Appendix 11 – Feedback form

Rosehill Recycled Water Scheme – Feedback Form

Community feedback is an important part of the environmental assessment process. Please provide comments on the material you have viewed and feedback about the proposed recycled water scheme.

All feedback will be collated to form part of the environmental assessment report that Alinta will lodge with the Department of Planning. The information you provide will be handled confidentially and individuals will not be identified through the reporting process, in accordance with the Alinta Privacy Statement. The information will be used for the purpose of this project only.

1. **Having attended the consultation session how strongly do you AGREE or DISAGREE with each of the following statements?** (please tick)

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a) My knowledge about the proposed recycled water scheme has improved	☐	☐	☐	☐	☐
b) My understanding of the environmental and social impacts associated with the proposal has improved	☐	☐	☐	☐	☐
c) I think it is appropriate to supply recycled water for industry and irrigation use to help to reduce pressure on Sydney's drinking water supply	☐	☐	☐	☐	☐
d) I think that private sector involvement and competition in the water industry will lead to better provision of water services	☐	☐	☐	☐	☐

2. **What key issues need to be further addressed through the environmental assessment process?** (for example: noise, traffic, vibration, flora and fauna etc)

3. **How much of an impact do you think the construction and operation of the scheme will have on you and your daily life?** (please tick)

☐ High impact ☐ Medium impact ☐ Low impact ☐ No impact ☐ Not sure

4. **If you think the scheme will have an impact on you and your daily life during construction or operation, please explain how you think you will be affected?** (please be as specific as possible)

5. **Do you have any specific information or knowledge about your local area which you think the project team should be aware of?** (please describe)

6. **The project team is aware that the community will be temporarily inconvenienced during construction and want to ensure that disruption is minimised. How could the project team best work with you to minimise the impact of construction?**

7. **Do you have any other comments or feedback?**

8. **Which best describes you? (Please tick one or more where appropriate)**

☐ Resident/property owner from ..... *(street name)*, ... *(suburb name)*

☐ Employee or business owner from ..... *(street name)*, ... *(suburb name)*

☐ Representative or member of a community organisation ..... *(name of group)*

☐ Other ..... *(please specify)*

9. **How did you find out about this consultation session?**

☐ Newsletter in my mailbox

☐ Advert in local paper..... *(paper name)*

☐ Friend or neighbour

☐ Other ..... *(please specify)*

10. **Contact details** (optional). **If you would like to receive updates about the planning and construction process, please provide your contact details**:

Name

Postal address

Email

Please place your feedback form in the box provided. Alternatively, if you would like more time to consider your response, **please return the completed form by 28 April 2008** using the reply paid envelope provided. Forms can also be emailed to consulting@elton.com.au or faxed to (02) 9387 2557 (please fax both sides of the form).

For more information about the proposed Rosehill Recycled Water Scheme, please call the project team on 1800 118 835 or visit the website: www.rosehillrecycledwaterscheme.com.au.

If you wish to make additional comments please attach an additional page to this form

Thank you for your interest in the scheme and your valuable feedback

Appendix 12 – Story boards

Rosehill Recycled Water Scheme

Alinta

Introduction & welcome

WELCOME!

Welcome to this community information and feedback session regarding the proposed Rosehill Recycled Water Scheme.

The Rosehill Recycled Water Scheme will take pressure off Sydney's drinking water supplies by providing an alternative water source for industry and irrigation in western Sydney.

The purpose of this consultation session is to provide you with an opportunity to learn more about the proposal from information displays, meet with members of the project team and provide feedback for consideration during the environmental assessment process.

The Alinta LGA Limited group (Alinta) is delivering the scheme on behalf of AquaNet Sydney.

Alinta is one of Australia's leading utility infrastructure companies and would build and operate the recycled water distribution system, the storage reservoirs and the pumping stations.

Veolia Water Australia, a world leader in water services, would build and operate the water recycling plant.

