

RIVER MURRAY FLOW REPORT

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Report #10/2014

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This supersedes the previous flow report issued by the Department of Environment, Water and Natural Resources (DEWNR) on 28 February 2014. The next flow report will be provided on Friday, 14 March 2014.

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 8 400 ML/day and will remain around this rate during the coming week, depending on upstream river and storage operations, extractions, and rainfall events. The flow comprises the March Entitlement Flow of 6 000 ML/day, minus deferred Entitlement Flow of 210 ML/day, plus environmental water. South Australia is working with the Commonwealth Environmental Water Holder to seek opportunities to deliver additional environmental water in future months.

By 1 March 2014, South Australia had 30 GL of its Entitlement Flow stored in the upstream (interstate) storages for critical human water needs use in future dry years and 6.8 GL for private carryover use in future dry years. South Australia has requested that the Murray-Darling Basin Authority defer and store an additional 6.6 GL of South Australia's Entitlement Flow in March 2014 for future private carryover use. Deferral of additional water for private carryover in April is currently being considered. The volume held in the upstream storages will be adjusted for net evaporation losses.

The flow over Lock 1 is approximately 5 000 ML/day and will increase to around 5 500 ML/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. They may change as new gauging information becomes available, or due to rainfall events or changed operations upstream. Flow forecasts are dependent on predictions made by the Bureau of Meteorology, Murray-Darling Basin Authority and water management agencies in upstream jurisdictions. They will be revised as new information becomes available.

BARRAGE OPERATIONS AND WATER LEVELS IN THE LOWER LAKES

The water level in Lake Alexandrina is approximately 0.61 m AHD and approximately 0.60 m AHD in Lake Albert. The volume of water in the Lower Lakes is being managed to maximise water availability for continuous barrage releases into autumn. Barrage releases are being prioritised through Tauwitchere and Goolwa. All fishways are in operation. SA Water will continue to operate the barrages to minimise any negative salinity impacts from reverse flow events.

To see live salinity data at various locations on the River Murray and in the Lower Lakes, please refer to the following website: <http://www.waterconnect.sa.gov.au/Systems/RTWD/SitePages/Home.aspx>

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



WATER QUALITY – Blue-Green Algae

The New South Wales Government (through Regional Algal Coordinating Committees) has issued red alert warnings for toxic blue-green algae at:

- Menindee Lakes and the Great Darling Anabranch at, and upstream of, Tara Downs, where the water is unsuitable for stock and domestic, irrigation and recreational purposes;
- Griffith and Balranald on the Murrumbidgee River, where the water is unsuitable for recreational and stock watering purposes; and
- downstream of Barren Box Swamp on the Murrumbidgee River, where the water is unsuitable for irrigation, stock and domestic purpose.

Although these toxic blue-green algal blooms pose no threat to South Australia at this stage, the Murray-Darling Basin Authority and the relevant South Australian Government agencies are regularly monitoring the situation. It is not uncommon to experience algal blooms at this time of the year.

LOWER DARLING TEMPORARY TRADE CLOSED

On 25 February 2014, New South Wales closed temporary trade into, and out of, the regulated lower Darling River. This was necessary as the total volume in the Menindee Lakes has fallen below the trigger point of 480 GL. The Menindee Lakes will now be operated to preserve water for as long as possible, to meet the needs of lower Darling water users and town water supply.

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 in South Australia and all watercraft users should be aware of, and regularly check, the river depth.

CONSTRUCTION WORKS

River Vessel Waste Disposal Station Upgrades

Upgrade works have commenced, or are about to commence, at two River Murray waste disposal stations.

The **Mannum** River Vessel Waste Disposal Station is out of commission until 16 April 2014. Temporary pump-out facilities are available 500 metres downstream of Mannum at the Unforgettable Houseboats Marina.

The **Morgan** River Vessel Waste Disposal Station will be out of commission from 12 March until 28 March 2014. Temporary facilities will be available 1.5 kilometres downstream of Morgan at the Foxtale Hire Marina.

Lake Victoria Outlet Regulator

Remedial works on the Lake Victoria Outlet Regulator commenced in late February 2014 and are expected to be completed around June 2014. The works are necessary to improve the integrity of the regulator.

