

I, Kitea Tipuna, Tumu Whakarae Chief Executive, hereby give notice that Infrastructure Committee Meeting will be held on:

Date:	Tuesday, 10 August 2021
Time:	1.30pm
Location:	Council Chamber, Wairoa District Council, Coronation Square, Wairoa

# AGENDA

## **Infrastructure Committee Meeting**

## 10 August 2021

The agenda and associated papers are also available on our website: <u>www.wairoadc.govt.nz</u>

For further information please contact us 06 838 7309 or by email info@wairoadc.govt.nz

#### **Order Of Business**

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#### 1 KARAKIA

#### 2 APOLOGIES FOR ABSENCE

- **3 DECLARATIONS OF CONFLICT OF INTEREST**
- 4 CHAIRPERSON'S ANNOUNCEMENTS
- 5 LATE ITEMS OF URGENT BUSINESS

#### 6 **PUBLIC PARTICIPATION**

A maximum of 30 minutes has been set aside for members of the public to speak on any item on the agenda. Up to 5 minutes per person is allowed. As per Standing Order 15.1 requests to speak must be made to the Chief Executive Officer at least one clear day before the meeting; however this requirement may be waived by the Chairperson. Requests should also outline the matters that will be addressed by the speaker(s).

#### 7 MINUTES OF THE PREVIOUS MEETING

Ordinary Meeting - 29 June 2021

#### MINUTES OF WAIROA DISTRICT COUNCIL INFRASTRUCTURE COMMITTEE MEETING HELD AT THE COUNCIL CHAMBER, WAIROA DISTRICT COUNCIL, CORONATION SQUARE, WAIROA ON TUESDAY, 29 JUNE 2021 AT 1.30PM

- **PRESENT:** Cr Chaans Tumataroa-Clarke, Cr Denise Eaglesome-Karekare, Cr Hine Flood (Deputy Mayor) (via Zoom), Mr Chris Olsen (via Zoom)
- IN ATTENDANCE: Stephen Heath (Pouwhakarae Hua Pūmau Hapori/Ratonga Group Manager Community Assets and Services), Gary Borg (Pouwhakarae -Pūtea / Tautāwhi Rangapū | Group Manager: Finance and Corporate Support), Simon Mutonhori (Pouwhakarae - Whakamahere me te Waeture Group Manager – Planning & Regulatory Services) Jonny Hardie (Kaiwhakahaere Kaupapa - Whaipainga I Project Manager – Infrastructure), Mike Hardie (Kaiwhakahaere Hua Pūmau Huarahi| Transport Asset Manager), Gay Waikawa (Kaiurungi Mana Arahi/Governance Officer)

#### 1 KARAKIA

Karakia done by Cr Chaans Tumataroa-Clarke

#### 2 APOLOGIES FOR ABSENCE

#### APOLOGY

#### **COMMITTEE RESOLUTION 2021/60**

Moved: Cr Denise Eaglesome-Karekare Seconded: Cr Hine Flood

That the apology received from His Worship the Mayor, Craig Little be accepted and leave of absence granted.

#### CARRIED

#### **3 DECLARATION OF CONFLICT OF INTEREST**

None

4 CHAIRPERSON'S ANNOUNCEMENTS

None

5 LATE ITEMS OF URGENT BUSINESS

None.

6 PUBLIC PARTICIPATION

None.

#### 7 MINUTES OF THE PREVIOUS MEETING

#### COMMITTEE RESOLUTION 2021/61

Moved: Cr Denise Eaglesome-Karekare Seconded: Cr Chaans Tumataroa-Clarke

That the minutes [and confidential minutes] of the Ordinary Meeting held on 18 May 2021 be confirmed.

CARRIED

#### 8 GENERAL ITEMS

#### 8.1 3 WATERS STIMULUS PROJECT UPDATE

#### **COMMITTEE RESOLUTION 2021/62**

Moved: Cr Chaans Tumataroa-Clarke Seconded: Cr Hine Flood

That Committee receive the report.

#### CARRIED

The Kaiwhakahaere Kaupapa-Whaipainga Project Manager-Infrastructure reported on:

- Commencement of Mahanga water supply towards the end of 2021.
- Upgrade of Opoutama Wastewater Treatment Plant has begun.
- Fulton Hogan have completed 400 toby replacements.
- River Parade watermain replacement project is scheduled to begin in July 2021.