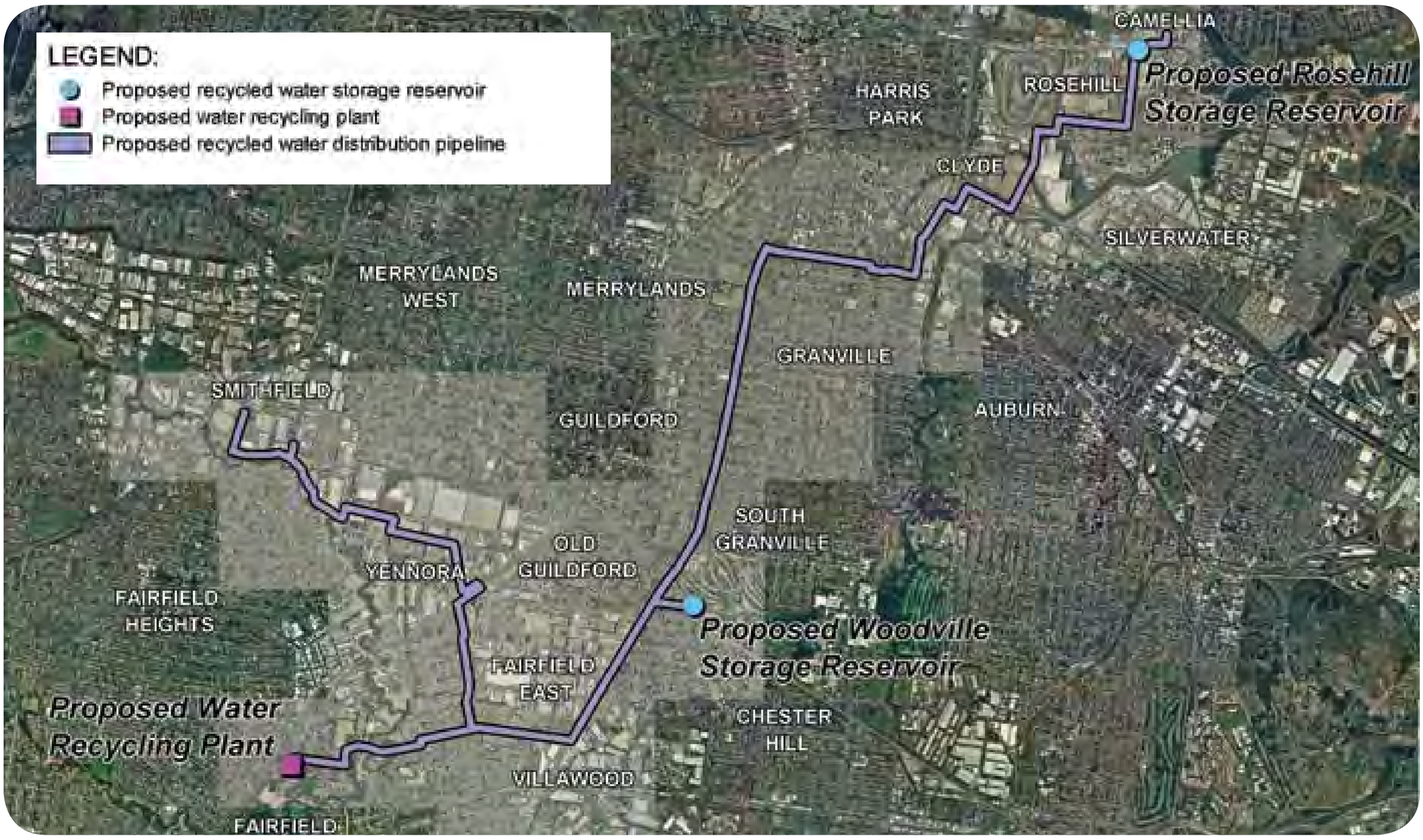
Alinta has assembled a team of specialist consultants from Parsons Brinckerhoff and Elton Consulting to assess the environmental impact of the proposal.

Members of the project team are available today to talk about the proposal, answer any questions and receive feedback for consideration during the environmental assessment.

Feedback forms are available for you to provide comments to the project team.

You can either place your form in the box provided, or use a reply paid envelope to post feedback.

The closing date for feedback is 28 April 2008.



DRAFT FOR CONSULTATION

Project overview

The proposed Rosehill Recycled Water Scheme involves the construction of a new water recycling plant and distribution system to supply highly treated recycled water to 13 key industrial customers in western Sydney.

These customers use large amounts of water for industrial purposes and outdoor landscape irrigation.

Customers include:

- Rosehill Gardens
- Bassell Australia
- Boral
- James Hardie
- Visy Paper
- Marubeni Australia Power Services.

Recycled water will not be supplied to residential properties for drinking, cooking, gardening or other household uses.

The proposal has been designed to deliver recycled water to key industrial and irrigation customers in a cost effective way while minimising potential impacts on the community and the environment.

Recycled water is water that has been used and is then treated and supplied for reuse.

The proposed scheme involves the construction of:

- A water recycling plant on the corner of North Street and East Parade in Fairfield
- A 20 kilometre recycled water distribution network which includes the conversion of five kilometres of isolated gas mains to water pipes
- Two recycled water storage reservoirs at the Woodville Golf Course, off Barbers Road in South Granville and off Durham Street in Rosehill
- Two pumping stations, one at the water recycling plant in Fairfield and the other off Durham Street in Rosehill.

The water recycling plant would use advanced technologies to filter partially treated wastewater and produce more than seven billion litres of recycled water each year.

The proposed location for the water recycling plant off North Street in Fairfield

The proposed location for the Woodville storage reservoir at Woodville Golf Course off Barbers Road in South Granville

Marubeni Australia Power services and Visy Paper in Smithfield would be two of the customers that would use the recycled water

Strategic context

"Water is our most precious resource. Meeting Sydney's water needs depends on a continuing partnership between the community, industry, businesses, farmers and the Government to use water wisely"

The NSW Premier,
2006 Metropolitan Water Plan.

