

CONSENT REPORT TABLE

119647 Huntly Wastewater Sewage Treatment Discharge. Reporting Period 1 July 2012 – 30 June 2013

This consent authorises the Consent Holder: To discharge up to 11,500 cubic metres per day of treated domestic wastewater from oxidation ponds and wetland and gravel bed filter treatment system into the Waikato River, in the vicinity of the Waikato River and East Mine Road, Huntly.

	Conditions	COMPLY Yes/No	Comments
1	<p>The wastewater treatment and disposal system shall be designed, operated and maintained in general accordance with</p> <p>i) The application for this resource consent;</p> <p>ii) The document titled “Waikato District Council Ngaruawahia and Huntly Wastewater Resource Consents Project, Resource Consents Application: Assessment of Effects on the Environment” dated March 2009 and recorded on Waikato Regional Council’s document system numbered 1458402; and</p> <p>iii) The document titled “Waikato District Council Ngaruawahia and Huntly Wastewater Resource Consents Project, Resource Consents Application: Response to RMA Section 92(1) Requests for Further Information” dated August 2009 and recorded on Waikato Regional Council’s document system numbered 1531323;</p> <p>subject to the resource consent conditions below, which shall prevail should any inconsistency occur between the conditions and the application documents.</p>	Yes	The Huntly treatment plant has been generally operated in accordance with the conditions of Consent 119647. Deviations from Consent conditions are recorded below and summarised in the attached Summary Report.
2	The consent holder shall pay the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act (1991), or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act (1991).	Yes	Administrative charges have been paid.
3	Notwithstanding the stated limits in conditions of this consent, the consent holder shall make all reasonable and practical efforts to ensure that the final effluent quality is maximised within the capabilities of the treatment system at all times.	Yes	The treatment plant is managed and operated by appropriately trained and experienced engineers and operators.
4	The maximum volume of treated wastewater discharged shall not exceed 11,500 cubic metres per day.	Yes	<ul style="list-style-type: none"> Maximum recorded daily out flow was 7937m³/day.

	Conditions	COMPLY Yes/No	Comments
			<ul style="list-style-type: none"> • Average daily out flow was 2966 m³/day. • More detailed data is included in the attached spreadsheet.
5	<p>The consent holder shall ensure that prior to 1 December 2012, the quality of the discharge immediately after all controlled treatment processes and before any wetlands shall comply with the following limits:</p> <p>i) The pH of the discharge shall not be less than 6 or greater than 9 pH units;</p> <p>ii) The median five day carbonaceous biochemical oxygen demand concentration shall not exceed 30 grams per cubic metre and the 90th percentile shall not exceed 90 grams per cubic metre;</p> <p>iii) The median suspended solids concentration shall not exceed 90 grams per cubic metre and the 90th percentile shall not exceed 150 grams per cubic metre;</p> <p>iv) The median ammoniacal-nitrogen concentration shall not exceed 40 grams per cubic metre and the 90th percentile shall not exceed 30 grams per cubic metre;</p> <p>v) The median total nitrogen concentration shall not exceed 40 grams per cubic metre;</p> <p>vi) The median total phosphorous concentration shall not exceed 8 grams per cubic metre;</p> <p>vii) The median <i>Escherichia coli</i> (<i>E.coli</i>) concentration shall not exceed 3,500 MPN per 100 millilitres.</p> <p>For the purposes of this condition, to determine compliance with the median limits no more than six samples in any 12 consecutive monthly samples over the period 1 July to 30 June each year shall exceed the specified limit. To determine compliance with the 90th percentile limits, no more than one sample in any ten consecutive monthly sampling events shall exceed the specified limit.</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>	<p>i) All pH readings within the range.</p> <p>ii) There were no results over the median 30g/m³ There were no results over the 90thile of 90g/m³</p> <p>iii) There were no results over the median of 90g/m³ There were no results over the 90thile of 150g/m³</p> <p>iv) There were no results over the median of 40g/m³ There were no results over the 90thile of 30g/m³</p> <p>v) There were no results over the median of 40g/m³</p> <p>vi) There were no results over the median of 8g/m³</p> <p>vii) There was 1 result (of 5) that exceeded the median of 3500MPN/100ml</p> <p>Note: These calculations are for 4 months only. The October sample was missed during the changeover from Hills Laboratory to Hamilton CC Laboratory</p>

