

Site Compliance Report

Site No: REG602785
Site Owner: Waikato District Council
Site Name: Huntly & Ngaruawahia Water Supply
Date: 1 July 2020 to 30 June 2021

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.

2 BACKGROUND

The Huntly water treatment plant (WTP) in Jackson Road Huntly is operated by Waikato District Council and Watercare Services Ltd on behalf of the local community. The WTP takes raw water from the Waikato River via a below-water intake structure. This new intake replaced a gantry mounted intake that was removed due to its age in 2012. A new treated water reservoir has been constructed on site to provide additional capacity as part of the Huntly-Ngaruawahia water transfer scheme. A new pipeline was laid between Ngaruawahia and Huntly to provide easy water supply between these towns and also catering for Hopuhopu and Taupiri. The Hopuhopu WTP has been decommissioned.

2.1 PREVIOUS COMPLIANCE HISTORY

Date Period	Site Compliance
1 July 2020 to 30 June 2021	Full Compliance*
1 July 2019 to 30 June 2020	High level of compliance
1 July 2018 to 30 June 2019	Partial compliance
1 July 2017 to 30 June 2018	High level of compliance

* Note – from 1 July 2021 the wording in Waikato Regional Council audit reports has changed from our previous compliance status and are now consistent with the Ministry of Environment compliance guidelines (refer Appendix 1).

3 COMPLIANCE ASSESSMENT

Unless otherwise specified in this document this assessment covers the period from 1 July 2020 to 30 June 2021.

This compliance assessment has been undertaken based on the submitted annual report by the consent holder and monitoring data supplied throughout the compliance period. 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.

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	July 2020 - June 2021 Huntly and Ngaruawahia Water Supply Operation Annual Report (Doc # 21399310).	
Status Reasoning	<p>The annual report states:</p> <p><i>All waste streams from the sedimentation and filtration processes at Huntly WTP have been diverted to an onsite sludge lagoon which then discharges to the Huntly Wastewater plant via the reticulation network.</i></p>	
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	
7	The intake screen shall be screened with a maximum slot opening width of 1.5mm.	
Evidence	Appendix E, intake screen specifications, July 2020 - June 2021 Huntly and Ngaruawahia Water Supply Operation Annual Report (Doc # 21399310).	
Status Reasoning	Appended drawings (Doc # 21399218 and # 21400569) confirm that intake screens have been constructed with 1.5mm slot openings. In particular, drawing D000456087 addresses the low priority non-compliance of RC condition 7 in the 2019 - 2020 period.	
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	Appendix E, Dive Reports, of the July 2020 - June 2021 Huntly and Ngaruawahia Water Supply Operation and Annual Report (Doc # 21399310) details the consent holders maintenance of the intake structure. Dive Surveys by DiveCo dated 5 March 2021 (Doc # 20203468).	
Status Reasoning	The Annual Report states: <i>WDC Dive Surveys were completed by DiveCo in March 2021 and the reports were submitted to WRC on 07/04/2021 to meet requirement for the RC 123691 compliance condition 8. The next dive surveys are scheduled for September-October 2021, once completed we will forward the reports to WRC.</i> Dive Surveys state that no damage or debris was found. Screens were cleaned with photographic evidence supplied.	
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	Dive Surveys by DiveCo dated 5 March 2021 (Doc # 20203468).	
Status Reasoning	Dive Survey Report states that Huntly WTP intake screen warning signs are obscured by vegetation. Additionally, no warning sign could be located for the Ngaruawahia WTP intake structure.	
Action Required	Install, or re-erect, warning signage for the Ngaruawahia WTP intake screen. Clear vegetation obscuring the Huntly WTP intake screen warning signs.	Low Risk Non-Compliance
	Authorisation Compliance:	Low Risk Non-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
4	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.
Evidence	Huntly municipal supply AUTH105034.01.02 was surrendered on the 07/09/2017. Hopuhopu AUTH105036.01.02 was surrendered on the 07/09/2017. Ngaruawahia AUTH108156.01.02 was superseded on 14/06/2016.
Status Reasoning	
Action Required	
	Full Compliance
5	The maximum combined daily and annual (1 July to 30 June) takes the Ngaruawahia and Huntly

	<p>plants shall not exceed:</p> <p>Date range - Commencement to 30 June 2021</p> <p>Maximum daily take (cubic metres) - 11,800</p> <p>Maximum annual take (cubic metres) - 2,783,000</p>
Evidence	July 2020 - June 2021 Huntly and Ngaruawahia Water Supply Operation Annual Report (Doc # 21399310).
Status Reasoning	<p>Maximum daily take (cubic metres) - 8,698m³</p> <p>Maximum annual take (cubic metres) - 2,316,823m³</p>
Action Required	Full Compliance
6	The total instantaneous take of rate, from the two plants combined, shall not exceed 215 litres per second.
Evidence	July 2020 - June 2021 Huntly and Ngaruawahia Water Supply Operation Annual Report (Doc # 21399310). Supported by Appendix A.
Status Reasoning	Max combined flow rate 117 L/s.
Action Required	Full Compliance
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 Commencement to 30 June 2021</p> <p>Maximum 48 hour take (cubic metres) = 17,850</p>
Evidence	No low flow events occurred in the Waikato River at Rangiriri this period.
Status Reasoning	
Action Required	Full Compliance
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	July 2020 - June 2021 Huntly and Ngaruawahia Water Supply Operation Annual Report (Doc # 21399310).
Status Reasoning	Appendix D - SCADA Intake Velocity Trends for the period July 2020 - June 2021 illustrates compliance with RC condition 8. Refer WRC Doc #21399217.
Action Required	Full Compliance

