

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 **TUESDAY, 23 FEBRUARY 2021** commencing at **10.30am**.

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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 Meeting

To	Waters Governance Board
From	Ian Cathcart Special Infrastructure Projects Manager
Date	12 February 2021
Prepared by	Lynette Wainwright Committee Secretary
Chief Executive Approved	Y
Reference #	GOV1301
Report Title	Register of Interests

1. EXECUTIVE SUMMARY

A copy of the Register of Interests is attached for the Board's information. The register will be updated following receipt of information during the year.

2. RECOMMENDATION

THAT the report from the Special Infrastructure Projects Manager be received.

3. ATTACHMENTS

Register of Interests

Register of Interests – Waters Governance Board

Ruku Schaafhausen

Companies and Trusts	Te Waharoa Investments Ltd AgResearch Miro Hautupua Ltd Te Whakakitenga O Waikato Inc Member of Te Arataura
Community organisations	Equippers Trust Tindall Foundation Princes Trust New Zealand
Other appointments	Waikato Regional Council – Co-Governance Committee Waipa District Council – Co-Governance Committee Waikato District Council – Co-Governance Committee Hamilton City Council – Co-Governance Committee Waikato Plan Leadership Committee Chair, Freshwater Iwi Leaders Group
Property within the District	Nil
Any other interests	Nil

Garth Dibley

Companies and Trusts	Water New Zealand – Director
Community organisations (membership)	Electricity Networks Association – member E-Charge working group – MfE member
Other appointments	SmartCo – Chairperson
Property within the District	Yes - Tamahere
Any other interests	Nil

David Wright

Companies and Trusts	Director, David Wright Limited Trustee, Tervuren Trust Trustee, Solomon Islands Tourism Infrastructure Development Fund (Incorporated) Chief Executive, Red Meat Profit Partnership Chair of Waimea Water Ltd Chair, Solomon Islands Airport Corporation Limited Haapa Research Limited
Community organisations	Chair, Tokelau Renewable Energy Steering Group Member, Audit and Risk Committee, Internet New Zealand Incorporated
Other appointments	Chair, Central Air Ambulance Rescue Limited Chair, Search and Rescue Services Limited
Property within the District	Nil
Any other interests	Nil

Gavin Ion

Companies and Trusts	Trustee and Beneficiary in a family trust
Community organisations	<p>Member Swimming Waikato Technical Panel</p> <p>Member Swimming New Zealand Technical Advisory Committee</p> <p>Chairperson Swimming Waikato</p> <p>Member of the Waikato Regional Sports Facility Plan Steering Group</p> <p>Member of Institute of Directors</p> <p>Member of International City Managers' Association</p> <p>Member of Chartered Accountants of Australia and New Zealand</p> <p>Member of Business Leaders Health & Safety Forum Steering Group</p> <p>RMA Commissioner</p> <p>Member of the Waikato Caring for Communities Committee</p>
Other appointments	<p>Chief Executive, Waikato District Council</p> <p>Director, Waikato Local Authority Shared Services Limited</p> <p>Chair, Audit & Risk Committee (WLASS)</p>
Property within the District	Nil
Any other interests	Nil

Jackie Colliar

Companies and Trusts	Te Whakakitenga O Waikato Inc Member of Te Arataura
Community organisations	Nil
Other appointments	Trustee and Chair of Taniwha Marae Waipa District Council – Co-Governance Committee Waikato Regional Council – Co-Governance Committee Waikato River Authority Board Member
Property within the District	Nil
Any other interests	Employee of Hamilton City Council Project Lead for the Subregional Three Waters project on behalf of Future Proof Project Manager of the Hamilton Waikato Metro Wastewater Detailed Business Case Project

Open Meeting

To	Waters Governance Board
From	Gavin Ion Chief Executive
Date	12 February 2021
Prepared by	Lynette Wainwright Committee Secretary
Chief Executive Approved	Y
Reference #	GOV1301
Report Title	Confirmation of Minutes

1. EXECUTIVE SUMMARY

To confirm the minutes of the Waters Governance Board meeting held on Tuesday, 8 December 2020

2. RECOMMENDATION

THAT the minutes of the meeting of the Waters Governance Board held on Tuesday, 8 December 2020 be confirmed as a true and correct record of that meeting.

3. ATTACHMENTS

WGB Minutes – 8 December 2020

MINUTES of a meeting of the Waters Governance Board Meeting of the Waikato District Council held in Committee Rooms 1 & 2, District Office, 15 Galileo Street, Ngaruawahia on **TUESDAY, 8 DECEMBER 2020** commencing at **9.03am**.

Present:

Ms R Schaafhausen (Chair)
Mr D Wright (via audio visual)
Mr G Dibley
Mr GJ Ion (Chief Executive, Waikato District Council)
Ms J Colliar (Intern) *[from 9.07am]*

Attending:

Ms S Danks (Waikato Business Manager, Watercare)

Mr I Cathcart (Special Infrastructure Projects Manager) (via audio visual)
Ms C Nutt (Waters Contract Relationship Manager)
Ms A Diaz (Chief Financial Officer)
Mr C Bailey (Finance Manager)
Mr V Ramduny (Strategic Projects Manager)
Mrs LM Wainwright (Committee Secretary)

APOLOGIES AND LEAVE OF ABSENCE

All members were present.

CONFIRMATION OF STATUS OF AGENDA ITEMS

Resolved: (Mr Ion/Ms Schaafhausen)

THAT the agenda for a meeting of the Waters Governance Board Meeting held on Tuesday, 8 December 2020 be confirmed and all items therein be considered in open meeting with the exception of those items detailed at agenda item 7 which shall be discussed with the public excluded.

CARRIED

WGB2012/01

Ms Colliar entered the meeting at 9.07am during discussion on the above item and was present when voting took place.

DISCLOSURES OF INTEREST

There were no disclosures of interest.

CONFIRMATION OF MINUTES

Resolved: (Mr Dibley/Mr Ion)

THAT the minutes of a meeting of the Waters Governance Board Meeting held on Thursday, 22 October 2020 be confirmed as a true and correct record of that meeting.

CARRIED

WGB2012/02

REPORTS

Actions Register

Agenda Item 5

The Special Infrastructure Projects Manager and Ms Danks (Waikato Business Manager, Watercare), supported by the Chief Executive, noted the following matters in relation to the Te Kauwhata Wastewater Treatment Plant consent project:

- A letter had been sent to Ngaa Muka Development Trust confirming the interim solution to improve compliance at the treatment plant.
- The treatment plant consultation group would meet early in 2021 to form the governance steering group and set the terms of reference. The existing consultation group would form the basis of the governance group and would incorporate representation from the Waters Governance Board. Discussions would be held on the involvement of other parties.

ACTION: Staff to forward a copy of the letter and draft terms of reference to the Board before the meeting being held with mana whenua on Wednesday, 16 December 2020.

ACTION: Staff to provide Mr Wright with the contact details for Te Rua Waikato, Ngaa Muka Development Trust and Wahi Whanui.

Resolved: (Ms Schaafhausen/Mr Dibley)

THAT the report from the Special Infrastructure Projects Manager be received.

CARRIED

WGB2012/03

Hamilton-Waikato Metropolitan Area Wastewater Project Update
Agenda Item 6.1

The Strategic Projects Manager, supported by the Chief Executive and Ms Colliar, took the report as read and noted the following matters:

- The project was underway and would provide a preferred solution for the southern metropolitan wastewater service by the end of December 2020 and would deliver the detailed business case for the southern metropolitan area by May 2021. Partnership funding had been secured through the Governance Waters Reform to support the project work.
- The Governance Group had approved the project investment objectives, key performance indicators (KPIs) and Multi Criteria Analysis (MCA) (subject to minor amendments) for the detailed business case.
- The Governance Group had endorsed the wastewater treatment performance standards to be used for the long and short-listed options assessments.
- The detailed business case for the north would commence early in 2021. Funding allocation principles would need to be worked through.
- A preferred contracting structure had been identified and put to the control group. PwC had completed work on debt treatment and the options to remove debt off Council's balance sheet.
- Waipa District Council would decide in March 2021 whether to support the project.

Resolved: (Ms Schaafhausen/Mr Wright)

THAT the report from the Waikato District Council Chief Executive be received;

AND THAT the Waters Governance Board note:

- a. the short-listed wastewater servicing options and process undertaken to determine these options; and
- b. that Waikato District Council staff are working with Hamilton City Council and Waipa District Council staff to align individual 2021-31 LTP funding requests to implement a new southern wastewater facility,

as further detailed in the staff report.

CARRIED

WGB2012/04

The Board then considered Item 7 in advance of the other reports in the Open Agenda.

