

# Raglan WWTP Discharge Consent Application Project

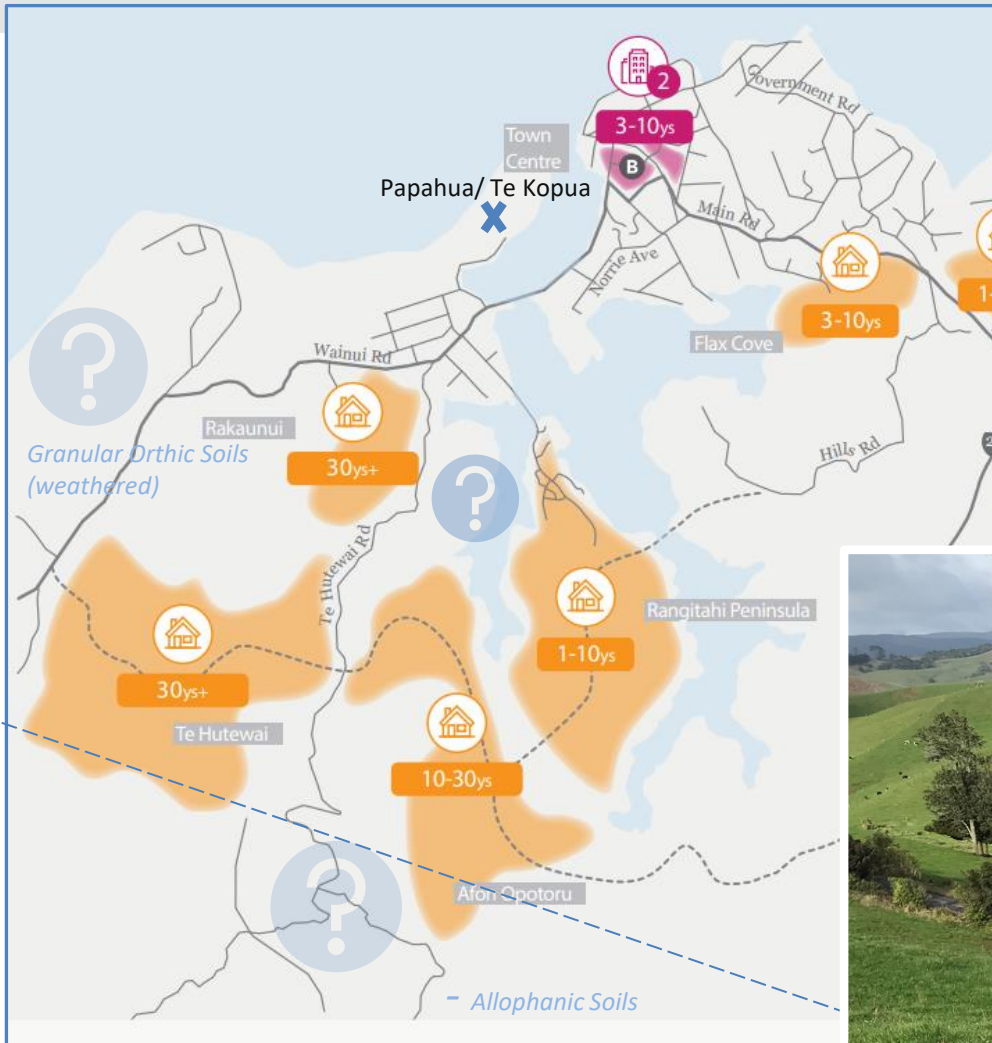
Community and Key stakeholder Meeting 27 July 2021