#### The Committee discussed:

- Management of communications Bluebay community.
- Concern cultural impact.

#### 9 PUBLIC EXCLUDED ITEM

#### **RESOLUTION TO EXCLUDE THE PUBLIC**

#### COMMITTEE RESOLUTION 2021/63

Moved: Cr Denise Eaglesome-Karekare Seconded: Cr Chaans Tumataroa-Clarke

That the public be excluded from the following parts of the proceedings of this meeting 1.49pm.

The general subject matter of each matter to be considered while the public is excluded, the reason for passing this resolution in relation to each matter, and the specific grounds under section 48 of the Local Government Official Information and Meetings Act 1987 for the passing of

this resolution are as follows:

General subject of each matter to be considered	Reason for passing this resolution in relation to each matter	Ground(s) under section 48 for the passing of this resolution s48(1)(a)(i) - the public conduct of the relevant part of the proceedings of the meeting would be likely to result in the disclosure of information for which good reason for withholding would exist under section 6 or section 7		
9.1 - Community Assets and Services Department - Update	s7(2)(b)(ii) - the withholding of the information is necessary to protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information			
	s7(2)(h) - the withholding of the information is necessary to enable Council to carry out, without prejudice or disadvantage, commercial activities			
		CARRIED		

#### **COMMITTEE RESOLUTION 2021/64**

Moved: Cr Chaans Tumataroa-Clarke Seconded: Cr Denise Eaglesome-Karekare

That Council moves out of Closed Council into Open Council at 2.39pm.

CARRIED

The Meeting closed at 2.40pm with a karakia by Cr Chaans Tumataaroa-Clarke.

The minutes of this meeting were confirmed at the Infrastructure Committee Meeting held on 10 August 2021.

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#### CHAIRPERSON

#### 8 GENERAL ITEMS

#### 8.1 3 WATERS STIMULUS PROJECT UPDATE

Author: Jonny Hardie, Kaiwhakahaere Kaupapa-Whaipainga Project Manager-Infrastructure

Authoriser: Stephen Heath, Pouwhakarae – Hua Pūmau Hapori / Ratonga Group Manager Community Assets and Services

Appendices: 1. Appendix 1 - Project Tracking Spreadsheet 😃

- 2. Appendix 2 Information letter for Blue Bay / Opoutama residents 😃
- 3. Appendix 3 Photos 👃

#### 1. PURPOSE

- 1.1 This report provides information for Committee on the Three Waters Stimulus package.
- 1.2 No decisions are required by Committee at this stage.

#### RECOMMENDATION

The Kaiwhakahaere Kaupapa-Whaipainga Project Manager-Infrastructure RECOMMENDS that Committee receive the report.

#### 2. BACKGROUND

2.1 This report forms a summary only of projects "at a glance". Additional reports will continue to be provided where further direction is sought from Infrastructure Committee.

#### 3. DIRECTION

- 3.1 This section will outline the direction that Infrastructure Committee & Council provide CAAS. It will outline how projects align with Council's direction and how these projects are being delivered in line with relevant policies and strategies i.e. Infrastructure strategy, procurement guidelines, AMPs, LTP, Annual Plan.
- 3.2 **Delivery Plan** 8<sup>th</sup> September 2020, Council Meeting.

Resolution: That Council approve the 3 Waters Reform tranche one and delegate the Chief Executive Officer to spend the grant funds.

3.3 **Memorandum of Understanding** - 11<sup>th</sup> August 2020, Extraordinary Council Meeting.

Resolution: Agreeing to sign a Memorandum of Understanding (MoU) with the Crown, agreeing to participate in the initial stage of a central/local government three waters service delivery reform programme and authorising the Chief Executive to enter into the Funding Agreement, to accept a grant from the Crown to spend on operating and/or capital expenditure relating to three waters infrastructure and service delivery.

