

# Environmental Assessment of the modification to the Camellia and Rosehill Recycled Water Project

March 2010

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**Jemena Asset Management Pty Ltd**

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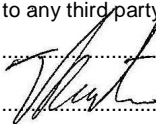


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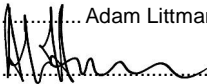
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Appendix E

Revised biodiversity impact assessment

Appendix F

Owners Consents



# Glossary

Term or abbreviation	Definition
Approved Project EA	<i>Camellia and Rosehill Recycled Water Project Environmental Assessment</i> , Parsons Brinckerhoff. January 2009
AHD	Australian height datum
CEMP	Construction environmental management plan
DECCW	Department of Environment, Climate Change and Water.
DoP	Department of Planning
EA	Environmental assessment
EEC	Endangered ecological community
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
EPI	Environmental planning instrument
ESD	Ecologically sustainable development
Fairfield RWTP	Fairfield recycled water treatment plant
Fairfield SSTP	Fairfield storm sewage treatment plant
$L_{Aeq}$ (15 mins)	Equivalent sound pressure level over a 15 minute interval
$L_{A10}$ (15 mins)	Sound pressure level exceeded for 10 per cent of the time over a 15 minute interval
LEP	Local environmental plan
ML	Megalitre
PB	Parsons Brinckerhoff
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
PPR	Preferred project report
RTA	NSW Roads and Traffic Authority
SEPP	State environmental planning policy
SREP	Sydney regional environmental plan
STP	Sewage treatment plant
SWC	Sydney Water Corporation
TSC Act	<i>Threatened Species Conservation Act 1995</i>



# Executive summary

## What is the Rosehill Recycled Water Project?

The Camellia and Rosehill Recycled Water Project consists of the construction of a recycled water distribution network between Fairfield and Rosehill aimed at providing recycled water to large industrial water users. The Project also includes ancillary infrastructure including a water recycling plant, pumping stations and recycled water reservoirs at the Woodville Golf Course and within the industrial area of Rosehill. The project is an important component of the NSW Government's 2006 Metropolitan Water Plan.

The approved Project comprised the following major components:

- a connection to the Liverpool to Ashfield pipeline (LAP) — the source of feed effluent for the recycled water treatment process
- an RWTP, feed effluent storage tank, recycled water storage tank, pumping station and other equipment at North Street, Fairfield (known as the Fairfield RWTP)
- a distribution system, including:
  - an elevated surface reservoir at Woodville Golf Course on Barbers Road, Guildford
  - two surface reservoirs and one pumping station on the south-eastern corner of Durham Street and Grand Avenue, Rosehill
  - a distribution pipeline approximately 20 km long.

## What modifications are proposed to the approved Project?

This report has been prepared to support an application by the proponent, Jemena Asset Management Pty Ltd to modify the existing project approval for the Rosehill Recycled Water project and is intended to assist the Minister for Planning in forming a view as to the merits of the proposed modifications.

The Project modifications comprise the following components:

- modification to the route of the approved pipeline distribution system between Fairfield Park and Normanby Street
- modification to the approved electricity transformers associated with the Fairfield RWTP
- minor modification to the current wording of Condition of Approval 2.37
- inclusion of the sewer connection from the Fairfield RWTP to the SWC sewer line south of the RWTP
- modification to the elevated surface reservoir at the proposed Woodville reservoir site
- modification of the existing two elevated surface reservoirs at the proposed Rosehill reservoir site.

## Modification approval process

The development of land within NSW is controlled by various parts of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The Camellia and Rosehill Recycled Water project was assessed and approved under Part 3A of the EP&A Act as the proposed development comprised a wastewater treatment plant with a capital investment value of more than \$30 million. The Minister for Planning determined the application on 1 June 2009 subject to a number of Conditions of Approval. Section 75W (within Part 3A) of the EP&A Act allows for a proponent to request the Minister for Planning to modify an approval for a project. This modification EA has been prepared on behalf of the proponent to assess the proposed modifications and request the modification of the existing Project Approval No. 07\_0121 (refer to Appendix A).

## What are the key environmental impacts?

The Department of Planning has formally advised the scope of investigations required to be addressed for the proposed modifications. These include the following key issues:

- traffic and transport
- noise
- flora and fauna
- land use and parklands
- waste generation and management
- soil contamination
- water quality
- hazards and risk
- environmental risk analysis
- telecommunications
- consultation

The key environmental impacts would be similar to those associated with the approved Project. These impacts would generally be short term and associated with the construction stage. These impacts would include disruption to property access, construction noise and traffic congestion.

