

6/12/2022: Rāhui Pōkeka WWTP Korero :

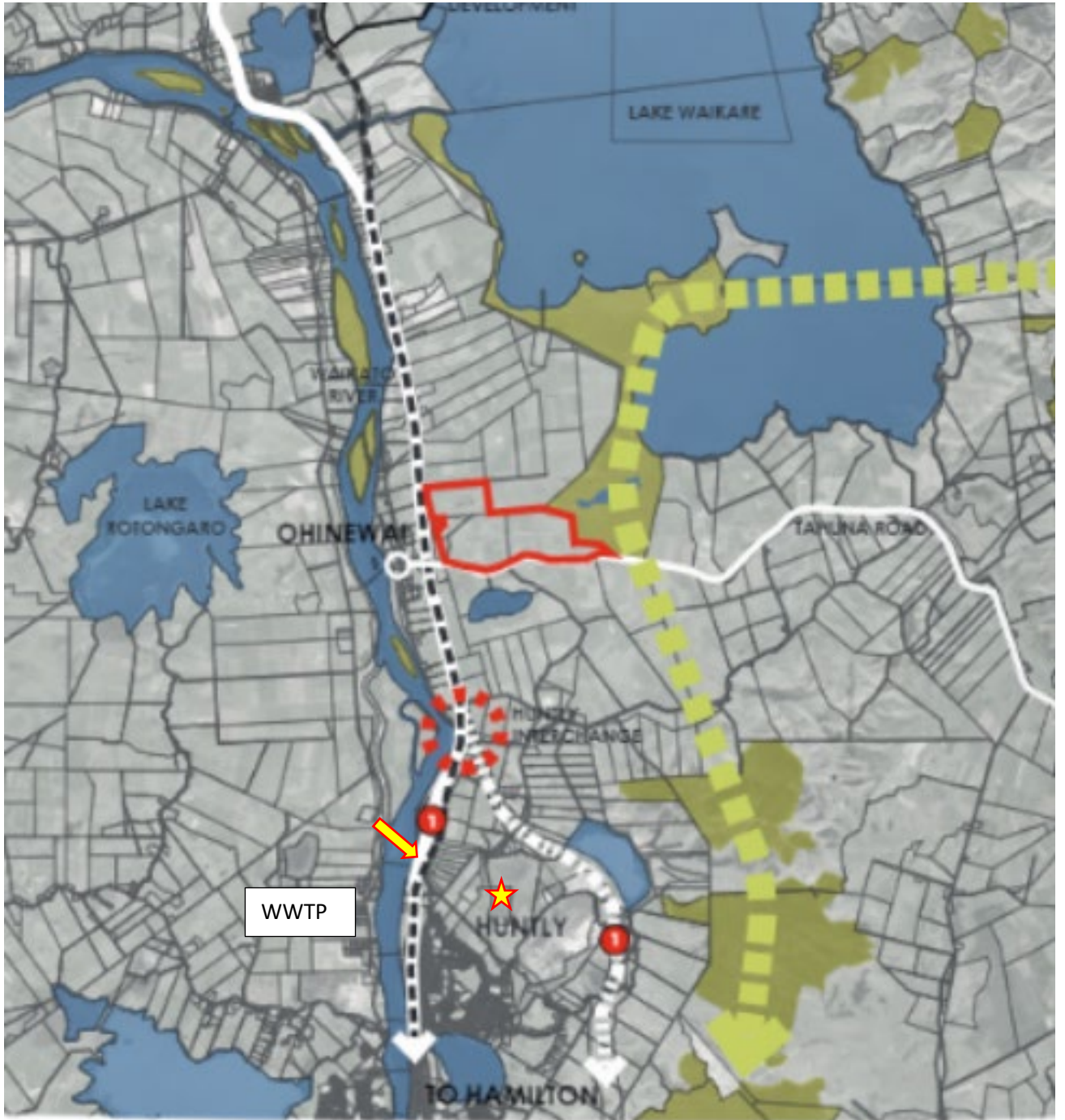


Image 1: Huntly and Ohinewai