	Conditions	COMPLY Yes/No	Comments
7	Decommissioning of the gravel filters and construction of the rock-lined channel shall be completed within 12 months of commencement of this resource consent.	Yes	The Rock lined channel has been completed
8	The consent holder shall decommission the gravel filters and construct the rock-lined channel in such a manner so as to minimise sediment losses. To this end the works shall be undertaken in such a manner so that they are consistent with the Waikato Regional Council document titled "Erosion and Sediment Control – Guidelines for Soil Disturbing Activities" (Technical Report No 2009/02 dated January 2009).	Yes	Works were carried out according to Guidelines.
9	At least one month prior to decommissioning the gravel filters, the consent holder shall provide a Management Plan to the Waikato Regional Council which details as a minimum how the decommissioning works and construction of the rock-lined channel will be undertaken, the design plan for the rock-lined channel, and how compliance will be achieved with condition 8.	No	A Management Plan was not provided prior to commencement of works. WDC's project manager, Adam Serancke kept Ed Prince informed of progress during this upgrade.
10	Should the measured median concentration or 90 th percentile concentration for either five day carbonaceous biochemical oxygen, suspended solids or ammoniacal-nitrogen exceed 90% of the consented limits as specified in condition 6 of this consent for 2 of 3 consecutive years, then a "trigger" level will be met. The consent holder shall design, build and commission the appropriate upgrade to the treatment process within two years after the "trigger" level is reached. The upgrade undertaken shall be designed to reduce the median or 90 th percentile concentration as applicable, for the parameter for which the trigger was reached to less than 80% of the consented limit for that parameter.	<p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p>	<p>cBOD5 (90% of consented median = 27g/m³)</p> <p>10-11 The median was 18.0/m³</p> <p>11-12 The median was 24.0/m³</p> <p>12-13 The median was 21.6/m³</p> <p>(90% of consented 90th %ile = 54g/m³)</p> <p>10-11 The 90th percentile was 35.7/m³</p> <p>11-12 The 90th percentile was 27.9/m³</p> <p>12-13 The 90th percentile was 27.2g/m³</p> <p>SS (90% of consented median = 36g/m³)</p> <p>10-11 The median was 47.0g/m³</p> <p>11-12 The median was 81.0/m³</p> <p>12-13 The median was 81.0g/m³</p> <p>(90% of consented 90th %ile = 90g/m³)</p> <p>10-11 The 90th percentile was 93.0/m³</p> <p>11-12 The 90th percentile was 121.0/m³</p> <p>12-13 The 90th percentile was 101g/m³</p>

	Conditions	COMPLY Yes/No	Comments
		Yes	NH ₃ (90% of consented median = 9g/m ³) 10-11 The median was 3.2/m ³ 11-12 The median was 0.03/m ³ 12-13 The median was 0.13g/m ³
11	<p>Should the measured median concentration for total nitrogen (TN), total phosphorous (TP) or <i>E.coli</i> exceed 90% of the consented limits as specified in condition 6 of this consent for 2 of 3 consecutive years, then a “trigger” level will be met. The consent holder shall design, build and commission the appropriate upgrade to the treatment process within two years after the “trigger” level is reached. The upgrade undertaken shall be designed to reduce the median or 90th percentile concentration as applicable, for the parameter for which the trigger was reached to less than 80% of the consented limit for that parameter.</p>	Yes	(90% of consented 90 th %ile = 18g/m ³) 10-11 The 90 th percentile was 7.37/m ³ 11-12 The 90 th percentile was 3.85 /m ³ 12-13 The 90 th percentile was 6.04/m ³ The median suspended solids has been exceeded for more than 2 of the previous 3 years.
		Yes	TN (90% of consented median = 22.5g/m ³) 10-11 The median was NR/m ³ 11-12 The median was 11.95/m ³ 12-13 The median was 11.4/m ³ (NR – Not Recorded)
		Yes	TP (90% of consented median = 7.2g/m ³) 10-11 The median was 4.6g/m ³ 11-12 The median was 3.94/m ³ 12-13 The median was 2.5/m ³
		No	E.coli (90% of consented median = 3150cfu/100ml) 10-11 The median was 3150 11-12 The median was 2900 (90% of consented median = 122cfu/100ml) (New Consent) 12-13 The median was 4150 The trigger level for E.coli has been exceeded in the