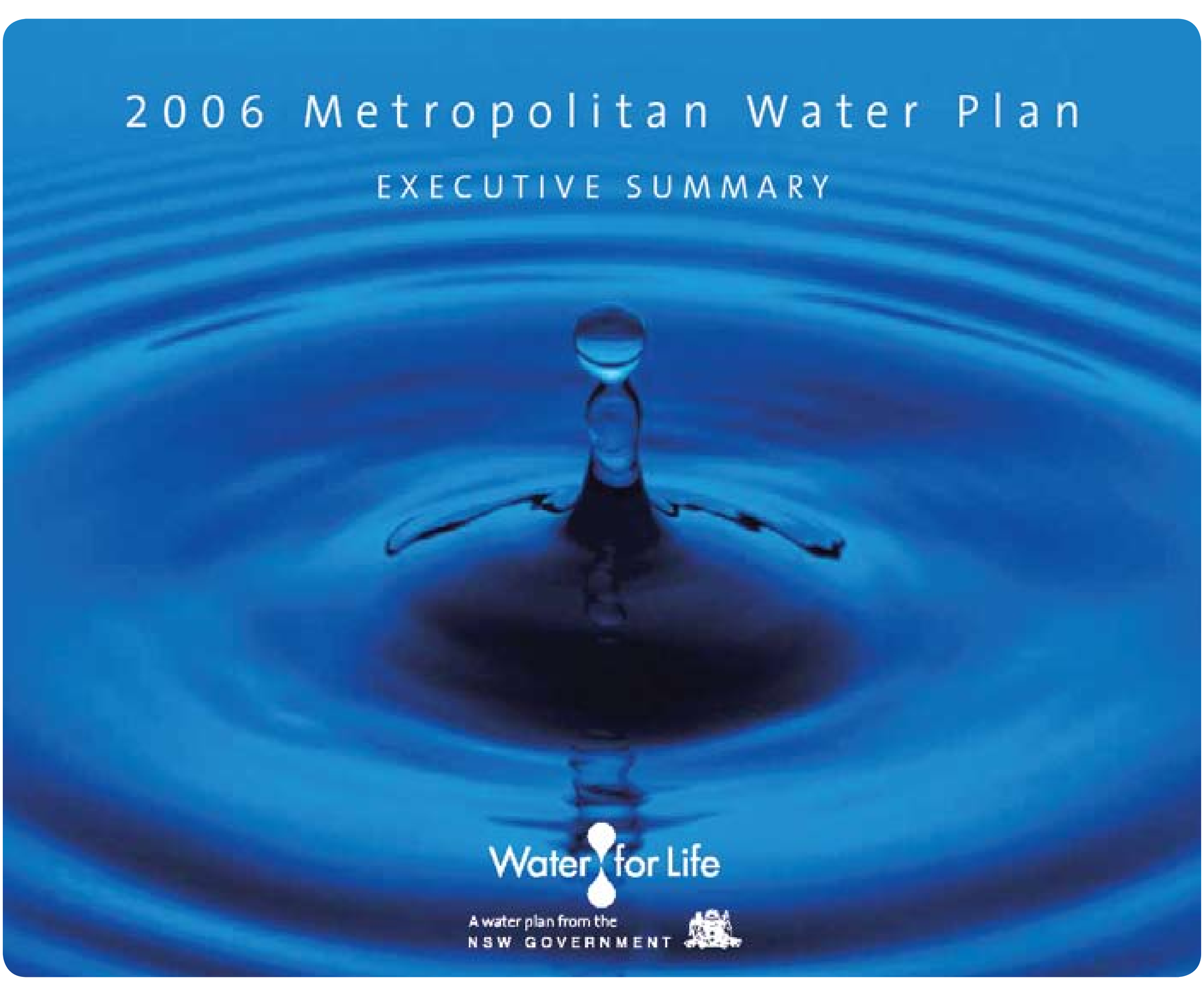
Water is becoming an increasingly scarce resource that needs to be carefully managed.

The NSW Government's *Metropolitan Water Plan* presents a framework for sustainable water management in Sydney. To provide for long term water security, the plan promotes water recycling as one way of reducing demand for drinking water. It outlines the NSW Government's target to provide 70 billion litres of recycled water per annum by 2015 across the Sydney region.

The proposed Rosehill Recycled Water Scheme is an innovative response to the *Metropolitan Water Plan* and would reduce demand for Sydney's drinking water through the supply of recycled water to customers for industrial use and irrigation.

The proposal would be one of the largest privately operated recycled water schemes in NSW.

The Rosehill Recycled Water Scheme is consistent with a number of government policies that aim to promote sustainable growth and development within Sydney, and ensure long term water security.



Planning process 4

The proposed Rosehill Recycled Water Scheme is classified as a major project under *State Environmental Planning Policy (Major Projects) 2005* and requires approval from the NSW Minister for Planning under Part 3A of the *Environmental Planning and Assessment Act 1979.*

The proposal will be considered by the NSW Department of Planning through a streamlined and integrated development assessment process that includes referral to, and consideration by, relevant local councils and other government agencies.

Detailed environmental assessment is currently being undertaken to support a project application that will be lodged with the Department of Planning in mid 2008.

The Department of Planning will place the environmental assessment on public display and the public will have the opportunity to make submissions that will be considered during the assessment process.

