

# Horseshoe Bay

## WATER RECYCLING FACILITY



## Fast Facts

**LOCATION** » Corner AP John and Pollard Streets, Horseshoe Bay, Magnetic Island

**QUANTITY OF WATER TREATED** » 145kL per day

**TOTAL TREATMENT CAPACITY** » 643kL per day

**POPULATION COVERED** » Approximately 700 people

**SERVICE AREA** » Horseshoe Bay, Magnetic Island

**OPERATING HOURS** » 24 hours a day, seven days a week, 365 days a year

**NUMBER OF STAFF** » Six across all minor plants (Magnetic Island, Toomulla and Condon)

## About the facility

The Horseshoe Bay Water Recycling Facility first became operational in 2006. It uses a three-stage treatment process that allows it to reuse 100% of the wastewater through irrigation and on-site service water.

## What is the process for treating wastewater?

The facility uses biological nutrient removal and membrane filtration processes to remove solids, organic matter and nutrients from the sewage so it can be safe to reuse.

## Where is the wastewater discharged?

The treated wastewater is discharged in four locations:

- » Dry tropics irrigation
- » Sports field irrigation
- » On-site service water
- » Groundwater infiltration beds on site and at the sports field.

## How are other waste products used?

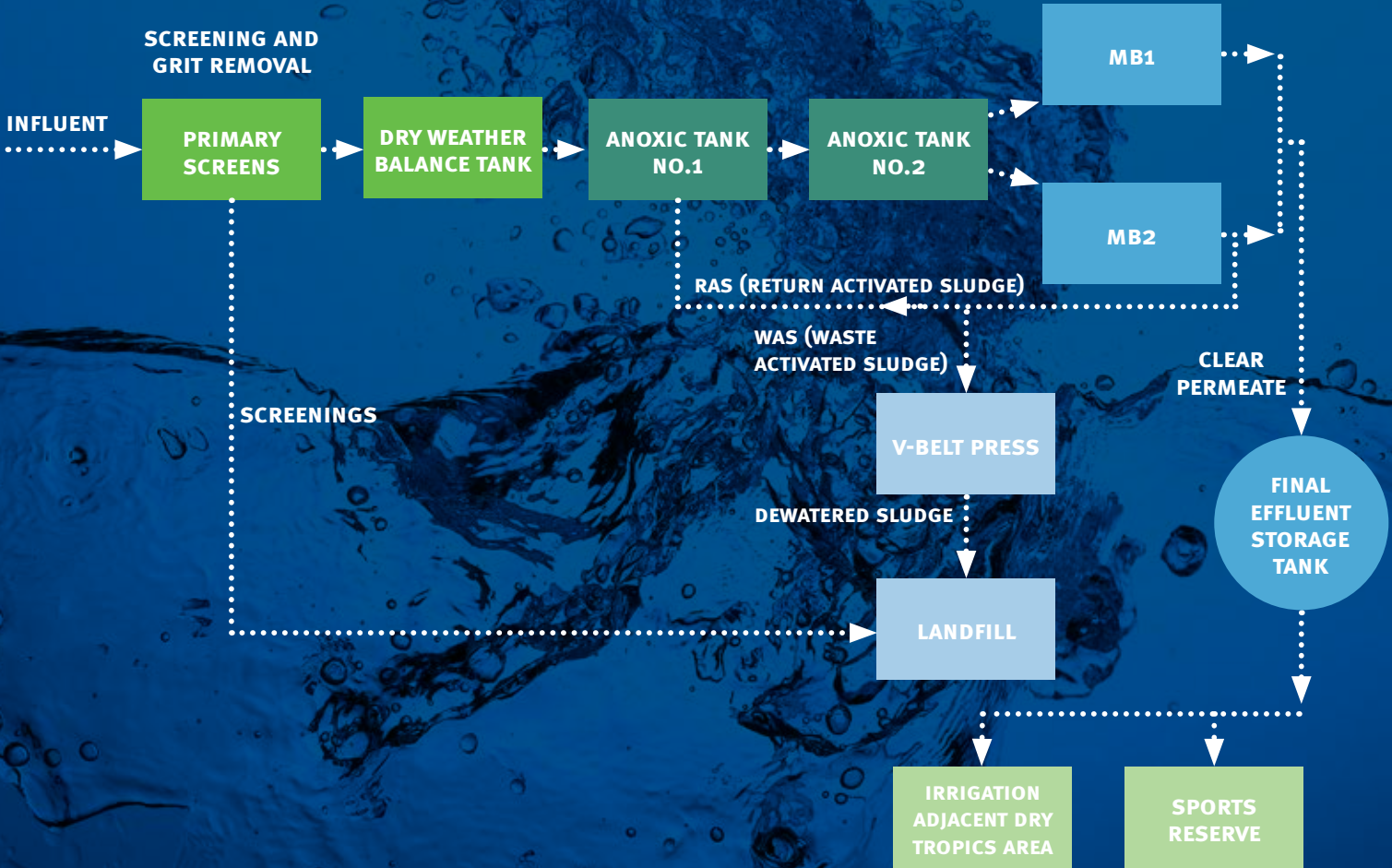
Bio-solids are currently disposed of at landfill while other options are investigated. These include installing a hotrock composting facility for green waste and bio-solids.

## How is odour managed at the facility?

Odours from the primary treatment areas are contained and controlled through an activated carbon filter.

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### Legend

- PRIMARY TREATMENT
- SECONDARY TREATMENT
- TERTIARY TREATMENT
- SLUDGE HANDLING

### OBSERVATIONS