	Conditions	COMPLY Yes/No	Comments
	For the purposes of this condition, calculation of ADWF will be taken as the median daily wastewater flow measured at the inlet to the oxidation pond during the month of March for the preceding year.		and Fraser catchments to replace ageing pipework and to carry out pump station improvements in the current financial year.
17	The consent holder shall undertake an investigation into the extent and magnitude of ammoniacal-nitrogen in the wastewater discharge plume in the Waikato River during low flow conditions. Sampling of ammoniacal-nitrogen shall as a minimum, be conducted mid-column at six sites below the discharge outfall on three occasions over the summer period (when flows are low). The frequency of monitoring may be reviewed after a minimum of three years of data has been collected, upon request to and approval by a Programme Manager in the Resource Use Group of Waikato Regional Council.	Yes	This programme commenced during the summer of 2012-13. Results are in Appendix I
18	The consent holder shall define a sampling location or locations and the sampling method or methods to be used for monitoring the parameters in conditions 5, 6 and 17. The location(s) and method(s) used for the sampling shall be to the satisfaction of Waikato Regional Council.	Yes	The sample point for Conditions 5 & 6 is from the weir at the discharge of the UV disinfection unit. GPS locations for Condition 17 sample points are appended to this report.
19	The consent holder shall take grab samples of the treated wastewater on a monthly basis from the sampling location specified in condition 18 of this consent, for the purpose of determining compliance with conditions 5 and 6. <i>E.coli</i> grab samples shall be taken on a weekly basis.	Yes	Samples are taken in accordance with Condition 19. Results of all are included in the attached data spreadsheet.
20	All wastewater quality analyses shall be undertaken by an IANZ accredited or equivalent laboratory. All methods used shall be appropriate for the wastewater analyses undertaken.	Yes	Analysis is carried out by Hill Laboratories and Hamilton City Council Laboratory who are IANZ accredited for the appropriate tests.
21	The consent holder shall prepare an Operations and Management Plan. This Plan shall be prepared by a suitably qualified and experienced person and shall detail how the treatment and disposal system is to be operated and maintained to ensure compliance with the conditions of this consent and consents 119648, 119649, 119650 and 119651. As a minimum the Plan shall include the following: i) A description of the wastewater treatment plant including as-built plans for the wastewater treatment facilities; ii) A description of the sequence, timing and methods of construction of upgrades	Yes	The Operations and Management Plan was forwarded to Waikato Regional Council on 17 August 2012.