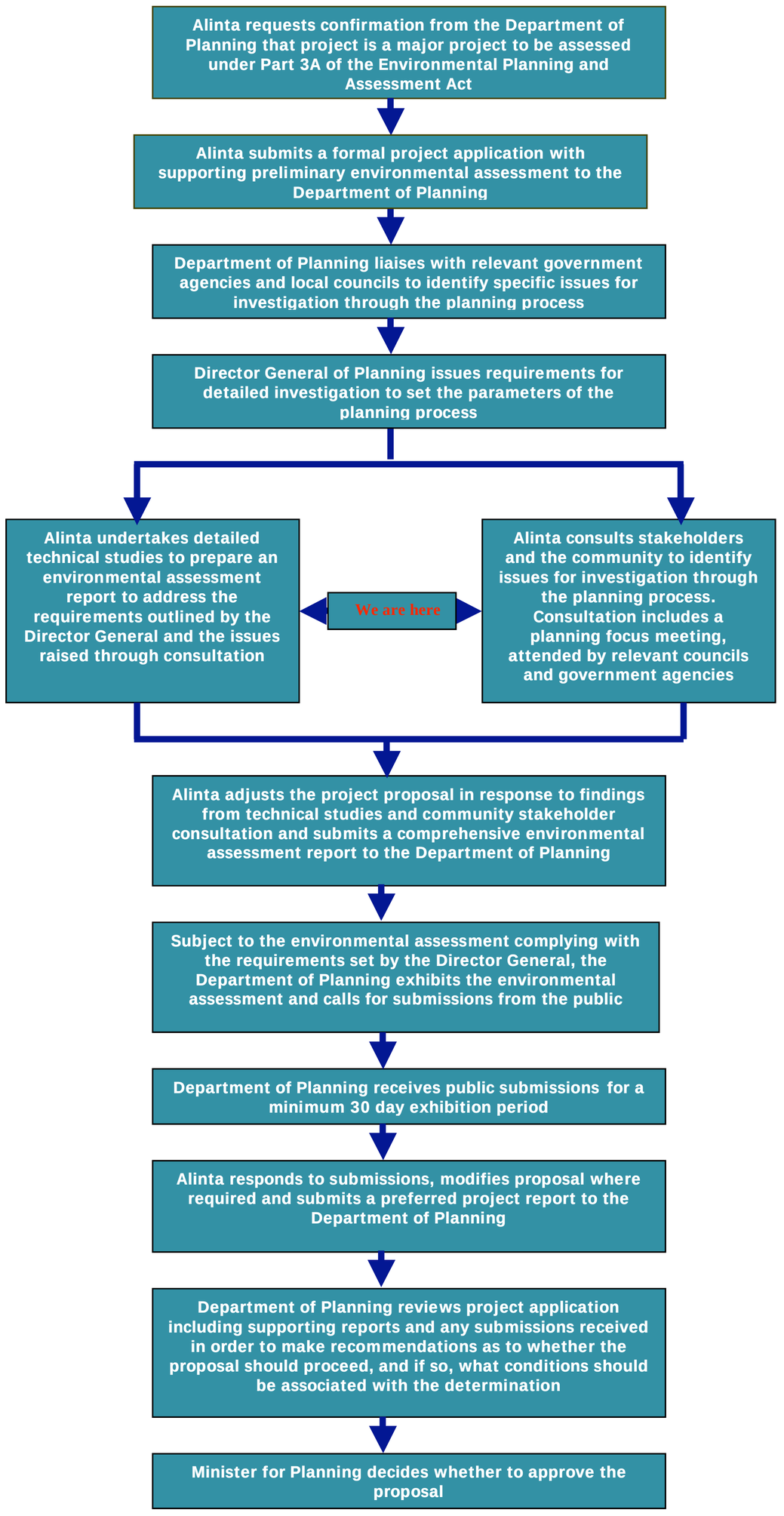
Licensing of the scheme is required under the *NSW Water Industry Competition Act 2006.*

The Water Industry Competition Act 2006 (WICA) promotes private sector competition and new investment and innovation in the metropolitan water industry. When it comes into effect, WICA will enable the delivery of the Rosehill Recycled Water Scheme by the private sector.

An application will be lodged under WICA to:

- Construct and operate a distribution network for recycled water
- Construct and operate a water recycling plant

Licences will be granted by the NSW Minister for Water Utilities.



Water recycling plant 5

A water recycling plant, pumping station and recycled water storage reservoir are proposed to be located on a 1.2 hectare parcel of unused land adjacent to the Fairfield Storm Sewage Treatment Plant.

The land is owned by Sydney Water and is zoned for water infrastructure.

Veolia Water is the world leader in water services and will construct and operate the water recycling plant.

The water recycling plant would have a maximum output of 25 megalitres/day. The proposed plant has been sized to meet the existing demand for recycled water and provide for the potential future expansion of the scheme.

Proven technologies would be used to filter partially treated wastewater delivered to the plant from the Liverpool to Ashfield pipeline.

The Liverpool to Ashfield will carry treated wastewater away from sewage treatment plants in western Sydney to the ocean outfall on the coast. The treated wastewater will have most of the impurities removed and therefore will not smell.

The treatment processes would include chemical coagulation, membrane filtration including ultrafiltration and reverse osmosis, pH correction and disinfection.

No odours would be released from the proposed water recycling plant. The wastewater delivered to the plant from the Liverpool to Ashfield pipeline would be odourless and held in roofed or sealed tanks.

All wastes from the recycling process would be discharged directly to the existing sewer system.

Landscaping would be established around the water recycling plant to minimise the visual impact of the infrastructure on the local area.

