

# Mangawhai Community Wastewater Scheme

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## Delivering a sustainable future to the community of Mangawhai, New Zealand



TRILITY operated the Mangawhai Community Wastewater Scheme for the Kaipara District Council ensuring the future of the pristine estuary and marine environment across the coastal community.



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# The scheme pipes reclaimed water to a major storage facility and eliminates discharges from the township to the estuary and harbour.

Mangawhai is a popular beach resort located in a sensitive estuary and marine environment 1.5 hrs drive north of Auckland. The community identified a growing need to preserve the environment and waterways, and provide quality reclaimed water for pastureland.

The Mangawhai Community Wastewater Scheme includes the Mangawhai Wastewater Treatment Plant (WWTP) and reuse farm. The reclaimed water is pumped 11 km to a 180 ML storage facility, eliminating discharges from the township to the estuary and harbour. By treating the effluent the scheme has significantly reduced pollution nuisance in the surrounding farming and estuary areas. The recycled water is used to irrigate pasture land.

The TRILITY operators who managed the Mangawhai scheme were multi-skilled. In a single day, they were involved in the operation and maintenance of low pressure sewer reticulation, wastewater treatment and farm irrigation.

Having a locally based team was an important; they needed to be a visible part of the local community, and maintain good working relationships with all stakeholders.



## Who

The plant is operated under contract to the Kaipara District Council.

## What

The scheme provides services to 1250 homes in Mangawhai Township with capacity to service 4500 properties in the future through 21 kms of sewers, 15 pumping stations, and 6 kms of rising main.

## Where

Mangawhai is located in a sensitive estuary and marine environment 1.5 hrs drive north of Auckland.

## Why

To meet the growing needs of the region, preserve the environment and waterways and provide quality reclaimed water for pastureland.

## Snapshot

Client	Kaipara District Council in New Zealand
Type of Contract	Operations
Facilities	Wastewater treatment plant and networks
Technology	Sequencing Batch Reactor water reclamation plant
Design Capacity	3 ML/d
Term	10 years
Capital Cost	N/A