

Overview

The North South Interconnection System Project (NSISP) is part of a broader SA Water program to ensure security of water supply for our customers. The project is also an important part of the South Australian Government's Water for Good strategy.

The project is focussed on enhancing the reliability and flexibility of Adelaide's water supply network. To achieve this, NSISP consists of a range of works to connect Adelaide's northern and southern water supply networks.

Currently, Adelaide's supply network is roughly split into two systems:

- Northern system (supplied through the Hope Valley and Anstey Hill Water Treatment Plants).
- Southern system (supplied through the Happy Valley Water Treatment Plant).

While these systems have served Adelaide well to date, interconnection has been planned for some time. The process will include new pipe work to connect the northern and southern systems as well as pumping stations and pressure reducing and sustaining valves to enhance SA Water's capacity to move water across the system in a more flexible way.

The arrival of the Adelaide Desalination Plant in the south of Adelaide also means we will have a greater volume of drinking water available for use in the system. The interconnection of the system will enable us to make full use of this additional source to meet future demand.

The project is expected to be completed in late 2012.



Further Information

For further information or to provide your thoughts on the project:

- Visit the SA Water website: www.sawater.com.au
- Email the project: nsisp@sawater.com.au
- Phone our community involvement team: **(08) 8405 4278**



Project Overview

North South Interconnection System Project



WATER  **GOOD**



Government of
South Australia



SA Water

Benefits

The NSISP will enable the continued delivery of a reliable water supply to your home or business while improving the flexibility and functionality of the distribution system.

Key benefits are:

Flexibility. Without interconnection, most suburbs are linked to only one water supply option. Once the project is completed, most of Adelaide will benefit from at least two sources of supply. This flexibility means we will be better able to deal with drought, growth within the city's population and any failures within the system. It will mean a much more reliable supply for the community.

Reliability. Because interconnection of the Adelaide water distribution network will improve system flexibility we will be able to better respond to impacts on supply. For example, if there is an interruption to supply in the northern system we will be able to pump drinking water from the southern system across the majority of the Adelaide metropolitan area.

Water security. Without interconnection, water from the Adelaide Desalination Plant can only be distributed through the southern supply system. Following interconnection, desalinated water can be delivered across the whole metropolitan network. Enabling broad access to this non-climate dependant water supply will ensure Adelaide continues to have a secure water supply in the future and is able to meet increases in demand.

Construction Works

Pump stations

The NSISP requires the construction of three new pump stations to ensure we are able to move large volumes of water through the newly connected system. New pump stations will be built at Wattle Park and Clapham on existing SA Water land to replace existing pump stations and a new pump station will be constructed on land at Gilberton.

Ancillary Works

A range of ancillary works will be required throughout the network to enable full use of existing infrastructure in transferring bulk water. These works include the upgrade or installation of valves, flow metres and electronic equipment to control flows and pressure through the system. Works will occur at:

- Springfield.
- Wattle Park.
- Seacliff.
- Gulfview Heights.
- Brighton, Military and Bridge Roads.

Pipeline construction

- Eastern – approximately 12kms from Wattle Park to Clapham.
- Central – approximately 10 kms from Gilberton to Hope Valley.
- Grange Road/Beach Road – approximately 3kms.
- Nelson Road – approximately 7kms.
- Grand Junction Road – approximately 600m.

Reducing community impact

The overall project design, construction and operation has taken into account stakeholder feedback and aims to minimise impacts on the local community. SA Water requires all contractors to have construction management plans in place to address local issues, including access to properties and traffic.

While some construction disruption is unavoidable, we will work with the community to ensure high levels of understanding regarding when construction will occur, how people will need to plan, how we will minimise dust or other possible impacts and who to talk to in case of a problem.

Works are planned and scheduled with customer needs in mind – including hours of operation and traffic management.

Protecting the environment

SA Water sets high environmental standards and makes every effort to avoid and minimise impacts to the environment and heritage places. Impacts to vegetation are closely monitored during both planning and construction phases. SA Water also works closely with local Councils and state agencies to assess, where appropriate, local and state heritage listed sites. Any sensitive structures are monitored during construction.