EXCLUSION OF THE PUBLIC

Agenda Item 7

Resolved: (Mr Ion/Ms Schaafhausen)**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
PEX Item 1 Confirmation of Minutes	Good reason to withhold exists under Section 6 or Section 7 Local Government Official Information and Meetings Act 1987	Section 48(1)(a)
PEX Item 2 Actions		
PEX Item 3.1 Contract Financial Report – October 2020		
PEX Item 3.2 Proposal to vary Agreement due to the Three Waters Reform		
PEX Item 3.3 3 Waters Long Term Plan Scenario Recommendation		

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
PEX Item 1 Confirmation of Minutes		Refer to the previous Public Excluded reason in the agenda for this meeting.
PEX Item 2 Actions Register		Refer to the previous Public Excluded reason in the agenda for this meeting.
PEX Item 3.1 Contract Financial Report – October 2020	7(2)(a)	To protect the privacy of natural persons, including that of deceased natural persons.
	7(2)(b)(i)	To protect information where the making available of the information would disclose a trade secret.
	7(2)(b)(ii)	To protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information.
	7(2)(j)	To prevent the disclosure or use of official information for improper gain or improper advantage.
PEX Item 3.2 Proposal to vary Agreement due to the Three Waters reform	7(2)(b)(ii)	To protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information.
	7(2)(j)	To prevent the disclosure or use of official information for improper gain or improper advantage.
PEX Item 3.3 3 Waters Long Term Plan Scenario Recommendation	7(2)(b)(ii)	To protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information.
	7(2)(j)	To prevent the disclosure or use of official information for improper gain or improper advantage.

AND THAT Ms Danks be permitted to remain at this meeting, after the public has been excluded, because of her knowledge of Watercare. This knowledge, which will be of assistance in relation to the matter to be discussed, is relevant to that matter because of Watercare's role and responsibility for those matters.

CARRIED

WGB2012/05

Following the conclusion of the public excluded session, the Board considered the following items.

REPORTS CONTINUED

Three Waters Performance Report for October 2020

Agenda Item 6.2

Ms Danks (Waikato Business Manager, Watercare) noted the following matters:

- One health & safety incident had occurred in November 2020. The machinery issue noted in the report had been rectified.
- A “man down” system would be rolled out to Waikato District Council.
- Each Friday morning, all Watercare staff met to discuss health & safety issues. The need to carry personal safety equipment at all times would be covered.
- A full Three Waters Performance Report would be submitted in February 2021.
- Due to Chorus damage when installing fibre cabling, a dry weather overflow had occurred in Tuakau.
- Watercare would order the UV equipment for Te Kauwhata. There was a 25-27 week stand down period due to shipping delays.
- A geotech survey had been carried out in Te Kauwhata.
- The interim consent for Meremere had been granted.
- An outbreak of botulism had occurred at Te Kauwhata.

Resolved: (Mr Ion/Ms Schaafhausen)

THAT report from the Special Infrastructure Projects Manager be received.

CARRIED

WGB2012/06

Open Meeting

To	Waters Governance Board
From	Ian Cathcart Special Infrastructure Projects Manager
Date	12 February 2021
Prepared by	Lynette Wainwright Committee Secretary
Chief Executive Approved	Y
Reference #	GOV1301
Report Title	Actions Report

1. EXECUTIVE SUMMARY

To update the Waters Governance Board on actions arising from previous meetings.

2. RECOMMENDATION

THAT the report from the Special Infrastructure Projects Manager be received.

3. ATTACHMENTS

Actions Register

Waters Governance Board Actions Register

OPEN MEETING

Meeting Date	Action	To Action	When	Status
20/11/19	<p>The Board to be provided with:</p> <ul style="list-style-type: none"> ▪ The proposed Te Kauwhata water take consents strategy. 	Ian Cathcart/ Watercare	<p>November 2020</p> <p>Now March 2021</p>	<p>Richard Bax engaged to work with TKWA and include the Mid Waikato Servicing Strategy outcomes in securing a new consent.</p> <p>After workshop late 2020 Watercare were proposed to complete the consent application with TKWA. In January 2021 they declined to complete that work. The consent process is now back with TKWA. Once the water supply contract is signed (95% complete) WDC will continue engagement with TKWA to secure the water take.</p>
20/12/19	<ul style="list-style-type: none"> ▪ The Minister of Local Government to be invited to the next meeting of the Board. The Chief Executive to outline the urgency and the reasons for her attendance - funding to explore projects and potential changes with water entities. 	G Ion	December 2020	To agree with the Board a suitable date to meet with the Minister.
	<p>Presentation to be prepared to form base for discussions with LG Minister</p> <ul style="list-style-type: none"> ▪ Council's arrangements with Watercare – learnings and successes to date. ▪ Data on potential regulatory (cost) impact on the ratepayer as a consequence of the proposed water regulations. ▪ Impact of Council assuming some responsibility for private water supplies. 			

Waters Governance Board Actions Register

Meeting Date	Action	To Action	When	Status
	<ul style="list-style-type: none"> ▪ Contribution towards Council/Watercare transition costs. ▪ The Lead we are providing on co-governance for 3 waters by Council and Iwi. ▪ Funding from central government towards the sub-regional 3 waters study. Affordability – rates rebates and financial hardship			Included as part of Council's application for Reform Economic Stimulus Funding.
11/2/2019	Investigation into forums held by other Councils in respect of engagement with mana whenua. Iwi and Community Partnerships Manager, Sam Toka, to present the vision to the next meeting of the Board.	Sam Toka / Gavin Ion	December 2020	Council has agreed on the formation of four forums to cover the District. The issue of how to recognise the time commitment from mana whenua is still to be worked through.
25/8/2020	<u>Waters Long Term Plan Performance Targets</u> Watercare to report back to the next meeting of the Board with an action plan to consider real water loss results.	Sharon Danks	May 2021	Water Demand Management Plan update has been tendered and awarded and will be completed in May 2021. This will also suggest improvement to reduce Water Losses.
25/8/2020	A schedule of site visits would be prepared for the Board with the priority being abatement notice sites.	CN	February 2021	8th December visit to Raglan water and wastewater plants was cancelled. New program of visits to be determined
22/10/2020	<u>Consenting Strategy – Te Kauwhata Wastewater Treatment Plant Discharge Consents (Renewal)</u> A letter be sent to the Ngaa Muka Development Trust outlining the commitment made to mana whenua, the joint co-governance structure and the draft terms of reference.	IC	November 2020	Letter sent early December. Action update 8/12/2020 Staff to forward a copy of the letter (completed) and draft terms of reference to the Board before the meeting being held with mana whenua on Wednesday, 16 December 2020 (subsequently cancelled).

Waters Governance Board Actions Register

Meeting Date	Action	To Action	When	Status
				Kevin Stokes is project managing this, completing his due diligence to understand the history, and convening a meeting late Feb early March with the right parties present to move this forward. He has met Tainui on 4 th February. (Further verbal update will be given at February meeting)
8/12/2020	Staff to provide Mr Wright with the contact details for Te Rua Waikato, Ngaa Muka Development Trust and Waahi Whanui.	IC	January 2021	Provided by Sam Toka 9 February 2021.

Open Meeting

To	Waters Governance Board
From	Ian Cathcart Special infrastructure Projects Manager
Date	23 February 2021
Prepared by	Sharon Danks Watercare Waikato
Chief Executive Approved	Y
Reference #	WGB2021; ECM ID # 3006584
Report Title	Te Kauwhata - Wastewater Treatment Plant Upgrade Membrane Aerated Bio Reactor Trial

1. EXECUTIVE SUMMARY

A copy of the Te Kauwhata - Wastewater Treatment Plant Upgrade Membrane Aerated Bio Reactor Trial report is attached to provide background and indicative costs for the trial of Membrane Aerated Bio Reactor at the Te Kauwhata WWTP.

2. RECOMMENDATION

THAT the report from the Special Infrastructure Projects Manager be received.

3. ATTACHMENTS

- A Te Kauwhata - Wastewater Treatment Plant Upgrade Membrane Aerated Bio Reactor Trial

Watercare Waikato

Te Kauwhata – WWTP Upgrade

MABR Trial

Date: 10/01/2021
Version: 0.2
Status: Final

Prepared by: Kevan Brian/ Sharon Danks

Document Purpose:

- To provide background and indicative costs for the trial of Membrane Aerated Bio Reactor at the Te Kauwhata WWTP

Raised by

Name	Functional area	Facility/ Location	asset/ Driver	Priority	Business owner rep supporting need
Kevan Brian	Watercare	TeKauwha WWTP			WDC

Distributed to: Water Governance Board, Ian Cathcart, Carole Nutt

1 Background

The Te Kauwhata wastewater treatment plant (WWTP) will be upgraded to cater for projected growth and to ensure compliance with existing discharge consent requirements.

Watercare has been investigating treatment options for the upgrade that maximise the use of the existing plant assets, meet compliance targets and can be delivered as quickly as possible. The investigations have identified that a membrane aerated bioreactor (MABR) is the most suitable to meet these drivers. MABR is a new technology that has a very small footprint and is 5-6 times more energy efficient than processes such as activated sludge. A small footprint should allow an upgrade to proceed at Te Kauwhata without extensive ground improvement works being carried out prior to any construction. While ground improvements will be required in the long term, the MABR should allow approximately 1 year to be removed from the project program compared to other options investigated.

Suppliers of MABR technology have assisted in developing a concept design for Te Kauwhata and have offered a performance guarantee for the removal of ammonia and for membrane life. The suppliers have indicated that the process may meet the total nitrogen levels required by the current consent, however neither is able to offer a guarantee for this. Therefore, there is an unknown with respect to the performance of the MABR for reduction of total nitrogen. This unknown was identified during the options investigation and there are several ways that it can be mitigated, either using plant assets such as the existing oxidation pond or an additional small process. In addition, by modifying the operation of the MABR, it may be possible that no additional downstream process will be needed, thereby reducing capital costs and complexity of the upgrade.

