

Site Compliance Report

Site No: REG602785
Site Owner: Waikato District Council
Site Name: Huntly Water Supply: Jackson Street, Huntly
Date of Assessment: 1 July 2023 to 30 June 2024

1 INTRODUCTION

The following resource consents are held for the site:

Resource Consent	Status	Description	Commenced	Expiry
AUTH105035.01.01	Current	Discharge filter backwash water and sedimentation tank sludge clear water from a water treatment plant to the Waikato River	12/01/2011	12/01/2046
AUTH123691.01.01	Current	Placement of a water intake structure on the bed of the Waikato River and associated bed disturbance, use and maintenance of the structure	8/12/2011	12/01/2046
AUTH136806.01.01	Current	To take water from the Waikato River at two locations for domestic and municipal supply to Ngaruawahia, Hopuhopu and Huntly communities.	15/06/2016	12/01/2046

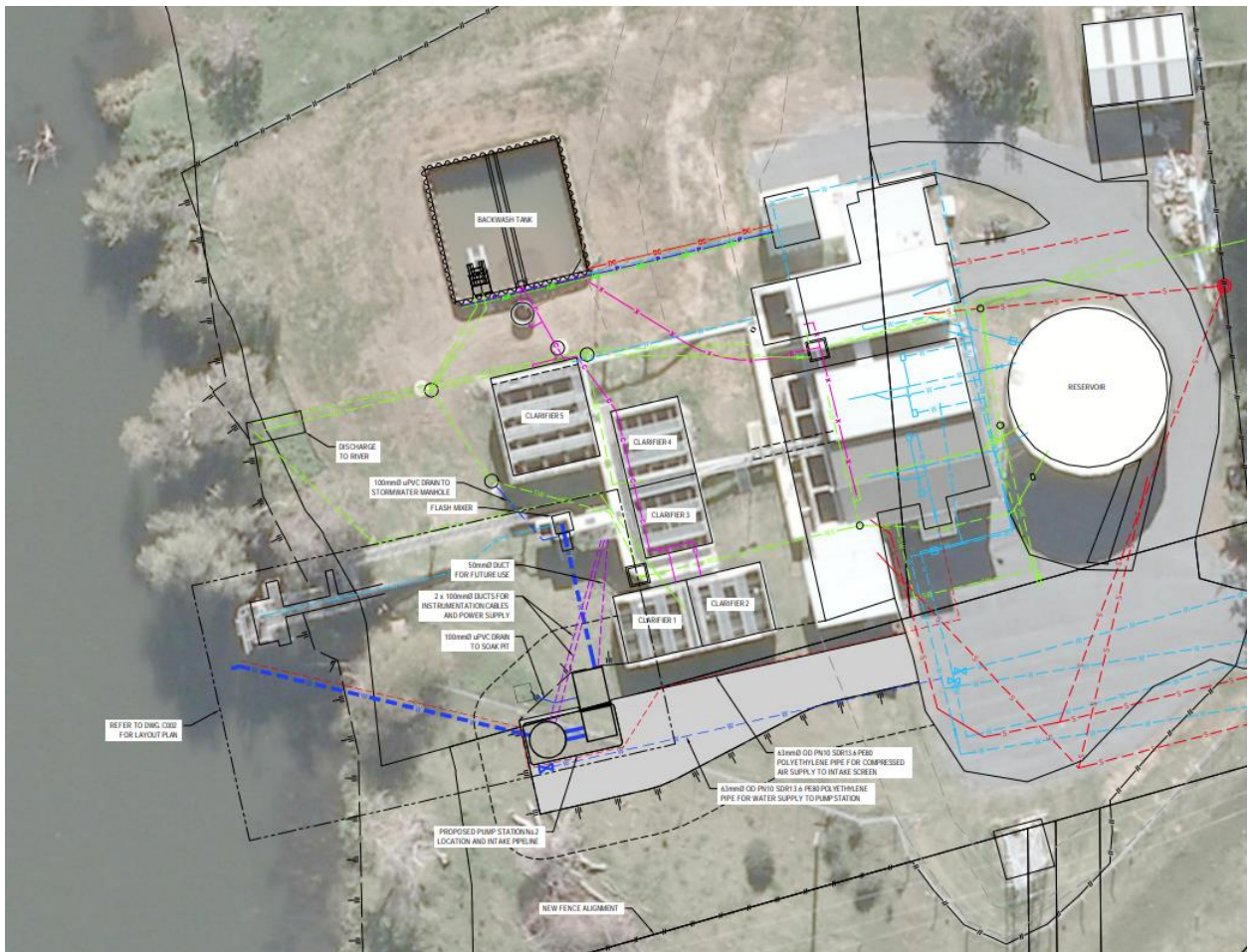
This report examines the level of compliance of Waikato District Council with the selected conditions of the resource consents and any relevant permitted activities.

