

Beenleigh Wastewater Treatment Plant

Fact Sheet

Introduction

Located at Eagleby approximately 35kms south of Brisbane is the Beenleigh Wastewater Treatment Plant (WWTP). Originally constructed in 1967, it is the second largest of five wastewater treatment plants in Logan City.

The Beenleigh WWTP treats wastewater from Bethania, Waterford, Edens Landing, Windaroo, Mount Warren Park, Beenleigh, Eagleby and Yatala (Gold Coast City).

The plant has been progressively augmented in a number of stages.

Treatment Process

Beenleigh Wastewater Treatment Plant is a 3 stage tertiary treatment plant.

Primary Treatment

Physical treatment removes screenings and grit from the raw wastewater which is sent to landfill.

Secondary Treatment

The screened wastewater is then introduced to mixed liquor in bioreactors which contain micro-organisms and when aerated encourages organism growth and nutrient removal. This process is called Biological Nutrient Removal and is used to remove phosphorus, nitrogen and organic compounds. The mixed liquor then enters clarifiers separating the solids from the supernatant ready for tertiary treatment.

Tertiary Treatment

After clarification supernatant passes through micro-screens, further removing particles which are >30 microns. UV disinfection is then used to kill the remaining micro-organisms. This is the final treated effluent which then safely discharges to the Albert River.

Reclaimed Water

A portion of final effluent is reclaimed and sent to Stapylton Dam, Rocky Point Sugar Mill and water truck customers.

Sludge Dewater

Biosolids removed are dewatered and transported for beneficial re-use for land holders west of Toowoomba.

Capacity

Parameter	Value
Current average dry weather flow (2012)	12.5ml/day (46,000EP)
Maximum capacity	15ml/day (60,000EP)

Aerial view of Beenleigh Wastewater Treatment Plant

(319 Logan Street, Eagleby)



Wastewater and treated effluent



For more information

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