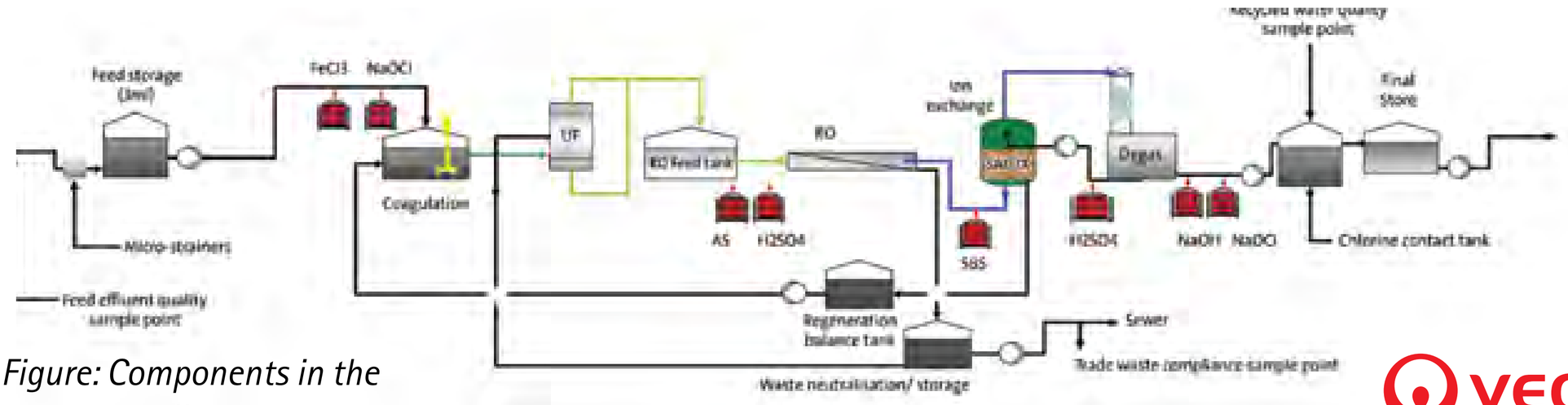


Figure: Components in the water recycling treatment process

Proposed location of the water recycling plant

A photmontage presenting a view of the water recycling plant from North Street (once constructed)

DRAFT FOR CONSULTATION

Distribution system and route 6

A 20 kilometre network of pipes would distribute recycled water from the treatment plant to key industrial and irrigation customers in the Rosehill and Smithfield areas.

The recycled water distribution network would pass through fifteen suburbs in the Fairfield, Bankstown, Holroyd and Parramatta local government areas.

The pipes would be installed underground along suburban streets and under major roads, including Woodville Road and Parramatta Road, and through areas of open space, including Fairfield Park and the Prospect Creek corridor.

It is proposed to use existing, but isolated, gas mains to install the pipes under Woodville Road. This would minimise disturbance to the road surface and would help to minimise traffic delays associated with construction works.

The proposed pipeline would follow existing cleared roadways in Fairfield Park

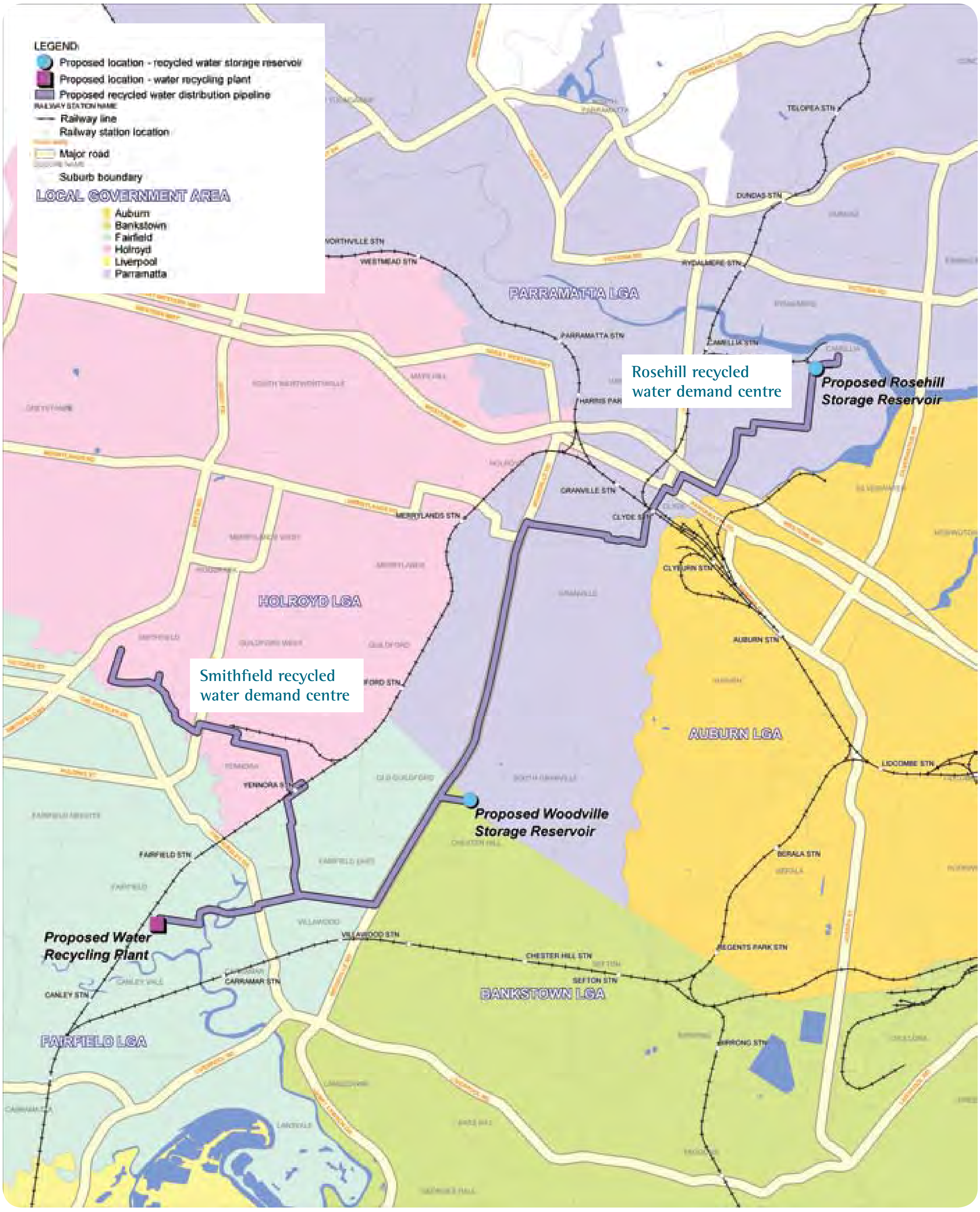
Devon Street in Rosehill – the route of the proposed pipeline goes through the Rosehill industrial area