2 BACKGROUND

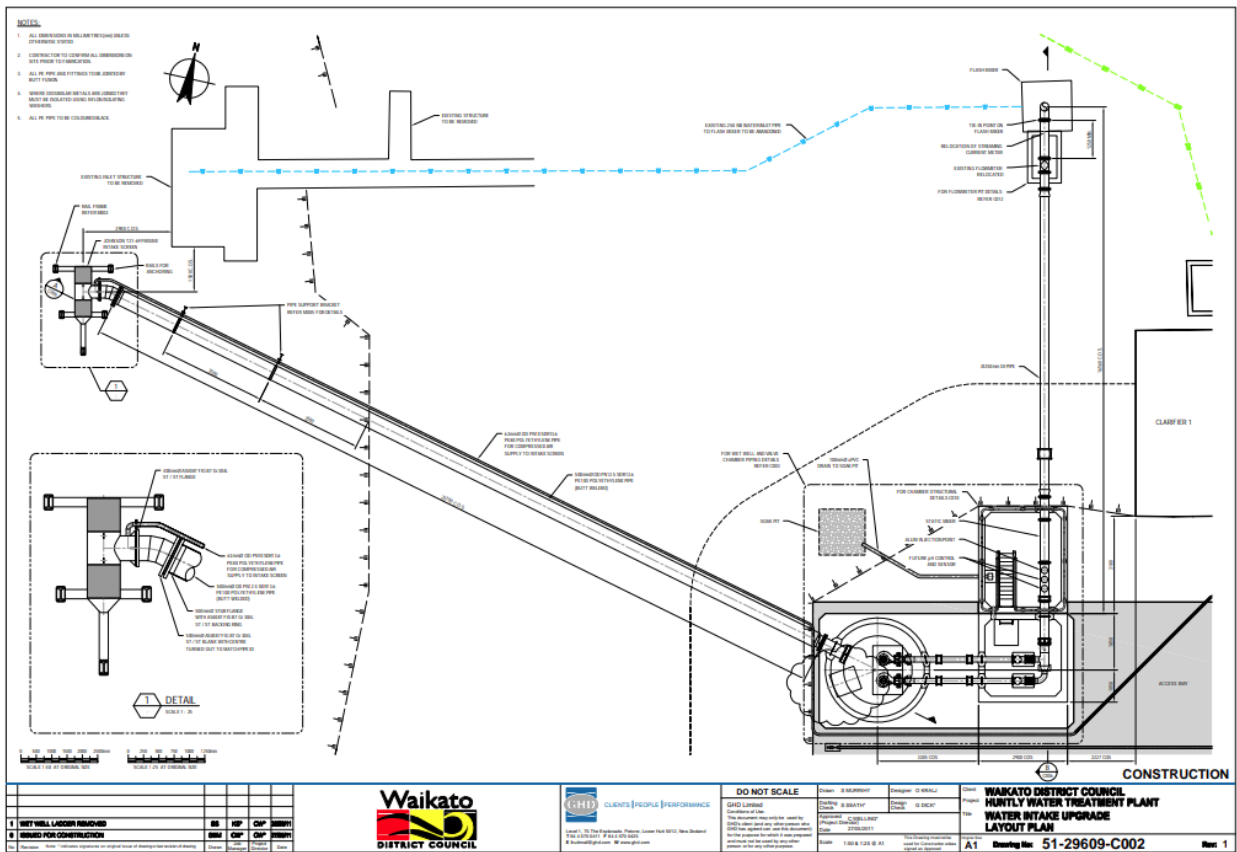
The Waikato District Council operates the Huntly water treatment plant (WTP) in James Street on the true right bank of the Waikato River just upstream of the Huntly township. Waikato District Council has a contractual arrangement with Watercare Services Limited to operate their three waters assets until 2028.

