



# BIRD IN HAND

## WASTEWATER TREATMENT PLANT UPGRADE PROJECT

Welcome to the second newsletter about the Bird in Hand Wastewater Treatment Plant upgrade project. The upgrade will provide a sustainable long-term treatment facility for the area, catering for predicted growth for the next 25 years. It will also create benefits for the local Dawesley Creek and surrounding environment.

Construction works for the project commenced earlier this year, with preliminary earthworks complete, and new structures and site works well underway. The next stage of works will be the construction of a recycled water main and site landscaping, followed by mechanical and electrical installation works extending to early 2011. This newsletter provides further details of the project progress and next steps.

# BIRD IN HAND WASTEWATER TREATMENT PLANT UPGRADE PROJECT

## CURRENT STATUS

The new wastewater treatment infrastructure is taking shape as construction works continue at the plant site. With the completion of preliminary earthworks, work is well underway on the structures including the bioreactor and clarifiers that will process the wastewater.

Bioreactors are used to reduce nutrients in the wastewater, while clarifiers are used to separate the liquid from the solid material through a settling process. The solid material then transfers to the digester for further treatment.

The digester uses microorganisms to break down the biodegradable material. The gas produced through the process will be captured and used to generate heat for the digestion process.

Siteworks for the administration building that will be used by SA Water staff in operating the new plant are also underway.

Construction of a pipeline to transfer treated wastewater is anticipated to start in September/October.



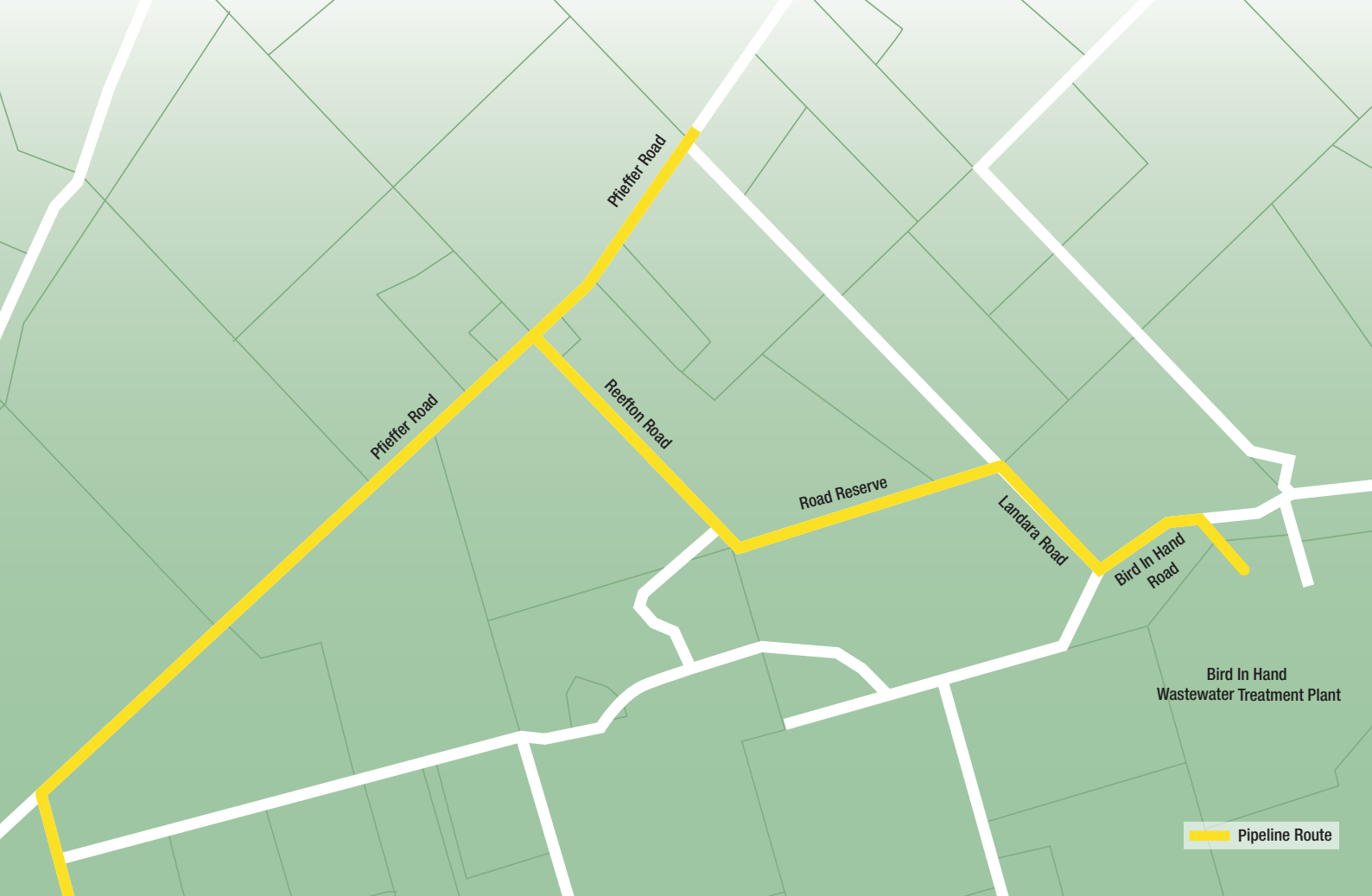
Clarifiers A and B.



