

**SIGNAGE
INSTALLED
& SITE
PREPARED**

The upgrade of the Sunbury Recycled Water Plant (RWP) is progressing with traffic signage installed and ground works about to commence.

New signage installed to address traffic safety and noise

Western Water has worked closely with Hume City Council to erect signs at critical locations along Harker Street to remind all drivers of key points in relation to safety, parking and noise.



What has been happening on site?

The entrance sign to the plant has been replaced to reflect the upgrade project announcement by the State Government and partnership with Downer.

Downer is in the process of coordinating the set up of the site office and construction zones in readiness for the upgrade project.

The delivery and assembly of site sheds is expected in September.

The earthworks and preparation for Stage 1A of the project will commence in October, once the design has been finalised and approved. It is expected that this stage of the works will be completed by later this year.

This will be followed by concrete structures being constructed for the inlet works, odour control system and associated infrastructure.

Future updates

The upgrade of the plant will be completed through a number of phases to ensure the plant remains fully functional.

Each project update will profile a different part of the upgrade to help improve understanding of the plant's processes and details involved in the upgrade.



IN THIS UPDATE

- Signage installed
- Site being prepared
- Profiling: Inlet works and Odour Control System
- Consultation on colour selection

HOW TO STAY INFORMED

Let us know if you'd like to be added to the contact list for the Sunbury RWP Upgrade Project:

- Mail - PO Box 2371, Sunbury DC Vic 3429
- Email - majorprojects@westernwater.com.au
- Phone - 1300 650 422

Inlet works and Odour Control System

Inlet works

The inlet works forms the primary treatment of wastewater at the plant and involves a mechanical process where particles, non-biodegradable material, and sand (or 'grit') are removed.

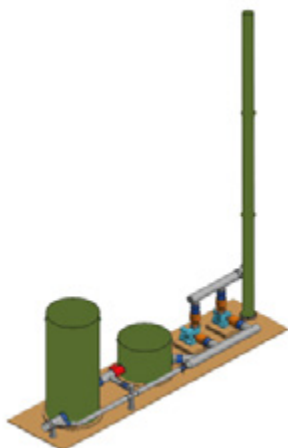
The materials collected via this process are washed, compacted and removed offsite.

Odour Control System (OCS)

An OCS treats the odours created by the wastewater and treatment processes. The OCS comprises of two tanks, an odour dispersion stack and related infrastructure (pipes, concrete pad etc.).

The OCS is connected to ventilated areas across the plant via ductwork and associated odour covers.

This infrastructure will be constructed to ensure compliance with the EPA's guidelines.



Above: Schematic of OCS

What is the key difference between the existing and new inlet works and OCS?

The new inlet works will be able to treat a 50% increase in wastewater flow to the plant. The inlet works and OCS will incorporate new technology such as a biotrickling filter and activated carbon filter.

What are the EPA requirements?

Environment Protection Authority Victoria (EPA) guidelines stipulate that there should be no more than 1 Odour Unit (OU) at the site boundary.

The EPA regulates pollution and has independent authority to make decisions under the *Environment Protection Act 1970*.

The EPA has approved the OCS and ventilation stack as the best solution for Sunbury RWP to meet their rigorous environmental standards.

What are the dimensions of the odour stack?

The odour stack will be up to 30m in height and around 700mm in width. This height is necessary given the landscape (steep hills, incised valley and elevated plateaus) so that the odour is dispersed over a large area.

The stack will be made from Fibre Reinforced Plastic. It will be designed to ensure constructability and compliance with relevant design criteria (to withstand wind loads etc).

How will the stack ensure there is no odour sensed at the boundary?

Releasing treated odour through the tall stack will prevent it from accumulating in the valley and being swept along in high concentrations.

The minimal amount of treated odour emitted from the stack will ensure it is well dispersed by the time it reaches the edge of the site.

Will houses that are located at a similar height as the stack be able to smell odour?

No. The upgrade will significantly improve odour management at the site. Due to the close proximity of the RWP to residential areas, the management of odour has always been integral to the operation of the plant. Historically there have been very few odour complaints about the plant.

The OCS should ensure no odour will be detected outside of the boundary of the site.

What should I do if I smell odour I think is coming from the RWP site?

If you experience any odours from the plant please call Western Water on 1300 650 422 as soon as possible to let us know. It will then be investigated and the cause of the odour identified and dealt with.

Colour selection consultation

A meeting was held in July with key internal and external stakeholders to select a colour for the OCS.

The community Project Reference Group members and internal staff were provided with background information on the OCS.

Images from community viewpoints were then presented to the group. Olive green was selected as the most suitable colour for the OCS based on its ability to blend with the local environment.

Installation of the odour dispersion stack is planned for early to mid 2017.



Above: View from Palomino Drive with olive green OCS