The Huntly water treatment plant has an in-river 1.5mm screened water take and water flows by gravity into a pump chamber where it is lifted up to the treatment level. Here it is dosed and then passed through clarifiers and sand filters before being stored in the onsite reservoir and from there distributed to the reticulation system.

Backwash from the processes used to be settled on site and the clear supernatant was discharged back to the river under AUTH105035.01.01 however after trialling the discharge to the Huntly WWTP via the existing sewer system it was found that this solution is better and easier to operate without any adverse effects on the wastewater system. Therefore AUTH105035.01.01 has not been assessed as part of this audit.



Aerial photo (above) and intake diagram (below)



Waikato DISTRICT COUNCIL		GHM		DO NOT SCALE		WAIKATO DISTRICT COUNCIL HUNTLY WATER TREATMENT PLANT WATER INTAKE UPGRADE LAYOUT PLAN		
1 HILL LAMBER REVISION	2 BARRIS FOR CONSTRUCTION	CD DP OP SHH1	CD DP OP SHH1	CD DP OP SHH1	CD DP OP SHH1	CD DP OP SHH1	CD DP OP SHH1	
Project: 51-29609-C002 Drawing No: 51-29609-C002 Rev: 1				Date: 2023/07/11 Scale: 1:50 Author: [Name] Checked: [Name] Drawn: [Name]				Page: 1 of 1

2.1 PREVIOUS COMPLIANCE HISTORY

Date Period	Site Compliance
1 July 2023 to 30 June 2024	Full Compliance
1 July 2022 to 30 June 2023	Not assessed
1 July 2020 to 30 June 2021	Full Compliance
1 July 2019 to 30 June 2020	High level of compliance

3 COMPLIANCE ASSESSMENT

Unless otherwise specified in this document this assessment covers the period from **1 July 2023 to 30 June 2024**.

This compliance assessment has been undertaken based on the submitted annual report by the consent holder, monitoring data supplied throughout the compliance period and any site inspections undertaken. Some administration, duplicate or irrelevant conditions have been omitted for brevity.

Please note that a description of the classification system used to describe compliance status is given in Appendix 1 of this report.

3.1 Relevant Documents

ID	Name ↑
28002481	20231115_Water Demand Management Plan.pdf ▾ 📄
29745222	Appendix A_Water Abstraction Data - 2024-07.xlsx ▾ 📄
29745323	Appendix B_Wai Comply Audit Report_Watercare Waikato.pdf ▾ 📄
29745636	Appendix C_Verification and Calibration Certificates.pdf ▾ 📄
29745324	Appendix D_Velocity Data_Huntly & Ngaruawahia WTP.xlsx ▾ 📄
29745223	Appendix E_Watercare_Huntly & Ngaruawahia WTP Dive Reports 2023-24.pdf ▾ 📄
29745033	Appendix F_Ngaruawahia WTP Backwash Sampling.pdf ▾ 📄
29746215	Huntly and Ngaruawahia Water Supply Operation Annual Report 2023-24 ▾ 📄
29860146	Huntly intake report July 2024.docx ▾ 📄
29746680	Huntly-Nga WTP Consent Annual Report 2023-24.pdf ▾ 📄
29415594	Watercare Services Limited Waikato Huntly Water Treatment Plant Intake Report April 2024.pdf ▾ 📄

AUTH105035.01.01 - Water - other

Activity Authorised: Discharge filter backwash water and sedimentation tank sludge clear water from a water treatment plant to the Waikato River

Condition No.	Description
1	The discharge authorised by this consent shall be undertaken in general accordance with: (a) the document titled "Waikato District Council, Huntly Urban Water Supply Scheme" dated June 2008 by Opus International Consultants Limited; (b) as identified in the resource consent conditions below. The conditions identified below shall prevail should any inconsistency between the application documentation and conditions occur.
Evidence	WDC now disposes of its filter backwash water to the wastewater sewer.
Status Reasoning	
Action Required	Not assessed
	Authorisation Compliance: Not assessed