Clarifier B.



Bioreactor.



## RECYCLED WATER PIPELINE ROUTE

### RECYCLED WATER PIPELINE

The pipeline will enable recycled water to be transferred between the treatment plant and surrounding properties, connecting customers along the route to a source of treated wastewater for pasture, lucerne and vineyard irrigation.

An average of approximately one megalitre per day is anticipated to be available for offsite reuse from the summer of 2011.

Customers with an interest in connecting to the recycled water pipeline were identified through a Registration of Interest process and follow up discussions.

The recycled water main will be laid predominantly in road reserves, but in some locations on private property. The pipeline route was selected to service registered customers whilst minimising impacts

on vegetation. Surveys of heritage, geotechnical conditions, and existing service locations were also undertaken to confirm the pipeline route.

Whilst impacts from pipeline construction will be minimised as much as possible, residents near to construction works may experience:

- increased traffic flow into the area (this will include construction staff and material deliveries)
- traffic management (e.g. change in speed limit, restriction to one lane where works are required in the road verge)
- noise from construction activity
- some dust during drier weather

The construction of the offsite reuse pipeline, together with the new fifty megalitre covered storage will assist SA Water in meeting our commitment to limit discharge to Dawesley Creek during the summer period.

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## LANDSCAPING

A vegetation buffer will be established along the treatment plant's boundary to Bird in Hand Road to improve visual amenity. Indigenous local species including River Red Gums and SA Blue Gums will be supplied by the Dawesley Creek Landcare Group, and planting is expected to occur in September.

While the upgraded Plant will implement a new mechanical based wastewater treatment process, five existing lagoons used in the previous treatment process will be maintained on the plant site as possible contingency water storage. Plans are currently being developed for future landscaping around these lagoons.

## PROJECT DELIVERY SCHEDULE

<b>Structures and site works</b>	Continuing
<b>Recycled water main</b>	September / October 2010
<b>Mechanical installation</b>	October 2010
<b>Electrical installation</b>	January 2011
<b>Plant commissioning</b>	June 2011

It is anticipated that the new wastewater treatment plant will be operating by the end of 2011 with balance of works complete by mid 2012.

## MORE INFORMATION

A database of email addresses has been established in order to keep those interested up to date with the activities on site. If you would like to receive regular updates and general information relating to the project via email, please forward your email address to [birdinhand@sawater.com.au](mailto:birdinhand@sawater.com.au).

If you have any questions about the project please contact us:

- **Phone** – the SA Water Customer Contact Centre on **1800 812 362**;
- **Email** [birdinhand@sawater.com.au](mailto:birdinhand@sawater.com.au)

For information on this and other SA Water projects log on to [www.sawater.com.au](http://www.sawater.com.au)

