Agenda for a meeting of the Waters Governance Board to be held in the Committee Rooms 1 & 2, District Office, 15 Galileo Street, Ngaruawahia on **WEDNESDAY, 14 JUNE 2023** commencing at **10.00am**.

1. APOLOGIES AND LEAVE OF ABSENCE

2. CONFIRMATION OF STATUS OF AGENDA

3. DISCLOSURES OF INTEREST

The register of interests is no longer included on agendas, however members still have a duty to disclose any interests under this item.

4. CONFIRMATION OF MINUTES

5. ACTIONS REGISTER

6. REPORTS

7. EXCLUSION OF THE PUBLIC

GJ Ion
CHIEF EXECUTIVE

TERMS OF REFERENCE AND DELEGATION

Reports to:	The Council
Chairperson:	Ms Rukumoana Schaafhausen
Membership:	Mr Garth Dibley Mr David Wright Mr Gavin Ion (Chief Executive) Ms Jackie Colliar (Board Intern)
Meeting frequency:	Monthly
Quorum:	A majority of members (excluding the Board Intern)

The Waters Governance Board is a subordinate decision-making body of the Waikato District Council established under Schedule 7 of the Local Government Act 2002.

Purpose and Terms of Reference:

1. To provide governance and oversight of the development and implementation of the Council contract with Watercare Services Limited ('Watercare').
2. To ensure the activity goals are clearly established, and strategies are in place for achieving them.
3. To establish policies for strengthening the performance of the water activity including ensuring management and the contractor are proactively seeking to build the business through innovation, initiative, technology, new products and the development of its business capital.
4. To monitor the performance of management through the Chief Executive.
5. To ensure high standards of health & safety are maintained by management and Watercare and undertaking appropriate due diligence.
6. To decide on whatever steps are necessary to protect the Council's financial position and the ability to meet its debts and other obligations when they fall due, and ensuring that such steps are taken.
7. To ensure the water activity's financial statements are true and fair and otherwise conform to law.
8. To ensure the water activity adheres to high standards of ethics and corporate behavior.
9. To ensure the water activity has appropriate risk management/regulatory compliance policies in place.
10. To look to improve environmental outcomes from this activity.
11. To consider kaitiakitanga as part of decision-making.
12. To monitor and ensure Watercare are meeting their obligations.
13. To report to Council twice yearly on progress with Waters' Management.

14. To provide innovation and ideas that could improve profitability, service levels or environmental outcomes.
15. To hold Watercare to account over the delivery of the operational and capital programmes.
16. To work with Council to agree the overall funding requirements of the business.
17. To undertake any other matters considered relevant by the Board or referred to the Board by the Council.

The Board is delegated the following powers to act:

- Agree the form of the transactional arrangement with Watercare.
- Negotiate with Watercare and recommend to Council the final, or any amended, contract value for waters management.
- Conclude the contract (after Council approval of contract value) and terms and conditions, including any amendments, with Watercare.
- Ensure that transitional contract requirements are met by Watercare and Council.
- Hold Watercare to account for their performance at all levels.
- Monitor and oversee the performance of staff and Watercare in terms of the water activity.
- Consider and ensure improvements or innovation are implemented by Watercare or through the Chief Executive as appropriate.
- Approve changes to the operation of the contract with Watercare.
- Develop strategies to improve contractual performance or to improve business practices.
- Recommend to Council infrastructure strategy and Asset Management Plans for adoption.
- Develop an annual works programme (operating and capital) and submit to council for final approval.
- Approve alterations and transfers within the programme of capital and operational works as prepared for the Long Term Plan and Annual Plan, subject to the overall scope of the programme remaining unchanged and the programme remaining within overall budget.
- Set and ensure Watercare's adherence to health and safety requirements, and wellbeing practices.
- Set and maintain standards of ethics and corporate behavior.
- Consider development opportunities for the Waters' business.
- Define and set levels of service for Waters' management now and in the future.
- Responsible for the financial performance of the contract and operation.
- Approve and/or amend existing or new contracts relating to the delivery of three waters' services and operation unless additional funding by the Council is required or the approval or amendment is inconsistent with Council Policy.

- Recommend to Council any new or additional funding requirements over and above that contained within the Long Term Plan.
- Develop plans to improve the overall resilience of the Waters' networks and allow for growth.
- Consider the impact of growth on the Waters' infrastructure.
- Implement and monitor the risk management framework for the waters' management and activity.
- Approve the annual and half yearly financial statements for the Waters' operation and provide any relevant commentary to the Council.
- Annually review the Board composition, structure and succession and make recommendations to council on these matters.
- Ensure the Waters' business delivered by Watercare provides value for the community in terms of the four wellbeings.
- Determine the approach for resource consent applications for the Waters' business, and monitor progress of those applications on behalf of the Council.
- Review and monitor existing strategic resource consents.
- Ensure that Kaitiakitanga and environmental outcomes are key decision making considerations for the Board.
- Uphold the vision and strategy of the Waikato-Tainui Raupatu Claims (Waikato River) Settlement Act 2010.

Open – Information only

To	**Waters Governance Board**
Report title	**Confirmation of Minutes**
Date:	Monday, 29 May 2023
Report Author:	Elizabeth Saunders, Democracy Advisor
Authorised by:	Gaylene Kanawa, Democracy Manager

1. Purpose of the report
Te Take moo te puurongo

To confirm the minutes for a meeting of the Waters Governance Board (WGB) held on Tuesday, 2 May 2023.

2. Staff recommendations
Tuutohu-aa-kaimahi

THAT the minutes for a meeting of the Waters Governance Board held on Tuesday, 2 May 2023 be confirmed as a true and correct record.

3. Attachments
Ngaa taapirihanga

Attachment 1 – WGB Minutes – Tuesday, 2 May 2023.

MINUTES of a meeting of the Waters Governance Board Meeting of the Waikato District Council held in the Councillors Lounge, Waikato District Council Head Office; 15 Galilleo Street, Ngaruawahia on **TUESDAY, 2 MAY 2023** commencing at **10.02am**.

Present:

Mr D Wright (Chair)
Mr G Dibley
Mr GJ Ion (Chief Executive, Waikato District Council)
Ms J Colliar (Intern)

Attending:

Ms M May (Service Delivery General Manager)
Mr D Sharma (Three Waters Reform Project Manager)
Ms P Pandiarajan (Waters Contract Support Co-ordinator)
Mr M Telfer (Operations Manager – Watercare)
Mr J Sinclair (Chief Corporate Services Officer - Watercare)
Mrs B Pappachar (Watercare)
Mr R Pullar (Watercare) – *from 11.08am*
Mr P Crabb (Watercare) – *from 11.08am*

Ms E Saunders (Democracy Advisor)

APOLOGIES AND LEAVE OF ABSENCE

Resolved: (Mr Wright/Mr Ion)

That the apologies for:

a. **non-attendance from Ms Rukumoana Schaafhausen and Mr K Martin (Waters Manager) be accepted.**

CARRIED **WGB2305/01**

Unconfirmed

CONFIRMATION OF STATUS OF AGENDA ITEMS

Resolved: (Mr Wright/Mr Dibley)

THAT the agenda for a meeting of the Waters Governance Board Meeting held on Tuesday, 2 May 2023 be confirmed and all items therein be considered in open meeting with the exception of those items detailed at agenda item 6 which shall be discussed with the public excluded.

CARRIED **WGB2305/02**

DISCLOSURES OF INTEREST

There were no disclosures of interest.

CONFIRMATION OF MINUTES

ACTION: An amendment to be added to the minutes to reflect the question that was raised during discussion on the Agenda Item 6.5 – Maramarua Treated Wastewater Disposal Field Upgrade. This amendment will be added to the Confirmation of Minutes resolution as requested.

Resolved: (Mr Dibley/Mr Ion)

THAT the minutes of a meeting of the Waters Governance Board Meeting held on Wednesday, 29 March 2023 be confirmed as a true and correct record, with the following amendment to the minutes:

- ***Agenda Item 6.5 – Maramarua Treated Wastewater Disposal Field Upgrade:***
    - ***i. It was noted that Ms J Collier asked during discussion on this item if mana whenua could be invited to observe the installation of the irrigation system because of it's relevance to marae.***

CARRIED **WGB2305/03**

Unconfirmed

REPORTS

Actions Register
Agenda Item 5

Mr Telfer spoke to the report which was taken as read and highlighted some key points:

Cambrae Road – Flood Remediation:

- Concern raised by Cr L Thomson that works would further exacerbate flooding around 8 Cambrae Road where the walkway accesses Lorenzen Bay and an impact assessment has been requested.
- Watercare has looked at this risk and do not have any concerns that additional flooding will occur. Mr Telfer met with the property owners last Friday to discuss the project works with them and they are overall quite positive about the works to be done which are expected to begin in November/December 2023.
- The issue regarding access is still needing to be resolved along with some small issues raised by the property owners but Watercare will be looking to progress with works as quickly as possible now that the Resource Consent is in place. This will resolve and close out a long standing issue along with the abatement notice.
- Ms Collier raised a question around whether the Resource Consent condition that states Council is responsible for any upstream flooding issues has been looked into further and been reviewed? This is a very high risk condition that might be worth investigating further.
- Mr Telfer advised that he would review the consent condition prior to the next Board meeting but did note that he had discussed this issue with the property owners. Action Register to be updated to include the review of the consent condition.

ACTION: Cambrae Road – Flood Remediation Action to remain on the register with an additional action point to review the Resource Consent condition relating to upstream flooding and Councils responsibility.

Resolved: (Mr Wright/Mr Ion)

THAT the Waters Governance Board receives the Actions Register to April 2023.

CARRIED **WGB2305/04**

Unconfirmed

Three Waters Governance Report – March 2023
Agenda Item 6.1

Mr Telfer spoke to the report which was taken as read and further discussion was held.

Key Highlights:

- There were site visits to both Water & Wastewater Treatment Plants in March – one with representatives from Taumata Arowai and other visits with Community Board representatives to plants in Ngaruawahia, Huntly and Te Kauwhata.
- The site visit with Taumata Arowai was a great engagement opportunity and very well received by representatives.
- Ms Collier wanted to acknowledge both Council and Watercare staff for hosting mana whenua and staff members from Hamilton City Council in site visits to Te Kauwhata, Pukekohe and Meremere.
- A further site visit to Treatment Plants in the Northern part of the distrct will be happening with the Mayor and Elected Members in July and the invitation will be extended to the Water Governance Board members.
- Recruitment of new staff members has been concluded for the production team with the exception of the Cadet role. There is a very good mix of both experience and school leavers in the team and is progressing well.
- Mr Telfer has discussed with the Waters Manager the need for a Stormwater Planner. There is a need to fill the gap in this space and the next budget will have allowances for this. It was acknowledged that recruiting good staff is a challenge at this time but there is good support in place for the new recruits and particularly for school leavers.
- A brief update on staff retention for the Three Waters Reform was given with confirmation that all staff have now received their letters of guaranteed employment.
- Inspections of the Timber Reservoirs is now completed and the inspections of the Concrete Reservoirs is expected to be completed in the next 2-3 weeks.
- The Reservoir at Pokeno is coming back online this week after a 10 week period of being closed for repairs.
- The Asset Loading project is really starting to pick up pace now and work is continuing to try and get as many loaded before June 2023.
- The Ngaruawahia Pipeline project is progressing well.
- The Te Kauwhata Wastewater Treatment Plant temporary Ultra filtration plant has been installed and is now operational. Initial 2 test results showed an improved treatment performance for suspended solids.
- Mr Ion gave an update to the Board on a site visit that was undertaken to Te Kauwhata with representatives from Nga Muka, Waikato Tainui and Waikato Regional Council. There were a number of questions being asked around Compliance and information has been provided. It was a good opportunity to show representatives the work that has been undertaken to date and the end goal is really starting to take shape. Waikato Regional Council acknowledged the progress that has been made.

Unconfirmed

- Ms Collier acknowledged the good work that staff are doing around engagement with mana whenua. Ms Collier asked for feedback from mana whenua on how they feel the project is progressing and in particular around the discharge options and the feedback to date is positive but they are just waiting to get into the detail on the options.
- There was a question raised from mana whenua around capacity of the plant and the decision to install a smaller capacity. How is this going to affect growth in the area? Mr Telfer confirmed that the ultimate original decision had a capacity for 9000 population but the improved activities that are happening now are for a capacity of 6000 population which accounts for current growth figures.
- Ms Collier asked about the two blocks of Investment for Te Kauwhata in the Capex information that has been shared - what are these blocks of investment for? It was confirmed that this is for the capacity improvements.
- There was one injury caused by a Wasp sting to a staff member however there was no time lost and a doctors visit was completed.