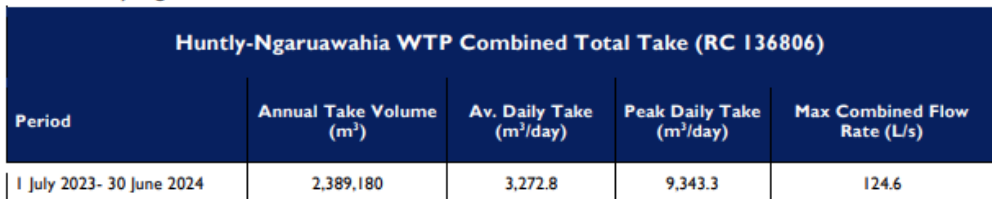
AUTH123691.01.01 - Bed - structure

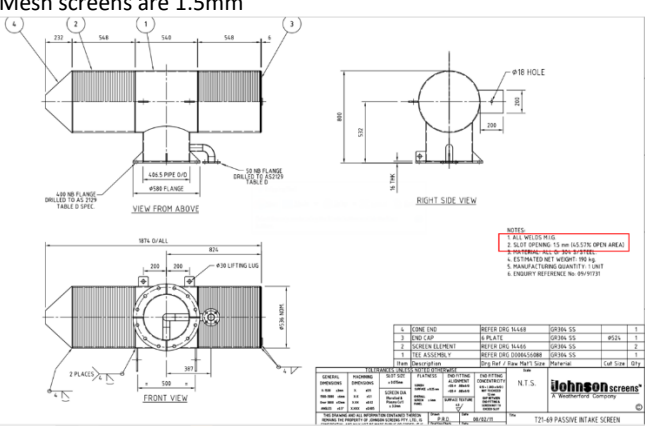
Activity Authorised: Placement of a water intake structure on the bed of the Waikato River and associated bed disturbance, use and maintenance of the structure

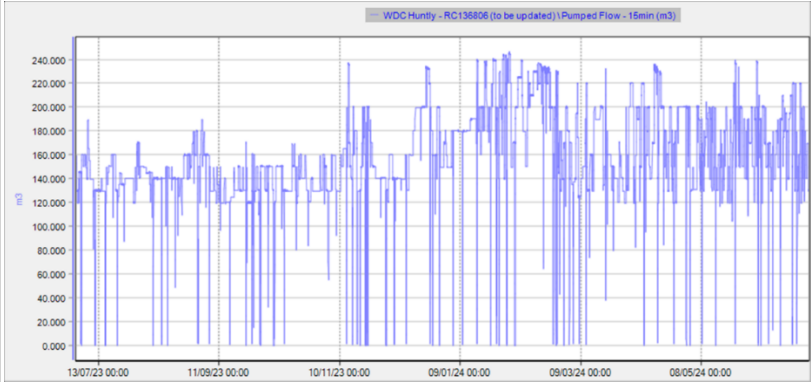
Condition No.	Description																															
1	The installation of the replacement water intake structure, pipeline and associated infrastructure shall be undertaken in general accordance with: a. The resource consent application documents titled 'Huntly Water Intake: Resource Consent Applications and Assessment of Effects on the Environment' prepared by David Ray of Environmental Management Services Limited, dated November 2011 (Waikato Regional Council document number 2090425); b. As identified in the resource consent conditions below;																															
Evidence	The intake structure was completed in 2012 and monitored during that time.																															
Status Reasoning																																
Action Required		Full Compliance																														
7	The intake screen shall be screened with a maximum slot opening width of 1.5mm.																															
Evidence	See as built drawing #2258694																															
	<p>NOTES: 1. ALL WELDS MIG 2. SLOT OPENING: 1.5 mm (4.57% OPEN AREA) 3. MATERIAL: A304-SS 4. ESTIMATED NET WEIGHT: 190 kg 5. MANUFACTURING QUANTITY: 1 UNIT 6. ENQUIRY REFERENCE No: 69-9731</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Description</th> <th>Qty</th> <th>Material</th> <th>Cut Size</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>TEE ASSEMBLY</td> <td>1</td> <td>GR304 SS</td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>GR304 SS</td> <td></td> <td>2</td> </tr> <tr> <td>3</td> <td>END CAP</td> <td>1</td> <td>GR304 SS</td> <td>#512L</td> <td>1</td> </tr> <tr> <td>4</td> <td>CONE END</td> <td>1</td> <td>GR304 SS</td> <td></td> <td>1</td> </tr> </tbody> </table>	Item	Description	Qty	Material	Cut Size	Qty	1	TEE ASSEMBLY	1	GR304 SS		1	2	SCREEN ELEMENT	2	GR304 SS		2	3	END CAP	1	GR304 SS	#512L	1	4	CONE END	1	GR304 SS		1	
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Status Reasoning																																
Action Required		Full Compliance																														
8	The consent holder shall be responsible for the structural integrity and maintenance of the intake structure, and for the provision and maintenance of any erosion control works that become necessary as a result of the exercise of this resource consent.																															
Evidence	WDC maintains the structure in a sound condition and regularly undertakes dive inspections and cleans the screens																															
Status Reasoning																																
Action Required		Full Compliance																														
9	The consent holder shall install signage to warn river users of the location and nature of the water intake.																															
Evidence	Signage is in place																															
Status Reasoning																																
Action Required		Full Compliance																														
Authorisation Compliance:		Full Compliance																														