Image 2: Aerial

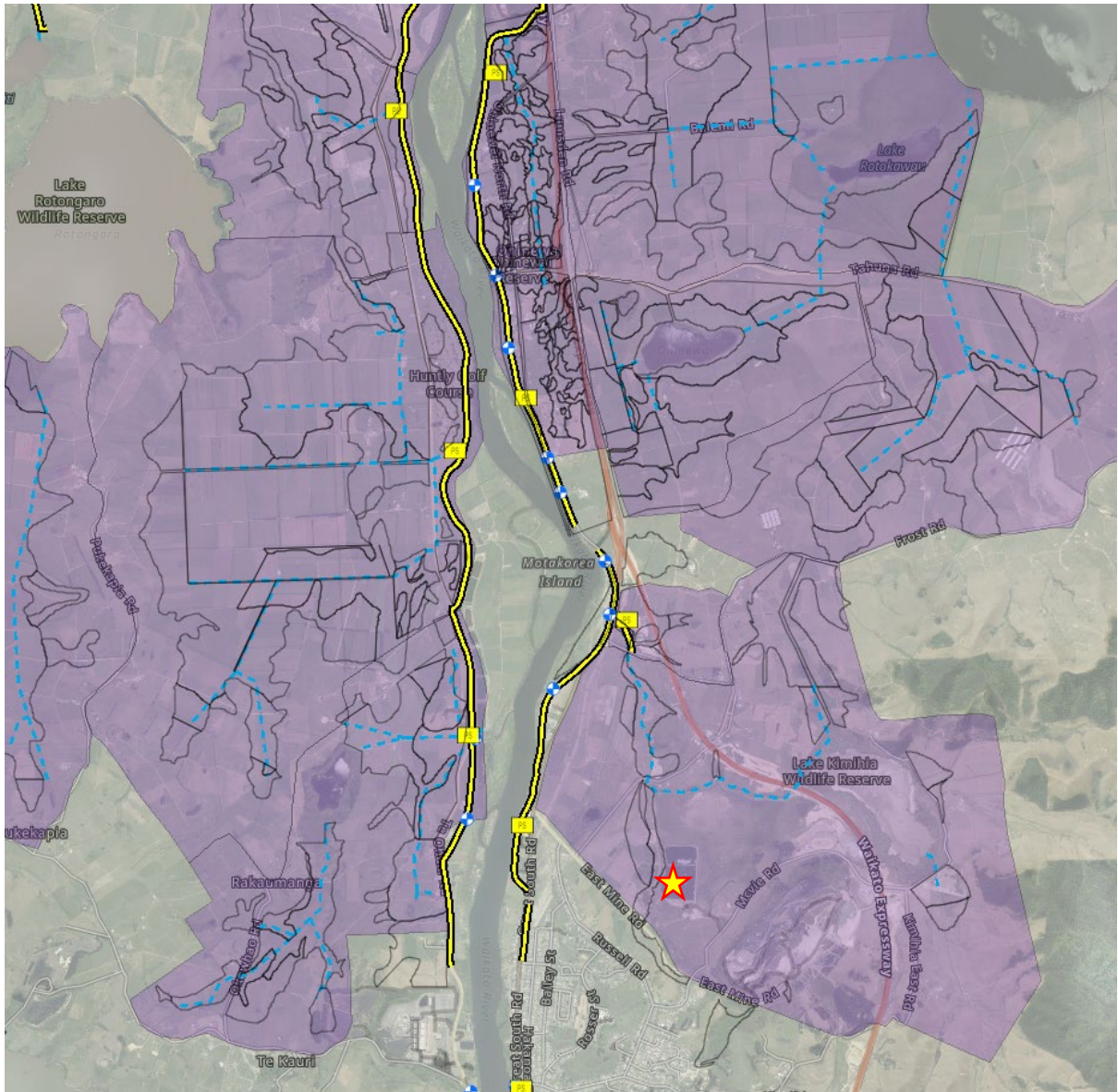


Image 3: Flood Scheme (yellow = stopbanks)