Questions/Discussion:

- A question was raised around staff morale at this time with the uncertainty over the Three Waters Reform announcement. It was confirmed that overall the morale amongst staff is quite positive. Watercare are working with NTU to provide training for staff on coping with change. Watercare are keeping staff as informed as they can and doing their best to ensure that are no surprises.
- A question was raised around the Ngaruawahia Pipeline and the picture on Page 32 of the agenda – is the scaffolding around the pipeline steel? It was confirmed that it is indeed steel and not rope.
- A question around the Tuakau Buckland Roaed sample point (Compliance) was raised in regards to the reactive works that have been completed. Mrs Pappachar explained to the Board the process around the reactive works and the flushing/cleaning that was completed. The resampling was undertaken in response to notification of the issue and was done as a validation sampling.
- A query was raised with the Backflow Testing results in the Customer & Billing section of the report. The current total of tests undertaken is 3962 and the work for the past year has been completed and work underway now is for the new cycle.
- A further query was raised about the planned replacement of water meters over 15 years of age and Mr Telfer is going to ask the team to break the numbers down further to provide a clearer picture to the Board of the works that have been completed.

Raglan Wastewater Treatment Plant Resource Consent Application Preparation:

- A question was raised in regards to the Raglan Wastewater consent application preparation and the reference made in the report to the Memorandum of Understanding (MOU). Has an MOU been signed at this stage and what is the MOU actually for? It was confirmed that the MOU has not been signed as yet but progress is being made towards this. The MOU is not a guarantee but more of an understanding with the landowner to work together towards a solution.

Unconfirmed

- The MOU will hopefully give more confidence for Council to invest in additional investigations to progress this project further.
- Who gets to see the MOU once it is signed? Is this a document that has to be approved by Council first or do the Board get to see this at all? It was confirmed that the Waters Manager would be involved in the process and Mr Telfer would confirm with relevant staff if the MOU will be bought back to the Board or Council to review once it is ready to be signed.
- The Resource Management Act (RMA) process requirement for the establishment of subsurface drip irrigation with a relief valve on private land as the best practical option was discussed further by the Board. Mr Telfer is going to get further clarification on this point from relevant staff and provide that to the Board.
- It was advised that the consenting process for the Raglan discharge option had been ongoing for some time. The consent application was lodged over 3 years ago and is under review but monthly engagement sessions with key stakeholders and mana whenua remained positive. There is a need to manage expectations with the public whilst also showing that we have done everything we can to get this project right.
- The Huntly Wastewater Treatment Plant upgrade is progressing now with an interim design of the solution to get the plant compliant. Instruction has been given to progress with the ultimate design.
- There was an acknowledgement from the Board that this report was a great update and presented well.

ACTION: Confirmation to be provided to the Board on the delegation level for signing of the Memorandum of Understanding (MOU) for the Raglan Wastewater Treatment Plant resource consent application.

Resolved: (Mr Dibley/Mr Ion)

THAT the Waters Governance Board receives the report.

CARRIED **WGB2305/05**

Three Waters Compliance Update
Agenda Item 6.2

Mr Telfer spoke to the report which was taken as read and further discussion was held.

Wastewater:

- A table outlining the compliance status for each Wastewater Treatment Plant was provided to the Board and Mr Telfer briefly spoke to each update recorded in the report.

Unconfirmed

- Two of the key issues for the Te Kauwhata Wastewater Treatment Plant have been addressed. Progress is being made to get the abatement notice lifted which would be a positive milestone.
- The project is underway at the Maramarua Wastewater Treatment Plant and is looking to be finished by the end of the calendar year.
- Ngaruawahia Wastewater Treatment Plant issues are well known by the Board but it was confirmed that as staff work their way through the solutions fo the Huntly Plant they will look to see if those same solutions can be used at Ngaruawahia.

Water:

- The Port Waikato Water Treatment Plant main compliance challenge is aluminium. Work is being done with Waikato Regional Council to review the consent conditions.
- The Huntly Water Treatment Plant is fully compliant but it was highlighted that the 2021-2022 audit is yet to be completed by Waikato Regional Council.
- It was noted that it would be useful if an additional column could be added to the Compliance table which highlights what work is being undertaken to address any compliance issues? The table highlights what the issues are but does not indicate what is being done to address them.
- The Ngaruawahia Water Treatment Plant non-compliance issues relate to total aluminium and suspended solids. The levels of aluminium used usually depends on the quality of the river.
- A brief update was also provided on the Onewhero and Te Kauwhata Water Treatment Plants with the key notes highlighted in the report.

Questions/Discussions:

- It was confirmed that a Compliance Report will be given to the Board on a quarterly basis.
- It was noted that Te Ture Whaimana is one of the key objectives of the contract between Watercare and Waikato District Council and with all the physical works that have been undertaken to date, the investment in the different plants and the tracking of the compliance issues over time it really tells a powerful story of how Council are giving effect to Te Ture Whaimana and Te Mana o te Wai – is there anyway this journey that has been undertaken is captured in a report or is there any record that shows this journey?
- It was asked if a report could be presented to Council and key stakeholders that really speaks to this journey and highlights the work that has been done? An action will be noted for Waikato District Council to look into this further.

ACTION: Waikato District Council to look into different options for reporting on the successes and key highlights of the Council & Watercare agreement.

Unconfirmed

Resolved: (Mr Wright/Mr Ion)

THAT the Waters Governance Board receives the Three Waters Compliance Update Report.

CARRIED **WGB2305/06**

Unconfirmed

EXCLUSION OF THE PUBLIC
Agenda Item 7

Resolved: (Mr Wright/Mr Ion)

THAT the public be excluded from the following parts of the proceedings of this meeting; and

a. **The general subject 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(1) 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(1) for the passing of this resolution
Item PEX 1 **Confirmation of Minutes** **Item number PEX 2** **Action Register**	**Good reason to withhold exists under Section 6 or Section 7 Local Government Official Information and Meetings Act 1987**	**Section 48(1)(a)**
Item PEX 3.1 **Waters Financial Results to 31 March 2023**		
Item PEX 3.2 **Three Waters Reform Project Update**		
Item PEX 3.3 **Capital Projects Update**		
Item PEX 3.4 **Helenslee Road Watermain Extension Report**		

Unconfirmed

b. This resolution is made in reliance on section 48(1)(a) of the Local Government Official Information and Meetings Act 1987 and the particular interest or interests protected by Section 6 or Section 7 of that Act which would be prejudiced by the holding of the whole or relevant part of the proceedings of the meeting in public, as follows:

Item No.	Section	Interest
Item PEX 1 **Confirmation of Minutes** **Item number PEX 2** **Action Register**	**Refer to the previous Public Excluded reason in the agenda for this meeting.**	
Item PEX 3.1 **Waters Financial Results to 31 March 2023**	**7(2)(b)(ii)** **7(2)(h)**	**To protect information that would otherwise unreasonably prejudice a person's commercial position.** **To enable commercial activities to be carried out without prejudice or disadvantage.**
Item PEX 3.2 **Three Waters Reform Project Update**	**7(2)(b)(ii)** **7(2)(h)** **7(2)(j)** **7(2)(i)**	**To protect information that would otherwise unreasonably prejudice a person's commercial position.** **To enable commercial activities to be carried out without prejudice or disadvantage.** **To prevent use of the information for improper gain or advantage** **To enable negotiations to carry on without prejudice or disadvantage**
Item PEX 3.3 **Capital Projects Update**	**7(2)(b)(ii)** **7(2)(h)** **7(2)(j)**	**To protect information that would otherwise unreasonably prejudice a person's commercial position.** **To enable commercial activities to be carried out without prejudice or disadvantage.** **To prevent use of the information for improper gain or advantantage**

Unconfirmed

CARRIED **WGB2305/07**

The meeting adjourned at 12.15pm for lunch and resumed at 12.30pm.

Resolutions WGB2305/08 – WGB2305/18 are contained in the public excluded section of these minutes.

Having resumed open meeting and there being no further business the meeting was declared closed at 2.00PM.

Minutes approved and confirmed this day of 2023.

David Wright
CHAIRPERSON

Unconfirmed

Waikato District Council
Te Kaunihera aa Takiwaa o Waikato

Open – Information only

To	**Waters Governance Board**
Report title	**Actions Register**
Date:	Tuesday, 6 June 2023
Report Author:	Gavin Ion, Chief Executive

1. Purpose of the report
Te Take moo te puurongo

To update/inform the Waters Governance Board on actions following the Waters Governance Board meeting held on Tuesday, 2 May 2023.

2. Staff recommendations
Tuutohu-aa-kaimahi

THAT the Waters Governance Board receives the Actions Register to May 2023.

3. Attachments
Ngaa taapirihanga

Attachment 1 – Action Register

Waters Governance Board
Actions Register

OPEN MEETING

Meeting Date	Action	To Action	When	Status
29/03/2023	Retired Assets The Waters Manager to arrange a list of retired assets to be compiled to ensure they are being managed and maintained from a health and safety point of view. The Waters Manager is also to confirm with DOC regarding the ownership Hakarimata Dam.	Keith Martin	July 2023	Conversation is being arranged with DOC. List is being developed in conjunction with Watercare team. Findings to be provided in July Meeting.
02/05/2023	Compliance and Abatements WGB to be updated of all compliance actions and activities. Each asset with a noncompliance to be identified and the noncompliance activity highlighted and the plan taken to rectify . Reporting to be provided quarterly	Mathew Telfer	August 2023	Next update to be presented at August 2023 WGB Meeting
29/03/23	Communications In a state of Emergency, what alternative communications do we have when cellphone and phone fail. The board would like to understand the failsafe's and alternatives to ensure ongoing operational activity along with health and safety and condition assessment along with job prioritisation can to maintained.	Mathew Telfer	June 2023	Paper to Board 13 June.
29/03/2023	Schedule Maintenance Plan and Schedule for Water, Wastewater & Stormwater A detailed report outlining the scheduled maintenance program and the plan for Water, Wastewater & Stormwater is to be prepared and brought back to the Board. To include scheduled	Mathew Telfer	June 2023	Paper to be presented at WGB June Meeting.

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Version: 1, Version Date: 01/06/2023

Waters Governance Board
Actions Register

Meeting Date	Action	To Action	When	Status
	maintenance management methodology, the planned maintenance schedule, any deferred maintenance and risks to scheduled maintenance program.			
02/05/2023	Compliance and Abatements WGB to be updated of all compliance actions and activities. Each asset with a noncompliance to be identified and the noncompliance activity highlighted and the plan taken to rectify . Reporting to be provided quarterly	Mathew Telfer	August 2023	Next update to be presented at August 2023 WGB Meeting.
02/052023	Maramarua Treated Water Disposal Field Upgrade Mana whenua to be invited to observe the installation of the irrigation system because of it's relevance to marae.	Mathew Telfer	June 2023	Verbal update to be provided.
02/05/2023	Water Meter Replacement Program A further query was raised about the planned replacement of water meters over 15 years of age and Mr Telfer is going to ask the team to break the numbers down further to provide a clearer picture to the Board of the works that have been completed.	Mathew Telfer	June 2023	Verbal update to be provided.
02/05/2023	Cambrae Road, Raglan – Flood Remediation Watercare to review the Resource Consent condition relating to upstream flooding and Councils responsibility.	M Telfer Watercare	June 2023	Verbal update to be provided.
02/05/2023	Raglan Wastewater Treatment Plant MOU Confirmation to be provided to the Board on the delegation level for signing of the Memorandum of Understanding (MOU) for the Raglan Wastewater Treatment Plant resource consent application.	Keith Martin	June 2023	Verbal update to be provided.

Open – Information only

To	**Waters Governance Board**
Report title	**Three Waters Governance Report – June 2023**
Date:	14 June 2023
Report Author:	Keith Martin, Waters Manager
Authorised by:	Gavin Ion, Chief Executive

1. Purpose of the report
Te Take moo te puurongo

To update the Waters Governance Board of the current workstreams, key matters and metrics under the three waters operational and maintenance agreement with Watercare Serviced Ltd.

2. Executive summary
Whakaraapopototanga matua

Please refer to the Highlights and Lowlights summary section in the attached report prepared by Watercare Services Ltd.

3. Staff recommendations
Tuutohu-aa-kaimahi

THAT the Waters Governance Board receives the Three Waters Governance report for June 2023.

4. Attachments
Ngaa taapirihanga

Attachment 1 – Waikato DC Three Waters Governance Report – June 2023

WAIKATO DC

THREE WATERS GOVERNANCE REPORT

JUNE 2023

Mathew Telfer
Operation Manager
Watercare Waikato
June 2023

Document Set ID: 4112439
Version: 1, Version Date: 31/05/2023

1. Highlights and lowlights

- All performance measures were achieved in April. All year-to-date results are achieved, excluding notification of incidents.
- Recruitment within the Production team is complete.
- The Huntly WTP building's exterior repaint has been completed.
- The Meremere WWTP MBR plant has become unstable with sludge foam build-up in the aerobic tanks, causing concern. The process is being closely monitored, and the Watercare Innovation team has provided support and reviewed the process. This has shown immediate benefits and improvement to the process and addressing the issue. We will continue to monitor the performance of the plant.
- The update of the Southern Districts and Tuakau Water Network Models was completed.
- The Good Street pump station in Matangi had a wetwell replacement due to I&I issues experienced at the plant.
- Two additional stormwater measures have been added to the report. This is due to the cyclone event which is the first instance of these events.