AUTH136806.01.01 - Surface water take

Activity Authorised: To take water from the Waikato River at two locations for domestic and municipal supply to Ngaruawahia, Hopuhopu and Huntly communities.

Condition No.	Description										
1	<p>The activity authorised by this resource consent shall be undertaken in general accordance with the following application documentation:</p> <ul style="list-style-type: none"> • Waikato District Council Water Takes – Ngaruawahia, Hopuhopu and Huntly (Recorded as document number 6142638 on the Waikato Regional Council document recording system), and • Waikato District Water Demand Management Plan 2015 (Recorded as document number 6224956 on the Waikato Regional Council document recording system) <p>and as identified in the resource consent conditions below, which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.</p>										
Evidence											
Status Reasoning											
Action Required	Full Compliance										
2	<p>The consent holder shall be responsible for all sub-contracted operations related to the exercise of this consent, and must ensure sub-contractors are made aware of the conditions of this consent.</p>										
Evidence											
Status Reasoning											
Action Required	Full Compliance										
4	<p>This consent shall not be exercised until resource consents AUTH105034.01.02, AUTH105036.01.02 and AUTH108125.01.02 have all either been surrendered or have expired.</p>										
Evidence											
Status Reasoning											
Action Required	Full Compliance										
5	<p>The maximum combined daily and annual (1 July to 30 June) takes the Ngaruawahia and Huntly plants shall not exceed:</p> <p>1 July 2021 to 30 June 2027</p> <p>11,950m³/day</p> <p>2,843,000m³/year</p>										
Evidence	<p>Maximum combined daily take for both sites was 9343.3m³ /day</p> <div style="text-align: center;">  <table border="1"> <caption>Huntly-Ngaruawahia WTP Combined Total Take (RC 136806)</caption> <thead> <tr> <th>Period</th> <th>Annual Take Volume (m³)</th> <th>Av. Daily Take (m³/day)</th> <th>Peak Daily Take (m³/day)</th> <th>Max Combined Flow Rate (L/s)</th> </tr> </thead> <tbody> <tr> <td>1 July 2023- 30 June 2024</td> <td>2,389,180</td> <td>3,272.8</td> <td>9,343.3</td> <td>124.6</td> </tr> </tbody> </table> </div>	Period	Annual Take Volume (m ³)	Av. Daily Take (m ³ /day)	Peak Daily Take (m ³ /day)	Max Combined Flow Rate (L/s)	1 July 2023- 30 June 2024	2,389,180	3,272.8	9,343.3	124.6
Period	Annual Take Volume (m ³)	Av. Daily Take (m ³ /day)	Peak Daily Take (m ³ /day)	Max Combined Flow Rate (L/s)							
1 July 2023- 30 June 2024	2,389,180	3,272.8	9,343.3	124.6							
Status Reasoning											