	Conditions	COMPLY Yes/No	Comments
	<p>to the treatment plant;</p> <p>iii) A description and schedule of the routine inspection, monitoring and maintenance procedures to be undertaken to ensure effective plant operation;</p> <p>iv) A schedule of monitoring to be carried out to ensure effective plant operation and compliance with consent conditions;</p> <p>v) A sampling location plan;</p> <p>vi) A schedule of the treatment plant critical aspects and the detailed response and contingency plans to address anticipated variations from normal plant operation</p> <p>vii) Procedures for recording routine maintenance and all repairs that are undertaken;</p> <p>viii) Chain of command, responsibility and notification protocols;</p> <p>ix) The current infiltration management plan; and</p> <p>x) Procedures for improving and/or reviewing the plant management plan.</p> <p>This Plan shall be lodged with Waikato Regional Council within six months of commencement of this consent and shall be reviewed and updated annually and as required as a result of any changes in plant operation or management. An electronic copy of the Management Plan shall be provided to Waikato Regional Council within 10 working days of a request to do so.</p> <p>Advice note: The Waikato Regional Council reserves the right to make comment on the Operations and Management Plan submitted and any subsequent changes to the Plan.</p>		
22	<p>The treatment system and discharge to the Waikato River shall be operated, maintained and managed by appropriately experienced personnel in accordance with the Operations and Management Plan pursuant to condition 21 of this consent.</p>	Yes	<p>The Operations and Maintenance Plan (Section 4) refers to the management structure.</p> <p>Experience in wastewater operations of key personnel includes:</p> <p>Lou Larson – Water and Wastewater Manager (19 yrs)</p> <p>Peter Seward – Treatment Plants Engineer (25yrs)</p> <p>Parvati Patel – Planning Engineer (10yrs)</p> <p>Chris Harris – Supervising Operator (3yrs)</p> <p>Nigel O'Connor – Operator (9yrs)</p> <p>Caleb Powell – Operator (4yrs)</p> <p>Hamish Edwards – Operator (1yrs)</p>

	Conditions	COMPLY Yes/No	Comments
			Shayd Hotene – Cadet Operator (1yrs)
23	The consent holder shall ensure contractors are made aware of the conditions of this resource consent and ensure compliance with those conditions.	Yes	All contractors employed at the treatment site are inducted in both health and safety procedures and relevant conditions of this consent.
24	In conjunction with consent I 19648 the consent holder shall maintain and keep a Complaints Register for all complaints made about the treatment and discharge operations received by the consent holder. The Register shall record: <ul style="list-style-type: none"> i) The date, time and duration of the event/incident that has resulted in the complaint; ii) The location of the complainant when the event/incident was detected; iii) The possible cause of the incident; iv) The weather conditions and wind direction at the site when the incident allegedly occurred, if significant to the complaint; v) Any corrective action undertaken by the consent holder in response to the complaint. 	Yes	Council's CRM database records all complaints from the public. There were no complaints from the public during the consent year regarding the Huntly WWTP.
25	The consent holder shall place and maintain a sign in the vicinity of the discharge to the Waikato River, in such a way that it is conspicuous to river users, advertising of the presence of the wastewater discharge and warning against the use of the location for swimming.	Yes	A sign is located in the vicinity of the discharge that alerts and warns people of the presence of the wastewater discharge.
26	The consent holder shall be responsible for any erosion that occurs as a result of the exercise of this consent and for any erosion works that become necessary to preserve the integrity and stability of the banks of the Waikato River. Note: A separate resource consent may be required as a result of the need to undertake erosion control works. Any such consent shall be obtained by the consent holder at their sole expense prior to any works being undertaken.	Yes	There are no current issues regarding erosion at the Huntly discharge site.
27	The discharge to the Waikato River shall be via a multi-port diffuser located on the bed of the Waikato River.	Yes	The Huntly discharge is via a multi-port diffuser.
28	Ports 2, 4, 6 and 8 of the diffuser, as numbered from the true right bank of the	Yes	Ports 2, 4, 6 and 8 are blocked off.