2. Health and Safety

2.1. What we've seen this month

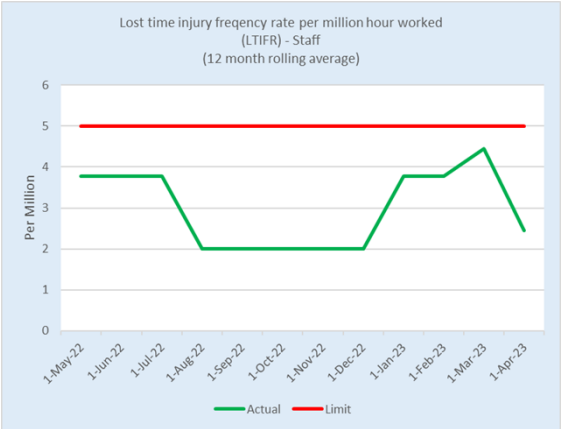
- There was no lost Time Injury (LTI), 0 Restricted Duties Injury (RDI), and one reported first aid injury involving Watercare employees in April and May when this report was produced.
  - A staff member's finger was pinched, requiring first aid but no further treatment.
- There was one recordable injury involving contractors
  - An arborist was struck by a falling tree during tree clearing at the Raglan Wastewater treatment plant, requiring first aid but no further treatment.
- The focus for the month was Working with or around mobile plant.

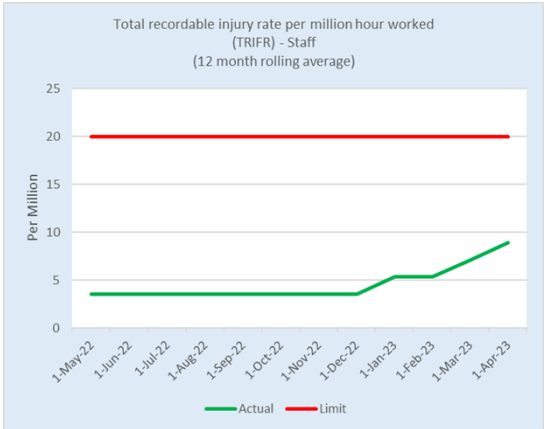
2.2. Looking ahead and wellbeing

- Next month's focus is on Working with live traffic.

2.3. Metrics

- There were two first-aid events in April and none in May when this report was produced.





3. Operations

3.1. Production

- In the last two months, the effort has gone into advertising and recruiting staff for the Production team. The recruitment is complete, and the new structure has been established, supporting our succession planning for the years ahead.
- During April, we have hosted site visits by HCC to the Pukekohe, Meremere and Te Kauwhata WWTPs. We also visited the Raglan WWTP and Raglan WTP with the Councillors and the Community Board members. Additional visits are planned for June and July.
- Generally, the river raw water quality for Ngaruawahia, Huntly and Te Kauwhata WTP's has been stable. Operators continue to monitor the raw water UVT very closely to identify any changes or trends requiring process changes.
- The Huntly WTP building's exterior repaint has been completed, and the internal repaint work will commence at the beginning of May.

- The Port Waikato WTP repairs continue, and the plant has suffered multiple comms outages throughout the month. The fault was tracked to rat damage to the fibre cable at the Tuakau Bridge. Repairs have been made, and comms are now stable. There remains an issue of poor mobile network coverage in the general Port Waikato area.
- Te Kauwhata WTP, the pipework tie-in for the new filter # 4, is awaiting software update and commissioning. The Te Kauwhata WWTP Ultra filtration plant is running reliably.

- The Meremere WWTP MBR plant has become unstable with sludge foam build-up in the aerobic tanks, causing concern. All pH, suspended solids, and instruments have been serviced and replaced if necessary to provide good process information. A service and training programme has been set up to ensure the instruments are calibrated and serviced correctly. The process is being closely monitored, and the Watercare Innovation team has provided support and reviewed the process. This has shown immediate benefits and improvement to the process and addressing the issue. We will continue to monitor the performance of the plant.

Document Set ID: 4112439
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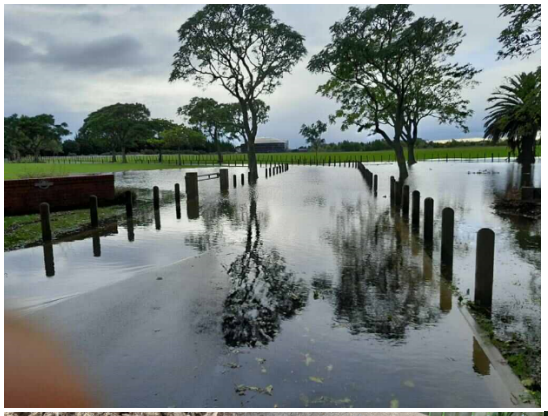
3.2. Networks

- The > 15-year meter replacement project has begun to wind down as Nivec completes the last bundles of replacements. The focus is now moving to bulk supplies. All Northern areas are complete, with the predominant work remaining in the Southern Districts. In April, 153 screw-in / in-line meters and 10 bulk meters were replaced.
- RTU Upgrade Project – Radio surveying and investigation was carried out by Arthur D. Riley at the Pokeno Reservoir, and results indicate a quality, uninterrupted signal is available at this site. Kordia / Chorus has been engaged to arrange for fibre to run up to the reservoir itself to allow for a wired connection here. Havelock Rd PS in Ngaruawahia requires a KiwiRail permit to execute works, so the application process has commenced. The final functional drawings have been issued to McKay Electrical.
- CCTV works on WW lines have commenced in Huntly. 13km of WW lines were investigated in April, with no severe defects observed. Works will continue in Huntly in the coming months.
- Reservoir inspections and Maintenance – Northland Effluent Services (Tank Inspect) continued with internal and external assessments of all concrete reservoirs throughout the district. Two reservoirs were inspected in April (Huntly West & Harrisville Rd). Minor defects in the concrete have been noted and added to the list of remedial works.
  Similar to previously inspected reservoirs, the internal ladders showed signs of corrosion, and some sediment build-up on the floor was noted. Remedial works will be carried out upon completion of all inspections.
- Jobs of significance – April
  A severe blockage was cleared from a stormwater line near the Ngaruawahia Cemetery. Localised surface flooding had been noted in rainfall events, and CCTV investigation revealed severe root intrusion was identified as the cause. The roots were removed, and a minor line repair was conducted to address the problem.



A significant line fault was repaired at Marine Parade PS, Raglan. This fault was identified via the CCTV surveys carried out in the area. The roof of the 150mm line had completely degraded, so the replacement of approximately 6m of the line was required.


The Good Street pump station in Matangi had a wetwell replacement due to I&I issues experienced at the plant. The well had a degraded base allowing for ingress to occur.


A sewer line fault was repaired at Camp Ground PS in Raglan. Manhole inspections carried out by field staff identified a manhole chamber with severe root intrusion. Root cutting and CCTV was carried out, and the CCTV identified further issues on the 100mm line approximately 1m from the chamber. The line sat 2m deep, so trench shields and a large digger was required to excavate down.

3.3. Stormwater

Technical reviews and inputs (Land development and policy planner team)

- Pokeno Hitchen Block Stage 18 EPA,
- Pokeno Helenslee 11D(Highway run-off and
- Raglan 123B Greenslade Rd

- Rotokari greeway project
- Z fuel tank replacement project-Pokeno

The sites were visited to understand the conditions.

Planning/OPEX/Business Case

- District-wide outfall investigation business case
  The objective of this business case is to comply with consent conditions relevant to erosion and scouring and set up a monitoring plan for outfall asset management. A consultant has been awarded and will start investigating soon.

- Te-Kowhai flooding scoping works
  Based on the previous site visit, we scoped works to receive consultant quotes and a timeframe to begin addressing the flooding issues. Next month, we will award the work and start the flooding assessment to find alternatives.

- Port-Waikato stormwater
  Hydraulic and hydrology analysis has been undertaken to understand the current network capacity (Desktop analysis). WSL and the contractor are working to gain owner approval for additional physical maintenance.

- Catchment Planning
  We held a workshop with District Council staff to discuss who needed to be involved. We progressed the technical work for Ngaruawahuia and Te Kauwhata townships and a district-wide water quality assessment. Analysis of Raglan issues has progressed, including enviropod's, mapping of natural watercourses, and hydraulic modelling. We met with Whaingaroa Environmental Centre to discuss their planting projects and WSL collaboration.

Stormwater projects

- Stormwater pipe upgrade project on Cambrae Rd
  Commenced design review and engineer's estimate process; this is expected to be completed this financial year, giving more certainty over the budget and timeframe for the project. On track for delivery next construction season.

- Hakanoa stream upgrade project
  Reviewed draft consent application and developed procurement methodology.

Operation and Maintenance

- CCTV Investigation(Stormwater network)
  We have identified pipe sections in Raglan, Tuakau, Ngaruawahia and Huntly. The pipe sections are likely to hold settlement and debris and were inspected by CCTV. The resulting report is expected in May. Based on the results, OPEX budget or CAPEX will be allocated for heavy cleaning or remedial works.

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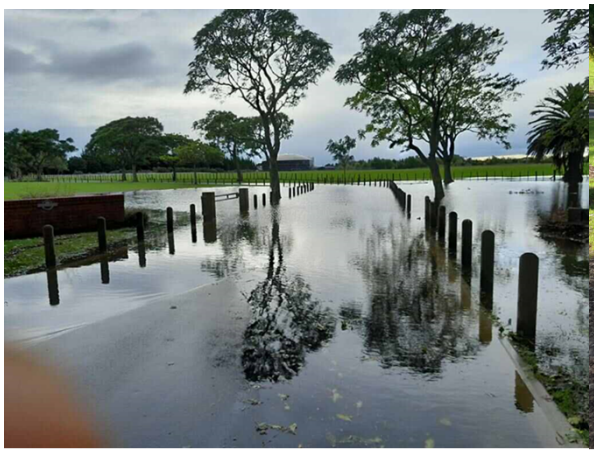
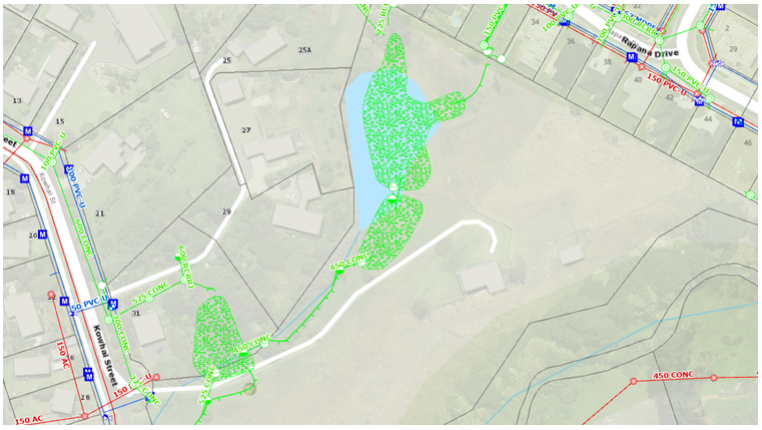
- Ngaruawahia Cemetery flooding
  Flooding was reported at the cemetery. The blockage and the broken pipe were repaired, and a catchpit was installed to drain surface water run-off from the cemetery park.



- Gabriell's Impact on Tuakau natural stream

  A large tree was uprooted and fell over the Whakapipi stream at 9 Westland Road Tuakau. Stream was flowing under the fallen trees for now. It was cleaned up.

Maintenance on pond and driveway at 33 Kowhai St Tuakau. Dead trees were cleared, and the accessway was re-packed with proper aggregated. The ponds were not transferred during the 2010 integration. These assets will be added to the maintenance schedule.



4. Planning and project delivery

4.1. Infrastructure Planning

There are several work packages underway, including.

- The update of the Southern Districts and Tuakau Water Network Models was completed. The network monitoring has been completed, with some additional modelling at the Harrisville reservoir to occur.
- On-going support for the variation 3 plan change expert input.
- The Raglan WW model - We have installed a new Magflow meter at Wallace St PS, and draw-down testing will occur at Nero this month. The recalibration of the model will then occur.
- The Raglan WW and WS servicing strategy are underway with stage 1 complete; this will guide bulk infrastructure on upgrades and timing.
- Huntly Wastewater network model - Consultants have assessed the asset data, and Magflow meter installation at two key pump stations is progressing (one is installed). The regauging flows through the network at specific sites for three months is underway with inspections of sites. Draw-down tests on pumps to check operating capacity will also be undertaken next month.
- Likely rezoning Te Kowhai land, after completing the servicing strategy this year, we are working with the growth team on cost allocation between rezoned and future urban land areas.
- Assisting WDC staff with Ngaruawahia Structure Planning, most of our input is complete with the WW and WS servicing strategy delivered to WDC.
- Consultants continue the study looking at short-term improvements for Ngaruawahia and Huntly WTP's plus a long-term strategy for the two water treatment plants.
- Investigations for Tuakau, Raglan, and Tamahere Reservoir sites are still underway. A paper to the Water Governance Board for the June meeting is being prepared, covering all upcoming reservoir projects (including Pokeno and Matangi).
- The Raglan Spring water source study is underway.
- 2nd version of 24-27 LTP was submitted in March to DIA; work continues on scoping and costing of some projects. We will commence developing a storyline during May to describe project timings and drivers on a township-by-township basis.