Watercare has identified that trailing a modified operating regime of an MABR at pilot scale would be the best way to determine how much nitrogen the MABR will remove and help the design team to determine if another process is required.

A pilot reactor from one of the two key suppliers of MABR technology is currently being used in Whangarei and will come available in late March/early April 2021. This plant can be relocated to the Mangere wastewater treatment plant innovation centre and used for the pilot. A pilot trial would be undertaken over a 3 or 4-month period, concluding in August/September 2021.

This technology can be used in a variety of configurations that reduce the size and complexity of structures as these may be applicable for upgrades at other Waikato DC sites such as Huntly and Raglan WWTPs.

2 Demonstration Plant Details

The pilot MABR will be located at the Mangere Wastewater Treatment plant and will be fed with either primary or raw wastewater, post screening and grit removal. Mangere is recommended for the trial as:

- The innovation centre has three phase power, water, compressed air and the supporting infrastructure to complete the trial at minimum cost and minimal set up time
- Key staff who would run the system are located at Mangere and therefore no addition time or cost would be incurred due to travel to/from site
- The innovations area is secure and can only be accessed via the existing security system
- The site has good access for loading/unloading of the equipment and there will be no costs associated with preparing a flat level area and concrete pad needed to locate the equipment
- The innovations team has a laboratory where most of the testing etc can be undertaken

The plant will be hired from the supplier rather than purchased and will be returned at the end of the pilot period. Membranes for the pilot will be purchased from the supplier. These can be used elsewhere if needed or for other trials as they have a design life of >20 years.

3 Proposed Upgrade Plan and Indicative Costs

Plant and Membranes

The demonstration plant hire and purchase of membranes (\$25,000) will be covered by the Watercare Innovations Team. Once the Te Kauwhata demonstration is complete the team may use the plant to pilot or test other process configurations or outcomes for other plants within the Waikato District.

Technical/Site Support, Transport, Installation, Transport and Testing

The demonstration unit will require installation at Mangere WWTP, inducing some pipework, feed pumps and electrical installation and safety testing. Laboratory sampling will also be required to validate the performance of the trial unit. In addition, the supplier has quoted for site support to enable us to install the new membranes into the plant and commission control systems etc. Estimated costs are \$70,000 of Capex expenditure.

Funding

It is proposed to fund the capex expenditure from the Te Kauwhata Wastewater Treatment plant upgrade project as enabling works.

4 Recommendation

It is recommended that the MABR trial is progressed in parallel to the design and procurement of a MABR plant at TE Kauwhata WWTP. The trial will allow the design parameters for the Te Kauwhata WTP upgrade to be validated and will assess with the commissioning of the interim Te Kauwhata plant in late 2021.

Open Meeting

To	Waters Governance Board
From	Ian Cathcart Special infrastructure Projects Manager
Date	23 February 2021
Prepared by	Sharon Danks Watercare Waikato
Chief Executive Approved	Y
Reference #	WGB2021; ECM ID # 3006578
Report Title	Te Akau Water Treatment Plant – Chlorate and Bromate Non-Compliances and Operational Limitations Update

1. EXECUTIVE SUMMARY

A copy of the Te Akau Water Treatment Plant – Chlorate and Bromate Non-Compliances and Operational Limitations report is attached to provide an update to the Board on the current non-compliance and operational risks at the Te Akau Water Treatment Plant.

2. RECOMMENDATION

THAT the report from the Special Infrastructure Projects Manager be received.

3. ATTACHMENTS

- A Te Akau Water Treatment Plant – Chlorate and Bromate Non-Compliances and Operational Limitations Update

Watercare Waikato

Te Akau WTP – Chlorate and Bromate Non-compliances and Operational Limitations Update

Date: 10/02/2021
Version: 0.1
Status: Final

Prepared by: Sharon Danks

Document Purpose:

- To provide an update to the Water Governance Board on the current non compliances and operational risks at the Te Akau Water Treatment Plant

Raised by

Name	Functional area	Facility/ Location	asset/ Driver	Priority	Business owner rep supporting need
Sharon Danks	Watercare Waikato	DWS compliance	Legislation	H	WDC

Distributed to: Water Governance Board, Ian Cathcart.

1 Background

The Te Akau Water Treatment Plant is in Te Akau Village which is located 39 kms southwest of Huntly and sits across the harbour from Raglan (19kms over water from Raglan Township).

The plant is small serving less than 50 customers and consists of a bore, cartridge filtration and disinfection (hypochlorite dosing).

The plant has become increasingly non-compliant with respect to chlorination by-products such as chlorate and bromates.

Watercare understands that Waikato District Council is commencing a project to decommission the plant. This requires a public referendum to be undertaken with the effected customers. The timeframe for referendum to be completed is likely 12- 18 months.

2 Current Issues

These parameters are currently monitored quarterly but with the changes in the Drinking Water Standards they will have to be monitored weekly.

The MAV for Chlorate is 0.8mg/l and for Bromate is 0.01mg/l

There are 3 main reasons for the continued non-compliances

- The chlorine supplied by Ixiom does not meet the minimum standard for the supply of chlorine for drinking water purposes
- There has been increasing chlorine demand from the water treated at the plant. This may be due to a chemical non-compliance or increasing contamination of the ground water supply. The Water supply catchment is not protected.
- The poor condition of the bore head. The bore has been poorly designed and at present due to the angle of the bore the bore pumps are unable to be removed for maintenance.

It is likely the plant will become non-complaint for other parameters when small plants are required to be fully compliant with all parts of the drinking water standards. A present small plant such as this are exempt from all parameters

In addition, the Te Akau plant has no SCADA process control for chlorine dosing or pH control. At present the operators receive a single output signal for the plant that displays the chlorine level at a point in the Network after the reservoir. The chlorine value and pH value being delivered to the reservoir and within the reservoir can only be captured by grab sample testing on site. Watercare is in the process of installing chlorine and turbidity monitoring to allow tighter process control. For 6 weeks over the Christmas period grab samples were being taken daily on the direction of the Drinking Water Assessor. The requirement was relaxed to weekly in late January

This upgrade will utilise all available capacity in the existing SCADA system and will still not allow remote process control.

Following the implementation of the revised drinking water standards in July 2021, Water suppliers will be asked to provide more data to prove compliance such as chlorine contact time (Ct values). To enable this additional compliance instrumentation to be installed a significant control system upgrade will be required.

The Te Akau Bore head has inherent risk around security issues regarding access to the borehead in its current configuration. The bore has also been tilted over time due to the weight of the concrete structures on top of the bore. For the last 18 months the operators have been

unable to remove the bore pump for maintenance. This also prevents a significant risk to the continued operation of the plant.



Figure 1 Te Akau Borehead

Watercare is in the process of preparing a Water Safety Plan (WSP) for the Te Akau water supply. The WSP will highlight risks to the supply and recommend costed solutions to achieve on going compliance at this site.

3 Future Investigations

If the plant is to continue to operate in the short to medium term Watercare recommends the following activities are undertaken and funded. Watercare has engaged a consultant in January 2020 to under the highest priority investigations.

1. Work with ixom to ensure the hypochlorite solution is being manufactured to the guideline to produce hypochlorite solution for drinking water purposes.
2. Investigate what is driving chlorine demand in the network and implement programs to manage this issue if possible
3. Increased flushing in the network
4. Investigation into electrolysing chlorine on site to negate the need to purchase hypochlorate solution
5. Scope and implement an interim Control System Upgrade project to allow for enhanced process control and increased continuous monitoring. This will a requirement of the revised drinking water standards.
6. Undertake a scoping project to cost remedial works required on the bore head and associated structure

Watercare will provide further updates to the Water Governance Board following the completion of the investigations.

Open Meeting

To	Waters Governance Board
From	Ian Cathcart Special infrastructure Projects Manager
Date	23 February 2021
Prepared by	Carole Nutt Waters Contract Relationship Manager
Chief Executive Approved	Y
Reference #	WGB2021; ECM ID # 3005375
Report Title	Three Waters Performance Report for December 2020 / January 2021

1. EXECUTIVE SUMMARY

A copy of the Three Waters Performance Report for December 2020 / January 2021 is attached for the Board's information.

2. RECOMMENDATION

THAT the report from the Special Infrastructure Projects Manager be received.

3. ATTACHMENTS

Three Waters Monthly Performance Report for December 2020 / January 2021

WAIKATO DC THREE WATERS MONTHLY PERFORMANCE REPORT

DECEMBER 2020 / JANUARY 2021



Sharon Danks
WDC Business Manager
Watercare Waikato
February 2021

1. Health & Safety

HIGHLIGHTS AND LOWLIGHTS

1. Health, Safety & Wellness

- There was 0 Lost Time Injury (LTI), and 0 Restricted Duties Injury (RDI) involving Watercare employees in December and January.
- There were 0 recordable injuries involving contractors in December and January.
- The 12-month average Lost Time Injury Frequency Rate (LTIFR) for employees is 5.34 per million hours, under our target of ≤ 5 .
- The 12-month average Total Recordable Injury Frequency Rate (TRIFR) for employees is 8.9 per million hours, under our target of ≤ 20 .
- A team meeting was held with the reticulation serviceman and the treatment plant operators following the 2 hand injuries refocussing the team on health and safety. This included the completion of the take 5 booklet prior to tasks and the use of SOP's. From September a Hazard has been assigned to each month for field teams to investigate. The hazard for December was manual handling and January was heat and fatigue.
- Working alone is a key risk for WDC staff in all operational areas and is a focus, improvements to be implemented in 2021 include Radio communication in vehicle to resolve issues with Cell phone coverage and the roll out of updated working alone cell phone apps.
- November 2020 Health and Safety incident update:
 1. The lifting frames are being modified to include outriggers. This has made the frames more stable. Until modified the frames are locked on site so they are unable to be used.