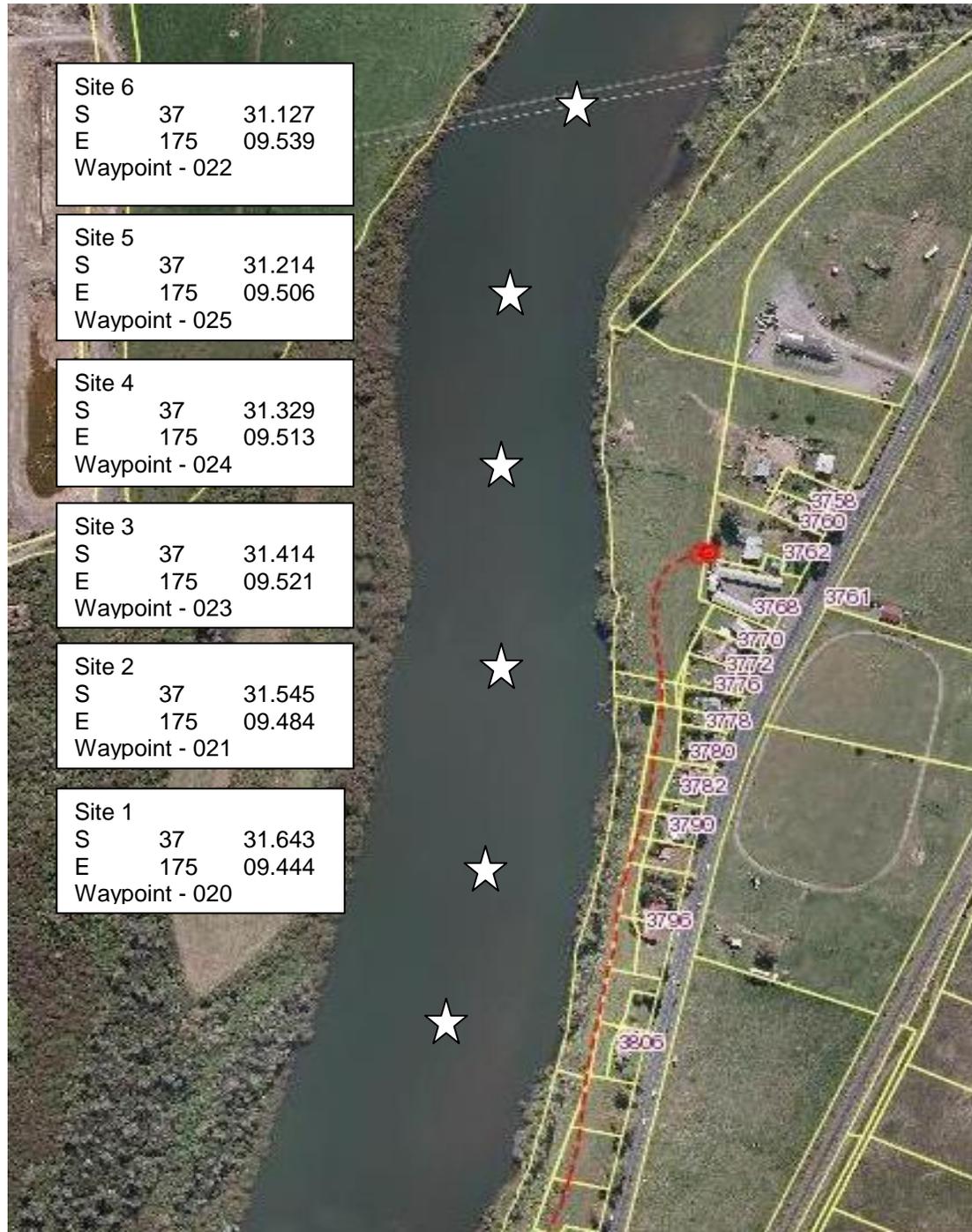
	Conditions	COMPLY Yes/No	Comments
	Waikato River shall remain closed unless specifically permitted in writing by the Waikato Regional Council.		
29	The consent holder shall maintain the outfall diffuser in an operational state such that the discharge from ports 1, 3, 5, 7 and 9 is uniform along the operational length of the diffuser and providing effective dispersion of the wastewater in the river flow.	Yes	See dive report attached as Appendix 2.
30	The consent holder shall undertake a survey of the diffuser at six monthly intervals to demonstrate compliance with conditions 28 and 29 of this consent. The frequency of the surveys may be reduced to no less than every two years following written request to and approval from the Waikato Regional Council. The results of each survey and any recommendation as to the frequency of future surveys shall be provided to the Waikato Regional Council within 30 days of the survey.	Yes	See dive report attached as Appendix 2.
31	The consent holder shall forward the results of the monitoring undertaken pursuant to conditions 14, 15, 17 and 19 to the Waikato Regional Council via electronic means, within one month of receipt of the results by the consent holder.	No	Previously this information has been provided three monthly. From July 2013 the reports will be provided monthly.
32	<p>The consent holder shall provide to the Waikato Regional Council, Waikato-Tainui Te Kauhanganui Inc (Claims and Environmental unit) and the Hopuhopu Manawhenua Roopu, a written report by 30 September each year addressing the following:</p> <ul style="list-style-type: none"> i) A summary of the monitoring results required by conditions of this resource consent for the year ending 30 June; ii) Comment on compliance with the conditions of this resource consent; iii) Any reasons for non-compliance or difficulties in achieving compliance with the conditions of this resource consent and a description and summary of the efficacy of any remedial works undertaken; iv) Comment on infiltration rates and any remedial works planned and the efficacy of these works in subsequent reports; v) Any other issue considered relevant to the consent holder. 	Yes	<ul style="list-style-type: none"> i) The monitoring results are included in the attached spreadsheet. Trend graphs of the monitoring results for the reporting year and the previous four years are included in the attached spreadsheet (Trends page). Analysis and comments are included in the covering letter. ii) Comments included in attached Summary Report. iii) See ii) above. iv) See ii) above. v) See ii) above.
33	The consent holder shall notify the Waikato Regional Council within 24 hrs (where practicable) of the consent holder becoming aware of the limits specified in conditions 4, 5 and 6 of this resource consent being exceeded, or any accidental discharge, plant breakdown or other circumstance which is likely to result in the	Yes Yes	There have been no breaches of Condition 4. There have been no breaches of Condition 5 for cBOD ₅ , Ammoniacal Nitrogen, Total Nitrogen or Total