4.2. Development and growth

Input into District Plan Appeals on servicing of appeal areas has continued.

Discussions with WDC Land Development Engineers and Developer's Engineers on several development sites, including the following:

Pokeno

- Munro Block and servicing new school
- Water Servicing of stage 18/19 Hitchens Block

Tuakau

- Dominion Road (LaValla Estate)
- Harrisville Road
- Barnaby Road

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- Dromgools Road
- Whangarata Business Park
- Tuakau Saleyards Road

Te Kauwhata

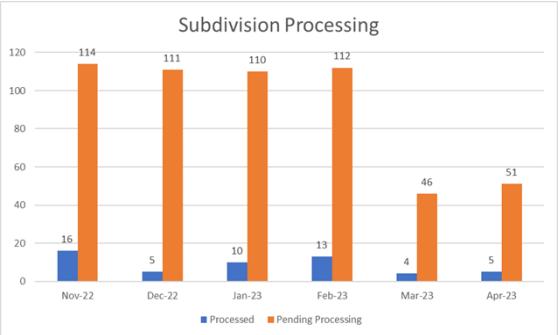
- Lakeside lift station
- Travers Road

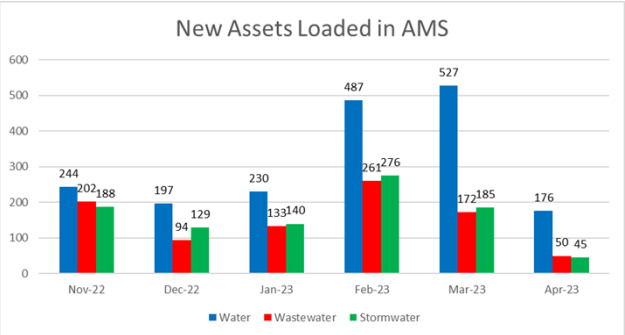
Ngaruawahia

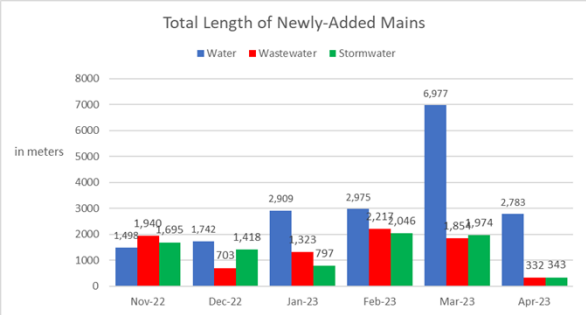
- Washer Road
- Te Awa Lakes Horotiu West

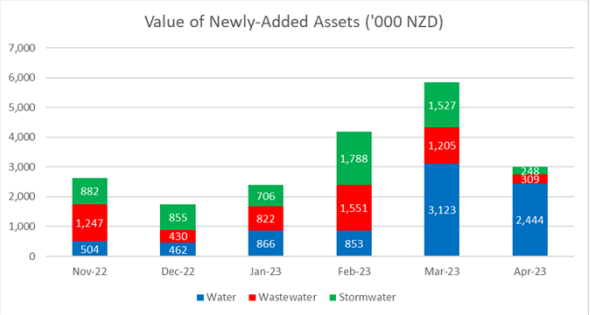
4.3. Asset Management

- This month, 271 three-water assets were added to the database, covering 3kms of main lines and a combined value of $3.01m.
- An additional resource is temporarily supporting asset loading in April and May.









4.4. Project delivery

<u>Water Network Upgrades</u>

- Work to improve water supply to parts of **Raglan** is underway, with Main Road and Upper Bow Street being the next focal points of our Network Renewal Programme.
  Our delivery partners have established onsite and made headway on the task at hand – with disruption and impact to road users in this busy road corridor; the works are supported by an effective communication and stakeholder management approach.


https://www.waikatodistrict.govt.nz/news/article/2023/05/02/water-supply-improvement-project-starts-in-raglan

- Crews have established in **Rangiriri** to install 1600 meters of pipeline along the old state highway on Te Wharepu Road.
  Project outcomes will see an upsized, more resilient polyethylene pipeline installed via horizontal directional drilling (HDD) within the road corridor instead of an undersized, ageing supply pipeline through private properties. The project will resolve fire-flow levels of service for the Rangiriri township.

- To support water supply and firefighting levels-of-service for **Taupiri** township and its rapidly growing eastern zone, a new water booster pump station and water supply pipeline replacement is planned. The final procurement tasks to award the works are nearing completion, with a forecasted commencement date planned for June.

- **State Highway 26, Newstead.** We will upsize and replace the existing 150mm and 80mm pipeline with a resilient polyethylene pipeline. This will be installed via horizontal directional drilling (HDD) within the road corridor, instead of supply conveyed via an undersized and ageing supply pipeline through private properties. Reconnection of two dead-end mains by installing 150m of pipeline to solve a 20-year-old ‘temporary disconnection’ which occurred as part of neighbouring land development circa 2003. Although the final procurement tasks are nearing completion, work is planned to commence in September to support the continuity of work for the successful delivery teams.

- The final package of the network renewals programme has been bundled for delivery efficiencies, with the proposals due to be returned Mid-May.

  Tuakau Water Supply Upgrades and Extensions, the first stage, is complete.
  The second package has now been scoped and includes local network upgrades that will provide missing connectivity and network resilience and enable supply via extensions to urban supply zones.

  Huntly – to support firefighting shortfalls in the west, a pipeline replacement and upsize is proposed for Riverview Road, Huntly. The final package of the network renewals programme has been bundled for delivery efficiencies, with the proposals due to be returned Mid-May.

  Pokeno – The first pipeline upgrade (previously avoided by parties due to its challenging environment) will be extended to connect critical water infrastructure on Pokeno Road to support servicing the rapidly expanding Hellenslee growth area. The project will resolve a five-year-old network shortfall. The second is a missing reticulation loop on Helenslee Road, which intends to be resolved before a planned roading upgrade.

Reservoir Upgrades

The construction of the gravel raft and connecting pipework continues for reservoir one. Preparation for the institute foundation slab construction will commence in May. The production of the prestressed wall panels has commenced, and the initial structural inspections are complete.

Te Kauwhata – Reservoir 1 - Fabrication of the prestressed concrete wall panels

Wastewater Network Upgrades

- Ngāruawāhia Pipeline – The well-pointing remains effective. The wet-well has been installed, and valve chamber construction will follow. Construction has commenced on the pipeline connection to the pump station inlet chamber. Reinstatement of the first section across the farm is planned for May. The Network Operations team was taken through the installation sequence and safety benefits of advanced dewatering.

- The POAL WWPS – Sewer connections ready for flows from Horotui are being installed. The installation of the gravity sewer has commenced. The remainder of the pipeline will be installed with the new road, a project led by Waikato District Council and construction to link up has commenced.

- Tuakau to Pokeno pipeline: The detailed design has progressed to where the industrial flows need to be confirmed. Meetings with landowners and utility providers continue; progressing next to the railway will be a challenge. A workshop in May is planned to consider a shovel-ready alternative.
- Whangamarino WTP Upgrade – The final tie-in is complete, and the mechanical commissioning is planned for May. Following this, the media will be installed, completing the work under this project.

Treatment Plant Upgrades

- Te Kauwhata WWTP Upgrade – The MABR tanks have been installed. The MBR, Splitter box aeration and MBR tanks are currently being factory fabricated.
- The blower room structure is complete, and the fit-out starts with coating systems and tanking membranes.
- The new temporary Ultrafiltration plant is operational, improving the suspended solids treatment performance ahead of the main plant build.
- The outline design of the treated water conveyance to a water hub is being priced and will be issued to WDC in May.

Te Kauwhata WWTP Liquid Stream Pipe Fabrication

- Huntly WWTP Upgrade – An options review is planned to assess the appropriate location and arrangement of the future WWTP Upgrade. In parallel, the concept design of an interim return stream upgrade is underway.

- Raglan WWTP Upgrade – Detailed design is well underway, with the initial drawings and specifications being reviewed in preparation for the tender.

- Ngaruawahia WTP Upgrade – The run-to-waste tank pipework is due to complete in May to become operational. The electrical control and automation will follow. The consenting process has indicated an IBC de-chlorination system will be required when the sewer is unable to receive run-to-waste flow.

- Matangi WWTP Upgrade – Plant upgrades at Matangi are nearing completion. Pumps, valves, and pipeline components have been replaced, along with progress made on the failing disposal field. The invasive investigation has occurred with the sand filter bed material being assessed as OK; determining the need for full replacement is not recommended.
  Minor tasks to close out the work are still required.

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Matangi WWTP – Disposal field tree and vegetation clearance

5. Compliance

- All April drinking water quality assurance rule (DWQAR) monthly reports demonstrated compliance. Technical non-compliance noted in Ngaruawahia WTP report- Event Investigation report demonstrates compliance.
- DWQAR T3 and D3 April monthly report submissions have been made to Taumata Arowai via Hinekorako. Also, we completed the Quarterly reporting for the DWQAR level 2 supplies and zones.
- All April monitoring reports for Wastewater will be submitted to Waikato Regional Council during the second week of May 2023 with relevant notes, updates, and other resource consent reporting requirements as scheduled.
- The Port-Waikato WTP backwash discharge consent investigation into Total Aluminium exceedances has identified the source water as having an elevated concentration of total aluminium. This was highlighted to WRC and is currently in progress with the consent condition review request to WRC.
- DWQAR Wai Comply audit is currently underway for the January-March 2023 reporting period.
- Tonkin and Taylor have been engaged for the Source Water Risk Management Plan as part of the WDC Water Safety Plan update.

5.1. Abatement notices

- Three abatement notices are in place, two in Raglan for a Cambre road stormwater and the wastewater treatment plant. The third is for the Te Kauwhata wastewater treatment plants. Actions are in place to address all notices.

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6. Customer and Billing

6.1. Billing and Customer

6.1.1. Billing

Service Request Category	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Grand Total
WTR3SafNu								1			
CreditCont										1	
WTRDWnCon								1	7	7	
WTRStmNCon									1	1	
WTR3Enq	9	14	17	15	12						67
WTRFinRead	89	90	75	64	75	60	50	55	76	47	605
WTRWtrBill	30	39	25	27	23	18	28	42	45	28	260

Six monthly reads Count	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Grand Total
READING	1,922	2,138	3,403	2,170	4,139	4,081	3985	1674	17,853

6.1.2. The planned replacement of water meters over 15 years of age

Replacement and invoice issued 2022/23	
Yes	912
In progress	474
Total	**1386**

6.1.3. Backflow Testing

Backflow Testing results in 2022/23	
Pass	3678
Repair	142
A survey is required to confirm the risk	142
Total	**3962**

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TRADE WASTE

- Accessing and searching for new customers throughout the district, applications to be sent out to all new customers (on-going).
- Quarter three invoicing completed in timeframe.

Trade Waste Agreements	Conditional Consents	Permitted (low risk)	Permitted Audited (med risk(	Septage Tanker Consent
2	**10**	**40**	**141**	**6**

Non-compliances

- There were seven non-compliances for Yashili, and a Site visit is booked for 16/05/2023.

7. Strategic resource consents.

Raglan WWTP:

The WDC is working on an MoU with the Maungatawhiri landowner, and progress is being made. Concept design costs for infrastructure projects have been higher than expected, which may affect the private land discharge option. More information will be available after Lutra completes the Basis of Design work for the WWTP upgrade. Subsurface drip field design can still be worked on.

Te Kauwhata WWTP:

The conveyance and costing plan for the free-flowing discharge method has been paused to allow for managerial discussions due to increased concept design costs. Consent preparation can still move forward, including completing the WSL Business Case for appointing a lead consultant to advance remaining non-lake discharge option investigations and critical RMA processes needed for application preparation.

Huntly WWTP:

We continue to engage with Waikato Tainui to develop a shared understanding and opportunities to support Kaitiakitanga for guardianship and conservation mitigation efforts.

The consenting project will proceed with 'Tuna as Taonga' and theoretical re-use activities for highly treated wastewater in parallel with wider on-going treatment optioneering i.e. nursery initiatives.

Matangi WWTP:

Manawhenua engagement activities are underway, with a June hui expected to advance cultural impact assessment activities. The WWTP has a non-complying discharge trend emerging, and the planning and operations team will work together to find solutions in the coming months.