Figure 1. Prototype of outriggers being installed

2. Ground improvements have been completed at Te Kowhai to allow the smooth movement of the lifting frame between access manholes



Figure 2 Te Kowhai WWTP pre ground improvements



Te Kowhai WWTP post ground improvements

3. Staff have been bought PPE with zippable pockets to allow cell phones to be kept on the body during work activities.
- A programme has commenced on updating all SOP's used by the serviceman to a more user-friendly format and the production of SOP folders for each vehicle.

1. HEALTH, SAFETY & WELLNESS UPDATE

Worker, type of incident and location	Critical Risk (Yes/No) and Severity	Description of injury/incident	Our learnings	The actions we have taken
No incidents in Jan/Dec				

AUDITS, MANAGEMENT REVIEWS, INSPECTIONS, SAFETY OBSERVATIONS

- The 6-monthly review of the HSW Management System was completed in September.
- An all sites condition assessment of mechanical, control and electrical was completed in February.
- Contract Audit will be undertaken by IMPAC on the 23rd of February
- 14 site inspections have been undertaken in January across networks and operations.
- A refresher training session was held for All staff on the 14th of January on hazard and risk assessment. This will help staff in filling out the take 5 booklet

2. Key Performance Indicators

KPI – Description	Results	Target 2020/2021
Water		
The extent to which Council’s drinking water supply complies with Part 4 of the drinking water standards (bacteria compliance criteria). (Number of zones that comply, maximum 18)	18	18
The extent to which Council’s drinking water supply complies with Part 5 of the drinking water standards (bacteria compliance criteria). (Number of zones that comply, maximum 18)	15	15

<p>Where Council attends a call-out in response to a fault or unplanned interruption to its networked reticulation system, the following median response times measured:</p> <ul style="list-style-type: none"> - Attendance for urgent call-outs: from the time that Council receives notification to the time that service personnel reach the site. 	<p>Dec - 5</p> <p>Jan - 24</p> <p>July 2020-Jan 2021 total - 37</p>	<p>40 mins</p>
<p>Where Council attends a call-out in response to a fault or unplanned interruption to its networked reticulation system, the following median response times measured:</p> <ul style="list-style-type: none"> - Resolution of urgent call-outs: from the time that Council receives notification to the time that service personnel confirm resolution of the fault or interruption. 	<p>Dec – 189</p> <p>Jan - 104</p> <p>July 2020-Jan 2021 total - 111</p>	<p>120 mins</p>
<p>Where Council attends a call out in response to a fault or unplanned interruption to its networked reticulation system, the following median response times measured:</p> <ul style="list-style-type: none"> - Attendance for non-urgent call-outs: from the time that Council receives notification to the time that service personnel reach the site. 	<p>Dec – 1</p> <p>Jan - 1</p> <p>July 2020-Jan 2021 total - 1</p>	<p>≤ 3 days</p>
<p>Where Council attends a call out in response to a fault or unplanned interruption to its networked reticulation system, the following median response times measured:</p> <ul style="list-style-type: none"> - Resolution of non-urgent call-outs: from the time that Council receives notification to the time that service personnel confirm resolution of the fault or interruption. 	<p>Dec - 1</p> <p>Jan - 1</p> <p>July 2020-Jan 2021 total - 1</p>	<p><3days</p>

<p>The total number of complaints received by Council about any of the following (expressed per 1000 connections to the networked reticulation system):</p> <ul style="list-style-type: none"> - Drinking water clarity - Drinking water taste - Drinking water odour - Drinking water pressure or flow - Continuity of supply - The local authority's response to any of these issues 	<p>Dec – 2.12</p> <p>Jan – 0.75</p> <p>July 2020- Jan 2021 total – 11.16</p>	<p>22/1000</p>
<p>Wastewater</p>		
<p>The number of dry weather sewage overflows from Council's system expressed per 1000 sewage connections to that sewage system.</p> <ul style="list-style-type: none"> - Non-sensitive receiving environments 	<p>Dec – 0.40</p> <p>Jan – 0.08</p> <p>July 2020- Jan 2021 total – 2.14</p>	<p>≤ 2/1000</p> <p>Note: Over target, largely due to Fibre strikes in the district.</p>
<p>The number of dry weather sewage overflows from Council's system expressed per 1000 sewage connections to that sewage system.</p> <ul style="list-style-type: none"> - Sensitive receiving environments 	<p>Dec - 0.00</p> <p>Jan – 0.00</p> <p>July 2020- Jan 2021 total – 0.00</p>	<p>≤ 2/1000</p>
<p>Where Council attends to sewage overflows resulting from a blockage or other fault in its sewage system, the following median response times measured:</p> <ul style="list-style-type: none"> - Attendance time: from the time that Council receives notification to the time that service personnel reach the site. 	<p>Dec – 58</p> <p>Jan - 17</p> <p>July 2020- Jan 2021 total - 41</p>	<p>≤ 1 hour (45 mins)</p>

Where Council attends to sewage overflows resulting from a blockage or other fault in its sewage system in Raglan , the following median response times measured: - Attendance time: from the time that Council receives notification to the time that service personnel reach the site.	Dec – 0 Jan - 35 July 2020- Dec 2021 total - 35	≤ 1 hour (60 mins)
Where Council attends to sewage overflows resulting from a blockage or other fault in its sewage system, the following median response times measured: - Resolution time: from the time that Council receives notification to the time that service personnel confirm resolution of the blockage or other fault.	Dec – 130 Jan - 62 July 2020- Jan 2021 total - 143	≤ 4 hours (240 mins)
The total number of complaints received by Council about any of the following (expressed per 1000 connections to the sewage system): - Sewage odour - Sewage system faults - Sewage system blockages - Council's response to issues with its sewage system	Dec – 0.71 Jan – 0.08 July 2020- Jan 2021 total – 5.47	≤ 10/1000
Health and Safety		
Safety: Lost time injury frequency rate (LTIFR) per million hours worked	5.34	≤ 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 occurrence	100%	100%
Safety: 100% of Notifiable Event reports supplied to WDC within 21 business days	No events	100%
Safety – percentage of complaints resolved within 10 working days	100%	95%
Safety- Health and safety Audit programme and action plan completed (6 monthly and then annually)	1	1
Safety - All site emergency plans to be drilled 6 monthly as per drill schedule	80%	>100%
Safety - Monthly Health and safety meeting held with all workers	2 - safe lifting focus in December - Hazard assessment focus in January	>90%
Safety-Critical risk audit to be conducted by HSW BP Bi-monthly	1	1
Safety -Actions required to be closed within 1 month	100%	>90%

3. Operational Update

3.1 Treatment

No Health and Safety incidents during December / January.

There were several callouts to site during December / January.

Te Akau WTP is of major concern. This plant has no SCADA process control for chlorine dosing or pH control. We receive one signal for the plant that displays the chlorine level at a point on the Network after the reservoir. The chlorine value and pH value being delivered to the reservoir and within the reservoir can only be captured by grab sample testing on site.

The round trip for an operator to attend this site is in the region of 100 to 150 kilometres as a round trip and generally consumes the whole day for each of the planned weekly visits.

The bore head at Te Akau WTP is not in good condition and not likely to pass a security audit.



Figure 4 Te Akau Bore Head

During the December / January period the water quality suffered from both Bromate and Chlorate exceedances of the MAV. These related to quality (age) issues of the sodium hypochlorite being supplied and resulted in procurement being swapped between the bulk suppliers from Kinleith and Mt Maunganui to source the best quality product. The raw bore water quality appears to strongly influence the chemical reactions when adding Sodium Hypochlorite for disinfection and Hydrochloric acid for pH correction

Laboratory Services were engaged to carry out daily sampling and testing for reporting to the DWA. This was a very time consuming and expensive exercise.

Operators visited the site many times to dump and replenish the reservoir contents and reset the chemical dose set points to maintain water quality.

Raglan WTP has tripped several times on poor power quality. The plant can be reset and restarted remotely but requires a site visit each time to reset the Chlorine monitoring panel. The cause of the power dips is being investigated. Some rodent damage to cables has been found and repaired. The site main transformer appears to be in poor condition. History of this transformer is being investigated.

Staff:

Water/Wastewater Treatment Operator Mark Doughty and Cesar Waksman have completed and passed National Certificate Water Treatment Level 4 qualification.

Tony Gray has completed Dangerous Goods licence (endorsed)

Water and Wastewater Treatment Operator David Luke has resigned from Watercare. His last day of work was the 22nd of January. A new operator has been sourced and will commence work with Watercare on the 15th of February.

Training of all Operators will continue along with additional training for “Workplace First Aid” and “Confined Space and Gas Monitoring”. In addition, staff requiring Dangerous Goods licences have commenced training.

