

River Murray Flow Report



Report #28/2020

Issued 10:00 am 10 July 2020

This supersedes the previous flow report issued by the Department for Environment and Water (DEW) on 3 July 2020. The next flow report will be provided on Friday 17 July 2020.

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.

2020-21 WATER ALLOCATIONS

Minimum South Australian River Murray water allocations are currently 54% for the 2020-21 water year and likely to reach 100% by November 2020.

Further details about water allocations and projections are available in the [River Murray Water Allocation Statement](#) and the Private Carryover policy is outlined in the [Water Allocation Plan for the South Australian River Murray](#).

To stay up to date with all the latest information, please visit our [website](#).

The next water allocation update will be on Wednesday 15 July 2020.

COORONG INFRASTRUCTURE OPTIONS

DEW recently launched a consultation process on potential infrastructure options to support the recovery of South Australia's iconic Coorong. To help the Coorong and greater South Australian community to get involved, a [guide](#) outlining the potential infrastructure options and a [survey](#) are now available.

The guide and survey represent the next stage in an ongoing consultation process as part of the Healthy Coorong, Healthy Basin program, to assess a range of long-term management solutions to improve the health of the Coorong, with a focus on the Coorong South Lagoon. A series of webinars will also be held to help explain each of the options in more detail.

Details of the consultation are available at: <https://www.environment.sa.gov.au/topics/coorong/get-involved>

For further information, or if you experience issues viewing any of the documents, please contact projectcoorong@sa.gov.au

FLOW OUTLOOK

The flow at the South Australian border is approximately 11.5 GL/day and will decrease to around 10 GL/day during the coming week. It comprises:

- full July Entitlement Flow (3.5 GL/day);
- plus unregulated flow;
- plus water for the environment (see below *Water for the Environment*); and
- interstate trade adjustments.

South Australia is receiving unregulated flow as a result of:

- recent rainfall events and inflows across catchments below Hume Reservoir;
- the volume held in Lake Victoria; and
- the inlet capacity to Lake Victoria.

The flow over Lock 1 is approximately 9.2 GL/day and will increase to around 9.5 GL/day 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.

WATER FOR THE ENVIRONMENT

Water for the environment is currently being used in South Australia to:

- provide for barrage releases to the Coorong to support a productive, food-rich environment for fish and birds;
- maintain good connection from the Coorong to the upstream areas of the River Murray, and its tributaries, to enable fish migration and movement (see more information [here](#));
- maintain water quality, salinity and water levels below critical thresholds in the River Murray channel, Lower Lakes and Coorong, including through targeted releases at the barrages when weather conditions are best suited to push water down the Coorong (see more information [here](#)); and
- deliver a range of outcomes to wetlands on the Chowilla floodplain via The Living Murray.

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. At 5 July 2020, a total of approximately 5 992 638 cubic metres of sand had been removed by dredging operations.

Two dredges are operating between the Goolwa and Tauwitchere channels 24 hours a day, 7 days a week.

Barrage releases combined with dredging have helped to maintain connectivity of the Murray Mouth.

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. Mariners equipped with echo sounders should check depths regularly. Navigation through the Murray Mouth is only permitted during daylight hours. 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 0.72 m AHD and Lake Albert is approximately 0.75 m AHD. The difference in water level is due to wind effects.

Water for the environment has enabled continuous fishway releases and small barrage releases to be undertaken during winter. During the past week, fishways at all the barrages have provided connectivity between the Coorong and the Lower Lakes. In addition:

- Tauwitchere Barrage had two to three gates open plus the fishways. Targeted higher volume releases also occurred when the wind, swell and tide conditions aligned to push fresher water down the Coorong; and
- Goolwa Barrage had one gate open at various times plus the fishways. This provided targeted releases to support diadromous fish migration.

As of Tuesday 7 July 2020, the weekly releases were approximately 6.5 GL.

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, Murray-Darling Basin Authority and Commonwealth Environmental Water Office.

RIVER VESSEL WASTE DISPOSAL STATIONS

Loxton

The Loxton River Vessel Waste Disposal Station is currently being upgraded and will be closed until 30 October 2020. A temporary pump-out service is available for river vessel users in this area. To use this service, please call Mr David Thiselton on 0412 839 392 to arrange a suitable time to pump-out waste. This service is available from Monday to Saturday, 8am to 5pm (please note: 4 hours notice is required for this service).

If you need any other help or advice with regard to this station, please call Mr Hayden Smith on 0457 820 553.

Lock 3

The Lock 3 River Vessel Waste Disposal Station is currently out of commission due to an infrastructure failure. This means that boat operators who need to empty sewage tanks will need to use the nearest alternative waste facility located at Waikerie. Alternatively boat operators who require an urgent pump-out in the Kingston-on-Murray area can contact

Mr Hayden Smith on 0457 820 553 for help or advice. Normal boat waste (domestic or galley waste) can still be deposited at the Lock 3 facility at the present time.

POTENTIAL OPERATIONS

The following table identifies the normal pool level (NPL) and normal operating range (NOR) for locks and weirs in South Australia. Potential operations could raise the water level above the NPL or NOR at some locks and weirs.

Weir	Normal Pool Level (NPL)	Normal Operating Range
	(m AHD)	(m AHD)
Lock 6 - Murtho	19.25	19.17 - 19.50
Lock 5 - Renmark	16.30	16.13 - 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	5.90 - 6.40
Lock 1 - Blanchetown	3.20	3.10 - 3.40

Chowilla Regulator Operation with Raising Lock 6 Weir Pool

DEW is planning for a potential mid to high level operation of the Chowilla Creek environmental regulator, along with raising the water level in the Lock 6 weir pool by up to 0.6 m above NPL (up to 16.85 m AHD) depending on River Murray flows. It is anticipated that these operations could commence in August and would be completed in December 2020.