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8. Key performance indicators

KPI – description	Results	Target 2022/2023
		Water
The extent to which the Council's drinking water supply complies with Part 4 of the drinking water standards (bacteria compliance criteria).	18	18
The extent to which the Council's drinking water supply complies with Part 5 of the drinking water standards (bacteria compliance criteria).	15	15
Attendance for urgent call-outs: from the time that Council receives a notification to the time that service personnel reaches the site.	April - 47 Year to date - 44	≤ 60 mins
Resolution of urgent call-outs: from the time that Council receives a notification to the time that service personnel confirms resolution of the fault or interruption.	April – 210 Year to date - 117	≤ 240 mins
Attendance for non-urgent call-outs: from the time that Council receives a notification to the time that service personnel reaches the site	April – 1 Year to date - 1	≤ 3 days
Resolution of non-urgent call-outs: from the time that Council receives a notification to the time that service personnel confirms resolution of the fault or interruption.	April – 1 Year to date - 1	< 3 days
The total number of complaints related to Water services received by Council (expressed per 1000 connections to the networked reticulation system):	April – 0.80 Year to date Result – 10.80	≤ 22/1000
		Wastewater
The number of dry weather sewage overflows from Council's system (expressed per 1000 sewage connections to that sewage system.) - Non-sensitive receiving environments.	April – 0.08 Year to date Result – 1.18	≤ 2/1000
The number of dry weather sewage overflows from Council's system (expressed per 1000 sewage connections to that sewage system.) - Sensitive receiving environments.	April – 0 Year to date Result – 0.17	≤ 2/1000

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Attendance time: from the time that Council receives a notification to the time that service personnel reaches the site.	April – 39 Year to date Result – 42	≤ 60 mins
Resolution time: from the time that Council receives a notification to the time that service personnel confirms resolution of the blockage or other fault.	April – 169 Year to date Result – 111	≤ 240 mins
The total number of complaints received by Council about any of the following (expressed per 1000 connections to the sewage system):	April – 0.47 Year to date Result – 4.41	≤ 10/1000
		Stormwater
The number of flooding events that occurs in the district per annum	1 Cyclone Gabrielle	< 5
The number of Stormwater flood/blockage events that affected habitable floors (expressed per 1000 connections):	April – 0 Year to date Result – 0.22	< 0.3
The total number of complaints received by Council about the performance of the stormwater system (expressed per 1000 connections):	April – 0.3 Year to date Result – 0.20	< 1.25
The median response time to attend a flooding event, measured from the time that Council receives notification to the time that service personnel reach per quarter.	15 hours 1 event – Timeframe was impacted by road closure	< 8 hours
Level of compliance, number of the following, Abatement, infringement notices, enforcement orders or convictions	2020/21 - 0 (1 existing Abatement from 2018/19)	0
		Health and Safety

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Safety: Lost time injury frequency rate (LTIFR) per million hours worked	2.45	≤ 5
Safety: Total recordable injury frequency rate (TRIFR) per million hours worked	8.9	≤ 20
Safety: 100% of Notifiable (or serious non-notifiable) Events reported to WDC within 2 hours of the occurrence	75% 4 notifiable events YTD	100%
Safety: 100% of Notifiable Event reports supplied to WDC within 21 business days	100% No events YTD	100%
Safety – the percentage of complaints resolved within ten working days	100%	95%
Safety- Health and safety Audit programme and action plan completed (6 monthly and then annually)	100%	1
Safety - All site emergency plans to be drilled six-monthly as per drill schedule	100%	> 100%
Safety - Monthly Health and safety meeting held with all workers	1	> 90%
Safety-Critical risk audit to be conducted by HSW BP Bi-monthly	100%	1
Safety -Actions required to be closed within one month	100%	> 90%

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Open – Information only

To	**Waters Governance Board**
Report title	**Water, Wastewater and Stormwater Planned Maintenance Schedule 2023/24**
Date:	14 June 2023
Report Author:	Robert Ball for Mathew Telfer (Operations Manager – Waikato)
Authorised by:	Gavin Ion, Chief Executive

1. Purpose of the report
Te Take moo te puurongo

This report details the planned maintenance activities for the water, wastewater and stormwater reticulated network for the coming 2023/2024 financial year.

2. Executive summary
Whakaraapopototanga matua

The information below outlines the activities, frequency and delivery method of the planned maintenance schedule for the 3 waters networks throughout the Waikato District for the coming financial year. The activities detailed are crucial to ensuring the optimal performance of the 3 waters networks and are a significant part of the networks teams day-to-day duties.

3. Staff recommendations
Tuutohu-aa-kaimahi

That the Waters Governance Board:

a. receives the report on the Water, Wastewater and Stormwater Planned Maintenance Schedule 2023/24, and

b. supports the continued delivery of planned maintenance for the reticulation network as detailed in the report.

4. Discussion
Matapaki

Planned Maintenance Activities – Water

Bulk Meters (Monthly)

Bulk meters are meters that deal with high flow/volume customers. These are almost exclusively commercial users, and monitoring the consumption of these customers is important to ensure adherence to supply agreements and accurate billing.

Overuse of water can severely strain the water network and production, potentially leading to shortages if left unmonitored. The meters are checked for any leaks or unusual flow rates.

The reticulation staff read the Bulk meters monthly, and these numbers are fed back to the Waters Billing and Compliance team for bill processing and usage compliance checks.

Huntly Flushing (Monthly)

Huntly is an area of concern with water taste and odour issues due to aged water infrastructure and an accumulation of iron and manganese deposits in the lines. Sediments can accumulate over time and scour off the pipes, resulting in discolouration and taste issues.

While this is an aesthetic issue and water quality has historically remained within limits set in the drinking water standards (DWS), it causes concern with customers for obvious reasons. Key lines in both Huntly East and West are flushed monthly to reduce sediment accumulation.

This involves a Reticulation serviceman opening a hydrant using a hydrant stand and opening the valve to allow full flow for no less than 10 minutes, but more often for 25-30 minutes. The water is flushed for this minimum 10-minute timeframe or until it visually runs clear. Flushing must be decreased during water restrictions as a significant volume of water is used in this process and can strain the network.

Huntly Rural Flushing - (6 Monthly)

As with the Huntly urban flushing, this is carried out to remove accumulated sediment in water mains in the further reaches of the Huntly network. This task is carried out less frequently than the urban flushing as iron and manganese deposits are not as abundant in this network area, and flow pressure is lower than that of the urban area, resulting in less hydraulic scouring.

The methodology employed here, however is generally the same as the flushing detailed previously, although in some areas there are no hydrants to flush from. In this instance, the line is bled from the end via a 50mm tapping band. As the flow rates at these points in the network are often very low, the flush may be drawn out over several hours.

Routine flushing (not including Huntly) DW - All areas (6 monthly)

Routine flushing of all areas outside of Huntly occurs on a 6-monthly basis. The methodology employed is identical. Flushing outside of the Huntly urban zone is not required as often as sediment accumulation in the network is significantly reduced elsewhere in the district.

Booster Pump Station (PS) Inspections (Monthly in house – annually by contractors)

Booster PS inspections involve a mechanical and basic electrical inspection to ensure that all equipment (pumps, valves, etc.) is functioning as intended. The amps of running pumps are checked to ensure they operate within acceptable ranges, manual and automatic operation modes are checked, line pressures are checked to ensure it is between acceptable values and valves, and associated pipework is inspected to identify deformities or potential failure points.

WSL electrical contractors McKay Electrical Ltd carry out more in-depth electrical maintenance. The checks conducted by McKay are more in-depth, focussing on the electrical panel and switchboard integrity and a full diagnostic of all electronic componentry on site.

Fire Hydrant Checks – (Bi-Monthly rotational basis)

Fire Hydrant checks are carried out in each area annually, with the inspections rotating on a 2-monthly basis. The areas inspected are as follows:

- Huntly
- Ngaruawahia
- Raglan
- Southern Districts
- Central (Te Kauwhata/Meremere)

Hydrant checks involve identifying and marking the hydrant lid with coloured paint, a physical test of the hydrant valve to ensure it operates as intended, and an inspection to ensure no leaks. This task is crucial for Fire and Emergency to ensure the assets are functional when required.

Critical Pipe checks – (6 monthly)

Critical pipes are exposed above-ground water pipes that cross bridges (such as Tainui Bridge in Huntly) and other infrastructure. A visual inspection is carried out to assess the pipe's integrity based on the line's security to the infrastructure it is attached to (brackets, railings etc.), absence/presence of rust and paint coating, and absence/presence of deformities in the pipework.

Reservoir Inspections (Internal) - (6 monthly)

Reservoir inspections are carried out in conjunction with the critical pipe checks detailed above. These inspections are carried out at all potable water reservoirs DW.

They are a visual check assessing the integrity of the reservoir roof and walls, absence/presence of leaks, visually ensuring no birds or vermin can access the reservoir (e.g. mesh is intact), and assess ladder and access hatch integrity. Valves and pipework are also inspected to ensure they are free of rust, deformities, and other potential failure points.

Internal inspection and cleaning of all reservoirs have been carried out in the 22/23 FY, so extensive inspections will not be required this FY. The inspections carried out in 23/24 will aim to identify and rectify any minor external defects.

Backflow Testing (External) – (Annually)

All backflow devices throughout the district are to be inspected annually. Contractors carry this out as the testing requires specialised equipment and training. Historically, only 10% of devices were tested per annum. However, this FY (22/23), 100% of the backflow devices were tested and repaired as necessary, and this will be the format for testing going forward.

15-year-old meter replacements – (Annual Rotational Basis)

All meters in the district aged >15 years are replaced. This FY (22/23), 1386 meters were replaced, bringing all meters in the district up to standard. The coming FY will not require this volume of replacement. While this is an annual activity, the number will reduce next year because we have now replaced all aging meters outside this standard. This will ensure metering standards are met, and internal staff and external contractors will deliver the work.

Leak detection (Annual Rotational Basis)

Leak detection using various technologies is carried out area by area annually. Last FY (22/23), Detection Services monitored the urban Tuakau area using FIDO bug technology to great success.

Drone technology using infrared scanning was also conducted in the Raglan area previously. This year intends to focus on the Huntly urban area, and the preferred method of monitoring is the FIDO bug data collection due to its relatively low cost and non-invasive nature.

Planned Maintenance Activities – Wastewater

WWPS inspection and washdown (Monthly)

All WWPS District-wide are inspected and washed monthly. This involves the lifting of all pumps, checking the impellor and other mechanical parts and repairing/adjusting accordingly, checking guide rail integrity, checking safety running both pumps in a manual setting, and ensuring amperage is within a correct range and a full clean of the wet well chamber to remove fat and grease build-up.

If excessive silt or rag is observed in the base of the wet well, vacuum tankers will be arranged to carry out thorough cleaning. Some WWPS have carbon odour filters installed (Marine Parade PS, Waikato Esplanade PS, Springhill Prison PS), which are checked to confirm correct functionality and determine when media requires replacement. If electrical issues are noted, McKay Electrical will be sent a job tasking to rectify them.

Raglan critical pump stations inspections (Weekly)

Critical pump stations in Raglan are identified by their close proximity to the harbour and, therefore, the elevated risk should an overflow occur. As a result, the following critical pump stations are monitored weekly in addition to monthly inspections and washdowns, as detailed above.

- Lorenzen Bay PS
- Marine Parade PS
- Greenslade Rd PS
- Nero St PS
- Wallis St PS
- Daisy St PS

The inspections here are not as in-depth as the monthly checks, more of a monitoring exercise to ensure correct functionality and comprise of a visual check of the base of the wet well, a manual run of the pumps, and a check of the amperage to ensure correct operation and mitigate the risk of failure resulting in blockages that can cause WW to enter the receiving environment.

Raglan Manholes (MH) inspections (100m) (Annual)

All manholes within 100m of the harbour have been identified as critical due to the residual risk of sewer spillage into the receiving environment. The MH's inspections include structural integrity, haunching, lids, inflow and infiltration, and checking the downstream and upstream pipework for blockages and deformities using a push camera.

District Wide manhole inspections (Rotational Annual Basis)

These are carried out annually on a rotational basis. The investigation process is identical to the previously discussed methodology.

WW non-return inspections (Annual)

This involves the physical inspection of non-return valves located at PS. The valves and valve chamber are visually inspected for defects and irregularities. Most non-return valves DW are ball-type non-returns, however there are several flap-type non-returns (specifically in Taupiri) in situ as well. Once a visual inspection is complete, a mechanical inspection is conducted.

This entails Isolation of the pump and rising main that passes through the non-return on the main isolation switch on the PS cabinet. The nuts and bolts are removed, and the valve plate is removed to allow for a thorough inspection of the valve.

Wear on the non-ball requires the replacement of associated parts. Debris and rag are also cleared during this process to ensure correct operation.

Quarterly WW jetting (3 monthly)

This involves the jetting and cleaning of key lines in the reticulation network. Contractors are engaged to carry out this work, area by area. This is usually conducted in April/May, just before the arrival of inclement weather, to ensure flows can be conveyed in the network efficiently.

Christmas Jetting of key lines (Annual)

The Christmas jetting programme is conducted in late November / early December each year and is carried out in addition to the quarterly jetting discussed above. This work ensures major WW lines DW are clear before the Christmas Holiday to minimise faults and prevent unnecessary call-outs for WSL staff and contractors.

Northern PS deep cleaning (4 monthly)

Several larger key pump stations located in the Franklin area are programmed for deep cleaning (well walls cleaned of fat, oil and grease, base cleaned of silt, rags and debris). The pump stations included in this are:

- Market St PS
- Tuakau Interceptor
- Helenslee Rd PS

This cleaning optimises the operation of the stations and ensures faults are kept to a minimum.

Low-Pressure network flushing points and air valves inspections (Annual)

Low Pressure (E-One & Aquatec) pumping systems are in various locations throughout the district (Huntly, Tauwhare Pa, Te Akau). These are domestic sewer pumps serviced and maintained by WSL.

