

Client: After 3 ½ years of successful operation at Picnic Bay, Citiwater in conjunction with the Citiwater Water Matters Alliance selected a Kubota MBR system as the preferred option for a new Wastewater Treatment Unit at Horseshoe Bay of Townsville to meet the stringent discharge requirements.

sville

City

Solution

Council: A MLE Process utilising a Kubota MBR system was installed to meet low nitrogen, phosphate and pathogen limits. Alum was dosed to meet the low Phosphate requirements.

Alliance: Kubota membranes have a nominal pore size of 0.4µm and an absolute pore size of 0.01µm, which provides an absolute barrier to biomass,

Location: and pathogens retaining them within the process tank.

Horseshoe Bay,

Process Overview

The raw water first passes through a 3mm fine screen into a bioreactor. The bioreactor consists of 3 stages – two denitrification tanks,

Service: followed by the MBR tank. Filtration is achieved by drawing effluent through the surface of the flat sheet membranes under a gravity head. No suction pumps are required.

Greenfield site,

re-use: The effluent from the plant is reused to irrigate a dry tropical forest parkland or discharged to the Great Barrier Reef Marine Park.

Value:

-

Completion

Date:

2006