#### 4. MONITORING

- 4.1 This section will refer to the project dashboard at Appendix 1. Any project areas such as budget or delivery that are highlighted Amber or Red in the dashboard will be commented on here.
- 4.2 Project budgets continue to be adjusted as more information becomes available. Some scopes are increased or reduced depending on the nature and priority of each project, and to cover unforeseen variations.
- 4.3 The upgrade of the Opoutama Wastewater Treatment Plant has begun, firstly on the plant itself. The overall upgrade project includes three parts: underground effluent storage tanks to allow the caravan dump station to reopen; treatment plant upgrade to improve treatment quality; expansion of the disposal field beside the plant. Notficiation has been completed to all residents/property owners in the Blue Bay / Opoutama area, including letter drop/post and two Wairoa Star articles, which explain the projects in reasonable detail. The projects are proving to be reasonably contentious amongst a small group of people. We are working through their concerns as they become apparent.
- 4.4 Fulton Hogan have completed approximately 650 toby replacements in Wairoa Township, out of more than 2200, as part of the smart meter/backflow prevention project. Progress is on target for a March 2022 completion. FH are contractually obliged to deliver at least 1600 toby replacements by the end of December 2021. The Sensus electronic smart meters have arrived in Wairoa from Europe with installation planned to start towards the end of the year. This will allow WDC to begin monitoring water loss and develop strategies for reduction/elimination.
- 4.5 The River Parade water main replacement project is underway and scheduled to be completed early August 2021. As at 28 July 2021, the pipe has been installed with pressure testing and disinfection underway. The relocation of this water main will provide further resilience to the water network, and will allow Hawke's Bay Regional Council to construct a sheet pile retaining wall to help protect River parade from river bank erosion.
- 4.6 Upgrades at the Wairoa Wastewater Treatment Plant are ongoing. The new inlet screen is due to arrive from Europe early August and be installed during August and September. The electrical and telecommunication system is being upgraded to cater for new equipment over the coming years. Eastland Network have recently confirmed there is capacity to cater for expected demand. There are delays with scoping of the Filtration and UV system due to the longer than anticipated timeframe to finalise our discharge consent conditions. We are working hard to gain a better understanding of these requirements to ensure any system we implement will achieve ongoing compliance, and operating costs are kept to a minimum.
- 4.7 Achilles St water main replacement is in the planning stages and expected to begin end of September 2021, taking advantage of the school holiday period. This project involves the replacement of approx. 450m of 300mm diameter water main from Kitchener St to Lucknow St.
- 4.8 See below in Risks for the identified risks of the Three Waters Stimulus Projects. This is as per the latest quarterly report to DIA.

#### 5. RISKS

- 5.1 This section will refer to the project dashboard at Appendix 1. Any risks outlined will be summarised with mitigation actions outlined. This will focus on the high or extreme risk levels.
- 5.2 Cost overruns are expected on certain projects, which will be balanced out by projects where known tender prices/quotes are less than budgets, or where projects have been removed or scaled down. However the total \$11.04 million stimulus package will not have any cost overrun.
- 5.3 The quality of discharge from the Blue Bay / Opoutama Wastewater Treatment Plant is currently non-compliant and breaching conditions of resource consent AUTH-118685-02. The deadline for improvements and to comply with the abatement notice is 31 October 2021. Works commenced on site late June 2021. Voluntary engagement with the community has begun via our Maori Relationships Manager, Duane Culshaw. Feedback to date has been mostly positive, however there is a small minority of residents in the area that have been spoken out against the scheme. There are concerns regarding misinformation spreading via unofficial sources (Facebook, etc) which we are working hard to try and stop. The letter posted to residents, and dropped in mailboxes, is included in Appendix 2.
- 5.4 Quarterly reporting to the Department of Internal Affairs (DIA) has identified several key risks to the project. The following table is taken from the most recent June 2021 quarterly report and identifies the current top 6 risks to the project. The latest report has just been submitted to DIA, with the next one due end of September 2021; and these risks will be reviewed and updated again at that time.