Due to the nature of these pumps, blockages can be a common fault; therefore, checking flushing points and air valves minimises this. The flush points are checked for any accumulated debris or rag that could cause blockages or obstruction. The air valves are inspected to ensure the efficient release of air pockets from the system that could result in faults. The valves are inspected to determine correct sealing and for signs of wear.

DW CCTV Inspection and Cleaning Programme (Annual rotational basis)

This 5-year programme covers all WW pipes within the district. The WW network is cleaned and jetted, then CCTV is conducted on the cleaned pipes. Data from the contractor is fed back to staff, and from this condition, assessment gradings are fed into the asset management system, giving reliable information which informs the renewals programme.

The added benefit of this work is that large-scale cleaning of the network significantly decreases failures in the system, ensuring the network is operated at maximum efficiency. Faults such as dips and breaks in the lines can be rectified very quickly, and sources of potential blockages such as intruding roots and fat are removed from the system.

Pest Control

Genus carries out pest control services at network sites (pump stations, reservoirs) under contract. Monthly monitoring is conducted at all sites, and ad-hoc pest control is carried out as required.

Planned Maintenance Activities – Stormwater

Outfalls Discharge Monitoring (Class 1: Annual, Class 2: Biennial, Class 3: Every three years)

Class1: D800~2050, Class2: D600~800, Class3: D500 (Rural D300 included)

A total of 94 outfalls, each with a diameter exceeding 500mm, have been identified through GIS asset analysis. These outfalls have been prioritised in collaboration with the Watercare operation team. In the 22/23 fiscal year, a consultant from CKL conducted investigations on these 94 outfalls to locate and evaluate their asset conditions, documenting their status with photographs.

Subsequently, the evaluation results, including a final score system for each outlet, will be provided to WDC/WSL. This information will enable us to classify the condition of each asset, prioritize the outfalls, and establish the operational and capital expenditure (OPEX/CAPEX) program accordingly.

During the dry season of the 23/24 fiscal year, asset upgrades or maintenance actions will be implemented to enhance the level of service based on the result.

Site inspections of the outfalls will be again conducted, focusing on 34 specific points, Class 1 and small towns, which are distributed as follows:

- Huntly (4),
- NGA (3),
- Pokeno (7),
- Port Waikato (1),
- Raglan (5),
- Te Kauwhata (1),
- Tuakau (6), and
- the remaining small towns (17).

WSL will prepare site inspection reports and allocate resources to visit each outfall, capturing photographs to ensure their functionality and identify any issues related to erosion and under-cutting that could have an adverse impact on the environment, and comply with stormwater discharging consent conditions.

Stormwater ponds and wetlands_ Inspection and monitoring and physical actions. (Class 1: Annual, Class 2: Biennial, Class 3: Every three years)

Class1: 1997~2007, Class2: 2007~2017, Class3: 2017~2022

A total of 33 stormwater ponds and wetlands have been identified through GIS asset analysis, distributed as follows: Huntly (2), NGA (2), Pokeno (7), Raglan (5), Te Kauwhata (7), Tuakau (6), and the remaining small towns (4). Please note that these numbers are subject to adjustment in collaboration with the WDC park and reserve team to ensure accuracy.

Concerning these 33 assets, Watercare will develop inspection templates and allocate resources for site investigations. The inspections will take place from July to October, during the rainy season, to assess the proper functioning of various components, including inlets, forbeys, main pools, bunds, vegetation status, erosion of batter slopes, imperviousness of fill batter sections, maintenance access points, scruffy domes, outlet structures, aesthetics, and overall cleanliness.

Based on the results of the investigations, specific maintenance activities will be carried out for each asset. This may involve cleaning forbeys removing debris from the water and pool edges, weed control, and replanting.

These comprehensive monitoring and inspection efforts aim to ensure public enjoyment of these spaces, protect against invasive species, and preserve the water quality of the wetlands. It is crucial to undertake these management measures in compliance with relevant ecological and water quality consent conditions.

Stormwater ponds and wetlands_ Water quality investigation (Ecological assessment) for Class 1: 1997~2007(8), Class 2: 2007~2017 (12)

This investigation aims to assess the ecological condition of 20 old-aged during the summer season. The primary objectives are to evaluate the extent of water quality degradation and determine the likelihood of faulty connections between wastewater pipes and the stormwater network.

To achieve this, an eDNA water test will be conducted to identify species present in the water bodies (if necessary, potentially soil and plants test). The findings from this investigation will guide future actions, including a CCTV investigation to pinpoint pollutant point sources by prioritizing these assets. Additionally, a desktop analysis will explore the correlation between water quality and catchment features.

Based on the water quality investigation outcomes, an operational expenditure (OPEX) or capital expenditure (CAPEX) program will be developed for the next 24 to 25 years.

Stormwater Urban and Rural drain inspection and spraying (Annual)

WSL carries out urban drain inspections annually to determine the degree of maintenance required to maintain an efficient SW network. This work is done in the summer months (Nov-Mar) in preparation for the winter rainfall.

In the 22/23 fiscal year, planned CCTV investigations were carried out for the following locations: Raglan (330m), Tuakau (365m), Ngaruawahia (262m), and Huntly (421m). The evaluation of the CCTV footage is currently underway to gather essential information. Based on the results, investigations into faulty wastewater connections and extensive cleaning will be executed in these areas during the 23/24 fiscal year.

Furthermore, for the upcoming 23/24 fiscal year, 1120m of stormwater pipe sections are scheduled for CCTV inspections. During these inspections, the structural integrity of the manholes in urban stormwater (SW) systems will be assessed, and the pipes will be checked for root intrusion and sediment accumulation.

Additionally, open drains spanning 3414m will be inspected to identify vegetation growth and debris accumulation. Watercare has identified potential blockages in certain open-channel sections, causing disruptions to the stormwater flow. The breakdown of the 3414m length is as follows: Huntly (398m), Port Waikato (1136m), and Te Kauwhata (1880m). An appointed contractor will locate these sections and perform spraying and weed removal along the corridor to maintain the open drains.

Please note that these numbers for CCTV and open channel length are initial estimates and may be subject to change during operations.

Stormwater floodgate inspections (Annual)

Watercare has identified a total of 29 flap gates located at the end of outlet pipes. The majority of these flap gates are situated in Huntly, along the Waikato River. The breakdown of the flap-gate numbers is as follows: Huntly (21), Ngaruawahia (2), Pokeno (1), and Raglan (5).

A contractor will visit each site to evaluate the functionality of these flap gates, particularly in flood conditions. Appropriate maintenance measures will be undertaken to prevent backwater flow from the river if deemed necessary.

Flood Pump Inspection Port Waikato (Annual)

The Flood PS at Port Waikato is inspected annually to determine the condition and operation of the asset. The pipework is inspected for degradation and faults, and the pump itself is serviced annually (coinciding with the inspection work) by a contractor to ensure optimal operation.

Electrical

Electrical Maintenance Inspections (Annual rotational basis)

WSL contracts McKay Electrical Ltd to service and maintains all electrical assets DW. A significant part of this work is the routine annual inspections of all WW PS', Water Booster PS', Reservoirs, and SW PS'. A thorough examination of all electrical assets is conducted, and each individual site is maintained once a year. A report is sent to WSL staff, and a remedial work schedule is generated.

Generator Servicing (6 Monthly)

Watercare Waikato has five generators of varying sizes used during power outages to ensure the continued operation of the network and treatment facilities. Pace Power & Engineering have, as of the 23/24 FY, a 24-month service contract to maintain these units. All generators are serviced twice a year, and Pace will also carry out any unscheduled maintenance required as necessary.

Reporting and monitoring

The majority of planned maintenance is loaded into the EAM system per month, depending on the cycle of work. This allows for adjustments as required.

In the future, the intention is to load the annual planned work schedule, which will be adjusted as required.

More minor planned works are managed manually at this stage e.g. Annual flushing and non-return valve. These activities will be in the system in the future as the next implementation/upgrade.

We are working with Watercare Auckland on the reporting functions to create automated reporting for visibility and efficiency. The team actively manages the performance and delivery.

5. Attachments
Ngaa taapirihanga

Attachment 1 –Outfalls list

Attachment 2 –Stormwater ponds/wetlands list

Attachment 3 –Opencahnnel list

Attachment 4 – Flapgate list

Attachment 5 – CCTV(Regular basis)

Attachment 6 – Networks Planned Maintenance Calendar

Attachment 1 –Stormwater outfalls list

No	Area	Operation Zone	Asset ID	Dia	Classfication	Installation year	Location	
							x	y
1	Gordonton	GDT_OZ_01	WDCSW20080310155818	300	Class3	2008	1803605.381	5828246.368
2	Hopuhopu	HP_OZ_01	WDCSW20150219155608	800	Class1	2015	1791511.078	5832565.509
3	Horotiu	HRT_OZ_01	WDCSW20180724095407	600	Class2	2018	1794282.267	5824245.013
4	Horotiu	HRT_OZ_02	WDCSW20021006134945	525	Class3	1972	1793225.933	5825172.154
5	Huntly	HU_OZ_04	WDCSW20020825125424	600	Class2	1974	1789763.116	5839254.528
6	Huntly	HU_OZ_05	WDCSW20150415090811	600	Class2	2015	1790397.971	5840796.594
7	Huntly	HU_OZ_06	WDCSW20020825132108	525	Class3	1974	1789454.869	5841171.638
8	Huntly	HU_OZ_07	WDCSW20150415090505	600	Class2	2015	1789290.381	5840843.544
9	Huntly	HU_OZ_08	WDCSW20150415090753	575	Class3	2015	1790431.458	5840930.137
10	Huntly	HU_OZ_09	WDCSW20020825101452	675	Class2	1974	1789836.198	5841355.55
11	Huntly	HU_OZ_12	NR	1000	Class1		1790530.831	5838800.935
12	Huntly	HU_OZ_13	WDCSW20090911095228	1000	Class1	1986	1790456.682	5839500.248
13	Huntly	HU_OZ_15	WDCSW20070109134801	750	Class2	1982	1791541.653	5840785.336
14	Huntly	HU_OZ_15	WDCSW20090715081906	675	Class2	2009	1791525.302	5840613.301
15	Huntly	HU_OZ_17	WDCSW20030714133501	650	Class2	2003	1791195.41	5841496.771
16	Huntly	HU_OZ_17	WDCSW20060302072138	525	Class3	2006	1791200.704	5841281.595
17	Huntly	HU_OZ_18	NR	1000	Class1		1790650.121	5842147.269
18	Huntly	HU_OZ_19	WDCSW20020822190836	750	Class2	1976	1792063.69	5842345.759
19	Huntly	HU_OZ_22	NR	1000	Class1		1790702.151	5844223.083
20	Meremere	MER_OZ_01	WDCSW20140911132516	600	Class2	2014	1783605.589	5867719.664
21	Mercer	MERC_OZ_01	WDCSW20111122115907	825	Class1	2003	1781419.236	5872108.061
22	Mercer	MERC_OZ_01	WDCSWFR46011	900	Class1	1997	1781241.728	5872364.368
23	Matangi	MTG_OZ_01	WDCSW20150210100521	300	Class3	1960	1810775.827	5813057.32
24	Ngaruawahia	NG_OZ_03	WDCSW20030813143722	600	Class2	2003	1789267.986	5828383.75
25	Ngaruawahia	NG_OZ_03	WDCSW20030812144844	750	Class2	2003	1789152.56	5828475.422
26	Ngaruawahia	NG_OZ_03	WDCSW20090707135707	1200	Class1	1980	1788889.6	5828693.837
27	Ngaruawahia	NG_OZ_04	WDCSW20150115115151	600	Class2	1986	1790091.325	5828534.71