	Conditions	COMPLY Yes/No	Comments
	limits of this consent being exceeded. The consent holder shall, within 10 working days of the incident occurring, provide a written report to the Waikato Regional Council, identifying the breach, possible causes and steps to ensure future compliance.	No No	Phosphorous. Suspended Solids median and 90 th percentile have been breached each month from January to July 2013. <i>E.coli</i> median values have not met consent limits. UV disinfection has been installed and due to be commissioned.
34	The consent holder shall as soon as reasonably practicable, notify the Waikato District Council (Service Delivery – Water and Waste Unit), Watercare Services Ltd and the Waikato Regional Council of an event that may in itself, or as a consequence of an event, have a significant adverse effect on the quality of the water within the Waikato River at the abstraction points of the Te Kauwhata and Tuakau (Auckland) Water Supplies.	Yes	There were no instances of events that had a significant adverse effect on the water quality of the Waikato River.
	The consent holder shall record the reasons why the situation occurred, the actions taken by the consent holder and an assessment of what measures can be adopted in the future to minimise such occurrences and upon written request from the Waikato Regional Council, provide a report to said Council and the Medical Officer of Health addressing this matter.	Yes	There were no instances of events that had a significant adverse effect on the water quality of the Waikato River.
35	<p>The consent holder shall monitor the actual performance of the Huntly WWTP in respect to the median summertime mass-load of nutrients and of the Huntly WWTP in respect of all other parameters for the period 1 December 2012 to 31 May 2015 (three summer seasons).</p> <p>i) Immediately following 31 May 2015 the consent holder shall review the performance and review the options for upgrading the treatment processes, all in consultation with Waahi Whaanui Trust and Waikato-Tainui Kauhanganui Inc. The preferred upgrade option shall be determined and reported to Waikato Regional Council not later than 31 October 2015.</p> <p>ii) The preferred upgrade option shall be constructed and commissioned not later than 30 November 2016.</p> <p>iii) The 2015 review shall include consideration of the future of both the surface-flow and the subsurface-flow wetland cells, based on the monitored performance and the decision in relation to the preferred upgrade option, all in consultation with Waahi Whaanui Trust and Waikato-Tainui Kauhanganui Inc.</p>	N/A	All parameters are being monitored and data collected for the report due in 2015.