Risk Name	Risk Level	Commentary					
Completion of programme by 31 March 2022	High	Current programme still indicates a March 2022 completion date. However, there are some large ticket items that are yet to be procured, most notably the Filtration/UV project at the Wairoa WWTP. This is dependent on the outcome of the ongoing resouce consent process where the conditions of consent are yet to be finalised, and hence the level of Filtration/UV required is unknown. There is still time to design and implement before March 2022. Other large items are scheduled to be completed in early 2022, so will be on time provided there are no unforseen delays. Resourcing remains an ongoing risk to completion, however local and external contractors are currently being utilised successfully to deliver all projects. \$11.04m of expenditure is well over business as usual LTP spending. Council made appointments of three internal staff specifically to deliver this stimulus funding, which is proving to be successful. Both local and external resources are being utilised to deliver physical works.					
Under expenditure - \$11.04M programme is significant compared to prior years' expenditure.	Low						
Minor variation to existing consent and landowner approval required for the Opoutama/Blue Bay WWTP effluent disposal field.	Low	The amendment has been granted. These upgrades are underway and due for completion end of October 2021.					
Smart metering (\$2.98M) is new to the Wairoa DC.	High	Fulton Hogan Gisborne have provided the expertise to begin delivery, originally planned to start March 2021, but started early May 2021 due to early resourcing issues (staff shortages). They are currently delivering a metering programme for Gisborne District Council , and have proven experience in this area. Despite the delayed start, Fulton Hogan are maki reasonable progress and have completed 500/2300 (22%) toby replacemen in the two months to the end of June 2021. The shipment of Sensus electronic (smart) meters has arrived and rollout will occur over the next s months.					
Covid related delays for overseas equipment orders	This remains a significant risk to our delivery programme, although several major shipments have arrived, albeit later than scheduled. Suppliers are still experiencing shortages in the country and delays when ordering from overseas some items as basic as pipes. This risk will remain significant until the completion of the project due to the ongoing pandemic and its effects on global trade.						
Lack of suppliers available to deliver accelerated works programme in such a tight timeframe	High	As indicated above, resourcing a delivery programme of this scale in such a tight timeframe comes with its challenges. Wairoa often relies on suppliers from outside of the district, and this case is no different. In addition to delivery of the 'smart' metering programme, delivery of the Filtration/UV project remains reliant on finalising the conditions of our new discharge resource consent for the WWTP, the application in which was first submitted in 2017. Several backup projects were identified in our delivery plan which are shovel ready and can be implemented if required.					

Quarter 3 (July 2021) Update

#### 6. **RESOURCES**

- 6.1 This section will discuss levels of resourcing such as budget, equipment, contractors or staffing.
- 6.2 Three full time Council staff have been employed through this stimulus package.
- 6.3 Overall budget is still on track to be spent by the required completion date of 31<sup>st</sup> March 2022; however, due to tight time frames and speed of delivery the some projects do not yet have a current fixed price which means there will be ongoing project adjustments and therefore variations are likely. Department of Internal Affairs understand this and are comfortable with unders and overs, i.e., some projects costing more and some projects costing less, resulting in the total Funding not being exceeded. As scoping progresses, there will be more clarity on how final budgets will sit for each project.
- 6.4 The risk of delays due to COVID-19 remain high. Several items of equipment have been ordered from Europe with an estimated 6-month lead time. Ongoing COVID lockdowns are a possibility.

6.5 Several work packages are being delivered through our existing three waters contractor Fulton Hogan. Their size and presence allow access to further resource if required, which will help mitigate any project delays.

