

PROPOSED MODIFICATIONS TO THE ROSEHILL RECYCLED WATER SCHEME

Major Project Application No: 07_0121

Proposed Project Modifications

The proposed modifications to the Rosehill Recycled Water Scheme are described briefly below.

Modification 1 – Fairfield Park to Woodville Road route modification

This proposed modification would involve the deviation of approximately 2.2 km of the recycled water pipeline along Landon St and Malta Street from Fairfield Park, Fairfield to Woodville Road, Villawood. The current (approved) alignment follows Tangerine Street between these locations. The proposed alignment change is shown in maps D-000029 and D-000030 (attached).

Proposed construction methods such as thrust boring, horizontal directional drilling, and pipe bridges would be adopted for the watercourse and major road crossings to minimise disturbance. The proposed alignment change would avoid construction in Gordon Street, The Horsley Drive and Tangerine Street, which are important local and regional roads subject to high traffic volumes. Tangerine Street also features bus routes/stops and some small retail businesses.

AquaNet is of the opinion that the proposed alignment change would result in less overall disruption to the surrounding community during the construction period. Fairfield City Council has indicated informal concurrence to the proposed alignment modification.

The proposed alignment change would see increased construction within the riparian corridor of Prospect Creek through Fairfield Park and Burns Creek adjacent to Malta Street. In addition, the Liverpool to Ashfield Pipeline was constructed along this same alignment within that last few years.

Modification 2 – Transformers at the Fairfield water recycling plant

The approved project included the construction of 2 x 1500 kVA and 1 x 500 kVA transformers at the water recycling plant at North Street, Fairfield. This combination was included in operational noise modelling and compliance assessment in the Preferred Project Report for the project. The modelling predicted that the predominant contributor to operational noise levels would be the pumping station and that the transformers would make little overall contribution to operational noise emissions. A commitment was made to provide solid façade walls to attenuate noise from the pump equipment and achieve compliance with operational noise goals.

It is now proposed to construct 3 x 1500 kVA transformers at this site, to provide some redundancy of the pumping station operation. It is anticipated that this change will have no overall effect on operational noise.

Condition 2.5 of the project approval conditions outlines noise compliance goals for project. In addition, the Statement of Commitments in the Preferred Project Report (specifically commitments 28, 29 and 30) outlines commitments to operational noise compliance at the water recycling plant. As such, AquaNet believe that as long as the project approval conditions and the project commitments are met, no formal assessment of the modification is required.

Modification 3 – Maximum height the surface facilities at the water recycling plant

Table 1 in condition of approval 2.37 outlines height limits for the various surface structures at the water recycling plant at North Street, Fairfield. The height limits quoted make provisions for access ladders and 1.2m high safety rails on all the structures.

The current plant design features access ladders and 1.2m high safety rails on all the structures except the filtration building. The filtration building will not have ladders and safety rails but will have ventilation apparatus on the roof. The 18.4 m AHD height outlined in earlier correspondence with the Department and quoted in the project approval conditions will be the maximum on the building and associated features.

The current wording of the relevant approval condition may lead to interpretation issues. In order to avoid such issues, it is requested to change the wording of the column heading of the third column in Table 1 to:

'Height Limit (including any access ladders, safety rails, roof ventilation apparatus etc)'

No modification to height limits in the approval instrument is proposed.

Modification 4 – Water recycling plant sewer connection line

The alignment of the proposed pipeline to connect the water recycling plant to a suitable location on the existing sewer system was described in the Environmental Assessment. The connection line may require further assessment and inclusion in the project approval.

As described in the Environmental Assessment, the waste stream from the water recycling plant will be discharged into a sewer main. The waste will be discharged under a trade waste agreement that has been negotiated between Sydney Water and Veolia.

The land through which the connection line would traverse between the plant and the sewer connection point is vested with Sydney Water. Consultation has occurred between AquaNet and Sydney Water regarding the connection line and an appropriate alignment proposed (see plan D-000002 attached). The land that would be affected includes the following lots:

- Lot 18 Section 1 DP2728
- Lot 17 Section 1 DP2728
- Lot DP439278
- Lot 1 DP569683
- Lot 1 DP611366
- Lot 1 DP650257
- Lot 5 DP11959

The land affected is a mixture of landscaped lawn featuring exotic grass species and a section of vegetation approximately 3m wide beside an internal access road in the site of the Fairfield Storm Sewage Treatment Plant. This section of vegetation features planted *Casuarina spp.* and significant weed infestation.

Affected Lands & Landowner Consent

Early consultation occurred with the Department of Planning with respect to landowner consent required to lodge the application for this project. Featuring in these discussions were the facts that:

- the distribution pipeline would be linear infrastructure and
- the works would be subject to a network operators licence under the *NSW Water Industry Competition Act 2006*, which gives specific powers to construct within public roads and public reserves.

The Department advised that no consent to lodge would be required for the distribution pipeline. However, landowner consent to lodge the project application would be required for the sites where aboveground infrastructure would be required. The only aboveground infrastructure affected by the current modifications is the water recycling plant at North Street, Fairfield.

A network operator's licence has been granted to SPI Rosehill Networks Pty Limited covering construction and operation of the recycled water distribution network and associated facilities. Specifically, the licence gives the holder powers to construct infrastructure within public roads and public reserves. The approved distribution pipeline route and the proposed modification have both been placed in public roads and reserves. As such, landowner consent is not required for these works. In addition, the distribution pipeline would be classified a 'linear infrastructure' in accordance with clause 8F of the *NSW Environmental Planning and Assessment Regulation 2000*. As such, no landowner consent is required in order to lodge the request to modify application with respect to the any proposed changes to the distribution pipeline.

The land for the water recycling plant at North Street, Fairfield (Lots 7 – 16, Section 1, DP 2728) has been purchased from Sydney Water Corporation and is vested with SPI Rosehill Networks Pty Ltd, a division of Jemena Limited. As AquaNet Sydney is also a division of Jemena Ltd and Mr Colin Thompson, the signatory on the project modification request, is authorised to act on behalf of SPI Rosehill Networks Pty Ltd in this matter. As such, no formal landowner consent is required in order to lodge this project modification request with respect to the water recycling plant and associated lands.

Sydney Water have provided consent to lodge the modification request regarding the proposed sewer connection line which traverse Sydney Water.



Rosehill Recycled Water Project
 Proposed Route Modification - Map 1
 Doc No: D-000029 Rev: 1
 Date: 18/06/09
 Size: A4

Mod 1



Rosehill Recycled Water Project
 Proposed Route Modification - Map 2
 Doc No: D-000030 Rev: 1
 Date: 18/06/09
 Size: A4





Rosehill Recycled Water Project
 Water Recycling Plant Sewer Connection
 Aconex Doc No: D-000002 Rev: 1
 Date: 18/08/09 Size: A4

Mod 4