General Workflow

- Meremere WWTP upgrade project is well underway. This work has impacted on the existing oxidation pond as a section of the original pond is being reclaimed to establish a work platform for the new plant. Pump over from the decommissioned section of the pond to the remainder of the original has is now complete but has resulted in high suspended solids and low algae levels. The pond remains stable and will recover during the summer months. Final discharge to the river has been minimised as the pond is now operating at low level. There is very little bird life on the pond due to contractor activity.
- All wastewater treatment plants are being monitored for signs of botulism affecting wildlife. The number of ducks and swans on the ponds is increasing.
- Ngaruawahia WWTP we are observing large numbers of “Daphnia” developing in the oxidation ponds. These are impacting on the Actiflow effluent turbidity and at times shuts the plant down on high turbidity at the UV plant. A bird scaring device has been set up and Waikato Police and WDC have been notified of the devices operating between the hours of 0900hrs and 1600hrs daily.
Some dead birds are being found and disposed of as per the methodology agreed with Forest and Bird as part of the discharge consent.
- Raglan WWTP very low numbers of dead birds being found. No bird scaring device set up.
- Te Kauwhata WWTP very low numbers of dead birds being found. No bird scaring device set up.
Huntly WWTP oxidation pond desludging has commenced with contractor ConHur establishing plant and equipment on site during January 2021. Bird life has shifted off # 1 Pond due to contractor activity and have relocated on # 2 Pond. A bird scaring device has been set up on # 2 Pond to reduce the numbers and risk of botulism infection as the pond temperatures have increased to 26C. Waikato Police and WDC have been notified of the devices operating between the hours of 0900hrs and 1600hrs daily. Some dead birds are being found and disposed of.
- Huntly WTP, Ngaruawahia WTP and Te Kauwhata WTP river intake screens have been booked in for cleaning by the dive team early February. This work will be done in conjunction with the 6monthly wastewater diffuser surveys.
- Huntly WTP Filter #5 remains out of service. The air scour pipework has been modified and tested. We are waiting for a new replacement valve actuator to be delivered from Australia and fitted to complete the work and return to service. A program to replace the sand media beds in all Huntly WTP filters has been established and will commence in February 2021

3.2 Networks

- Works on pump station renewals continued throughout Dec/Jan. Wallis St WWPS located in Raglan had x2 100mm Flygt discharge bends on the floor of the PS and x2 cast iron risers were replaced. Whilst the existing pumps were in good condition here, the PS was not working optimally due to issues with the discharge bends. On replacement, there is a noted improvement in the pumping capacity on site.



New discharge bends – Wallis St PS

- A new Magflow meter was installed at Bow St reservoir, Raglan, in late Jan. The existing Magflow was providing the reticulation team with faulty readings and info, and due to a pressure zoning project planned by the assets team, the installation of a new Magflow to provide accurate data was crucial. The install was simply a straight swap out, and on completion the data now collected is highly reliable and can therefore inform the zoning project accurately.



Old Magflow being removed from chamber – Bow St Reservoir

- The Scada upgrade design project with Neo continues to progress, with P&ID work having almost been completed. To date, the reticulation team have completed P&ID's for 82 sewer pump stations, 5 booster pump stations and 8 reservoirs. This information is passed on to

Neo for CAD work and also will inform the wider project. All P&ID's are expected to be completed by WSL staff and handed over to Neo by end of Feb.

- The complex meter project has progressed well with a start date for works locked in for the week of 22nd Feb. Letters and agreements have been sent to all affected properties. Raglan is the first area to be addressed with 30 meters in total. Pipescape (the contractors carrying out the work) will then move on to Ngaruawahia where 80 meters require splitting.
- A major water leak occurred 26 Dec (Boxing Day) at Main St, Raglan. A 150mm AC main had decoupled at a connection point. A hydroexcavator was used to expose the line and the repair was enacted with minimal disruption to customers.



Images of the AC main break

- Cardno are scheduled to commence thermal imaging drone survey works for leak detection purposes in mid-Feb. A flight plan has been developed and works will take place over 4 nights covering 35km of pipelines. Te Kauwhata will be addressed after this, as this area has the greatest volume of water losses in the district.
- An excavator was purchased to assist with retinue network projects.

3.3 Planning and Project Delivery

Key tasks completed include:

Planning

- The renewal Tender is in the stage of final negotiation prior to contract award.
- Significant time has been committed to providing Department of Internal Affairs Three Waters Reform Information Request.
- Liaison with Watercare's Auckland staff on transfer of Asset Information to new Asset management system (from Asset Finda to Infor).

There are several work packages for the Watercare Professional Engineering services panel in the process. These include:

- Ngaruawahia WW Pump Stations and Rising main upgrade concept is complete and detailed design will commence this month.
- Ngaruawahia WW Rising main Bridge crossing design is underway, the structural bridge assessment has commenced to confirm capacity.
- Whangarata WW Gravity main and Pokeno Rising concept design is underway.
- Tuakau Interceptor Pump Station Upgrade, detailed design is underway.
- SW modelling is being undertaken to assist in sizing of proposed SW culvert in Travers Road Te Kauwhata. This has shown an upgrade is not required as it could worsen downstream flooding of residential property. Further study is underway to confirm the downstream flooding issues more fully.
- Huntly and Ngaruawahia WS modelling recalibration, system performance and options assessment continue.
- Raglan WS model updates and Master Plan continue.
- Stantec undertaking District Wide Water Supply Demand Management Plan.
- Raglan WW Model recalibration and System performance project commenced, this will provide a better understanding of network performance in wet weather and the ability of the network to service growth. It will also provide commentary for the WWTP discharge consent on network inflow and infiltration issues.
- Whangarata gravity sewer concept design package awarded to Beca. This project enable increasing dairy flows and growth from Pokeno as well as servicing Whangarata Business Park.
- Design of Tuakau Interceptor pump station upgrade awarded to GHD. This project also enables increasing dairy flows and growth from Pokeno and south Tuakau.

Development / Growth related matters being worked on include:

- Still awaiting WDC to establish DA with Ultimate Development relating to DA for River Road North Development. Design of pipeline is near completed.
- No feedback from WDC relating to Synlait DA, Synlait future flows are very uncertain, this impacts on timing of Pokeno WW upgrades.
- Interaction with Developers consultant relating to wastewater servicing of Lovell subdivision in Taupiri. (See plan below). The blue area proposes development of approximately 270 lots.



Lovell proposed development Taupiri

Project Delivery

- The Meremere MBR reclamation works are underway, civil chamber and drainage works to follow.
- Desludging works have commenced at Huntly WWTP, a workshop to be arranged with WDC to explore improved disposal options.
- Renewals Package – Final Tender negotiations and award are in play
- Whangamarino WTP 4.5MLD Upgrade is in Tender

- Te Kauwhata Reservoir Upgrade is in Tender
- The POAL WWPS – Geotech design to complete so the pricing of the works can continue.
- Ngaruawahia WTP backwash upgrade – Detailed Design phase
- Ngaruawahia UV installation – Installation to commence March 2021
- Te Kauwhata WWTP Ultimate Upgrade - Detailed geotechnical design underway, along with the enabling works consenting and concept design.
- Te Kauwhata WWTP interim Upgrade – UV reactors ordered and will be delivered in 6 weeks' time. Design of the UV works commenced. the construction of the UV will coincide with the delivery of the units. A MABR trial for Te Kauwhata upgrades will commence at Mangere WWTP in April. A paper has been submitted to the WGB in February.
- Hartis, Hopuhopu, Stirling and Rosser WWPS upgrade (Asset remediation) – Construction to commence in October (works awarded to Fullers pump and Crane LTD)
- Filter Media Replacement Project – works have commenced at Huntly Filter 2 and 3
- Newell Road Booster PS upgrade (Asset Remediation) – Construction to commence in October (works awarded to PES LTD)
- Network NCU Scada project – Detailed design phase. Site audits and reverse engineering of RTU's software and production of Level 1 FD's underway by Neo and McKay's.
- Scada Server Relocation project – The design phase has commenced with the following tasks being undertaken :Network design including connectivity, security, remote access, Infrastructure design for the virtual servers and hosts, including operating systems and VM specifications, SCADA Application design which will be used to configure the SCADA Application and confirmation of the SCADA version
- Infor AM Transition project – Data cleansing is continuing, Scope refinement is continuing, Liaison with WDC staff is continuing.

3.4 Stormwater Update

- Investigation/maintenance completed at the Aroaro wetland, Raglan. These works highlighted issues with the grades and hydraulics in the area. Resolving this is likely to be complex. Further works and option analysis will be added to the Stormwater CAPEX.
- Issued the revised Stormwater Management Plan to WRC.
- WSL are actively involved in the pre-application for a new development in Ngaruawahia North. Need to investigate a catchment wide solution for further development. Undertook a site visit around Ngaruawahia with WDC (Peter Henderson) inspecting new subdivisions, outlet to the Waikato river, main drainage channel and side drains. CKL have been engaged to provide modelling and solution input. Meeting with WRC on proposed solution of rehabilitating the existing open channel was positive.
- Cambrae Road flood mitigation design awarded to Stantec. Design almost complete. Discussions with Contractor have commenced.
- Updated WRC on the Raglan abatement notice. Currently they are happy with the progress. Main outstanding items are:
 - Cambrae Road flood mitigation (Design underway)
 - Updating of the monitoring/sampling program (70% complete) – Looking at a data share agreement with WRC for their harbour water quality testing.
- Further discussions with Parks and Roading Alliance regarding responsibilities and trying to work together where possible. Draft responsibilities spreadsheet circulated in preparation for the next grey areas workshop. Return communication has been slow.