First Operation of New Floodplain Infrastructure

Pike Floodplain with Raising Lock 5 Weir Pool

DEW is planning for a potential low level first operation of the new environmental watering infrastructure on the Pike floodplain, along with raising the water level in the Lock 5 weir pool by 0.5 m above NPL (up to 16.8 m AHD). It is anticipated that these operations will commence in August and be completed in December 2020.

Katarapko Floodplain with Raising Lock 4 Weir Pool

DEW is planning for a potential low to medium level first operation of the new environmental watering infrastructure on the Katarapko floodplain, along with raising the water level in the Lock 4 weir pool by 0.3 m above normal pool level (up to 13.5 m AHD). It is anticipated that these operations will commence in August and be completed in December 2020.

The proposed operations of the new infrastructure (Pike and Katarapko) and associated weir pool raisings:

- would provide environmental benefits to the plants and wildlife on the floodplain; and
- is dependent on approvals, environmental water availability, River Murray flow and water quality conditions.

Updates on operations will continue to be provided in the *River Murray Flow Report*. If you would like to be sent further communications via email, please provide your details to the Engagement Officer, Ellee Eleftheriadis, at ellee.eleftheriadis2@sa.gov.au.

NAVIGATION ISSUES

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.

SA RIVERLAND FLOODPLAINS INTEGRATED INFRASTRUCTURE PROGRAM

Katarapko

All major construction works on the Katarapko Floodplain are now complete, however there are some minor rehabilitation works and other smaller activities still being undertaken. All parts of the Murray River National Park are open for camping and other activities. Visitors are encouraged to continue to practice social distancing and comply with relevant limits on gatherings. Bookings can be made online by visiting the following website <https://www.parks.sa.gov.au/booking#Murray%20River%20National%20Park>

Pike

Although work on the regulating structures and blocking bank on the Pike Floodplain is now complete, other works continue in this area. Access to the floodplain is still restricted to construction personnel and authorised visitors. Access to the Pike River anabranch complex is possible.

QUARTERLY METER REPORTING

All River Murray water users must ensure that they have not used more water than is available on their account by the end of each quarter. This is to help ensure that water can be reliably delivered to all River Murray water users in South Australia. A penalty for excess water use will apply if you have used more water than the volume of water available on your account at close of business on 30 September 2020.

In order to remain within your available water allocation, you can:

- Stop taking water when you reach your allocation limit;
- Before you reach your allocation limit, trade water allocation onto your water account to cover your additional water needs. To comply with the *Landscape South Australia Act 2019*, to ensure that you do not exceed your available allocation and to avoid receiving a penalty charge, you need to trade water allocation onto your account before you take water above your current allocation limit; or
- Investigate whether water efficiency measures could be implemented for your property to decrease your demand for water.

Water users are encouraged to closely monitor their water use throughout the year and remain within their water allocations. You can submit an online meter reading at any time and elect to receive a water usage advice statement (similar to a bank statement) by email or SMS. This helps ensure you are monitoring water use and remaining within your available water allocation.

For more information, please see the [DEW website](#) or contact the Berri water licencing office via telephone: (08) 8595 2053 or email: DEW.waterlicensingberri@sa.gov.au

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 8/7/2020 (m AHD)	1974 Flood Level (m AHD)	1993 Flood Level (m AHD)	2016 High Water Level (m AHD)
Lock 10	825.0	30.80	30.79	33.81	33.32	32.72
Lock 9 Kulnine	764.8	27.40	27.49	30.03	29.44	28.85
Lock 8 Wangumma	725.7	24.60	24.01	27.60	27.19	26.85
Lock 7 Rufus River	696.6	22.10	22.12	25.70	25.24	24.97
Lock 6 Murtho	619.8	19.25	19.24	21.03	20.50	20.19
Renmark	567.4	-	16.35	18.54	18.04	17.44
Lock 5	562.4	16.30	16.33	18.07	17.50	17.05
Lyrup	537.8	-	13.36	16.85	16.26	15.80
Berri	525.9	-	13.31	15.81	15.74	15.21
Lock 4	516.2	13.20	13.30	15.65	15.08	14.73
Loxton	489.9	-	10.30	15.05	14.12	13.54
Cobdogla	446.9	-	10.04	13.44	12.38	11.59
Lock 3	431.4	9.80	9.96	13.16	12.02	10.98
Overland Corner	425.9	-	6.46	12.73	11.58	10.41
Waikerie	383.6	-	6.34	11.26	10.24	9.20
Lock 2	362.1	6.10	6.20	10.28	9.30	8.32
Cadell	332.6	-	3.51	9.17	8.08	7.01
Morgan	321.7	-	3.43	8.85	7.65	6.38
Lock 1 Blanchetown	274.2	3.20	3.33	6.81	5.38	4.46
Swan Reach	245.0	0.75	0.71	6.06	4.51	3.11
Mannum PS	149.8	0.75	0.72	3.15	1.90	1.33
Murray Bridge	115.3	0.75	0.68	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. For real-time data (like salinity, water levels) go to the following page: [WaterConnect Real-time water data](#).

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: [Managing Acid Sulfate Soils Research Project](#)

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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