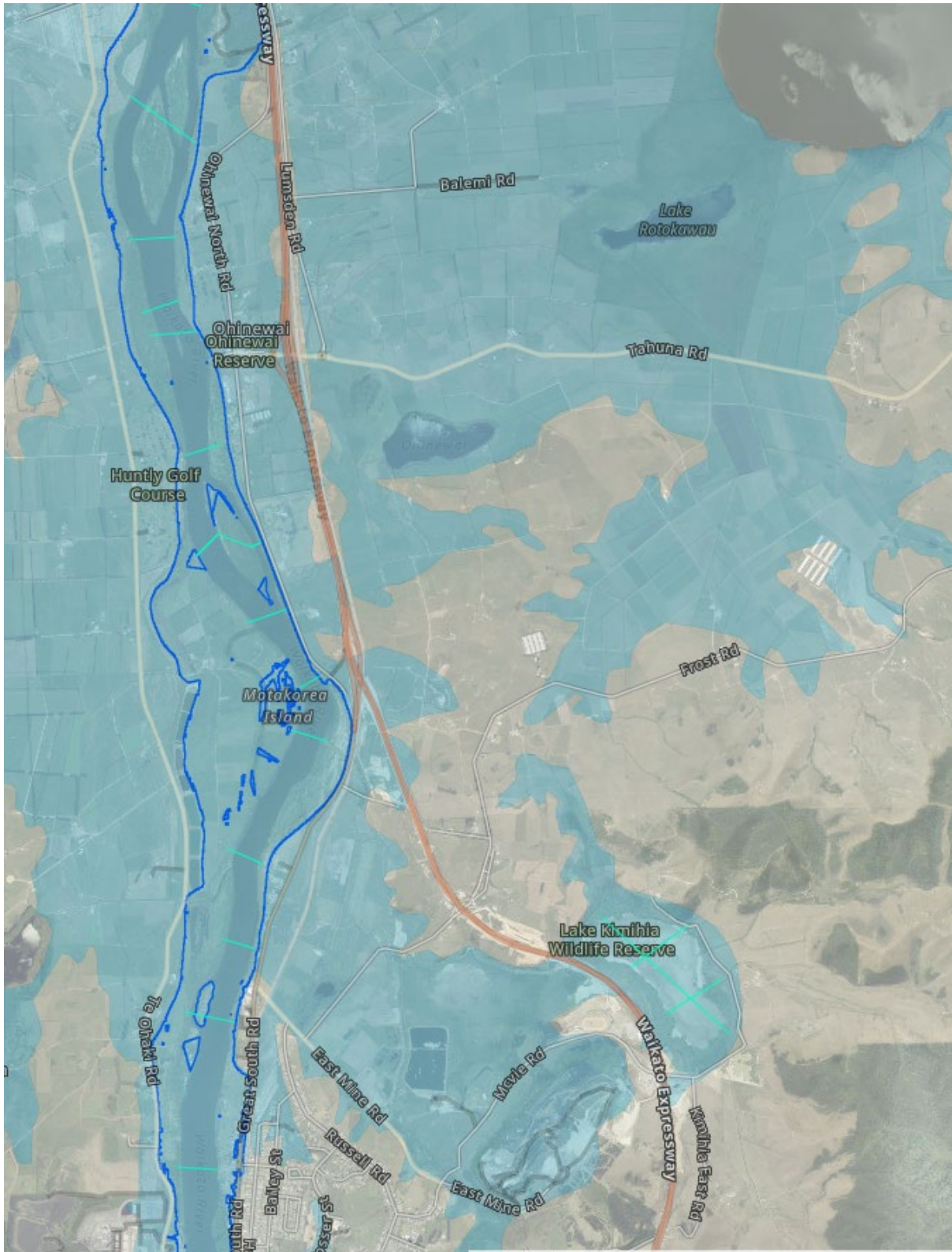


Image 4: River Flooding (dark blue – 1% AEP (1 in 100yr) light blue (Regional scale flood hazard)