- Received feedback from annual report. One compliance notice for raglan received so far. No new abatement notices. WRC mentioned they were happy with the progress towards the existing abatement notice.
- Engineering forum with WDC commenced last week which included discussions on Stormwater. WRC Stormwater and Development guidelines were discussed.
- Watercare have organised SW360 to undertaken stormwater treatment asset maintenance training at the end of February. Invites have been extended to HCC, Roding Alliance, Parks, Waipa DC, WRC and various local consultants.

3.5 Abatement Notice Resolution

Meremere WWTP

The 2019/2020 WRC Abatement notices require Total Suspended Solids (TSS) exceedance and discharges outside permitted discharge periods to be addressed. Inflow and Infiltration reduction programme is underway and has already seen a reduction of discharges out of permitted periods this winter.

The contract for installation of the MBR has commenced, the site compound is in place and long-lead items have been procured and reclamation works are underway. The new plant is expected to be operational by August 2021.

A new consent was been granted in December 2020 that resolves the abatement notice with interim conditions to allow for the suspended solids and new lower compliance limits which will be enacted once the new MBR plant is commissioned.



Meremere WWTP – reclamation works

Te Kauwhata WWTP

WRC abatement notice on this plant requires Total Kjeldahl Nitrogen (TKN), Total Nitrogen (TN), Total Phosphorus (TP) loads and E.coli exceedances to be addressed. There is also a requirement to develop short term capacity for increase in loads from residential development from Lakeside and Te Kauwhata structure plan areas prior to the HIF funded new WWTP. Numerous interim activities have been undertaken to try and address the non-compliances on a short-term basis. These include:

- Major maintenance of the aqua discs and air lines
- Compressor maintenance
- Rock filter replacement

The mid Waikato Strategy has been completed and a preferred solution identified for Water and Wastewater. Consultation will be undertaken with stakeholders in July 2020 in parallel with design solutions for the upgraded plant progressing on the site. It is expected the new membrane plant will be operational by December 2022.

The geotechnical design is underway and is due to complete February 2020. This will scope the ground remediation needed to support the WWTP upgrade. The application for the enabling works consent is currently being prepared so that the enabling works can proceed as planned.

Waikato District Council after discussion with the Water Governance Board will form a Te Kauwhata consultative Governance Group led by WDC and the WGB to oversee the consenting project at a high level

A consenting strategy is being prepared and it is anticipated a new discharge consent application will be submitted to WRC in late 2021.

Raglan stormwater

The Raglan stormwater Discharge Consent has an Abatement Notice for 2018/2019 compliance period highlighting non-compliances. The main issues are:

- Flooding at Cambrae Road
- Water Quality results and mitigation (hydrocarbons and heavy metals)
- High risk site identification and education
- Reporting (changes to SW network)
- Review of the Stormwater Management Plan
- Review and update of the monitoring program

Watercare has completed a detailed review of the outstanding non-compliant consent conditions. Following this review the following actions have been undertaken:

- Flood mitigation: Detailed design 90% complete – discussions with Contract have commenced (Open)
- The sampling programme has been reviewed and changes are being made for the proposed sampling regime for 2020/2021 including data sharing with WRC (Open)
- The District Wide Stormwater Operations Management Plan has been revised and issued to WRC (Closed)
- The annual report has been issued and provides close out of the reporting issues in the Abatement notice (Closed)
- High risk sites have been identified and discussions with landowners/managers have been undertaken. There are 2 sites requiring further follow up - 2020/2021 (Ongoing).

3.6 Compliance

- All December compliance reports for Drinking Water were submitted to Wai-comply and Wastewater reports to the Waikato Regional Council on time. January 2021 compliance reports are due to be submitted to Wai-comply and Waikato Regional Council during the first week of February 2021.
- All Quarter 4 (October-December) drinking water sampling results were uploaded to the Drinking Water Online for compliance and Q4 surveys for the plants and zones were also completed for audit in DWO.
- Te Akau WTP Chlorate sampling results have exceeded the MAV limits for December 2020 sampling. Maintained communication with DWA and remedial actions were followed at the plant. Daily sampling for Chlorate and Bromate were organised at the plant and retic until confirmation received from DWA to reduce the frequency to weekly. Ongoing weekly monitoring at the plant and retic for Bromate and Chlorate.
- WSL WDMP teams meeting was held with Stantec on 19 January 2021. The WDMP review is expected to be completed by the end of March 2021.
- Meremere WWTP new resource consent limits in place for discharge.

3.7 Customer

- Scoping began for Raglan complex water meter installation, letters to owner for works to begin late February sent.
- Watercare and WDC Contact Centre workshop on KT page, service requests and feedback Rob Ball and Jaime Wara present. Focus on feedback and using KT pages.

3.8 Strategic Resource Consents

Raglan WWTP resource consent application

- A Raglan wastewater consent community hui was held on the 28th of January. The topics covered included recent consultant reporting that had come through, an update on inflow and infiltration influence on the Raglan network and current work underway in the preparation of a biosolids management strategy which will encompass the wider district.
- The tables below were presented at the hui, where these are taken from the recent consultant costing investigations received. They represent capital and annual operational expenditure for each of the short-listed treatment and discharge solutions. With environmental investigations and costing work largely completed now for the project, it was stressed that progression toward a single option should occur (i.e. in order to lodge an

application with the Waikato Regional Council by the desired July timeframe). RMA terminology for this option is the 'Best Practical Option' (BPO).

Methodology to arrive at a BPO has been communicated throughout engagement, where a 'Multi Criteria Analysis' (MCA) is to be used.

- It is critical for the applicant to now led parties through MCA procedure (i.e. individually, or through groups). This work is intended to occur during February and March, where a first step will be for the project team to undertake a draft MCA internally for distribution. This should act as template for workshopping needed with groups, to understand areas of difference and agreement. The selected BPO may differ between the applicant, community individuals/groups and hapū. This will be clearly articulated within the application, with the hope to narrow down any potential differences.

Option	Treatment	Discharge
Option M1	Existing treatment process + tertiary membrane	New harbour outfall
Option M2	MBR and UV disinfection	New harbour outfall
Option F1	MBR and UV disinfection	Freshwater diffuse discharge
Option L1	Existing treatment process + tertiary membrane	Combined public land discharge and new harbour outfall
Option L2	Existing treatment process	Private land discharge and storage
Option L3	Existing treatment process + tertiary membrane	Combined private land discharge and new harbour outfall

Option	M1	M2	F1	L1	L2	L3
Capex (\$1000 NZD)	17,000	30,000	31,000	25,000	59,000	42,000
Additional Annual Opex (\$1000 NZD)	498	1,501	1,497	660	421	771
NPV (\$1000 NZD)	24,200	52,100	52,500	34,600	64,800	53,100

Costing estimates for treatment and discharge upgrade options

- Theoretical scenario building was needed to construct the above table of costs. The areas highlighted below were used for the potential public land option costing (L1). There is no land secured for such a discharge option, however there is ability to investigate the potential of this option with land managers and users if favour exists for its pursual. Relevant parties would be the Raglan Golf Club, WDC Parks Department, Department of Conservation and hapū.
-



Large areas of public land in Raglan

Te Kauwhata WWTP

- There is agreement in principle by Waikato District Council, hapū and key stakeholders to progress a treatment upgrade to a Membrane Bioreactor (MBR). This allows advancement of concept design and undertaking necessary RMA processes (meeting OPW, National Standards and Regional Council statutory requirements). This investigation work was initiated during November and continues now.

Matangi WWTP

- The Matangi WWTP is a plant that serves 57 residential properties within the small southern Waikato town. The discharge consent for the plant will expire on the 30th of September 2021, where a high-level consenting strategy was developed in October 2020, in order to direct technical study. A description of WWTP operation is outlined in steps below:
 - Step 1: Houses retain a septic tank which offers pre-treatment and settling (tanks are cleared by WDC routinely). The plant then receives the liquid portion of household effluent only, which is pumped to site.
 - Step 2: Once received at the WWTP, the effluent is captured in septic tank system and screened (primary treatment), then sent to the recirculating sand filter which acts to reduce BODs and de-nitrify wastewater (i.e. both these compounds are nutrients that can cause environmental effects to groundwater). Treatment occurs by naturally occurring micro-organisms in the filter utilising the nutrients in wastewater as food.
 - Step 3: The WWTP site is largely made up of disposal fields which receives the treated wastewater and allows further microbial activity to occur. It is important not to overload the

disposal fields, therefore areas of discharge are alternated to allow full recovery between doses.

- Geotechnical investigation of fields and a process investigation is underway by expert consultants (Beca), in order to understand if optimal plant performance is achieved. Engagement with the adjacent school, hapū and tribe has been initiated also.
- An internal technical workshop between WSL and Beca is planned for the second week of February to understand investigation recommendations. Greater information will then be distributed to interested parties. A key factor is that Metro Plan optioneering is underway as part of a multi-Council study. Matangi's proximity to southern Hamilton growth and Cambridge could open opportunity for a smaller settlement connection to a wider scheme. Any Metro Plan solution could be 10 years (plus) away in timing. It could therefore be practical to understand Metro Plan outcomes and opportunity, as part of determining any plant upgrade, or consent duration.