#### Signatories



	Risk			Financials			Del	ivery	
		4		Variation					
Project	1	E Phase	Budget	Budget	Spend to date	Forecast spend	Delivery dat	e %	Commentary
Water Meter Upgrade & Backflow Prevention (Smart Meters) Walros Water Treatment Plant Improvements		Oelivery	\$ 2,725,876	\$ 144,124	\$ 918,836	\$ 2,870,000	Mar	22 25	<ul> <li>- Smart meters oncered through PH and here enrive in Wainas. Manifold &amp; boxes supplied by Accuttow. Real risk of project duration extended beys required March 2022 completion date; bia will be monitored closely. PH contractually committed to deliver 1600/2300 by December 2021, 650 to installed as at 25 July 2021.</li> </ul>
Water Main Replacements - Achilles Street		Oesign	\$ 1,000,000	-\$ 260,000	5 -	\$ 740,000	Oct	21	Freilminary quote from FH well under budget. Start date late September/early October 2021. Start date has been delayed due to resource availab
Water Main Replacements - River Parade (Ferry Hotel)		Oslivery	\$ 180,000	\$ 10,000	5 1,600	the second s	Aug	21 90	- River Pde watermain has been installed as at 28 July 2021. Final pressure testing, disinfection and changeover to be completed. Expected comple
Mahanga Water Supply Improvements		Design	\$ 410,000	124 - 124 5 A (124) 	s .	\$ 80,000		22 5	Referencium complete. Residents chose to maintain existing supply. WOC to complete minor improvements for extra storage, pumping, SCADA. 1 Terr approaced to help finalise scope and price work.
Chlorination Dosing Pumps / Resilience - Reupunge Water Supply		Completed	\$ 12,000	-\$ 1,363	\$ 10,433	\$ 10,435		21 100	- Complete
Blue Bay WWTP Upgrede - Stege 1 (Plant / Dump Station)		Delivery	\$ 650,000	\$ 260,000	\$ 264,874	\$ 910,000	Dat	21 30	Design being completes by Perkink & WaterSoutoN2, Design to focus on a re-fit of the existing plant hospint.     Design being completes a by Perkink & WaterSoutoN2, Design to focus on a re-fit of the existing plant hospint.     Design being complexes that to be installed to regain motorhand whung taskin complement. Dumped waste will be monitored on period, and if solated will be pumped to the Bluebay WXTP in Nark, pending a resource consent.     Dignay higher than original budget, but will be covered controlled by preduction in others:     NaRK have agreed to move the date for complement to Dotaber 2002 via an mendement to the abetement notice, to allow more time to implem upgrades.     NaRKetsion to local community has been completed with letter drop/post, two articles in teh Wairos Ster.
Blue Bay WWTP Upgrede - Stage 2 (Oloposel Field)		Design	\$ 800,000	-\$ 220,000	\$ 8,060	\$ 380,000	Oct	21 3	Recissification of land sejacent to the existing disposel field is being completed by WSP, to show disposal to take piece.     The design of the new field is being completed by WSP to ensure compliance with resource consent conditions. The design will be based on the original as much as practical.     - Design to be completed by the end of July. Tender process in August: Construction in September/October.
Wairos WWTP Upgrede - Biological Nutrient Removal & Activated Sludge		Delivery	5 897,000	5 243,000	\$ 723,434	\$ 1,140,000	Oct	21 60	-Forecasting slightly over budget due to actual quotes exceeding original estimate.     -Agreement signed for supply and installation of an inlet Screen currently on order from Europe (\$610,000,00 value); delivery due early August.
Weiroe WWTP Upgrede - Disposel to Lend / irrigation [Mucaio / Pewareii]		Oesign	5 306,000	s .	s .	\$ 310,000	Mar	22 10	Memonsoum of Understanding signed with landowners Powdrell and Mucalo.     Site visit conducted in April with both landowners to discus structure of triel irrigation system to be implemented this year.     -irrigation supplicit/designed the Nahai scheme is being engaged to deliver here too. Lows Environmental providing advice.
Walros WWTP Upgrade - Nitration / UV		investigative	\$ 710,000	s .	s -	\$ 710,000	Mar	22 3	Working on developing an overall strategy for the WWTP to ensure correct components are installed.     UV and Filtration method to be determined in conjuction with ongoing discharge consent process.
CCTV Westeweter Pipe Network - Weiroe Township		Completed	\$ 157,950	-5 79,516	\$ 78,434	\$ 78,434		21 100	
Wastewater pipes upgraded / renewed or new - Relining Westewater Pipe Network (Weiroe Towrohip); Scott St Sewer; Mahia Sewer Raing Main Resilience		Delivery	\$ 1,140,500	\$ 558,500	\$ 490,831	\$ 1,700,000	Mar	22 25	First package was completed in April by PipeTech via. Fulton Hogan. Remaining work to be completed in October 2021, and February 2022. An accelerated programme will allow 3 years of reliving to be completed in 2021 & 2022.     Scope increased to include Scott 35 Sewer construction, and Mahia Sewer Kising Main Resilience projects. Scott 35 Sewer tender closed 25/07/20 Preferred supplier currently being confirmed.
Dedicated Pump Station Generators - Walroa Township		Design	\$ 451,350	-\$ 201,350	\$ 84,241	\$ 250,000	Dec	21 20	Generators have been purchased.     Sopping is any other to intermine how best to incorporate these with the existing pump stations.     Wiskover with H&S team to help with scoping.     Ritroy SI generator in place awaking commissioning.
Telemetry Base Sets / Pump Station Renewals - Wairoa Township		Investigative	\$ 414,825	-5 264,825	\$ 3,346	\$ 150,000	Mar	22 9	Scoping in progress.     Budget reduced to accommodate other project overruns.
Hawke's Bay Regional Contribution - Water Safety Plans, etc		Oslivery	\$ 166,420	\$ 100,000	5 .	\$ 270,000	Mar	22 13	AP for private water supplies has been issued with VSP and Bece shortfitted. Presentations to 3-Council group on 22/06/2021; VSP selected as preterred supplier, Nick off meeting 06/08/2021; Expected completion November 2021;     Other regional projects to follow.
***NEW*** Piping Open Drains - Kitchener St to Oyde Rd intersection (contribution) - BACKUP PROJECT		Delivery	5 .	\$ 100,000	\$ 100,000	\$ 100,000	24	21 100	· Complete
Sive Bay Water Supply Upgrade (DELETED)	BE		\$ 200,000	-\$ 200,000 \$ ·	s . s .	5 .			Removed from scope - no action required by Council, insufficient time to implement suitable solution
TOTAL OVERHEAD ALLOCATION		_	\$ 803,501	5 165.066	\$ 336,449	5 960,000			Overhead costs - Staff wages, including DIA 8PI costs incurred
PUNDS COMMITTED TO DATE THROUGH WORK INSTRUCTIONS	Ц		\$ .	\$ .	5 6,393,663	\$ .			Smart meters contract; Achiles 31 water main; river parade water main contribution incl. Scott St; CCTV wastewater pipes; BNRAS total; Regional project contribution; Water Treatment Plant minor resiliance; Bive Bay design & components
	Ht				\$ 9,411,266	\$ 11,048,869			
	Risk K	ey Low	Icon	siderable	High	Extreme			