The longer term impacts of the project would also be similar to the approved Project and would generally comprise a change in the visual amenity experienced by some residences near the proposed recycled water treatment plant at Fairfield and at the Woodville reservoir.

# 1. Introduction

## 1.1 Project background

In December 2005, Sydney Water Corporation (SWC) issued a request for expression of interest for the Camellia Recycled Water project. In November 2007, AquaNet Sydney Pty Ltd (AquaNet — previously known as the AVA Consortium) was named as preferred tenderer for the project, which was renamed the Camellia and Rosehill Recycled Water project.

An environmental assessment for the Camellia and Rosehill Recycled Water Project (EA) for the construction and operation of a recycled water scheme between Fairfield, Smithfield and Camellia was prepared by Parsons Brinckerhoff (PB) in January 2009 on behalf of AquaNet and submitted to the Department of Planning (DoP). The EA assessed the potential environmental, social and economic benefits and impacts of the project.

After the EA was prepared, Jemena Asset Management Pty Ltd prepared and submitted a preferred project report (PPR) on behalf of AquaNet to the DoP in March 2009. The PPR detailed minor changes to the project as described in the EA, which related to the design and layout of the Fairfield recycled water treatment plant (Fairfield RWTP) and minor amendments to the proposed alignment of the distribution pipeline within North Street, Fairfield.

The Minister for Planning determined the application (No. 07\_0121) on 1 June 2009 subject to a number of conditions of approval.

## 1.2 Purpose of this modification application

This report has been prepared to support an application by the proponent, Jemena Asset Management Pty Ltd (Jemena) to modify the existing project approval for the Camellia and Rosehill Recycled Water project (the approved Project) and is intended to assist the Minister for Planning in forming a view as to the merits of the proposed modifications.

The application for modification has been prepared to:

- describe the changes to the existing project approval
- provide justification for the modifications and describe the alternatives considered
- consider relevant environmental planning instruments
- identify the conditions of approval that are required to be modified by this application
- provide a revised Statement of Commitments
- assess the environmental and community impacts of the modifications.

## 1.3 Modification approval process

The development of land within NSW is controlled by various parts of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The Camellia and Rosehill Recycled Water project was assessed and approved under Part 3A of the EP&A Act as the proposed development comprised a wastewater treatment plant with a capital investment value of more than \$30 million. The Minister for Planning determined the application on 1 June 2009 subject to a number of Conditions of Approval.

Section 75W (within Part 3A) of the EP&A Act allows for a proponent to request the Minister for Planning to modify an approval for a project. A modification is defined as meaning:

...changing the terms of a Minister's approval, including:

- (a) revoking or varying a condition of the approval or imposing an additional condition of the approval, and
- (b) changing the terms of any determination made by the Minister under Division 3 in connection with the approval.

After considering a modification request, the Minister for Planning may modify the approval (with or without conditions) or refuse the modification. This modification EA has, therefore, been prepared on behalf of the proponent to assess the proposed modifications (described in Section 2) and request the modification of the existing Project Approval No. 07\_0121 (refer to Appendix A).

The proposed modification does not include changes that would warrant additional approvals that were not considered within the previously approved EA.

### 1.3.1 Environmental assessment requirements

A request for four modifications to the approved Project was submitted to the DoP in correspondence from AquaNet Sydney Pty Ltd dated 21 August 2009. In response the DoP requested additional information to assess the proposed modifications (letter dated 14 October 2009). The main issues identified for investigation in this EA included:

- traffic and transport
- noise
- flora and fauna
- parklands
- waste generation and management
- soil and water quality
- hazards and risks
- telecommunications
- community and agency consultation.

This was subsequently amended to six proposed modifications in correspondence from Jemena dated 16 December 2009. This amendment to the request provided for the inclusion of the modifications to the two reservoirs at Woodville Golf Course and Rosehill.

Section 2 of this modification EA outlines the existing approved Project and the proposed modifications while Section 3 outlines the consideration of relevant environmental planning instruments.

Section 4 summarises the assessments for traffic and transport, noise, flora and fauna, waste generation and management, soil and water quality, parklands, hazards and risk and telecommunications. Community and consultation issues are considered in Section 5.