Welcome – CLLR Bech

- (i) NEXGEN REPORT – July investigations
- (ii) Scenario building

Wrap up/Queries – CLLR Bech

# PART A: NEXGEN REPORTING



## June 2021

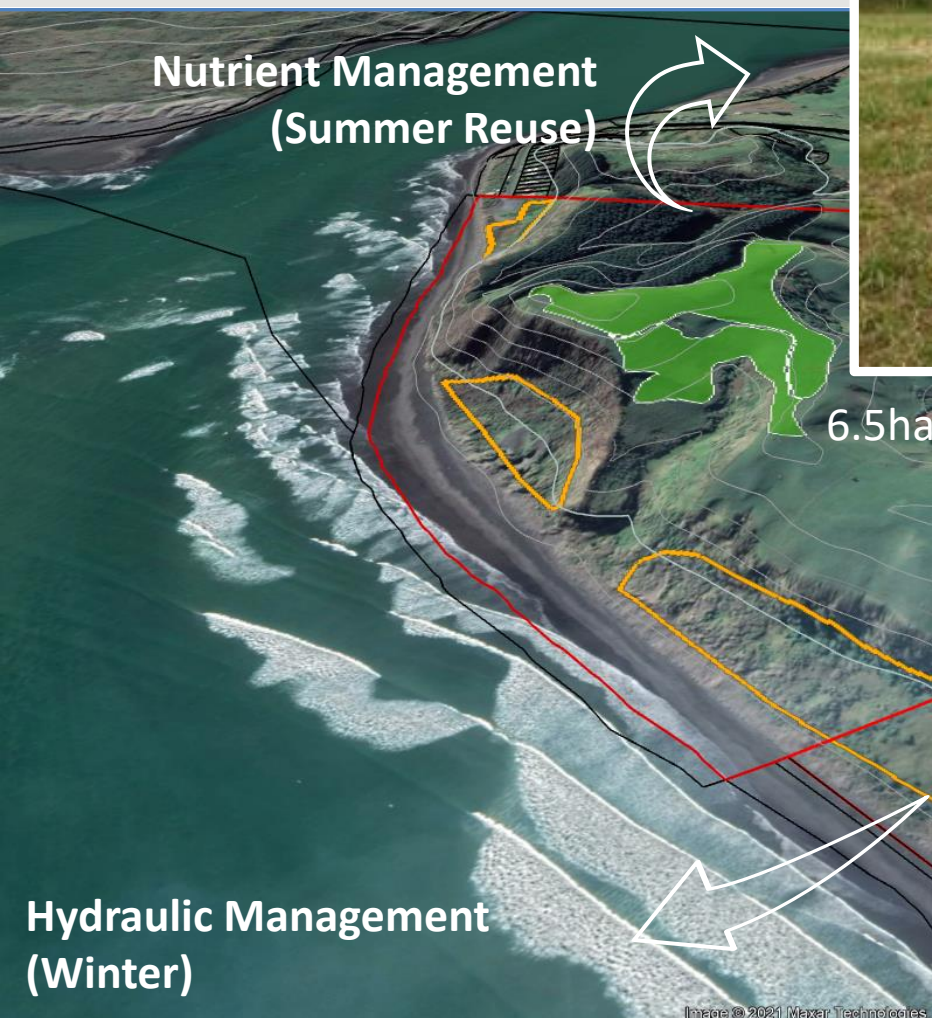
- Advancing prefeasibility studies (Nexgen May reporting – website)
- Site focus allowing (a) theoretical scenario building and (b) secondary party engagement documents
- Next steps Landcare: Soils reporting end July: Particle size testing of inflow (verify treatment needs)

## Upon completion....

Present business cases to secondary parties.



# Site-Specific Factors



## Scenario Building Balancing Factors

- 1.2km and 40m of head (pumping) **Conveyance**
- \$150K/ha (SDI) 6.5ha = \$975K **Cost**
- Differing purpose/legislative requirements (Reserve Act Notification for an easement and RMP) **Complexities**
- Re-use application rate: Rough calculation  $\frac{1}{4}$  of existing flow during drier months. Sandy soils exist **Effectiveness**

# Whole Scheme Scenario Building (Key Concepts/Queries)

Example Only

Site	Lease/Purchase/ Public (\$)	Size/Distance/Head	SDI \$\$	Conveyance\$\$	Soils	Nutrient Non-deficit discharge Capacity  (months/volume/ rotation)	Hydraulic Needs (Soils @ saturation)  (Days/volume/ methodology)
Wainui Reserve	\$0	6.5 ha, 1.2 km, 40 m	\$975 K	Booster pump/ Line \$XX	Granular	✓	✗
			\$1M	Line \$XX	Sandy	✗	✓
Parcel A	Lease \$XX	10 ha, 4.5km, 130m	\$XXM	Booster pump in series \$XX	Allophanic	✓	✓ (High-rate engineering of areas)

## 1) What if only sufficient areas can't be secured?

16.5 ha insufficient (given that 24 ha (existing) 18ha (future))

Greater treatment options could be needed to lessen N/P

Filtering/TSS Membrane upgrade is safeguarded, where alternative spend is needed for:

- i. Side stream MBR (?) or equivalent, alongside;
- ii. maximum practical storage construction (WWTP)

Considerations (a) lesser SDI costs vs (b) greater treatment costs

## 2) What is the timing for seeing action?

Securing Partners is Paramount

Lodgment

Private: AEE with application;

Public land -WDC: other legislation to consider / Challenges to be worked through (Executive Leadership Team / Raglan CB / KSH reporting)

Timeframe: Unclear given unknowns (Working alongside WRC)

- **PART D** Wrap up/Queries – Cr Bech /Ian C