

## IPOS e-Bulletin

### Issue 42 – December 2016

#### Billing information session coming to you

Based on your feedback, SA Water is hosting two workshops for you to learn more about your water and sewerage charges. Both sessions will be held in January 2017. Information provided in the second session will be tailored for councils and based on council-specific feedback. We will provide information about:

- SA Water overview
- Standard SA Water fees and charges
- Potential exemptions from standard SA Water fees and charges

The session is free and will run for around 90 minutes. Please see session details below.

Target Audience	Workshop Location	Date	Time	Registrations Close
Business and NGOs session	SA Water House, Learning Centre, L1 250 Victoria Square, Adelaide	Tuesday, January 10, 2017	10am to 11:30am	Tuesday, January 3, 2017
Council session	SA Water House, Learning Centre, L1 250 Victoria Square, Adelaide	Tuesday, January 17, 2017	10am to 11:30am	Tuesday, January 10, 2017

If you are interested in coming, please register by emailing [business.relations@sawater.com.au](mailto:business.relations@sawater.com.au).

If there are other topics related to SA Water's operations and activities that you are interested in learning about, please contact us and let us know by emailing [business.relations@sawater.com.au](mailto:business.relations@sawater.com.au).

#### Tip of the month

Leading into the festive season there may be fewer fixtures scheduled on your sports field. This may provide an opportunity for you to carry out some maintenance. Fertilising, coring and/or scarifying may be worth considering.

# Free Bolivar Wastewater Treatment Plant tour available

## Book Now

Have you ever wondered what happens to waste after you flush the toilet or how South Australia's wastewater treatment plants work?

SA Water is a leader in sewage treatment and every year we manage and treat millions of litres of sewage for South Australians. Our three major wastewater treatment plants at Bolivar, Glenelg and Christies Beach process more than 250 megalitres of sewage every day. That's about five full baths every second!

The treatment process recycles the treated water as well as the organic material that comes out of the water. You can hear all this and more by signing up for a free tour of the Bolivar Wastewater Treatment Plant. SA Water offers tours of all our major metropolitan treatment plants (including our largest at Bolivar).

### Who can take the tour?

Groups of 10 to 30 people are welcome. Guests must be also able to navigate stairs and rough surfaces. This tour is suitable for general community groups, TAFE and University classes, industry groups and senior high school classes.

To book a tour or for further information, please email [community@sawater.com.au](mailto:community@sawater.com.au) or call 7424 2223.



## Recycled Water in SA

### Considerations for recycled water connections

We often receive enquiries from schools and councils about irrigating with recycled water, accessing recycled water and whether it's suitable for them.

SA Water recycles a higher percentage of wastewater than any other major water utility in Australia. In 2015-16, more than 32% of all treated wastewater was re-used across South Australia.

Our three major wastewater treatment plants (WWTPs) at Bolivar, Glenelg and Christies Beach all supply fit for purpose water generally through 'purple pipe' networks to surrounding areas. Recycled water is also delivered in regional areas including Port Lincoln, Whyalla, the Adelaide Hills, Victor Harbor and in the Riverland.

Recycled water is generally suitable for irrigation of open spaces and other non-drinking uses such as horticulture, viticulture and flushing toilets. Recycled water from the Bolivar WWTP, for example, is used on market gardens. Recycled water from Glenelg WWTP is used to irrigate sports grounds and recreational areas around the Adelaide CBD as well as being used for other purposes such as flushing toilets at Adelaide Oval. Recycled water from Christies Beach WWTP is used for watering some vineyards in McLaren Vale, used for irrigation of open spaces and also supplies a residential dual reticulation system through Seaford Meadows.



In terms of using recycled water for your irrigation, there are considerations worth thinking about. These include:

- **Volume of supply**
  - Can the recycled water system and supplier guarantee a volume every year?
- **Water quality**
  - Is the water quality suitable for its desired use? It's important to ensure nutrient concentrations as well as Total Dissolved Solids (TDS) levels are within guidelines as well as other parameters that may have implications.
- **Flow rate supplied**
  - Can the peak flow demand from the irrigation system be met by the recycled water system?
- **Supply pressure**
  - Is the supplied pressure adequate for the end use?
- **Storage requirements**
  - If the flow and pressure provided from the recycled system is inadequate, you may need to install storage tanks and pumps to generate the required supply conditions.
- **Availability**
  - Although recycled water schemes are expanding across different areas of South Australia, infrastructure can be a significant distance from the desired location.
- **Backflow prevention requirements**
  - Strict backflow prevention requirements are imposed by the Office of the Technical Regulator (OTR) to protect the public from backflow.





- **Regulatory requirements**
  - As well as the OTR, approval for the use of recycled water is required by SA Health. Requirements will vary and depend on the water quality and potential risks to the public.
- **Cost**
  - Whilst the cost of water used may be cheaper than other water sources, initial capital costs for recycled water connections can be significant. This includes costs such as backflow and plumbing requirements, connection requirements and augmentation.

For more information about SA Water’s recycled water products and services, visit our [website](#). If you’re interested in a recycled water connection, you can contact us on the details in the banner below.

Chapter 5 of the [IPOS Code of Practice](#) also provides detailed information about the different water supply options including recycled water in South Australia.

## November Irrigation requirement overview

### Bureau of Meteorology (BoM) – cooler November compared to average

Station	TQVS 1 (kL/Ha)		TQVS 2 (kL/Ha)		TQVS 3 (kL/Ha)		TQVS 4 (kL/Ha)	
	AIR	BIR	AIR	BIR	AIR	BIR	AIR	BIR
<b>Adelaide Airport</b> - 023034	1251	1545	677	865	534	695	391	525
<b>Kent Town</b> - 023090	1116	1438	587	787	454	625	322	462
<b>Mount Crawford</b> - 023763	1039	1362	519	725	389	566	259	407
<b>Noarlunga</b> - 023885	1298	1486	739	834	599	671	459	508
<b>Parafield</b> - 023013	1338	1635	754	915	608	736	462	556

**AIR** is the ‘Actual Irrigation Requirement’ which is based on the current climate data.

**BIR** is the ‘Base Irrigation Requirement’ which is based on the average of the previous 5 years climate data.

Station	Rainfall (mm)		Eto (mm)	
	Current	Long term	Current	Long term
<b>Adelaide Airport</b> - 023034	29	25	164	196
<b>Kent Town</b> - 023090	33	30	151	188
<b>Mount Crawford</b> - 023763	42	37	148	182
<b>Noarlunga</b> - 023885	16	24	160	187
<b>Parafield</b> - 023013	20	26	167	205

Disclaimer:

SA Water’s Business Relations Group provides recommendations and suggestions only. It is advised that further investigations are detailed studies are completed before any projects are implemented. All applicable standards & guidelines (Australian, EU, AQUIS, HACCP, Australian Drinking Water Quality Guidelines etc.) should be adhered to, and care should be taken to ensure water and wastewater minimisation programs do not negatively impact health or processing operations.