

WATERFALL GULLY Wastewater System Upgrade Project

Welcome to the second newsletter keeping you informed about the Waterfall Gully Wastewater System Upgrade Project.

This project involves the replacement of the current wastewater system at Waterfall Gully Road to increase reliability and safety.

In the first edition of the newsletter the project brief was outlined and details were provided to assist you in understanding what has happened so far and how the project will affect the community. In this second edition you can read about:

- what scheme has been selected and why
- how will the system work
- when works will commence
- what it means for residents of Waterfall Gully Road
- how project impacts will be managed
- next steps

How will the wastewater system be upgraded?

Several options were considered to upgrade the wastewater system at Waterfall Gully, including replacing the existing system with an alternative scheme. Upgrading the existing vacuum system has been identified as the preferred option to increase reliability by reducing the risk of an overflow and improve safety for operators.

A contracting firm is in the process of being engaged to undertake the work on behalf of SA Water and its contractor, United Water. The contractor will install a new vacuum wastewater system and will also decommission the existing system.

In most locations, new collection chambers will be installed near the existing chamber. New connections to households and the vacuum sewer will be established. Once the new chambers are online, the existing ones will be removed. In other locations the existing chamber must be removed prior to the new chamber being installed in the same location.

The existing below ground pumping station located at

Waterfall Gully Road will be removed and a new pumping station constructed to accommodate equipment for the new system. A small parcel of land to the rear of the existing pumping station will be required to accommodate new infrastructure. SA Water and United Water will consult with Burnside Council regarding the land requirement.

How does a vacuum sewerage system work?

In a vacuum sewer system, wastewater gravitates from households to a collection chamber. When the wastewater volume reaches a predetermined level in the collection chamber, an automatic valve opens and pressure draws the wastewater from the collection chamber into sewage collection pipes, eventually collecting in a vacuum vessel within the vacuum pumping station. Sewer is then pumped to a discharge manhole downstream and into the gravity network.

What does the project involve and how will it affect me?

The project will involve the installation of 30 new collection chambers along Waterfall Gully Road. Not all properties at Waterfall Gully Road have collection chambers but all existing chambers will be upgraded. New pit locations have been determined through evaluation of operational requirements and physical site constraints. Now that the scheme for upgrading the wastewater system has been selected, the contractor will commence detailed design works.

During construction there will be some disruption to residents living in Waterfall Gully Road including:

- trucks moving through the street delivering construction materials and removing surplus soil
- traffic management to ensure safety of the public and the construction workers
- replacement or installation of collection chambers
- some construction noise from machinery. Construction machinery noise will be managed in accordance with Environmental Protection Authority regulations



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- trenching and cable laying along Waterfall Gully Road
- decommissioning of existing system including removal of the old chambers
- upgrading and extending the existing pumping station located at Waterfall Gully
- security fencing
- monitoring of vibration and noise
- advanced notices to residents of potential impacts
- dampening areas likely to generate dust
- limiting work from 07:00 – 16:30, Monday to Friday with no work occurring on Saturdays, Sundays or public holidays, except in emergencies or where a task cannot be undertaken in the normal working hours eg at low flow times.

A number of the collection chambers, associated wastewater mains and cabling required for successful operation of the upgraded system will need to be constructed in private property. The infrastructure to be constructed in private properties will need to be protected by a registered easement. If SA Water is required to undertake work on your property we will contact you soon to discuss access for construction purposes and the process involved in registering easements.

Program

The construction team will commence pre-construction activities including the delivery of equipment in January 2010. Construction of the new vacuum wastewater system will commence in February - March 2010. The construction team will work progressively from south to north (Cleland Conservation Park to Burnside), installing new chambers and pipe work and decommissioning the existing ones, laying a telemetry cable in a new trench along Waterfall Gully Road and reinstating soil and landscaping where appropriate.

The works are due to be completed in mid 2010 however this is dependent on weather conditions. If there is heavy rainfall during construction, work will cease until it is safe to continue.

Will gardens be reinstated?

Where new chambers are installed and where existing chambers are removed from private properties, gardens will be reinstated to their original condition within 2 weeks after completion.

Public areas such as Waterfall Gully Road will also be reinstated upon completion of the necessary works.

How project impacts will be managed?

A number of measures will be employed to minimise potential disruptions including:

- site signage and identification of alternative routes where possible

Domestic water supplies will not be affected as a result of the project.

Next steps

Since our first newsletter regarding this project (March 2009), tenders have been called and an assessment of the options undertaken. We have revised the key dates for the project and the anticipated milestones are shown below.

Activity	Anticipated Date
Development approval process	Sept – Dec 2009
Easement acquisition	Oct 2009 – Feb 2010
Construction	Jan – June 2010

Further details of the timing and length of the construction works will be available as the project progresses.

Contact details

If you have questions or require further information about the project:

- phone the SA Water Project Hotline on 1800 812 362

or

- email waterfallgully@sawater.com.au

For information on this and other SA Water projects log on to www.sawater.com.au