Action Required		Full Compliance																																																																																																																																																																																																																																																																																																																																																																																																																				
6	The total instantaneous take of rate, from the two plants combined, shall not exceed 215 litres per second.																																																																																																																																																																																																																																																																																																																																																																																																																					
Evidence	The maximum combined daily take rate was 124.6l/sec. See table in condition 5																																																																																																																																																																																																																																																																																																																																																																																																																					
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7	<p>When the Waikato River 7-day rolling average flow at Rangiriri (Waikato Regional Council site number 1131.117, map reference NZTM 1788389E 5855059N), as determined by the Waikato Regional Council, is less than 159.3 cubic metres per second for 240 or more consecutive hours, the combined total net take volume in any 48 hour period must not exceed:</p> <p>Date range 1 July 2021 to 30 June 2027 Maximum 48 hour take (cubic metres) 1 July 2021 to 30 June 2027 20,060m³ 1 July 2027 to 30 June 2033 20,315m³</p>																																																																																																																																																																																																																																																																																																																																																																																																																					
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8	The Consent Holder shall ensure that the velocity of water through each intake screen does not exceed 0.2 metres per second at all times. If requested by the Waikato Regional Council in writing, the consent holder shall provide data and/or information on how this velocity requirement is achieved.																																																																																																																																																																																																																																																																																																																																																																																																																					
Evidence	This condition requires the consent holder to provide evidence for the intake screen velocity to be less than 0.2 m/s. Appendix D submitted (Water Outlook Raw water velocity SCADA data). Huntly indicates a daily max of 0.08 m/s and Ngaruawahia indicates a daily max of 0.05 m/s																																																																																																																																																																																																																																																																																																																																																																																																																					
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9	Each intake shall be screened with a mesh aperture size not exceeding 3 millimetres by 3 millimetres (or 3 millimetre diameter holes).																																																																																																																																																																																																																																																																																																																																																																																																																					
Evidence	<p>Mesh screens are 1.5mm</p>  <p>The drawing includes a parts list table:</p> <table border="1"> <thead> <tr> <th>ITEM NO.</th> <th>DESCRIPTION</th> <th>QUANTITY</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SCREEN ELEMENT</td> <td>1</td> <td>PIECE</td> </tr> <tr> <td>2</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>PIECE</td> </tr> <tr> <td>3</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>PIECE</td> </tr> <tr> <td>4</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>PIECE</td> </tr> <tr> <td>5</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>PIECE</td> </tr> <tr> <td>6</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>PIECE</td> </tr> <tr> <td>7</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>PIECE</td> </tr> <tr> <td>8</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>PIECE</td> </tr> <tr> <td>9</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>PIECE</td> </tr> <tr> <td>10</td> <td>SCREEN ELEMENT</td> <td>2</td> <td>PIECE</td> </tr> <tr> <td>11</td> <td>SCREEN ELEMENT</td> <td>2</td> 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10	A water measuring system shall quantify water taken from the take location on a cumulative basis. The system shall have a reliable calibration to water flow and shall be maintained to an accuracy of +/- 5%.
Evidence	Ngaruawahia raw water intake meter was last verified on 28/03/2024 and Huntly raw water intake meter on 09/04/2024. See #29745636
Status Reasoning	
Action Required	Full Compliance
12	<p>The consent holder must telemeter – via a telemetry system developed after liaison with the Waikato Regional Council to ensure that the telemetry system is compatible with Waikato Regional Council telemetry system standards and data protocols – 15 minute values of net take volume (in units of cubic metres) for each take location.</p> <p>This data must be reported once daily to the Waikato Regional Council via the telemetry system and there must be 96 values for data, per site, per daily report. When no water is being taken the data must specify the net take volume as zero.</p>
Evidence	<p>Telemetry has been established. See trace for the period below</p> 
Status Reasoning	
Action Required	Full Compliance
13	<p>By 1 December in 2020, and every sixth anniversary thereafter, the consent holder shall provide a Water Allocation Progress Report to the Waikato Regional Council, detailing whether, the maximum daily and/or annual take volumes provided for the next six year period (commencing the subsequent 1 July) by condition 5, are required and reasonably necessary to enable the effective and efficient municipal supply, or whether a reduced maximum daily and/or annual take volume is sufficient.</p> <p>In making this determination, the report shall as a minimum:</p> <ol style="list-style-type: none"> 1. Detail the basis upon which that forecasted daily and annual total water demands were calculated; 2. Give consideration to any discrepancies between previously forecast daily and annual water demand, and the subsequent actual water usage. 3. Comment on any uncertainties associated with the growth data used to calculate future demand.
Evidence	A Water Demand Management Plan has been submitted see doc ref 28002481
Status Reasoning	
Action Required	Full Compliance
14	Where the forecasted maximum daily and/or annual take volume advised in any Water Allocation Progress Report (required by condition 13) is less than the volume provided for by condition 5 of this