Mullaroo Creek

Remedial works in the Mullaroo Creek (located in Victoria and flows into the Lindsay River, which enters the River Murray between Lock 6 and 7) are expected to commence in early March 2014 and be completed around June 2014. The works are necessary to improve the control of flows in this system. For public safety reasons the Mullaroo Creek will be closed to navigation at the work site during this period.

Lock 4

Remedial works at Lock 4 are scheduled to commence early May 2014 and be completed around early August 2014. During this period Lock 4 will be closed to navigation.

Lock 11

Installation of mechanised gates at Lock 11 (Mildura weir pool) is scheduled to commence in mid-late May 2014 and be completed in June 2014. The installation is expected to take about three weeks. During this period Lock 11 will be closed to navigation.

Currency Creek

The Commonwealth Government has confirmed, under the *Environment Protection and Biodiversity Conservation Act 1999* (Cwlth), that water-based works to remove the Currency Creek Regulator are now complete and the site has been returned as close as practicable to pre-construction bathymetry. The stockpile of rock material that was removed from the regulator has been removed from site. The final clean-up work is expected to be complete next week.

Chowilla

Construction of the Chowilla Creek Environmental Regulator and associated structures is ongoing. For public safety reasons, the Chowilla Creek remains closed to navigation at the construction site. Works are also underway to upgrade the weirs on Pipeclay Creek and Slaney Creek to improve the management of flows into the Chowilla anabranch and to enable fish passage. The weirs are closed to boat traffic during this construction program.

RIVER MURRAY WATER LEVELS

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

River Murray Water Levels on 5 March 2014

Location	River km	Normal Pool Level	Current Level (m AHD)	1974 Flood Level (m AHD)	1993 Flood Level (m AHD)
Lock 10	825.0	30.80	30.84	33.81	33.32
Lock 9 Kulnine	764.8	27.40	27.48	30.03	29.44
Lock 8 Wangumma	725.7	24.60	24.60	27.60	27.19
Lock 7 Rufus River	696.6	22.10	22.20	25.70	25.24
Lock 6 Murtho	619.8	19.25	19.35	21.03	20.50
Renmark	567.4	-	-	18.54	18.04
Lock 5	562.4	16.30	16.39	18.07	17.50
Lyrup	537.8	-	-	16.85	16.26
Berri	525.9	-	13.28	15.81	15.74
Lock 4	516.2	13.20	13.30	15.65	15.08
Loxton	489.9	-	-	15.05	14.12
Cobdogla	446.9	-	-	13.44	12.38
Lock 3	431.4	9.80	9.96	13.16	12.02
Overland Corner	425.9	-	6.44	12.73	11.58
Waikerie	383.6	-	6.44	11.26	10.24
Lock 2	362.1	6.10	6.27	10.28	9.30
Cadell	332.6	-	-	9.17	8.08
Morgan	321.7	-	3.39	8.85	7.65
Lock 1 Blanchetown	274.2	3.20	3.35	6.81	5.38
Swan Reach	245.0	0.75	0.71	6.06	4.51
Mannum PS	149.8	0.75	0.65	3.15	1.90
Murray Bridge	115.3	0.75	0.63	2.06	1.26

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

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FURTHER INFORMATION

The WaterConnect website is South Australia's comprehensive water information portal and can be accessed at: <http://www.waterconnect.sa.gov.au>

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

<http://www.waterconnect.sa.gov.au/Systems/RTWD/SitePages/Home.aspx>
www.sawater.com.au/SAWater/Environment/TheRiverMurray/River+Murray+Levels.htm
<http://www.mdba.gov.au/river-data/live-river-data>

The Department of Environment, Water and Natural Resources has published a series of inundation maps for the River Murray. They are available at: <http://www.waterconnect.sa.gov.au/Systems/RMIM/Pages/default.aspx>

Information on the management of acid drainage water in the Lower River Murray can be accessed online at: http://www.epa.sa.gov.au/environmental_info/water_quality/acid_sulfate_soils_ass/lower_river_murray_reclaimed_irrigation_area_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: <http://www.bom.gov.au/vic/flood>

Information provided by the Commonwealth Environmental Water Office can be accessed at: www.environment.gov.au/ewater/southern/murray/lower-murray.html

Information on The Living Murray can be accessed at: <http://www.mdba.gov.au/about-basin/environmental-sites>

Information is also available from the SA Water Hotline on **08 8595 2299**

Department of Environment, Water and Natural Resources
<http://www.environment.sa.gov.au/Home>

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