DISTRICT COUNCIL

WAIROA

### ATTENTION: BLUEBAY & OPOUTAMA RESIDENTS

WASTEWATER TREATMENT PLANT UPDATE: WHAT TO EXPECT



### WHAT IS HAPPENING AT BLUE BAY?

The Opoutama wastewater treatment plant infrastructure is being upgraded to ensure that the treatment is environmentally anchored and future-proofed against the summertime population increase.

What is being done at Blue Bay:

- Installation of underground storage tanks at the self-contained vehicle dump station.
- Upgrade of the wastewater treatment process to better treat wastewater which will improve the discharge quality of the water.
- Expansion of the underground discharge field.

What to expect during this time:

- What is that smell? In late August, you may be able to get some hints of odour from the plant when the main tank lid is lifted to decommission the existing system and install the new treatment system within the same tank.
- Noise from power tools can be expected, such as concrete cutters being used within the main plant facility.
- An occasional hiab and truck will also be used also during the plant upgrade. Larger machinery will be used for construction of the discharge field
- Increased traffic flow can also be expected at times through Blue Bay with work vehicles travel to and from site, and parked on site.

#### KEY POINTS

#### UPGRADE TIMEFRAME

June – November 2021

## HOW THIS MAY AFFECT

Slight odour at times from the plant

Noise from trucks and construction equipment

Work vehicles parked and driving through Blue Bay and outside of the treatment plant

### NEED MORE

More information can be found on the following information sheet, on the Wairoa District Council Wastewater webpage, or call the Council on (06) 838 7309

## OPOUTAMA WASTEWATER TREATMENT PLANT INFORMATION SHEET

#### Projects planned to improve the wastewater system at Opoutama:

1: Installation of underground storage tanks at the caravan dump station.

- 2: Upgrading the wastewater treatment plant to improve discharge quality.
- 3: Expansion of the underground disposal field beside the treatment plant.

