NEWSLETTER 4

What's next?

Further evaluation has enabled us to reduce the 7 options for managing the wastewater generated in the South-West Franklin area. These options have taken into consideration, environmental, cultural, operational and economic factors.

The final option will:

Contribute to improving the water quality & ecology of the Manukau

Significantly improve the quality of treated water transferred to the watercourse by implementing higher technology treatment

Commit to keeping our communities healthy through sustainable development & practices

Prepare the South-West Franklin area to allow for increased growth, beyond current prediction

Reduce operational costs & discharge points from 3 Wastewater treatment plants down to 1



Your feedback is important to us and will assist in our continued work to gain a better understanding of how our options will impact on or benefit your communities.

Contact us

For further information to be kept informed or queries regarding the project please contact us on:

Email: southwest@water.co.nz

Phone: 09 442 2222

Or visit www.watercare.co.nz - 'work in your area'.

Watercare invites you to an open evening to find out more about the project

Waiuku **Community Centre** King Street, Waiuku 2123

Tuesday 14 June 2016 3:30pm to 6:30pm

Waiau Pa School 571 Waiau Pa Road, Pukekohe 2679

Thursday



16 June 2016 4pm to 7pm



Overview

An update on the...

Servicing Project

The South-West Wastewater Servicing Project has been looking at the different ways we might be able to handle and treat the extra wastewater generated from growing communities in the Kingseat, Clarks Beach, Glenbrook Beach and Waiuku

South-West Wastewater

Following technical assessments and environmental research, we identified seven feasible options to manage wastewater in your area (see centre fold out.)

Project objectives



Keep our communities healthy.



Protect our environment, particularly the water quality and ecology of the Manukau Harbour.



Provide a solution that caters for planned growth that keeps the overall costs of service to customers (collectively) at sustainable levels.



Recognise the significance of the Manukau Harbour to Mana Whenua and, where possible, provide for local Mana Whenua's cultural and spiritual objectives.



Retain flexibility for future, sustainable, longer-term solutions.



Best practicable option...what does that mean?

In simple terms, the best practicable option for the **South-West Wastewater Servicing Project means** the 'best option'.



This would be the wastewater treatment and disposal method that balances a number of objectives, is affordable and protects our communities while also preventing harm to the environment and cultural values.







South-West Wastewater Servicing Project MANUKAU HARBOUR Option 4 viruses from the treated water (BMF) Discharge to Manukau Harbour ADVANCED WATER TREATMENT Option 3 (BMF) via new Clarks Beach Discharge to Treatment Plant (location TBC) \$174million Manukau Harbour via existing Clarks Beach Plant \$178million **Treatment Kingseat** to drinking standard Option 5 (BMF) Discharge to Clarks Beach bacteria & Manukau **BIOLOGICAL** Harbour via Waiuku Plant MEMBRANE FILTRATION \$181million Kingseat treatment plant to be type to remove **Treatment includes** BNR with decommissioned and additional filtration service diverted Violet Disinfection will be a part of each treatment BIOLOGICAL NUTRIENT REMOVAL Option 6 Technology using clarifiers to remove **Option 7** (BMF) Discharge to Awhitu **TASMAN** (AWT) Discharge to Aquifer between nitrogen and phosphorous SEA Peninsula via (Mangere Treatment Plant) Waiuku Plant Waiuku & Clarks \$227 million Beach Option 1 \$300million OXIDATION **POND** (current Waiuku (BNR) treatment type) Discharge to Tasman Sea via Basic form of Waiuku Plant treatment \$198million Cost (\$) = Long term capital and operational expenditure Option 2 (BMF) Discharge to

Tasman Sea via Waiuku Plant \$199million