Images illustrating the Matangi WWTP site

3.11 Summary of Abatement Notices for Compliance Periods prior to October 2019

Wastewater Treatment

- The Te Kauwhata WWTP Discharge Consent – Abatement Notice for 2018-19 compliance period the abatement notice requires Total Kjeldahl Nitrogen (TKN), Total Nitrogen (TN), Total Phosphorus (TP) loads and E.coli exceedances to be resolved

Note: Abatement Notices for Meremere WWTP and Raglan stormwater are now resolved.

Appendix 1 – Health and Safety Statistical Reporting

Figure 1: LTIFR Values

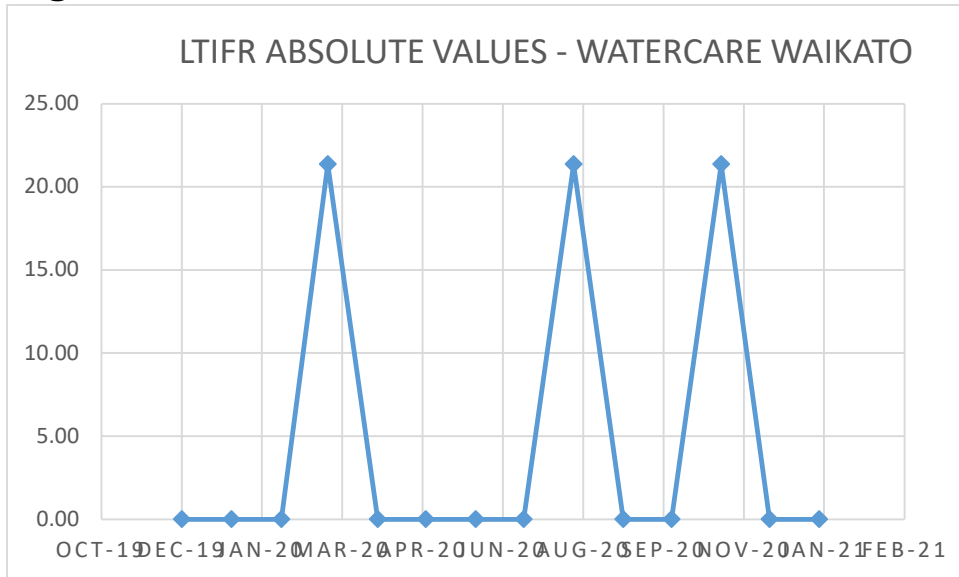
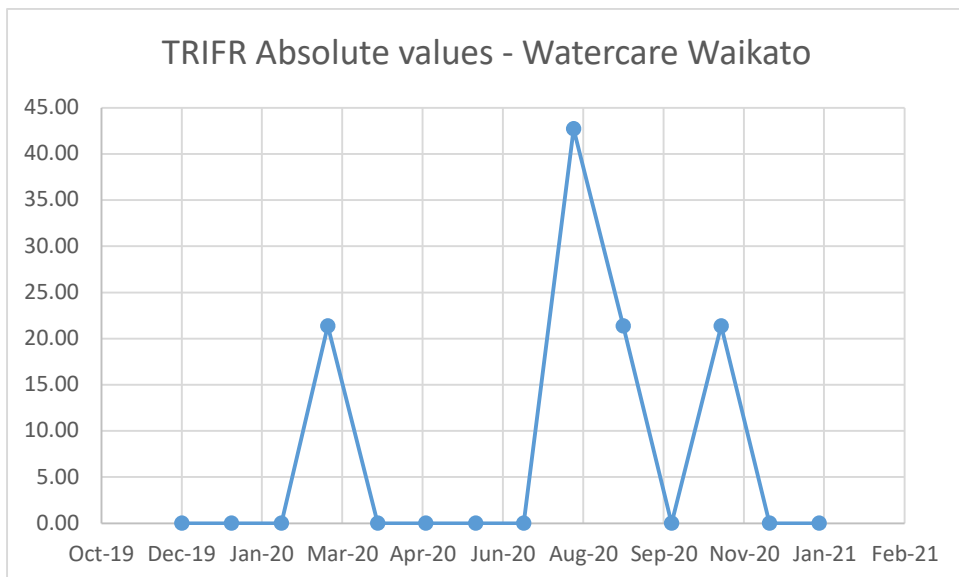


Figure 2: TRIFR Values



Open Meeting

To	Waters Governance Board
From	Ian Cathcart Special Infrastructure Projects Manager
Date	23 February 2021
Prepared by	Ian Cathcart
Chief Executive Approved	Y
Reference #	WGB2021; ECM ID # 3006510
Report Title	Risk Register Update

1. EXECUTIVE SUMMARY

This report is to give the Board an update on the risk register. The report outlines the extreme and high risks in the WDC risk register.

2. RECOMMENDATION

THAT the report from the Special Infrastructure Projects Manager be received.

3. DISCUSSION

The paper covers the update of the WDC risk register and there are 62 risks are on the register.

There were 15 residual extreme and high risks at last review in 2020. After a review of the risk register in early 2021 there are now 8 extreme and high risks.

The 7 risks reduced to below extreme and high are as follows:

Risk No.	Brief overview for downgrade of risk.
5	Revenue not sufficient to cover costs. LTP re forecasted.
6	Population growth uncertainty. Growth examined in detail in LTP build.
39	Uncertainty in stormwater scope. Engineer managing this with success.
40	Raglan WWTP consent budget insufficient. Rectified in 2021 LTP.
47	Te Kauwhata WWTP abatement notice not complied with in time. Plan in place with WRC and design and construction imminent.
48	Meremere WWTP abatement notice not complied with. New resource consent gained and new plant under construction.
50	Expected procurement savings not achieved. Realised and reset in new LTP

A further more detailed risk assessment review will be undertaken as part of the contract review in March 2021.

The risks are under active management as updated in the attached tables.


4. CONCLUSION


The risks are being managed and reported via monthly ops report and quarterly board reports.


5. ATTACHMENTS


Risk Register

Risk Tables

 Risk Register (Standard)												
Project Name:		Watercare Contract Three Waters				Project Number:						
Completed By:		Reviewed by IC				Date:		10/02/2020				
Risk Ref #	Risk Statement <i>Risk statement to include "Bad outcome - cause"</i>	Gross Risk score			Treatment plan <i>What can we do about each significant risk to either eliminate it or reduce it?</i>	Residual Risk score			Contingency <i>If the risk becomes reality...what action(s) will we implement?</i>	Risk Owner <i>Who will take responsibility for this risk? (One person!)</i>	Monitoring/ Reporting <i>Who will monitor and report on this risk?</i>	Timeframe <i>What is the frequency for monitoring/ reporting?</i>
		likelihood	sequence	Factor		likelihood	sequence	Factor				
9	Not meeting Operational Period conditions. Relationship Manager in co-ordinating role needs dedicated time to actively manage all necessary project management responsibilities and tidy up historical issues	4	4	High	Review the contract in early 2021 and start a program to secure transition of the contract to the operational period.	4	4	High	Stage the operational period commencement.	Relationship Manager	Relationship Manager	Quarterly risk reporting
21	Development Agreements are not put in place in a timely manner. WDC or WSL exposed to costs to get agreements in place retrospectively. Developer may not be able to connect to services in timely manner (or at all)	4	4	High	Focus is being placed on closing off development agreement discussions and continuing active dialogue with developers. A working group has been set up between in WDC associated with the weekly 'Water Wash Up' meetings to address outstanding and future agreements. A Design Thinking process is being applied to the DA end to end product from a customer, finance and risk perspective.	3	4	High		Special Infrastructure Project Manager	Relationship Manager	Quarterly risk reporting
29	Support systems necessary to maintain LOS are not available or reliable through transition period into the operational period	3	4	High	New IM stream lead required to ensure the integration occurs. Maintenance of existing systems until new system are tested and ready. Project Manager in place and working with Watercare on the IM transition.	3	4	High	Continue to use WDC systems	Relationship Manager	Relationship Manager	Quarterly risk reporting

 Risk Register (Standard)												
Project Name:		Watercare Contract Three Waters					Project Number:					
Completed By:		Reviewed by IC					Date:		10/02/2020			
Risk Ref #	Risk Statement <i>Risk statement to include "Bad outcome - cause"</i>	Gross Risk score			Treatment plan <i>What can we do about each significant risk to either eliminate it or reduce it?</i>	Residual Risk score			Contingency <i>If the risk becomes reality...what action(s) will we implement?</i>	Risk Owner <i>Who will take responsibility for this risk? (One person!)</i>	Monitoring/ Reporting <i>Who will monitor and report on this risk?</i>	Timeframe <i>What is the frequency for monitoring/ reporting?</i>
		likelihood	sequence	Factor		likelihood	sequence	Factor				
43	Non compliance with discharge consents not in abatement or further abatement notices	4	3	High	Identification of required upgrades early to allow upgrade costs to be included in LTP funding plan. Continued liaison with regulators. Paper submitted to WGB June 2020.	4	3	High		Relationship Manager	Relationship Manager	Quarterly risk reporting
49	Long Term resource consent application for Raglan WWTP is poor or not completed in time. Reputational damage with the local community and Iwi if the process is not expedited quickly and inclusively.	4	4	High	Short term 36 month consent gives WDC the time to work with Watercare to achieve the best outcome. Consent lodged 6 November 2019. Community meetings occurring regularly with detailed options analysis being undertaken for treatment and disposal.	3	4	High		Special Infrastructure Project Manager	Relationship Manager	Monthly Operations report
60	Contract for Hamilton City water supply to WDC has lapsed and is mid negotiation with cost exposure impacting savings anticipated in the LTP Watercare model	5	4	Extreme	Continue negotiations.	5	4	Extreme		Special Infrastructure Project Manager	Relationship Manager	Quarterly risk reporting