#### WHAT is being done to improve the treatment process?

- 1. Installation of underground storage tanks at the caravan dump station.
- Two underground tanks are to be installed at the location of the existing caravan dump station near the toilets in Blue Bay (see attached plan). This will allow the caravan dump station to reopen.
- There will be no discharge to the surrounding environment as the effluent will be contained within the tanks and pumped out and transported to the Wairoa Wastewater Treatment Plant when full.
- An alarm will notify WDC staff via. SCADA when the tanks need emptying.
- 2. Upgrading the wastewater treatment plant to improve discharge quality.
- The new treatment system being installed harnesses the power of natural, environmentally friendly bacterial processes to treat the water better than what is currently being done.
- The existing concrete tanks will be reused to house a new Advanced Fixed Bed Biological Treatment System.
- The tank lids will be taken off so that the existing, ineffective equipment can be removed.
- New tank partitions, biological media, aeration, and associated equipment will be installed and commissioned, to remove more harmful nutrients from the water.
- A temporary side-stream process will be used to treat the flow of wastewater during construction to ensure no decline in quality.
- 3. Expansion of the underground disposal field beside the treatment plant.
- The underground disposal field works like an underground drainage system where the treated water is evenly spread through the ground. The microorganisms growing and living in the soil and the vegetation of the disposal field treat the water again to make it even safer.
- This extra discharge field will not have any negative effects on the environment.

- The new disposal field will be similar to the existing disposal field which consists of a series of 25mm diameter plastic pipes evenly distributed over top of 1m depth of 100-150mm diameter clean stone wrapped in drainage cloth.
- The location of the upcoming disposal field expansion is shown in green below.



Figure: Locations of existing and proposed disposal fields.

#### WHY are these changes needed?

- 1. Installation of underground storage tanks at the caravan dump station.
- The two tanks will allow for effluent to be contained and tested, and to enable Wairoa District Council to reopen the dump station. When the tanks are full, the effluent will be transported to the Wairoa wastewater treatment plant for treatment and discharge.
- Collecting the effluent in these tanks will give the Council the opportunity to test the types of waste being disposed from the caravans.
- HBRC have confirmed this project does not require a resource consent as there will be no effluent discharged to the environment.
- 2. Upgrading the wastewater treatment plant to improve discharge quality.
- The wastewater treatment plant is currently not operating correctly and therefore not treating the effluent to an environmentally safe level the bugs in the water are not being removed properly before being dispersed through the disposal field. The upgrades to the treatment system will fix this.

- The water being discharged from the plant is tested monthly, as well as the ground water and coastal waters nearby to check for any impact to the environment from the disposed water. The testing shows that there is no negative impact on the receiving environment or on seafood.
- The purpose for these upgrades is solely based on the discharged water results not being good enough. However, no evidence has suggested that the environment has been negatively affected to date.
- HBRC have confirmed that the resource consent variation to provide for the upgrade has been processed on a non-notified basis and no consultation or engagement is required.
- 3. Expansion of the underground disposal field beside the treatment plant.
- The expansion of the disposal area (refer green highlight in picture) is allowed for and identified in the existing resource consent and will reduce the likelihood of any surface runoff or surface ponding in the area.
- The amount of treated water going into the ground of the disposal field (refer orange highlight in picture) is at times higher than the 50mm/day application rate that the resource consent allows for, and frequency of this occurring will increase due to ongoing development in the area.
- Opoutama has historically attracted and continues to attract a large population during the holiday period, meaning the wastewater flows to the plant have increased, therefore enlargement of the disposal area is required to ensure compliance.
- As more of the development at Blue Bay has been established, the volume of effluent discharged has begun to exceed the allowable limits and will continue to be breached more frequently in future. The need to expand the disposal field is clear.
- HBRC have also confirmed that there are also no conditions on either the land discharge or air discharge consents, therefore no additional engagement or consultation is required.

#### HOW is the work being done?

- One of the best parts about this work is that it is not funded with ratepayer's money these improvements are government funded from the Three Waters Stimulus Package that Wairoa was granted to improve our water infrastructure.
- Small cranes, excavators and concrete trucks will visit from time to time. Some shipping containers and equipment will be temporarily stored on site.
- There will be no impact or changes to the roadway access at any point during construction.
- There will be occasional noise from power tools.
- There may be evidence of some odour for a short period when the tank lids are removed.

#### WHEN is the work being done?

• Work will be undertaken at varying times from June to November 2021.













#### 10 AUGUST 2021



**INFRASTRUCTURE COMMITTEE MEETING** 

