<https://waikatoregion.maps.arcgis.com/apps/MapSeries/index.html?appid=f2b48398f93146e8a5cf0aa3fddce92c>

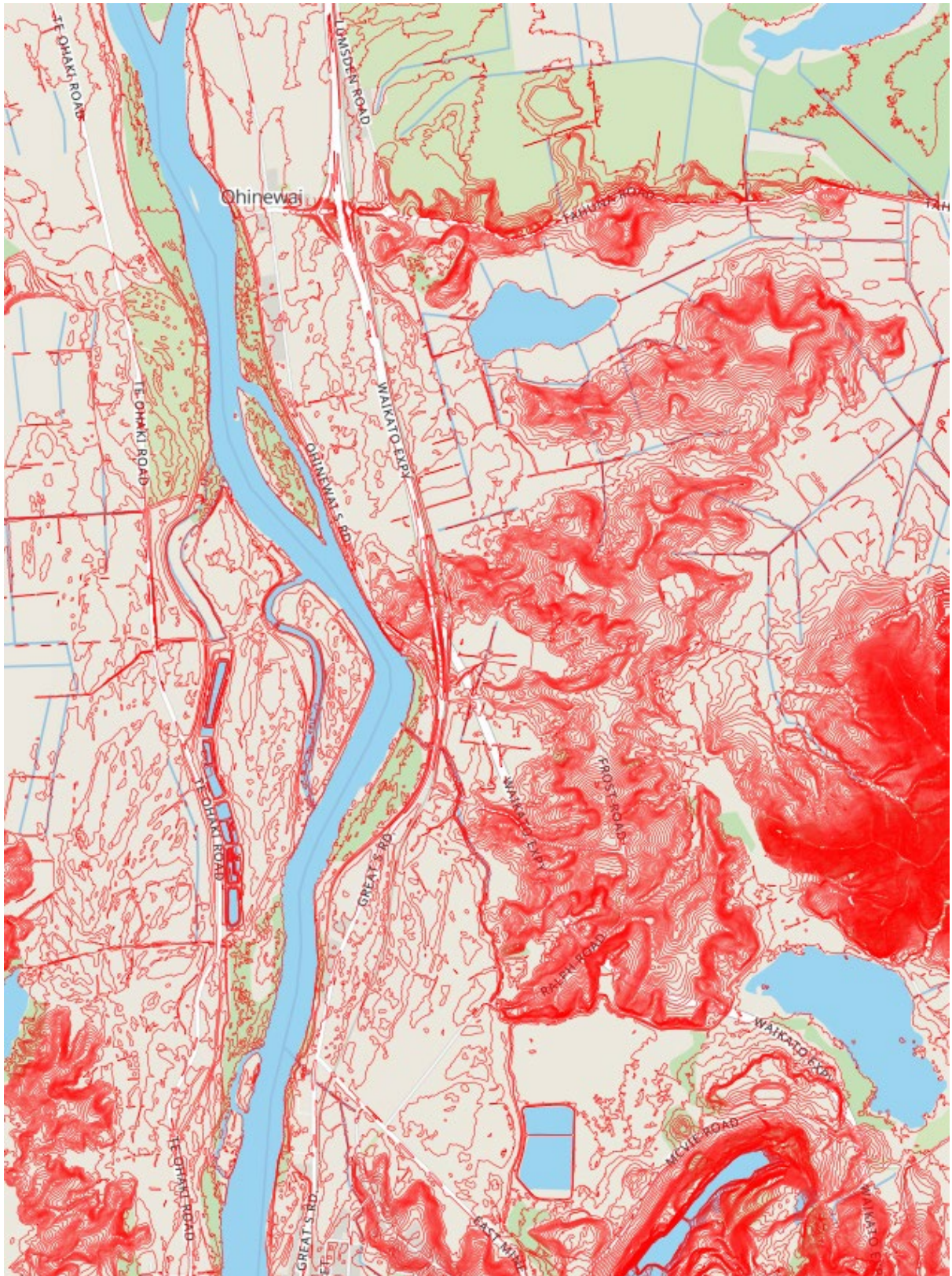


Image 5: Topographical – 1m

Resource Consent Certificate

Resource Consent: 119647

File Number: 60 28 01A

Pursuant to the Resource Management Act 1991, the Waikato Regional Council hereby grants consent to:

Waikato District Council
Private Bag 544
Ngaruawahia 3742

(hereinafter referred to as the Consent Holder)

Consent Type: Discharge permit

Consent Subtype: Discharge to water

Activity authorised: Discharge up to 11,500 cubic metres per day of treated wastewater from the Huntly WWTP into the Waikato River

Location: East Mine Road - Huntly (Huntly WWTP)

Map Reference: NZMS 260 S13:010-059

Consent Duration: This consent will commence on the date of decision notification, unless otherwise stated in the consent's conditions, and expire on 31-March 2029
expired 31 Mar 2029

Subject to the conditions overleaf:

Discharge quantity

4. The maximum volume of treated wastewater discharged shall not exceed 11,500 cubic metres per day.

Discharge quality

5. 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:
- i) The pH of the discharge shall not be less than 6 or greater than 9 pH units;
 - 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;
 - 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;
 - iv) The median ammoniacal-nitrogen concentration shall not exceed 18 grams per cubic metre and the 90th percentile shall not exceed 30 grams per cubic metre;
 - v) The median total nitrogen concentration shall not exceed 40 grams per cubic metre;
 - vi) The median total phosphorus concentration shall not exceed 8 grams per cubic metre;
 - vii) The median *Escherichia coli* (*E.coli*) concentration shall not exceed 3,500 MPN per 100 millilitres.

