information provided by the Department of Planning, Transport and Infrastructure on boat licences, registering motor boats, owning and operating water craft, and boat and marine safety can be accessed at

[Boating and marine](#)

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