The pipeline route has been identified after detailed survey work and is preferred because it:

- Minimises impacts on major public infrastructure, including arterial roadways and places of special interest like schools and hospitals
- Minimises impacts on environmentally sensitive areas, including waterways and bushland
- Minimises overall impacts on residents and businesses along the route and disruption to the general public
- Minimises impacts on other services including power and telecommunications cables and water and wastewater pipelines
- Provides for safe, efficient and cost effective construction and operation.

The proposed distribution pipeline would be installed inside an existing, but isolated, gas main along Woodville Road from Villawood to Granville

Distribution system and route 7



An overview of the Rosehill Recycled Water Scheme

Distribution system and route 8

A detailed map showing the proposed route of the recycled water distribution network from Fairfield to Yennora and Smithfield

Distribution system and route 9

A detailed map showing the proposed route of the recycled water distribution network from Villawood to South Granville

Distribution system and route 10

A detailed map showing the proposed route of the recycled water distribution network from Granville to Clyde South

Distribution system and route 11

A detailed map showing the proposed route of the recycled water distribution network from Clyde to Camellia

Construction process 12

Prior to construction a comprehensive management plan would be prepared.

The plan would ensure that construction is managed to minimise disruptions to:

- Environmentally sensitive areas
- Residents and businesses along the route
- The general public.

A number of construction techniques are proposed including:

- Open trenching
- Pipe bursting
- Horizontal directional drilling
- Case boring.

The distribution pipes would generally be installed below ground under footpaths, nature strips and roadways. Trenches for the pipeline would be dug by an excavator or a trenching machine. After the pipes have been laid, the trench would be back filled and the surface restored.

Along Woodville Road it is proposed to 'burst' an existing, but isolated, underground gas main to install a new pipeline for recycled water. This would involve digging small pits at intervals along the road to access the isolated gas main.

Pipe bursting removes the need to dig long open trenches and would minimise disturbance to the road surface, which would help to reduce traffic delays associated with construction works.

To cross under rivers and creeks it is proposed that a hole be formed using a horizontal directional drill so that a pipe can be inserted and pulled through the hole without disturbing the watercourse.

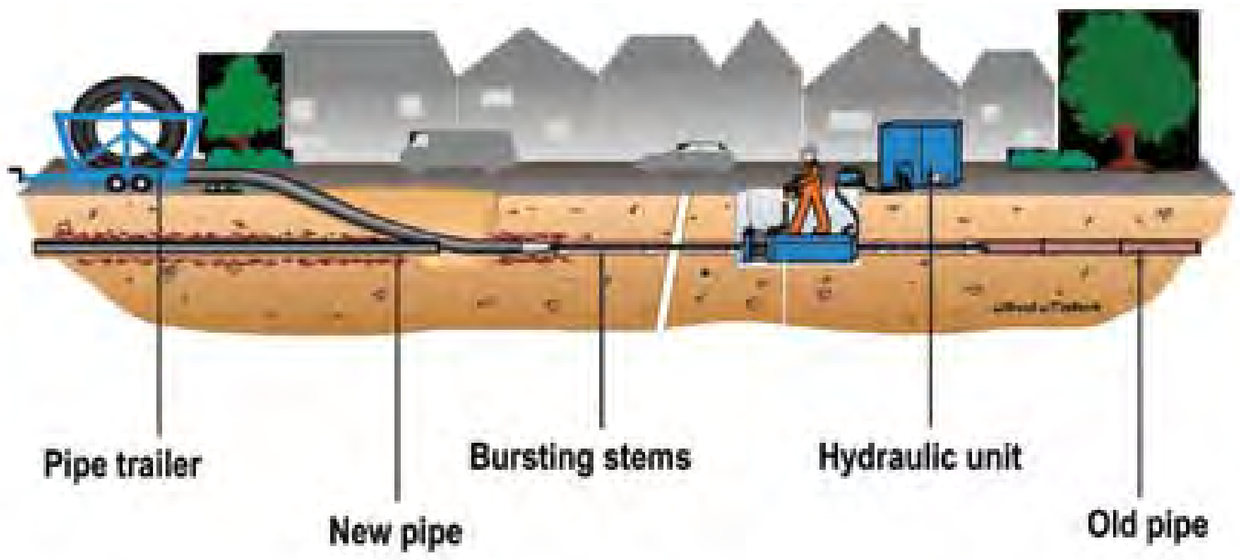
Horizontal directional drilling is proposed to cross under:

- Prospect Creek at Fairfield Park
- Duck River between Deniehy Street in Clyde and Shirley Street in Rosehill
- A minor tributary to Prospect Creek from Normanby Street to Crown Street in Fairfield East.