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.

6. The consent holder shall ensure that, no later than 1 December 2012, the quality of the discharge immediately after all controlled treatment processes and before any wetlands shall comply with the following limits:

- i) The pH of the discharge shall not be less than 6 or greater than 9 pH units;
- 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 60 grams per cubic metre;
- iii) The median suspended solids concentration shall not exceed 30 grams per cubic metre and the 90th percentile shall not exceed 100 grams per cubic metre;
- iv) The median ammoniacal-nitrogen concentration shall not exceed 10 grams per cubic metre and the 90th percentile shall not exceed 20 grams per cubic metre;
- v) The median total nitrogen (TN) concentration shall not exceed 25 grams per cubic metre;
- vi) The median summer (December to May inclusive) total nitrogen (TN_{summer}) concentration shall not exceed 20 grams per cubic metre;
- vii) The median summer (December to May inclusive) total nitrogen load (TN_{load}) for Ngaruawahia Wastewater Treatment Plant and Huntly Wastewater Treatment Plant combined shall not exceed 57 kilograms per day;
- viii) The median total phosphorus (TP) concentration shall not exceed 8 grams per cubic metre;
- ix) The median summer (December to May inclusive) total phosphorus (TP_{summer}) concentration shall not exceed 8 grams per cubic metre;
- x) The median summer (December to May inclusive) total phosphorus load (TP_{load}) for Ngaruawahia Wastewater Treatment Plant and Huntly Wastewater Treatment Plant combined shall not exceed 17.3 kilograms per day;
- xi) The median *Escherichia coli* (*E-coli*) concentration in any 12 month period shall not exceed 126 cfu per 100 millilitres.