No	Area	Operation Zone	Asset ID	Dia	Classfication	Installation year	Location	
28	Ngaruawahia	NG_OZ_06	WDCSW20020928083655	600	Class2	1997	1789190.945	5829258.772
29	Ngaruawahia	NG_OZ_09	WDCSW20060215103349	600	Class2	2006	1790562.402	5827234.984
30	Ngaruawahia	NG_OZ_11	WDCSW20191121151309	1200	Class1	2019	1790107.223	5828689.788
31	Ngaruawahia	NG_OZ_12	WDCSW20130819091235	825	Class1	1974	1789796.115	5829419.82
32	Pokeno	PO_OZ_01	WDCSW20171103094954	1800	Class1	2016	1778803.704	5875892.67
33	Pokeno	PO_OZ_04	WDCSW20131115142635	1350	Class1	2013	1779146.294	5875567.356
34	Pokeno	PO_OZ_04	WDCSW20161007084223	1350	Class1	2016	1779145.635	5875569.066
35	Pokeno	PO_OZ_05	WDCSWFR39386	750	Class2	1960	1779314.955	5875816.916
36	Pokeno	PO_OZ_07	WDCSW20121018101900	1200	Class1	2012	1778704.449	5876732.269
37	Pokeno	PO_OZ_09	WDCSW20150209121730	2050	Class1	2015	1778857.055	5876460.505
38	Pokeno	PO_OZ_09	WDCSW20160302083013	900	Class1	2015	1778842.864	5876864.292
39	Pokeno	PO_OZ_10	WDCSW20150109152706	900	Class1	2014	1778396.104	5877356.842
40	Pokeno	PO_OZ_12	WDCSW20150827130533	675	Class2	2015	1778690.893	5877533.336
41	Pokeno	PO_OZ_12	WDCSW20150828105425	600	Class2	2015	1778635.192	5877782.825
42	Pokeno	PO_OZ_14	WDCSW20170719133855	675	Class2	2016	1778788.697	5877457.842
43	Pokeno	PO_OZ_14	WDCSW20170719134859	525	Class3	2016	1778804.421	5877438.925
44	Pokeno	PO_OZ_15	WDCSW20160804120330	525	Class3	2016	1778964.399	5877038.487
45	Pokeno	PO_OZ_16	WDCSW20160804120556	600	Class2	2016	1778824.071	5876934.028
46	Pokeno	PO_OZ_17	WDCSW20151221155530	525	Class3	2015	1778569.835	5877022.44
47	Pokeno	PO_OZ_18	WDCSW20130415111625	525	Class3	2012	1778716.15	5876761.113
48	PortWaikato	POW_OZ_01	WDCSW20141110082525	975	Class1	2014	1751880.099	5859885.298
49	PortWaikato	POW_OZ_02	WDCSWFR47004	600	Class2	1993	1752184.189	5859959.273
50	PortWaikato	POW_OZ_05	WDCSW20150209150039	600	Class2	1960	1753323.773	5860898.602
51	Raglan	RA_OZ_01	WDCSW20090309085133	600	Class2	2009	1764971.482	5814863.512
52	Raglan	RA_OZ_02	WDCSW20040204124154	600	Class2	2004	1765020.965	5815001.574
53	Raglan	RA_OZ_02	WDCSW20090617092751	600	Class2	1976	1764991.453	5815052.664
54	Raglan	RA_OZ_03	WDCSW20020901145014	525	Class3	2000	1764521.951	5815001.114
55	Raglan	RA_OZ_04	WDCSW20020901101950	600	Class2	1946	1764369.345	5814803.355
56	Raglan	RA_OZ_05	WDCSW20190312121159	1200	Class1	1982	1764507.274	5814553.706
57	Raglan	RA_OZ_08	WDCSW20150130112800	900	Class1	2006	1765095.87	5814874.97

No	Area	Operation Zone	Asset ID	Dia	Classfication	Installation year	Location	
58	Raglan	RA_OZ_08	WDCSW20150130113023	675	Class2	2009	1765496.849	5814812.373
59	Raglan	RA_OZ_10	WDCSW20150130113444	825	Class1	2006	1766084.514	5814345.498
60	Raglan	RA_OZ_11	WDCSW20091116092000	975	Class1	2009	1765817.349	5814156.656
61	Raglan	RA_OZ_15	WDCSW20150413090328	600	Class2	2005	1764481.283	5814388.899
62	Raglan	RA_OZ_16	WDCSW20020831171746	600	Class2	1999	1763772.297	5813997.259
63	Raglan	RA_OZ_17	WDCSW20210112111600	525	Class3	2020	1764139.938	5813286.633
64	Raglan	RA_OZ_17	WDCSW20210112111655	675	Class2	2020	1764154.038	5812823.698
65	Raglan	RA_OZ_17	WDCSW20210112111700	525	Class3	2020	1764366.088	5813023.477
66	Raglan	RA_OZ_19	WDC7627	1050	Class1	2022	1764023.005	5812619.442
67	Taupiri	TAP_OZ_01	WDCSW20190328135209	525	Class3	2018	1793400.036	5834482.729
68	Te Kauwhata	TK_OZ_02	WDCSW20180411093830	825	Class1	2017	1791027.179	5858525.075
69	Te Kauwhata	TK_OZ_05	WDCSW20050921145622	525	Class3	2005	1790236.229	5858047.792
70	Te Kauwhata	TK_OZ_05	WDCSW20150109143348	750	Class2	2006	1790211.665	5858123.957
71	Te Kauwhata	TK_OZ_08	WDCSW20171010111533	600	Class2	2016	1788856.205	5857977.997
72	Te Kauwhata	TK_OZ_10	WDCSW20171113142933	600	Class2	2017	1789119.931	5858330.735
73	Te Kauwhata	TK_OZ_11	WDC2745	750	Class2	2021	1789082.576	5857945.734
74	Te Kauwhata	TK_OZ_13	WDCSW20210316122630	675	Class2	2020	1790550.899	5857088.308
75	Te Kowhai	TKWH_OZ_01	WDCSW20040310090028	450	Class3	2004	1789531.226	5821022.769
76	Tamahere	TMH_OZ_01	WDCSW20100316135422	675	Class2	1999	1810036.703	5808353.248
77	Tamahere	TMH_OZ_01	WDCSW20150210094529	900	Class1	2008	1805364.269	5810007.581
78	Tamahere	TMH_OZ_01	WDCSW20050809132341	825	Class1	2005	1806746.842	5810381.425
79	Tuakau	TUK_OZ_01	WDCSW20170112113309	525	Class3	2008	1772877.68	5874878.927
80	Tuakau	TUK_OZ_01	WDCSWFR9515	825	Class1	2000	1772788.105	5874877.617
81	Tuakau	TUK_OZ_02	WDCSWFR38159	750	Class2	2001	1772331.203	5874539.506
82	Tuakau	TUK_OZ_02	WDCSWFR38160	750	Class2	2001	1772271.899	5874505.483
83	Tuakau	TUK_OZ_02	WDCSWFR63362	825	Class1	2006	1772114.007	5874343.066
84	Tuakau	TUK_OZ_03	WDCSW20160801092430	1050	Class1	2015	1772064.763	5874327.269
85	Tuakau	TUK_OZ_03	WDCSW20210122103004	675	Class2	2000	1771775.532	5874509.102
86	Tuakau	TUK_OZ_03	WDCSWFR62591	825	Class1	2007	1771762.891	5874612.211
87	Tuakau	TUK_OZ_03	WDCSWFR62592	1600	Class1	2007	1771754.258	5874589.875

No	Area	Operation Zone	Asset ID	Dia	Classfication	Installation year	Location	
88	Tuakau	TUK_OZ_03	WDCSWFR66739	675	Class2	2008	1771885.185	5874655.652
89	Tuakau	TUK_OZ_04	WDCSW20190821124811	600	Class2	2019	1772692.107	5873768.533
90	Tuakau	TUK_OZ_06	WDCSWFR70658	600	Class2	2007	1772007.248	5874936.255
91	Tuakau	TUK_OZ_08	WDCSW20150402142526	1050	Class1	2014	1773274.997	5874467.19
92	Tuakau	TUK_OZ_11	WDCSWFR39247	525	Class3	2001	1771667.874	5873512.365
93	Tuakau	TUK_OZ_11	WDCSWFR57524	525	Class3	2005	1771756.558	5873644.138
94	Whatawhata	WHTA_OZ_02	WDCSW20150612145528	1050	Class1	2014	1788507.9	5814751.395

Attachment 2 –Stormwater pond and wetland list

No	Area	Operation Zone	Asset ID	Installation year	Classfication	Area(m2)	Location	
							x	y
1	Horotiu	HRT_OZ_01	WDCSW20171009121816	2013	Class 2	930	1803605.381	5828246.368
2	Huntly	HU_OZ_15	WDCSW20171106152603	2006	Class 1	1,693	1791511.078	5832565.509
3	Huntly	HU_OZ_19	WDCSW20171009155111	2010	Class 2	703	1794282.267	5824245.013
4	Mercer	MERC_OZ_01	WDCSWFR46078	1997	Class 1	1,050	1793225.933	5825172.154
5	Ngaruawahia	NG_OZ_11	WDCSW20080604125944	2008	Class 2	613	1789763.116	5839254.528
6	Ngaruawahia	NG_OZ_11	WDCSW20200204135451	2019	Class 3	1,553	1790397.971	5840796.594
7	Pokeno	PO_OZ_01	WDCSW20180523093138	2017	Class 2	5,900	1789454.869	5841171.638
8	Pokeno	PO_OZ_02	NR	2020	Class 3	6,725	1789290.381	5840843.544
9	Pokeno	PO_OZ_03	NR	2020	Class 3	3,956	1790431.458	5840930.137
10	Pokeno	PO_OZ_04	WDCSW20140822104214	2014	Class 2	2,691	1789836.198	5841355.55
11	Pokeno	PO_OZ_04	WDCSW20140822105516	2014	Class 2	6,206	1790530.831	5838800.935
12	Pokeno	PO_OZ_06	WDCSW20180301112629	2017	Class 2	1,013	1790456.682	5839500.248
13	Pokeno	PO_OZ_20	NR	2022	Class 3	1,993	1791541.653	5840785.336
14	Raglan	RA_OZ_12	WDCSW20110505125613	2008	Class 2	390	1791525.302	5840613.301
15	Raglan	RA_OZ_12	WDCSW20110505125719	2008	Class 2	599	1791195.41	5841496.771
16	Raglan	RA_OZ_17	NR	2020	Class 3	1,847	1791200.704	5841281.595
17	Raglan	RA_OZ_18	WDCSW20081024095941	2007	Class 1	1,420	1790650.121	5842147.269
18	Raglan	RA_OZ_19	WDC3550	2021	Class 3	221	1792063.69	5842345.759
19	Taupiri	TAP_OZ_01	WDC2523	2020	Class 3	975	1790702.151	5844223.083
20	Te Kauwhata	TK_OZ_01	WDCSW20171031093837	2007	Class 1	1,916	1783605.589	5867719.664
21	Te Kauwhata	TK_OZ_02	WDCSW20180411140551	2017	Class 2	2,897	1781419.236	5872108.061
22	Te Kauwhata	TK_OZ_03	WDCSW20171205143315	2016	Class 2	504	1781241.728	5872364.368
23	Te Kauwhata	TK_OZ_03	WDCSW20171205145607	2016	Class 2	707	1810775.827	5813057.32
24	Te Kauwhata	TK_OZ_09	NR	2021	Class 3	1,074	1789267.986	5828383.75
25	Te Kauwhata	TK_OZ_12	NR	2019	Class 3	13,153	1789152.56	5828475.422

No	Area	Operation Zone	Asset ID	Installation year	Classfication	Area(m2)	Location	
26	Te Kauwhata	TK_OZ_13	NR	2020	Class 3	16,194	1788889.6	5828693.837
27	Tuakau	TUK_OZ_02	WDCSWFR16716	1999	Class 1	705	1790091.325	5828534.71
28	Tuakau	TUK_OZ_04	WDCSWFR47075	2002	Class 1	581	1789190.945	5829258.772
29	Tuakau	TUK_OZ_04	WDCSWFR47076	2002	Class 1	1,522	1790562.402	5827234.984
30	Tuakau	TUK_OZ_04	NR	2020	Class 3	629	1790107.223	5828689.788
31	Tuakau	TUK_OZ_04	NR	2020	Class 3	873	1789796.115	5829419.82
32	Tuakau	TUK_OZ_05	WDCSWFR47074	2002	Class 1	691	1778803.704	5875892.67
33	Whatawhata	WHTA_OZ_01	WDCSW20190311071335	2018	Class 3	1,741	1779146.294	5875567.356

Attachment 3 –Openchannel list

No	Area	UNITID	Length	Road
1	Huntly	RR-01	398	Riverview Rd
2	PortWaikato	AD-01	925	Ashwell Dr
3	PortWaikato	AD-02	89	Ashwell Dr
4	PortWaikato	AD-03	122	Ashwell Dr
5	Te Kauwhata	MR-01	416	Mahi Rd
6	Te Kauwhata	TR-01	1287	Traverse Rd
7	Te Kauwhata	TR-02	62	Traverse Rd
8	Te Kauwhata	TR-03	115	Traverse Rd