9	Each intake shall be screened with a mesh aperture size not exceeding 3 millimetres by 3 millimetres (or 3 millimetre diameter holes).
Evidence	Appendix E, intake screen specifications, July 2020 - June 2021 Huntly and Ngaruawahia Water Supply Operation Annual Report.
Status Reasoning	Appended drawings (Doc # 21399218 and 21400569) confirm that intake screens have been constructed with 1.5mm slot openings. In particular, drawing D000456087 of the Huntly WTP intake structure addresses the low priority non-compliance of RC condition 9 in the 2019 - 2020 period.
Action Required	Full Compliance
11	<p>Verification of the water measuring system's accuracy shall be undertaken by the consent holder:</p> <ol style="list-style-type: none"> 1. at the written request of the Waikato Regional Council; 2. at a frequency of no less than five yearly; and 3. to the satisfaction of the Waikato Regional Council. <p>Evidence documenting verification shall be forwarded to the Waikato Regional Council within one month of the verification being completed.</p>
Evidence	<p>July 2020 - June 2021 Huntly and Ngaruawahia Water Supply Operation Annual Report (Doc # 21399310). Appendix C annotation.</p> <p>July 2019 - June 2020 Huntly and Ngaruawahia Water Supply Operation Annual Report (Doc # 16934564). Refer Appendix C Calibration Certificates.</p>
Status Reasoning	<p>Huntly raw water intake meter, verification date 29/06/2020 (Doc #16979777).</p> <p>Ngaruawahia raw water intake meter, verification date 18/06/2020 (Doc #16980269).</p> <p>Watercare is currently organising the flowmeter verifications for the inlets and outlets of the WTPs for September 2021 with the results to be forwarded to WRC on completion.</p>
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	WRC Water Use Records in the period 1 July 2020 to 30 June 2021.
Status Reasoning	
Action Required	Full Compliance
13	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

	<p>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	WDC Water Allocation Progress Report dated May 2021 (Doc #20329854).
Status Reasoning	The submitted report meets the requirements of RC condition 13.
Action Required	Full Compliance
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	Waikato DC Water Demand Management Plan dated May 2021 (Doc #20409280).
Status Reasoning	Waikato DC Water Demand Management Plan dated May 2021 replaces prior versions and is consistent with condition 15.
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	Waikato DC Water Demand Management Plan dated May 2021 (Doc #20409280).
Status Reasoning	Approval process with WRC completed prior to receipt of final version of report from Waikato DC.
Action Required	Full Compliance
17	<p>The Waikato Regional Council may during 2021, 2026, 2031, 2036, 2041, following service of notice on the consent holder, commence a review of the conditions of this resource consent pursuant to section 128(1) of the Resource Management Act 1991 for the following purposes:</p> <ol style="list-style-type: none"> 1. to review the effectiveness of the conditions of this resource consent in avoiding or mitigating any adverse effects on the environment from the exercise of this resource

	<p>consent and if necessary to avoid, remedy or mitigate such effects by way of further or amended resource consent conditions; or</p> <ol style="list-style-type: none"> 2. to review the adequacy of and the necessity for monitoring undertaken by the consent holder; or 3. to review the appropriateness of any volume and/or rate specified within this resource consent and, if necessary, to address any inappropriateness of any volume and/or rate specified within this resource consent by way of reducing any volume and/or rate.
Evidence	
Status Reasoning	
Action Required	Not assessed
18	At any time during 2022, the Waikato Regional Council may, following service of notice on the consent holder, commence a review of the conditions of this resource consent pursuant to section 128(1) of the Resource Management Act 1991 to take into account of any change to the Waikato Regional Plan being proposed as a result of any catchment investigation undertaken by the Waikato Regional Council.
Evidence	
Status Reasoning	
Action Required	Not assessed
	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	Low Risk Non-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

Waikato District Council have attained a compliance status of Full Compliance for this monitoring period.

Issues identified relate to missing and obscured signage used to warn river users of the location of the WTP intake structures. Warning signage is a requirement of Condition 9 of RC AUTH123691.01.01.

6 SUMMARY OF ACTIONS REQUIRED

The following actions are required to be undertaken:

Resource consent	Condition Number	Action Required
AUTH123691.01.01	9	Install, or re-erect, warning signage for the Ngaruawahia WTP intake screen. Clear vegetation obscuring the Huntly WTP intake screen warning signs. Submit evidence of work carried out.

7 RECOMMENDATIONS FOR WAIKATO REGIONAL COUNCIL

I recommend that this site is a Priority 1 site and Focus Area 1 activity, and is audited again for the 2021/2022 year.



Brent Vyle
Resource Officer - Resource Use
Resource Use

Date: 4 August 2021

7.1 Decision




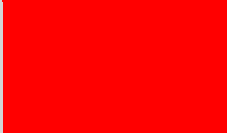
I have reviewed this audit report and agree with the recommendations.



Hugh Keane
Team Leader
Resource Use

Date: 5 August 2021

APPENDIX 1
Compliance Rating System

Compliance Status	Compliance Grade
	Not Assessed
	Full Compliance Full compliance with all relevant consent conditions, plan rules, regulations and national environmental standards.
	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).
	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.
	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.