For the purposes of this condition, to determine compliance with the median limits (excluding *E.coli*) 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 summer median limits, no more than 3 of the 6 monthly samples in any given summer (December to May) shall exceed the specified limit. To determine compliance with the median *E.coli* limit, no more than 26 samples in any 52 consecutive weekly samples 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.

Note: The discharge of treated wastewater to the Waikato River from the Ngaruawahia Wastewater Treatment Plant is authorised by consent 119642.

Images 6,7,8: Discharge Consent

CONSENT SUMMARY REPORT

Data Summary		Jun-2022	RC119647 - Huntly							
Inflow Summary Reporting		m³								
Average Daily Inflow		2,173								
Max Daily Inflow		9,711								
Average Monthly Total		66,055								
Max Monthly Total		107,861								
Annual Inflow Total		792,658								
PWWF/ADWF Ratio		5.5								
Outflow Summary Reporting		Daily Limit - 11500 m³								
Average Daily Flow		2,199								
Max Daily Flow		5,895								
90th Percentile Daily Flow		4,984								
Average Monthly Total		66,936								
Max Monthly Total		124,712								
Annual Outflow Total		803,235								
Discharge Monthly Tests			Consent Limits		Trigger Limit		Measured		Compliance	
Parameters	Unit	Median	90%ile	Median	90%ile	Median	90%ile	Median	90%ile	
pH		9.0		8.5		7.7		0 / 11		Compliant
CBOD5	g/m3	30.0	60.0			5.2	11.0	1 / 11	0 / 11	Compliant
Ammonical Nitrogen	g/m3	10.0	20.0			2.5	22.7	5 / 11	2 / 11	X
Total Nitrogen	g/m3	25.0				18.0		1 / 11		Compliant
Total Nitrogen (Summer Limit Dec-May)	g/m3	20.0				-		1 / 5		
Total Phosphorus	g/m3	8.0				2.3		0 / 11		Compliant
Total Phosphorous (Summer Limit Dec-May)	g/m3	8.0				-		0 / 5		
Total Suspended Solids	g/m3	30.0	100.0			24.0	56.0	4 / 11	1 / 11	Compliant
E.Coli	CFU/100ml	126.0				1.2		1 / 52		Compliant
Combined Discharge		Unit	Consent Limit	Trigger Limit		Measured		Compliance		
Summer TN (Huntly & Ngaruawahia)	kg/day	57				55.20		2 / 5		Compliant
Summer TP (Huntly & Ngaruawahia)	kg/day	17.3				4.08		0 / 5		Compliant

Image 9: Huntly Annual Report (WRC 1/7/2021 – 30/6/2022)

	A	B	C	D	Ma
1		Raglan		Huntly	
2		Faecal Coliform	Enterococci	E. coli	
3	Jul-22		6.6	340.0	
4		18.0		1.6	
5			6.6		
6					
7					
8					
9	Aug-22	8100.0		0.8	
10				0.8	
11				0.8	
12				0.8	
13					
14					
15	Sep-22	13.0		4.9	
16				3.3	
17				3.3	
18				20.0	
19					
20					
21	Oct-22	0.8		0.8	
22				1.6	
23				42.0	
24				13.0	
25					

<p>Huntly</p>	<p>Partial by-pass of final UV treatment</p>	<p>As reported to WRC, the region experienced extreme weather impacting wastewater plant inflows and pond levels. To prevent pond overtopping at Huntly a temporary pump was installed in June to send pond water directly to the wetland. This portion of flow bypassed the UV. Additional lab monitoring was undertaken to assess this. Extreme weather resulted in the Kimihia Stream overwhelming the wetland in July. Normal operations resumed 04/08/2022. Lab results are still being received and analysed. Report to be sent in August. The results in the attached compliance update need to be evaluated with the event sampling results in the pending report. After 08/08/22 normal twice-monthly sampling resumed from the post UV outlet.</p>
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