	Conditions	COMPLY Yes/No	Comments
	<p>Te Kauhanganui Inc (Claims and Environmental unit) and the Hopuhopu Manawhenua Roopu not later than 31 March 2022.</p> <p>Note: Commissioning of any treatment upgrade is subject to condition 13.</p>		
37	<p>The consent holder shall, by 30 September 2015 and every five years thereafter, submit to Waikato Regional Council a wastewater treatment system review report, the scope of which shall include:</p> <ul style="list-style-type: none"> i) An analysis of the performance of the treatment system with respect to the initial plant design. ii) Identification of any deficiencies in the plant design or operation and the measures that are or have been undertaken to address these deficiencies and the anticipated (or actual) improvements in treated wastewater quality. iii) Timetable for the treatment plant capital upgrade to cater for actual population growth. iv) A review of the trend in the combined contribution made by the Ngaruawahia and Huntly wastewater discharges to the Total Nitrogen and Total Phosphorous load in the Waikato River at Mercer Bridge since granting this consent. 	N/A	Condition 37 refers to reporting that is to be carried out after 30 September 2015.
38	<p>The Waikato Regional Council may, in the six month period following 30 Sept 2015 and every five years thereafter, serve notice on the consent holder under section 128(1) of the Resource Management Amendment Act (1991), of its intention to review the conditions of this resource consent for the following purposes:</p> <ul style="list-style-type: none"> i) 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 consent and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions; or ii) To review the adequacy of and the necessity for monitoring undertaken by the consent holder and specifically to review the frequency of record keeping and the method of record collection for the purposes of determining the most appropriate method and frequency; or 	N/A	Condition 38 refers to reviews that may be carried out after 30 September 2015.

	Conditions	COMPLY Yes/No	Comments
	<p>iii) If necessary and appropriate, to require the holder of this resource consent to adopt the best practicable option to remove or reduce adverse effects on the surrounding environment; or</p> <p>iv) To review the conditions of this resource consent to ensure the exercise of this resource consent is not inconsistent with the Vision and Strategy of the Waikato-Tainui Raupatu Claims Waikato River Settlement Act 2010 (Schedule 2 – Vision and strategy for Waikato River) and if necessary to address any such inconsistencies by way of further or amended conditions.</p> <p>Note: Costs associated with any review of the conditions of this resource consent will be recovered from the consent holder in accordance with the provisions of section 36 of the Resource Management Act 1991.</p>		

Conditions	COMPLY Yes/No	Comments
------------	------------------	----------



Site 6
S 37 31.127
E 175 09.539
Waypoint - 022

Site 5
S 37 31.214
E 175 09.506
Waypoint - 025

Site 4
S 37 31.329
E 175 09.513
Waypoint - 024

Site 3
S 37 31.414
E 175 09.521
Waypoint - 023

Site 2
S 37 31.545
E 175 09.484
Waypoint - 021

Site 1
S 37 31.643
E 175 09.444
Waypoint - 020

Appendix 1

GPS Locations of Downstream Sample Sites – Huntly

RESULTS

Sampled 16 Jan 2013 for Ammoniacal-N

- Sample 1 <0.01g/m³
- Sample 2 <0.01g/m³
- Sample 3 <0.01g/m³
- Sample 4 <0.01g/m³
- Sample 5 <0.01g/m³
- Sample 6 <0.01g/m³

Sampled 21 Feb 2013 for Ammoniacal-N

- Sample 1 <0.01g/m³
- Sample 2 <0.01g/m³
- Sample 3 <0.01g/m³
- Sample 4 <0.01g/m³
- Sample 5 <0.01g/m³
- Sample 6 <0.01g/m³

Sampled 27 Mar 2013 for Ammoniacal-N

- Sample 1 <0.01g/m³
- Sample 2 <0.01g/m³
- Sample 3 <0.01g/m³
- Sample 4 <0.01g/m³
- Sample 5 <0.01g/m³
- Sample 6 <0.01g/m³