Attachment 4 –Flapgates list

No	Area	Operation Zone	Asset ID	Dia	Classfication	Installation year	Location	
							x	y
1	Huntly	HU_OZ_05	WDCSW20080806143736	600	Class1	2003	1790244.31	5840750.913
2	Huntly	HU_OZ_05	WDCSW20080806144412	600	Class1	1977	1790389.305	5840795.984
3	Huntly	HU_OZ_08	WDCSW20080806144936	575	Class2	2014	1790425.265	5840931.726
4	Huntly	HU_OZ_10	WDCSW20080806145541	375	Class2	1972	1790353.04	5841968.205
5	Huntly	HU_OZ_10	WDCSW20141223140941	375	Class2	2002	1790266.269	5841169.618
6	Huntly	HU_OZ_14	WDCSW20141224080331	450	Class2	2005	1790678.025	5841372.117
7	Huntly	HU_OZ_14	WDCSW20141224085300	225	Class3	2000	1790605.899	5840821.769
8	Huntly	HU_OZ_12	WDCSW20141224091133	300	Class3	1968	1790550.858	5838187.855
9	Huntly	HU_OZ_09	WDCSW20141224093803	675	Class1	1974	1789836.198	5841355.55
10	Huntly	HU_OZ_18	WDCSW20150302162422	300	Class3	2009	1790880.667	5841835.642
11	Huntly	HU_OZ_21	WDCSW20150303084914	450	Class2	2015	1790867.416	5841855.258
12	Huntly	HU_OZ_05	WDCSW20150303133458	300	Class3	2015	1790317.409	5840563.041
13	Huntly	HU_OZ_14	WDCSW20150309152728	300	Class3	1950	1790597.562	5840731.917
14	Huntly	HU_OZ_11	WDCSW20150408084546	350	Class3	1952	1790616.239	5840434.798
15	Huntly	HU_OZ_11	WDCSW20150408085151	600	Class1	1952	1790616.866	5840435.757
16	Huntly	HU_OZ_13	WDCSW20150408090736	1000	Class1	1986	1790456.476	5839501.188
17	Huntly	HU_OZ_13	WDCSW20150408091149	825	Class1	1986	1790556.935	5839523.825
18	Huntly	HU_OZ_22	WDCSW20150410092151	375	Class2	2015	1790607.977	5843838.615
19	Huntly	HU_OZ_12	NR	1800	Class1		1790532.207	5838799.924
20	Huntly	HU_OZ_12	NR	600	Class1		1790697.119	5844222.004
21	Huntly	HU_OZ_18	NR	1000	Class1		1790650.121	5842147.269
22	Ngaruawahia	NG_OZ_03	WDCSW20150127133910	1200	Class1	1980	1788889.6	5828693.837

No	Area	Operation Zone	Asset ID	Dia	Classfication	Installation year	Location	
23	Ngaruawahia	NG_OZ_09	WDCSW20150127162819	700	Class1	1999	1789944.879	5827563.188
24	Pokeno	PO_OZ_04	WDCSW20150410075348	750	Class1	2014	1779254.323	5875566.567
25	Raglan	RA_OZ_10	WDCSW20150105093718	600	Class1	2009	1766140.784	5814685.409
26	Raglan	RA_OZ_10	WDCSW20150105095244	300	Class3	1990	1766177.453	5814651.606
27	Raglan	RA_OZ_10	WDCSW20150105101859	300	Class3	1990	1766186.21	5814642.268
28	Raglan	RA_OZ_02	WDCSW20150105105116	600	Class1	1976	1764991.453	5815052.664
29	Raglan	RA_OZ_02	WDCSW20150105110246	1200	Class1	1975	1765061.502	5815071.24

Attachment 5 – CCTV Planned(Regular monitoring)

Plan ID	Area	Operation Zone	Length	Diameter	OP Length	Remark
HU01	Huntly	HU_OZ_22	50	450	241	
HU02	Huntly	HU_OZ_22	76	450	150	
HU05	Huntly	HU_OZ_11	122	600	408	
HU07	Huntly	HU_OZ_02	122	375	95	
HU06	Huntly	HU_OZ_05	87	750	450	
HU04	Huntly	HU_OZ_14	16	300	0	None open channel
HU03	Huntly	HU_OZ_22	708	1200	0	600-1200
NG02	Ngaruawahia	NG_OZ_03	60	450	76	
NG03	Ngaruawahia	NG_OZ_03	33	1200	600	
NG04	Ngaruawahia	NG_OZ_03	28	675	44	
NG05	Ngaruawahia	NG_OZ_03	13	375	55	
NG01	Ngaruawahia	NG_OZ_13	128	900	390	
PO04	Pokeno	PO_OZ_04	233	825	281	
PO02	Pokeno	PO_OZ_05	185	750	320	
PO03	Pokeno	PO_OZ_05	68	750	320	
PO01	Pokeno	PO_OZ_09	216	825	700	State-highway
PO05	Pokeno	PO_OZ_01	186	1800	0	Wetland
RA03	Raglan	RA_OZ_10	94	450	74	pipe investigation
RA01	Raglan	RA_OZ_11	94	450	74	pipe investigation
RA04	Raglan	RA_OZ_05	130	600	200	
RA02	Raglan	RA_OZ_11	12	300	74	
TK01	Te Kauwhata	TK_OZ_05	91	750	0	Non open channel
TK02	Te Kauwhata	TK_OZ_05	141	525	0	Non open channel
TU01	Tuakau	TUK_OZ_03	75	1600	564	
TU04	Tuakau	TUK_OZ_02	152	820	170	225-820
TU02	Tuakau	TUK_OZ_03	76	1050	180	
TU03	Tuakau	TUK_OZ_03	62	825	90	

Watercare Operational Planner FY 2023

		July		August		September		October		November		December		January		February		March		April		May		June
Saturday	1																		1					
Sunday	2						1						1	NY Day					2					
Monday	3	WWPS					2	WWPS					2	Day After NY Day					3	WWPS	1			WWPS
Tuesday	4	Bulk Metres	1	WWPS			3	Bulk Metres					3	NY Holiday					4	Bulk Metres	2			Bulk Metres
Wednesday	5		2	Bulk Metres			4		1	WWPS			4	WWPS	1	WWPS	1	WWPS	5		3	WWPS		
Thursday	6		3				5		2	Bulk Metres			5	Bulk Metres	2	Bulk Metres	2	Bulk Metres	6		4	Bulk Metres	1	
Friday	7		4		1	WWPS	6	Tau & HH FH	3		1	WWPS	6		3		3		7	Good Friday	5		2	
Saturday	8		5		2		7		4		2		7		4		4		8		6		3	
Sunday	9	HLY Flush	6		3		8		5		3		8		5		5		9		7		4	
Monday	10	Raglan pump lifting	7	Raglan pump lifting	4	Bulk Metres	9	Taupiri & HH Flush	6		4	Bulk Metres	9		6	Waitangi Day	6		10	Easter Monday	8		5	King's B'Day
Tuesday	11		8		5	NGA Flush	10	TK Rural FL	7	Raglan pump lifting	5	HLY Flush	10		7		7	S/W inspect	11		9		6	Meremere Flush
Wednesday	12		9		6	Raglan pump lifting	11		8	HLY Flush	6	Raglan pump lifting	11		8		8	Raglan pump lifting	12		10		7	
Thursday	13		10		7		12		9		7		12		9		9	HLY Flush	13		11		8	
Friday	14	Matariki	11	Hly Rural FL	8		13		10		8		13		10		10		14		12		9	
Saturday	15		12		9		14		11		9		14		11		11		15		13		10	
Sunday	16		13		10		15		12		10		15		12		12		16		14		11	
Monday	17	HLY FH	14	HLY Flush	11	NGA FH	16	Raglan pump lifting	13		11		16	Raglan pump lifting	13		13	Floodgates	17	HLY Flush	15	Te Kau FH	12	HLY Flush
Tuesday	18		15	Floodgate	12	HLY Flush	17	HLY Flush	14	Bermads	12	South & West Flush	17	Raglan MH annual	14	HLY Flush	14	S/W maint	18		16	Raglan pump lifting	13	Raglan pump lifting
Wednesday	19		16		13		18		15	RAG FH	13		18	HLY Flush	15		15		19	Raglan pump lifting	17		14	Merem FH
Thursday	20		17		14		19		16	Xmas Inspections	14		19		16		16		20	Tau & HH Flush	18	Te Kau Flush	15	
Friday	21		18		15		20		17		15		20		17		17		21		19		16	
Saturday	22		19		16		21		18		16		21		18		18		22		20		17	
Sunday	23		20		17		22		19		17		22		19		19		23		21		18	
Monday	24		21		18		23	Labour Day	20		18		23		20		20	Hly Rural FL	24		22	HLY Flush	19	
Tuesday	25		22		19		24		21	Sewer non-returns	19	Merem Flush	24		21	Raglan pump lifting	21	Nga Flush	25	ANZAC Day	23		20	Sewer non-returns
Wednesday	26	Critical pipes	23		20		25		22	Te Kau Flush	20		25	Critical pipes	22		22		26	TK Rural FL	24	RAG Flush	21	
Thursday	27	Res Insp	24		21		26		23	RAG Flush	21		26	Res Insp	23		23		27		25		22	
Friday	28		25		22		27		24		22		27		24		24		28		26		23	
Saturday	29		26		23		28		25		23		28		25		25		29		27		24	
Sunday	30		27		24		29		26		24		29		26		26		30		28		25	
Monday	31		28		25		30		27		25	Christmas Day	30	Auckland Ann.	27		27		31		29		26	
Tuesday			29		26		31		28		26	Boxing Day	31	1/4 Jetting	28		28				30		27	
Wednesday			30		27				29		27				29		29				31		28	
Thursday			31		28				30		28						30						29	
Friday					29						29						31						30	
Saturday					30						30													
Sunday											31													

Wastewater pump station inspection		Urban drains inspections / maintenance		Bulk Meters	
Critical pipes inspection		Floodgate inspections		Rural Flushing	
Reservoir inspection		FH Marking testing & Maintenance		1/4 Jetting	
Pre Christmas inspection		District wide flushing		6 Monthly Line Jetting	
Raglan pump lifting		Domestic WW non-return inspections		Res Inspections	
n Manhole inspections Annual		Bermad operation / maintenance		Flushing	

Waikato District Council
Te Kaunihera aa Takiwaa o Waikato

Open

To	**Waters Governance Board**
Report title	**Exclusion of the Public**
Date:	Tuesday, 6 June 2023
Report Author:	Elizabeth Saunders, Democracy Advisor
Authorised by:	Gaylene Kanawa, Democracy Manager

1. Staff recommendations
Tuutohu-aa-kaimahi

THAT the public be excluded from the following parts of the proceedings of this meeting.

The general subject 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(1) 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(1) for the passing of this resolution
Item PEX 1 **Confirmation of Minutes** **Item number PEX 2** **Action Register**	**Good reason to withhold exists under Section 6 or Section 7 Local Government Official Information and Meetings Act 1987**	**Section 48(1)(a)**
Item PEX 3.1 **TKWA Resource Consent Renewal Report**		
Item PEX 3.2 **Presentation – Pukekohe Wastewater Treatment Plant**		

General subject of each matter to be considered	Reason for passing this resolution in relation to each matter	Ground(s) under section 48(1) for the passing of this resolution
Item PEX 3.3 **Waters Financial Results – May 2023**		
Item PEX 3.4 **Three Waters Reform Project Update – May 2023**	**Good reason to withhold exists under Section 6 or Section 7 Local Government Official Information and Meetings Act 1987**	**Section 48(1)(a)**
Item PEX 3.5 **Capital Project Delivery Update – May 2023**		
Item PEX 3.6 **Te Kauwhata Treated Water Conveyance Solution**		

This resolution is made in reliance on section 48(1)(a) of the Local Government Official Information and Meetings Act 1987 and the particular interest or interests protected by Section 6 or Section 7 of that Act which would be prejudiced by the holding of the whole or relevant part of the proceedings of the meeting in public, as follows:

Item No.	Section	Interest
Item PEX 1 **Confirmation of Minutes** **Item number PEX 2** **Action Register**	**Refer to the previous Public Excluded reason in the agenda for this meeting.**	

Item No.	Section	Interest
Item PEX 3.1 **TKWA Resource Consent Renewal Report**	**7(2)(b)(ii)**	**To protect information that would otherwise unreasonably prejudice a person's commercial position.**
	7(2)(c)(i)	**To protect information that is subject to an obligation of confidence and to ensure the information avenue remains open, when it is in the public interest for it to do so.**
	7(2)(c)(ii)	**To protect information that is subject to an obligation of confidence and to protect the public interest**
	7(2)(i)	**To enable negotiations to carry on without prejudice or disadvantage.**
Item PEX 3.2 **Presentation – Pukekohe Wastewater Treatment Plant**	**7(2)(b)(ii)**	**To protect information that would otherwise unreasonably prejudice a person's commercial position.**
	7(2)(h)	**To enable commercial activities to be carried out without prejudice or disadvantage.**
Item PEX 3.3 **Waters Financial Results – May 2023**	**7(2)(b)(ii)**	**To protect information that would otherwise unreasonably prejudice a person's commercial position.**
	7(2)(h)	**To enable commercial activities to be carried out without prejudice or disadvantage.**

Item No.	Section	Interest
Item PEX 3.4 **Three Waters Reform Project Update – May 2023**	**7(2)(c)(i)** **7(2)(c)(ii)** **7(2)(j)**	**To protect information that is subject to an obligation of confidence and to ensure the information avenue remains open, when it is in the public interest for it to do so.** **To protect information that is subject to an obligation of confidence and to protect the public interest** **To prevent use of the information for improper gain or advantage**
Item PEX 3.5 **Capital Project Delivery Update – May 2023**	**7(2)(b)(ii)** **7(2)(h)**	**To protect information that would otherwise unreasonably prejudice a person's commercial position.** **To enable commercial activities to be carried out without prejudice or disadvantage.**
Item PEX 3.6 **Te Kauwhata Treated Water Conveyance Solution**	**7(2)(b)(ii)** **7(2)(h)** **48(1)(d)**	**To protect information that would otherwise unreasonably prejudice a person's commercial position.** **To enable commercial activities to be carried out without prejudice or disadvantage.** **To enable deliberations in private on a decision or recommendation in any applicable proceeding**

2. Attachments

There are no attachments for this report.