 Risk Register (standard)												
Project Name:		Watercare Contract Three Waters				Project Number:						
Completed By:		Reviewed by IC				Date:		10/02/2020				
Risk Ref #	Risk Statement <i>Risk statement to include "Bad outcome - cause"</i>	Gross Risk score			Treatment plan <i>What can we do about each significant risk to either eliminate it or reduce it?</i>	Residual Risk score			Contingency <i>If the risk becomes reality...what action(s) will we implement?</i>	Risk Owner <i>Who will take responsibility for this risk? (One person!)</i>	Monitoring/ Reporting <i>Who will monitor and report on this risk?</i>	Timeframe <i>What is the frequency for monitoring/ reporting?</i>
		likelihood	sequence	Factor		likelihood	sequence	Factor				
61	TKWA contract has expired and needs reviewing to modernise, add KPIs and ensure consent to take water will be committed to by the association. The new drinking water regulation may impose WDC oversight on the association regardless of whether the asset owner or not.	5	3	High	Supply continues using the lapsed agreement. Consultant being engaged to manage the process to clear up the maintenance contract, resource consent strategy and supply contract. Maintenance contract terminates 30 June and is largely lapsed with TKWA delivering it themselves. Supply contract is 95% complete awaiting final amendments from TKWA. Resource consent is with TKWA to obtain. Watercare were going to assist but declined in January 2021.	5	3	High	A resource consent and new intake can be obtained by WDC and this has been considered in the Mid Waikato Servicing Strategy. Workshops have been completed with TKWA, Watercare and WDC to plan for how to approach this. Once the supply contract is signed the focus will move to the Consent application and how to protect WDC interests.	Special Infrastructure Project Manager	Relationship Manager	Quarterly risk reporting

 Risk Register (Standard)												
Project Name:		Watercare Contract Three Waters				Project Number:						
Completed By:		Reviewed by IC				Date:		10/02/2020				
Risk Ref #	Risk Statement <i>Risk statement to include "Bad outcome - cause"</i>	Gross Risk score			Treatment plan <i>What can we do about each significant risk to either eliminate it or reduce it?</i>	Residual Risk score			Contingency <i>If the risk becomes reality...what action(s) will we implement?</i>	Risk Owner <i>Who will take responsibility for this risk? (One person!)</i>	Monitoring/ Reporting <i>Who will monitor and report on this risk?</i>	Timeframe <i>What is the frequency for monitoring/ reporting?</i>
		likelihood	sequence	Factor		likelihood	sequence	Factor				
62	Risk of prosecution for failure to meet requirements of stormwater consents across the district. A letter of direction was received from WRC for the 2020 Stormwater audit.	5	3	High	Complete the required actions from the letter including an update of the Stormwater Management Plan. The contract requires a review of the approach to stormwater. Stormwater Engineer in place to manage this. A letter of direction for PARTIAL COMPLIANCE was received for the 2019-20 compliance year but included this commentary "I acknowledge all the hard work and effort that has been done during the last year to improve compliance and reporting of WDC's stormwater activities. I know that the existing abatement notice has had most of its required actions implemented and completed. The actions in the table above may include some overlap with the actions required in the existing abatement notice. Once the full set of required actions in the abatement notice has been completed then WDC may apply to Waikato Regional Council to have that abatement notice withdrawn."	4	3	High		Relationship Manager	Relationship Manager	Quarterly risk reporting

Open Meeting

To	Waters Governance Board
From	Ian Cathcart Special Infrastructure Projects Manager
Date	23 February 2021
Prepared by	Carole Nutt Waters Contract Relationship Manager
Chief Executive Approved	Y
Reference #	WGB2021; ECM ID # 3003701
Report Title	Health and Safety Audit

I. EXECUTIVE SUMMARY

In line with clause 16.1(d) of the Agreement for Operation and Maintenance of Water, Wastewater and Stormwater Services, Council has requested Watercare Services Ltd (Watercare) engage New Zealand's leading provider of health and safety solutions Impac Services Limited to undertake the annual safety audit to assess Watercare's (and any relevant subcontractor's) compliance with Health and Safety Legislation and best practice. The key focus areas selected for this audit are included in Appendix I. The audit is being carried out in February with an outcome report expected in March. Results of the audit will be reported to the Waters Governance Board at the next meeting.

Separate to the audit, Council staff are preparing a calendar schedule of Council planned health and safety activities in relation to the Watercare Agreement for the 2021 year.

2. RECOMMENDATION

THAT the report from the Special Infrastructure Projects Manager be received.

3. APPENDICES

Appendix I - Annual Safety Audit Scope

Appendix I - Annual Safety Audit Scope

Element	Requirement	Specific criteria
<p>Inspections, Auditing and Verification Activities</p> <p><i>Refer to Waikato Waters Agreement Health and Safety Framework, Attachment 4 – Section 8.2)</i></p>	Implementation and functioning of regular planned workplace inspections and verification activities	<p>Proof of site inspection and safety audits.</p> <p>Proof of certification and calibration of:</p> <ul style="list-style-type: none"> • Mobile plant and equipment • Confined space equipment • Load lifting and rigging equipment
<p>Contractor and Subcontractor Management</p> <p><i>(Refer to Waikato Waters Agreement Health and Safety Framework, Section 1.6)</i></p>	Implementation and functioning of Contractor and Subcontractor Management System for Waikato Waters Operations	Appropriate procedures and evidence of application of pre-qualification, tendering, induction, monitoring and review of contracted activities and services
<p>Critical Risk Management Activities</p> <p><i>(Refer to Waikato Waters Agreement Health and Safety Framework, Attachment 4 – Agreement Risk Controls)</i></p>	<p>Confined Spaces – The hazards and risks associated with working in confined spaces must be assessed and appropriate controls implemented to manage the risks</p>	<p>Confined Space Task Management Appropriate processes must be in place to ensure activities involving work in confined spaces are planned, permitted, and equipment and controls are in place as per AS 2865.</p> <p>Atmospheric Testing Where risk assessment identifies risk of a contaminated atmosphere, atmospheric testing must be conducted.</p> <p>Confined Space Access Control An adequate system must be in place to track personnel entering and exiting.</p> <p>Training and Competency Confined space training must be place, including emergency response resources.</p>
	<p>Asbestos – The hazards and risks associated with asbestos and respiratory disease or illness must be assessed and appropriately controlled</p>	<p>All requirements set out in the Health and Safety at Work (Asbestos) Regulations 2016 must be adhered to as applicable:</p> <ul style="list-style-type: none"> • Asbestos Management Plans • Worker training • Health monitoring • Demolition or refurbishment surveys • Asbestos-related work
	<p>Working Alone – The hazards and risks associated with working alone must be identified and assessed and appropriate controls must be implemented to manage the risks. 21. <i>Managing Risks associated with remote or isolated work.</i></p>	<p>Working Alone Task Management A process must be in place to ensure tasks with the risk of working alone are identified and controlled with consideration of the hierarchy of controls.</p> <p>Communication Systems An effective means of communication with a worker who performs remote or isolated work must be in place.</p> <p>In accordance with the Health and Safety at Work (General Risk and Workplace Management Regulations 2016, Section 21 Managing risks associated with remote or isolated work.</p>

Open Meeting

To	Waters Governance Board
From	Gavin Ion Chief Executive
Date	12 February 2021
Prepared by	Lynette Wainwright Committee
Chief Executive Approved	Y
Reference #	GOV1318
Report Title	Exclusion of the Public

I. RECOMMENDATION

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
PEX Item 1 Confirmation of Minutes	Good reason to withhold exists under Section 6 or Section 7 Local Government Official Information and Meetings Act 1987	Section 48(1)(a)
PEX Item 2 Actions		
Item 3.1 Pokeno & Tuakau Wastewater Servicing and Capacity		

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
PEX Item 3.2 Waters Financial Results to 31 December 2020		

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
PEX Item 1 Confirmation of Minutes		Refer to the previous Public Excluded reason in the agenda for this meeting.
PEX Item 2 Actions Register		Refer to the previous Public Excluded reason in the agenda for this meeting.
PEX Item 3.1 Pokeno & Tuakau Wastewater Servicing and Capacity	7(2)(b)(ii)	To protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information.
	7(2)(j)	To prevent the disclosure or use of official information for improper gain or improper advantage.
PEX Item 3.2 Waters Financial Results to 30 September 2020	7(2)(b)(ii)	To protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information.
	7(2)(j)	To prevent the disclosure or use of official information for improper gain or improper advantage.

AND THAT Ms Danks be permitted to remain at this meeting, after the public has been excluded, because of her knowledge of Watercare. This knowledge, which will be of assistance in relation to the matter to be discussed, is relevant to that matter because of Watercare's role and responsibility for those matters.