In a few instances it is proposed to build pipe bridges to cross over watercourses, including Duck Creek at Elizabeth Street in Granville.

Case boring is also proposed to install pipes underneath some major roads including The Horsley Drive, Parramatta Road and Fairfield Street and railway lines to minimise surface digging.

The scheme has been designed to minimise potential impacts to the environment and community by utilising isolated gas mains and low impact construction techniques wherever possible.



Components in the pipebursting process

A cased bore being use to install a pipe underneath a major roadway to minimise traffic disruptions

A trenching machine at work in a roadway

A pipe bridge would be constructed across Duck Creek at Elizabeth Street in Granville

A horizontal directional drill rig being used to drill a hole underneath a major waterway

The tip of a horizontal directional drill emerging on the other side of a waterway

Environmental Assessment 13

Environmental assessment is an important part of the planning process and is being undertaken to refine the proposal.

Specialist technical studies are currently under way to understand the potential environmental and social impacts of the proposal and identify appropriate mitigation measures. These studies include:

- Traffic and transport
- Noise and vibration
- Visual and odour
- Social impacts
- Flora and fauna
- Hazards and risk
- Waste management
- Water quality
- Visual amenity.

A detailed environmental assessment report will be submitted to the NSW Department of Planning in mid 2008 for assessment under the *Environmental Planning and Assessment Act 1979*. The environmental assessment will be placed on display and the public will have the opportunity to make submissions that will be considered during the assessment process.

Subject to approval, construction could commence in late 2008 and should continue for approximately two years. Recycled water would be available in early 2011.

Prospect Creek in Fairfield Park along the proposed pipeline route

Remnant bushland next to Taylor Street in Fairfield would be protected

Traffic and transport 14

The traffic and transport impact study assessed the likely traffic impacts during construction and operation of the scheme.

The study considered:

- Road and lane closures and associated impacts on road users and pedestrians during construction
- Restriction of vehicular and pedestrian access during construction
- Traffic impacts generated by additional traffic to construction sites
- The need for traffic management and detours during construction
- Recommendations for construction scheduling to reduce traffic impacts
- Long term traffic impacts generated by the operation of the scheme.

It is proposed to case bore under the following roads to reduce the impact of construction on traffic flows:

- The Horsley Drive at Tangerine Street in Fairfield
- Parramatta Road at Kendall Street in Granville
- Fairfield Street from Crown Street in Fairfield East to Ellis Parade in Yennora
- Grand Avenue from Durham Street in Rosehill to Thackeray Street in Camellia.

It is proposed to 'burst' the isolated underground gas main along Woodville Road from Tangerine Street in Villawood to Elizabeth Street in Granville to help minimise disturbance to traffic flows.

The proposed distribution pipeline would be installed underneath Fairfield Street from Crown Street in Fairfield East to Ellis Parade in Yennora using a cased bore to help minimise traffic disruption

Trenching works in a roadway

The proposed distribution pipeline would be case bored underneath The Horsley Drive from Gordon Street to Tangerine Street in Fairfield to help minimise disruption to traffic

Noise and vibration 15

Noise monitoring was undertaken near potentially affected residential properties along the proposed pipeline route, and near the proposed water recycling plant and reservoir locations.

Construction noise

The construction of the distribution pipeline in the road corridor would result in elevated noise levels at the closest properties. Noise disturbances would be expected for one or two days at any one location as construction progresses along the roadway.

Woodville Road would need to be partially closed to enable pipe bursting works. These works would need to be undertaken at night to minimise traffic disruptions. Night time noise disturbances may be experienced by properties close to the construction zone. Works would be expected for one or two nights at any one location as construction moves along the roadway.

A range of noise control measures would be implemented to reduce noise levels associated with construction works. Measures include using machinery with the lowest achievable sound power levels, and noise screening where appropriate.

Operational noise

The operational noise impact assessment determined that noise emissions from the proposed storage reservoirs at Woodville and Rosehill are unlikely.

The assessment determined that noise emissions may be generated from the water recycling plant at Fairfield. It is expected that infrastructure could be designed and operated to minimise noise levels to comply with government regulations.

Noise management options being considered include:

- Locating pumps away from sensitive receivers; like homes
- Installing solid noise barriers and screens around pumps and enclosing plant equipment
- Using high technology pumps and machinery with the lowest possible sound power levels.

Construction and operational vibration

The vibration assessment determined that vibration impacts would remain within reasonable levels and would not cause structural damage to properties around construction sites.

A pre-construction survey of the construction zones would be undertaken to enable any vibration related impacts arising from construction machinery to be identified.

Along busy roads, trenching work may occur at night to minimise disruptions to traffic

Visual and odour

Visual impacts

Construction of the distribution pipeline would cause temporary visual impacts while work is occurring. On completion of the works any roads affected would be restored and resurfaced and any parks affected would be revegetated.

The overall visual impact of the completed network would be minimal.

The proposed water recycling plant at Fairfield would have a visual impact as the existing open space at the corner of North Street and East Parade would be lost.

Existing large trees and shrubs would be retained to screen the plant from the houses on North Street.

Additional landscaping would occur to screen the houses on North Street from the recycling plant.

Odour

No odours would be released from the proposed water recycling plant.

The recycling process would use treated wastewater as a feedstock, not raw sewage. The wastewater is odourless and would be stored in roofed or sealed tanks.

All wastes from the recycling process would be discharged directly to the existing sewer system in the area.

