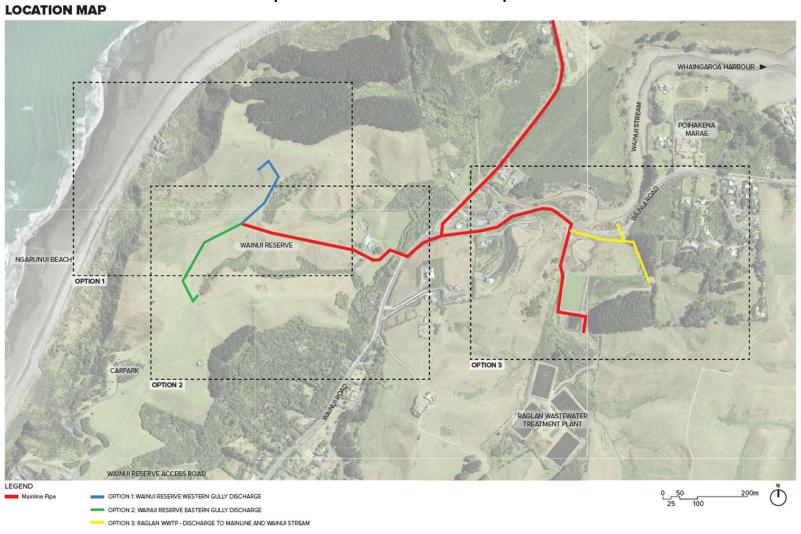


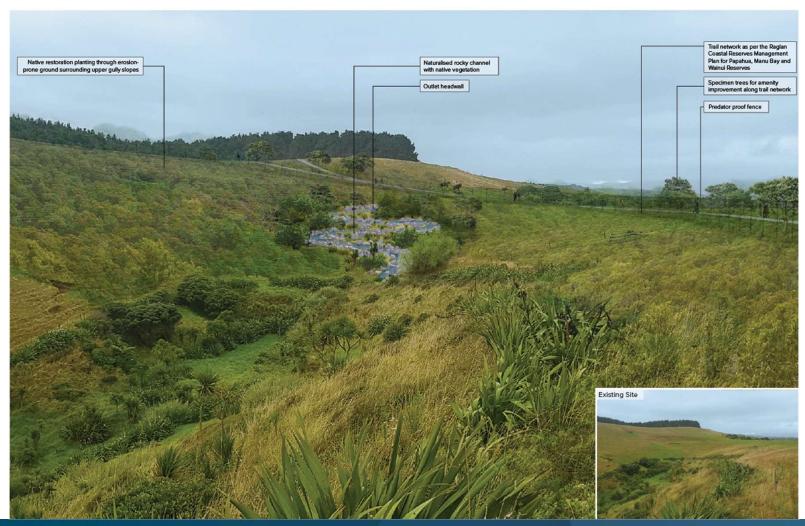
Land contact concepts have been developed for 3 locations.