	<p>consent:</p> <ol style="list-style-type: none"> 1. The reduced maximum daily and/or annual volume forecast shall become the maximum daily and/or annual take volume limit for that six year period; and 2. Low flow restriction limits, as required by condition 7, shall be twice the determined daily limit reduced by 15 percent. <p>Advice note: <i>The setting of a reduced maximum daily and/or annual take volume for a stated six year period does not affect the maximum daily and/or annual take volumes for any subsequent six year period(s).</i></p>
Evidence	
Status Reasoning	
Action Required	Not assessed
15	<p>The consent holder shall carry out its water supply operations in general accordance with the Water Demand Management Plan entitled “Waikato District Council Water Demand Management Plan” dated July 2015 (Recorded as document number 6224965 on the Waikato Regional Council document recording system) or any subsequent updated version of this document as provided for by condition 16 of this consent.</p> <p>In the event of any conflict between the Water Management Plan (and any subsequent updated plan) and the conditions of this consent, then the conditions shall prevail.</p>
Evidence	
Status Reasoning	
Action Required	Full Compliance
16	<p>The Water Management Plan shall be reviewed, updated as necessary and submitted to Waikato Regional Council for approval (in a certifying capacity) by the 31 October 2017, and every three years thereafter.</p> <p>Approval by the Waikato Regional Council of any updated Water Conservation and Demand Management Plan shall be limited to an assessment of whether:</p> <ol style="list-style-type: none"> 1. The plan complies with the information requirements of Part 8.1.2.2 (Water Management Plans) of the Waikato Regional Plan; and 2. The plan is consistent with the conditions of this consent.
Evidence	The Water Management Plan was reviewed and submitted in May 2021 (#28002481).
Status Reasoning	
Action Required	Full Compliance
	Authorisation Compliance:
	Full Compliance

4 SUMMARY OF COMPLIANCE

Based on the conditions selected for monitoring, compliance has been assessed as:

Authorisation	Authorisation Description	Compliance Status
AUTH105035.01.01	Discharge filter backwash water and sedimentation tank sludge clear water from a water treatment plant to the Waikato River	Not assessed
AUTH123691.01.01	Placement of a water intake structure on the bed of the Waikato River and associated bed disturbance, use and maintenance of the structure	Full Compliance
AUTH136806.01.01	To take water from the Waikato River at two locations for domestic and municipal supply to Ngaruawahia, Hopuhopu and Huntly communities.	Full Compliance

Overall Site Compliance:

Full Compliance

5 DISCUSSION AND CONCLUSIONS

The backwash authorisation is no longer being used as currently the WTP discharges its backwash water to the main sewer. The consent holder has been operating the water take within the consent limits for volumes and rates of take. Meters are calibrated as required and the water demand management plan has been recently submitted to Waikato Regional Council.

6 SUMMARY OF ACTIONS REQUIRED

There are currently no actions required to be undertaken.

7 RECOMMENDATIONS FOR WAIKATO REGIONAL COUNCIL

- Recommend that this site is made a focus 2 site for the next compliance period.

I commend the consent holder for achieving full compliance for the period 1 July 2023 and 30 June 2024.



Edward Prince
Senior Monitoring Officer- RUD Environmental Compliance
Resource Use

**Date: 26 November
2024**

7.1 Decision

I have reviewed this audit report and agree with the recommendations.



Jack Blunden
Team Leader - RUD Environmental Compliance
Resource Use

**Date: 29 November
2024**

APPENDIX 1
Compliance Rating System

Compliance Status	Compliance Grade
	Not Assessed
	<p>Full Compliance Full compliance with all relevant consent conditions, plan rules, regulations and national environmental standards.</p>
	<p>Low Risk Non-Compliance Non-compliance with some of the relevant consent conditions, plan rules, regulations and national environmental standards. Non-compliance carries a low risk of adverse environmental effects or is technical in nature (e.g. failure to submit a monitoring report).</p>
	<p>Moderate Non-Compliance Non-compliance with most of the relevant consent conditions, plan rules, regulations and national environmental standards, where there are some environmental consequences and/or there is a moderate risk of adverse environmental effects.</p>
	<p>Significant Non-Compliance Non-compliance with many of the relevant consent conditions, plan rules, regulations and national environmental standards, where there are significant environmental consequences and/or a high risk of adverse environmental effects.</p>