A photomontage presenting a view of the Woodville resevoir (once constructed)

Proposed location of the water recycling plant (before)

A photomontage presenting a view of the water recycling plant from North Street (once constructed)

A temporary restoration being carried out for a trench in a roadway

The final restoration of a trench in a roadway

Social impacts

A social impact assessment is being undertaken to gauge the potential social effects associated with the proposal.

The assessment will consider impacts to individuals, businesses and the wider community along the pipeline route, around sites of the proposed reservoirs at Woodville and Rosehill and near the water recycling plant at Fairfield.

The social impact assessment will use information from technical studies that have been undertaken for the environmental assessment, such as construction methods, traffic impacts, noise, vibration and heritage impacts, as well as demographic data, technical information about the recycling process and findings from the community consultation.

Alinta would like to receive any information you have on how you think the proposal would affect you and your daily life during its construction or once it begins operating.

Some impacts may include traffic changes, limitations to access to your home or business or other activities, noise and vibration.

The proposed route for the distribution pipelines passes TAFE NSW South Western Sydney Institute on Elizabeth Street in Granville

The proposed route for the distribution pipeline passes the Granville Multicultural Centre in Factory Street in Granville

The distribution pipeline would be installed underneath the rail line near Yennora Station using a cased bore

Flora and Fauna

The biodiversity study found that the proposed scheme would be constructed and operated in a highly modified urban landscape with limited areas of native vegetation and habitat.

The proposal requires clearing of approximately 0.6 hectares of native vegetation which contain some species from two threatened ecological communities.

In order to maintain or improve biodiversity values, all impacts associated with land clearing would be mitigated or offset in the following ways:

- Rehabilitating all affected areas to a similar or improved condition through the planting of native plants, mulching and control of weeds
- Placing bat boxes and salvaged small hollows in trees within Fairfield Park and between Taylor Street and the water recycling plant at Fairfield
- Replacing removed mature eucalyptus trees with semi-mature trees within Fairfield Park and between Taylor Street and the water recycling plant at Fairfield
- Adjusting the proposed pipeline alignment through detailed design to avoid habitat trees and other sensitive vegetation.

The study also found:

- There is no critical habitat defined with in the proposal area
- There are no threatened species likely to become extinct as a result of the proposal
- There are no matters of national environmental significance identified within the study area that would be directly affected by the proposal
- The potential impacts to flora and fauna were not assessed as significant.

Trenching works through a public park

The park following the completion of construction and restoration works

Fairfield Park along the proposed route of the pipeline has a high biodiversity conservation significance

Hazard and risk

Hazard and risk assessments were undertaken at the reservoir and water recycling plant locations and along the proposed pipeline route.

Asbestos contamination was found in the soil at the proposed water recycling plant site in Fairfield.

It is proposed to remove the asbestos contamination and replace it with clean fill before construction of the water recycling plant commences. The asbestos handling procedure would comply with government requirements.

Small trial pits were dug along the route of the pipeline to test the soil and identify if any contaminated materials were present.

Low levels of industrial chemicals were found in the soil below Durham Street and Grand Avenue in Rosehill.

A management plan would be implemented to ensure contaminated waste removed during construction is disposed of in accordance with government requirements.

No other contamination or hazardous materials were identified through testing along the route of the distribution pipeline.

A safety inspection occurring on an Alinta work site

Consultation 20

Community consultation is an important part of the environmental assessment process.

Community feedback from this consultation session will be used to inform the environmental assessment and will help to identify potential environmental, social and economic impacts associated with the proposal.

Local knowledge and feedback from the community, businesses and other stakeholders will help us to identify possible design, construction or operational measures that could mitigate impacts associated with the proposal.

A number of activities are proposed to ensure the community is kept well informed throughout the construction process.

Activities proposed include:

- Publishing public notices in local papers
- Distributing a series of newsletters to properties affected by the proposal
- Issuing notifications to houses and businesses before and after construction in specific areas.

A website has been established for the proposed scheme and will be regularly updated with news and information about the scheme. For more information about the scheme visit:

www.rosehillrecycledwaterscheme.com.au

Local knowledge and feedback from the community will help Alinta to identify measures that could mitigate impacts associated with the proposal

Consultation sessions are being held to get feedback from the community to help with the environmental assessment and guide detailed design

Residents and businesses would be able to speak to the team before construction starts in their street

Next Steps

Thank you for attending today.

We want to hear your views.

Please complete the feedback form and place in the box provided or by mail in the reply paid envelope supplied. You can also provide feedback on the website displayed below.

Your comments will be independently collated by Elton Consulting. All issues raised through consultation will be documented as part of the environmental assessment.

Please complete the attendance register so that information in relation to the number of people who have attended can be documented.

Privacy

Any personal information collected by us will be collected, stored and used in accordance with our Privacy Statement. By providing input, you consent to us collecting and using any personal information you provide in accordance with the Privacy Statement. The information you provide will only be used for the Rosehill Recycled Water Scheme.

If you would like a copy of our Privacy Statement, please ask one of our representatives or visit our website.

Once the environmental assessment report has been lodged, the Department of Planning will coordinate a public exhibition and call for submissions.

Alinta will then respond to issues raised in submissions before the Minister for Planning can determine whether or not to approve the proposal.

People who make a submission will be notified by the Department of Planning once a determination has been made.

Thank you very much for your contribution today. Alinta look forward to receiving your feedback and comments.

For further information and updates on the scheme visit the project website www.rosehillrecycledwaterscheme.com.au