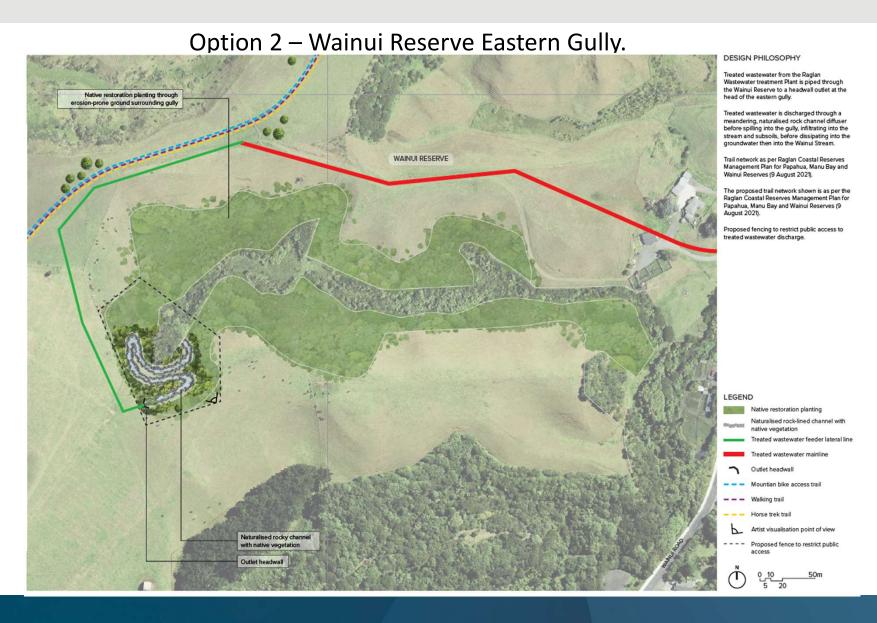
Option 1 – Wainui Reserve Western Coastal Gully. DESIGN PHILOSOPHY Treated wastewater from the Raglan Wastewater treatment Plant is piped through the Wainui Reserve to a headwall outlet at the TE ARA KĀKĀRIKI head of the western gully. MOUNTAIN BIKE TRAILS Treated wastewater is discharged through a meandering, naturalised rock channel diffuser before spilling into the gully, infiltrating into the stream and subsoils, before dissipating into the NGARUNUI BEACH coastal groundwater table. The proposed trail network shown is as per the Raglan Coastal Reserves Management Plan for Papahua, Manu Bay and Wainui Reserves (9 Naturalised rocky channel August 2021). Native restoration planting through erosion-Proposed predator proof fence to protect grey-faced petrel (the ŏi or northern muttonbin prone ground surrounding upper gully slopes Outlet headwall populations from pest predator species, and Specimen trees for amenity improvement along trail networ to restrict public access to treated wastewater LEGEND Native Restoration Planting Naturalised rock-lined channel with native vegetation Treated Wastewater Feeder Lateral Treated Wastewater Mainline Outlet Headwall - - Mountian Bike Access Trail -- Walking Trail - Horse Trek Trail Artist Visualisation Point of View Predator Proof Fence WAINUI RESERVE PARAGLIDE LAUNCH SITE

Option 1 – Wainui Reserve Western Coastal Gully.

OPTION 1 ARTISTS IMPRESSION







Option 2 – Wainui Reserve Eastern Gully.

OPTION 2 ARTISTS IMPRESSION





Option 3 – WWTP / Wainui Stream.



Option 3 – WWTP / Wainui Stream.

OPTION 3 ARTISTS IMPRESSION





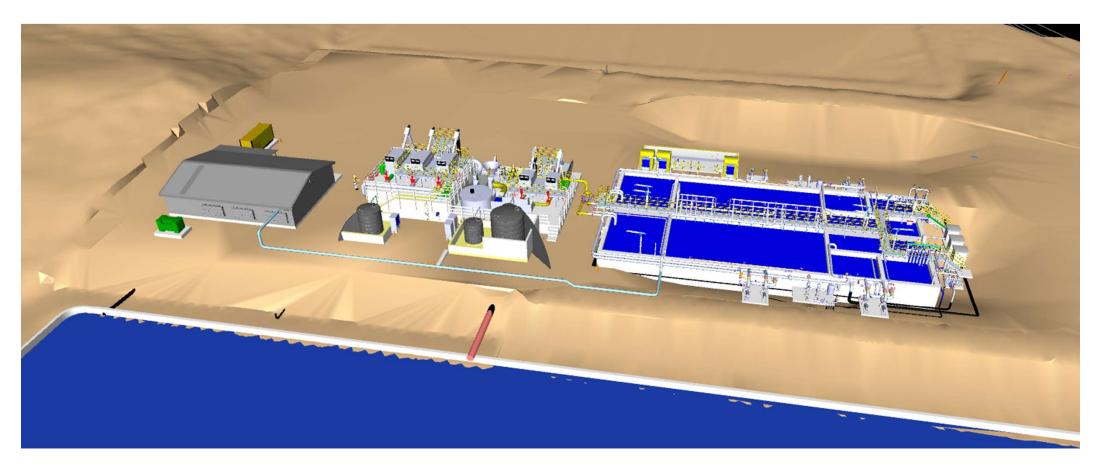
- Preliminary discussions and site visit with Tainui o
 Tainui hapu representative on the 3 options have
 occurred, where option 3 (WWTP / Wainui
 Stream) option was ruled out.
- Initial feedback from hapu favoured option 1 (Wainui Reserve Western Coastal Gully).
- Initial dialogue with WDC Reserves staff has started, this has raised issues and Watercare will meet further with them this month to go through the points raised.
- Assessments relating to archaeological & heritage / reserve management / iwi and other stakeholders / ecological impacts / public access / maintenance and funding etc would all be required if the option is progressed.







Progress Update - Raglan WWTP Membrane Bioreactor



Raglan WWTP Membrane Bioreactor Plant layout

