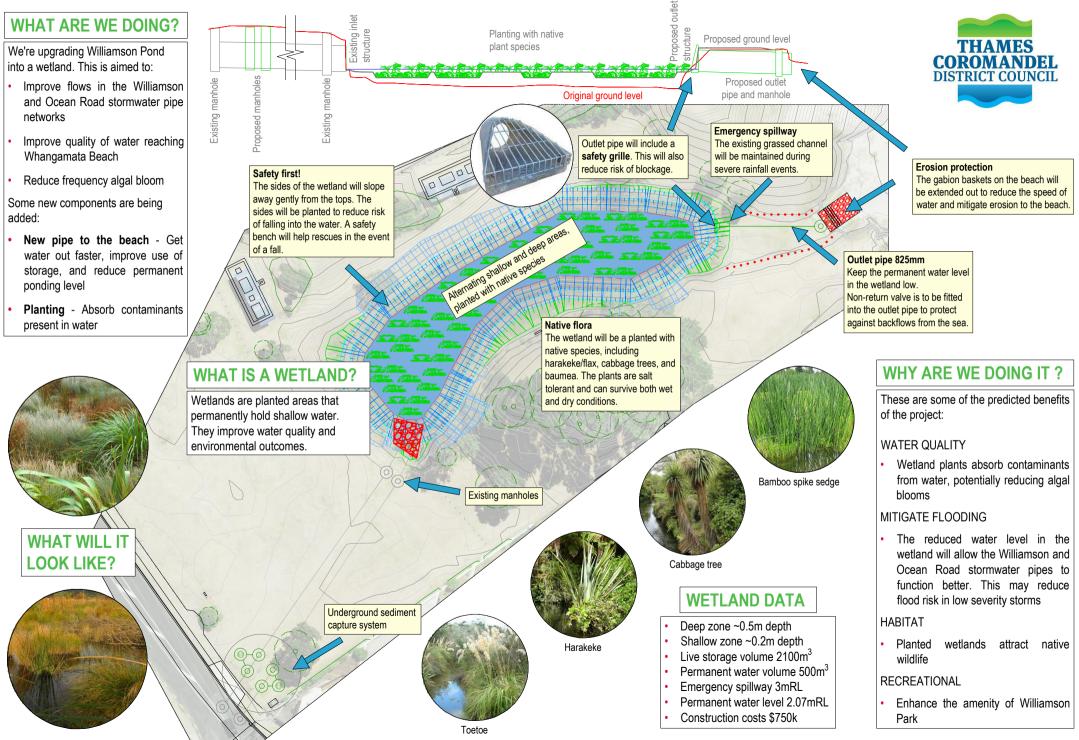
WILLIAMSON PARK POND UPGRADE



HOW WILL IT WORK?

- Water flows into the wetland through sediment capture devices. These pre-treat the water to reduce sediment entering the wetland.
- Water enters the wetland and flows over a rock bund to slow it down.
- Water slowly flows over alternating shallow and deep-planted areas. Plants absorb any contaminants present in the runoff.
- Under low flow conditions, water leaves the wetland through the outlet pipe onto Whangamata Beach.
- 5 Under high flow conditions, water flows out onto the beach via the emergency spillway (the same way as the existing pond).
- Flow passes over the gabion baskets, which slow down the speed of water and reduce erosion to the beach.

HOW WILL IT IMPACT FLOOD RISK?

The wetland is designed to:

- Improve flows in the Williamson and Ocean Road pipe networks in less severe rainfall events (1 in 5year probability event)
- Maintain flood volumes within the wetland area and minimise the risk of overtopping in more severe rainfall events (1 in 5year probability event)

All design rainfall events include an allowance for climate change-driven increases in rainfall intensity.

The wetland is designed to reduce **flood risk** to properties in Whangamata. It is unlikely to reduce localised **ponding**, such as small areas of water collecting in the road reserve.

ENVIRONMENTAL IMPACT

The wetland is anticipated to enhance environmental outcomes. Negative effects on the environment are likely minimal.

Water quality: The wetland will capture contaminants commonly found in stormwater, such as sediment, nutrients, heavy metals, and oils. The quality of discharge will be higher than from the existing pond. This is good news for the sensitive marine environment of Whangamata Beach.

Erosion: Outflow from the wetland will pass over gabion baskets. The rocks will slow down the speed of the water, reducing erosion potential at the beach.

WAIKATO REGIONAL COUNCIL CONSIDERATIONS

Waikato Regional Council is supportive of the proposed works. The design aligns with the following policies and guidance documents from Regional Council:

Waikato Stormwater Management Guideline

 Encourages use of low-impact design approaches for quantity and quality management

Waikato Regional Policy Statement

- UFD-AER14: Improve environmental outcomes through increased adoption of low-impact stormwater design.
- CE-CMA-M16: Promote and support initiatives to improve marine water quality (including stormwater discharges)

MAINTENANCE

Maintenance on the wetland will include:

- Vegetation: Monitor for plant density. Undertake supplementary planting if required.
- Outlet grille and pipe: Check for blockages and clear as required.
- Spillway: Remove built-up debris and mow grass.
- · Non-return valve Inspect and clear of sand if required.



CONTACT INFORMATION

Please contact Thames-Coromandel District Council with further questions. Phone:07 868 0200 Email: customer.services@tcdc.govt.nz

ESTIMATED CONSTRUCTION TIMELINE

- Start date 4th June, 2024
- End date 12th July, 2024

