

Porirua Wastewater Treatment Plant

Quarterly Resource Consents Report

July - September 2025

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Control Sheet

Document Title:	Porirua Wastewater Treatment Plant Quarterly Report July - September 2025
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Document Control Register

Version	Status	Date	Details of Revision
0.1	Draft	21/10/2025	Original draft for review
0.2	Review	24/10/2025	Review
0.3	Edits	28/10/2025	Post review edits
1.0	Final	29/10/2025	Final and Publish

Executive Summary

The following report was prepared by Veolia on behalf of the Porirua City Council (PCC) for the Greater Wellington Regional Council (GWRC). This report includes results and observations that satisfy the reporting requirements of Porirua Wastewater Treatment Plant resource consents.

Coastal Discharge Permit - WGN200229 [36816]

The Porirua WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN200229. In general, the consent allows the discharge of treated effluent from the Porirua City Council's Wastewater Treatment Plant at Rukutane Point through an existing outfall at or about map reference NZMS 260:R27;320.097. The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable
Volumes of Inflows to and Effluent from Plant - Condition (4)	Compliant
5J (c) Ecological Survey - Condition (5J(c))	Not applicable
Wastewater Sampling Point - Condition (6)	Compliant
Wastewater Analysis - Condition (7)	Compliant
Analysis for UV transmissivity, faecal coliforms and enterococci - Condition (8)	Compliant
Analysis for Total Ammonia Nitrogen - Condition (9A)	Compliant
Bacterophage Analysis - Condition (10)	Compliant
Sampling shall be performed by an International Accreditation New Zealand (IANZ) registered laboratory - Condition (11)	Compliant
Wastewater Quality - Condition (12)	Compliant
Analysis for metals and other - Condition (9)	Compliant
Concentrations of metals and other compounds - Condition (12A)	Compliant
UV Transmissivity monitoring probe - Condition (12C)	Compliant
Hourly average UV transmissivity - Condition (12D)	Compliant
Monthly Environmental Monitoring - Condition (14)	Compliant
Monthly Environmental Monitoring Analysis - Condition (15)	Compliant
Incident Notifications - Conditions (16 and 22A)	Compliant
Ecological survey - Condition (28)	Not applicable
Ecological survey - Condition (29)	Not applicable
UV disinfection performance - Condition (35A)	Compliant

Table 1: WGN200229 [36816] Resource Consent Condition Compliance

Air Discharge Permit - WGN200229 [36727]

The Porirua WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN200229 [36727]. In general, the consent allows the discharge of contaminants (odour) from the Porirua City Council's Wastewater Treatment Plant to the air at or about map reference NZMS 260: R27;632.096. The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable
Record of Complaints - Condition (5)	Compliant
Incident Notifications - Condition (6)	Compliant

Table 2: WGN200229 [36727] Resource Consent Condition Compliance

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Coastal Discharge Permit WGN200229 [36816]

Volumes of Inflows to and Effluent from Plant - Condition (4)

4. The consent holder shall continuously monitor and record the daily volume of the inflow to and effluent from the wastewater treatment plant. The records shall be supplied to the Manager in accordance with conditions 18 and 19, and on request of the Manager.

Condition met - below are the daily volumes of the inflow to and effluent from the Porirua WWTP:

Day	July 2025		August 2025		September 2025	
	Daily Volume		Daily Volume		Daily Volume	
	Inflow	Effluent	Inflow	Effluent	Inflow	Effluent
	m ³		m ³		m ³	
1	24,358	26,273	25,581	26,224	28,732	26,798
2	23,735	26,065	25,767	26,299	25,477	26,104
3	85,016	34,395	25,848	26,200	23,967	25,695
4	96,505	36,312	23,613	25,928	26,155	26,031
5	51,965	30,712	23,394	25,784	40,654	28,283
6	36,699	28,360	23,269	25,900	30,689	27,000
7	29,528	27,684	22,850	25,777	28,848	26,530
8	27,351	27,308	42,865	28,604	24,909	25,802
9	25,611	26,923	56,213	30,009	24,914	25,719
10	25,230	26,656	60,809	30,469	25,434	21,769
11	65,694	31,579	44,570	29,102	23,814	23,477
12	52,718	29,929	39,869	28,233	22,051	22,623
13	50,564	29,785	30,989	27,349	23,543	20,421
14	36,558	28,346	27,928	26,834	24,636	20,746
15	33,076	28,032	25,472	26,454	22,702	23,150
16	28,910	27,382	25,965	26,279	22,306	23,878
17	26,758	27,097	26,858	26,147	21,179	23,988
18	24,062	26,807	27,776	25,974	21,866	24,304
19	31,936	27,605	38,312	28,040	20,595	24,087
20	31,383	27,368	35,668	27,741	22,358	24,520
21	25,697	26,754	27,831	26,442	31,439	26,024
22	25,199	26,593	25,341	25,995	76,347	32,532
23	24,143	26,406	26,042	26,056	73,107	32,594
24	23,333	24,119	26,823	26,050	36,518	27,864
25	21,658	25,996	24,374	25,627	29,475	26,885
26	22,604	25,914	23,813	25,247	25,933	25,183
27	25,566	26,285	23,781	25,309	25,143	24,532
28	23,261	26,155	24,058	24,253	25,474	25,232
29	34,467	27,784	22,071	21,315	24,394	24,873
30	36,041	27,842	26,699	22,428	23,349	24,728
31	31,639	27,090	53,460	29,935		

Table 3. Daily Influent and Effluent volumes

Ecological Survey - Condition (5J(c))

5J (c) . If the alternate WWTPWG is established in accordance with condition 5I then the consent holder shall prepare, implement and review a Monitoring Plan in accordance with conditions 5E and 5F, except that the requirement in condition 5F(b) shall be replaced with the following:

i. The consent holder shall engage a suitable qualified coastal ecologist to conduct a visual survey of the quantity and size of range of paua, kina and lobster along the six transects used in the Cawthron (2019) ecological survey. The survey shall be undertaken once before the third anniversary of the commencement of the consent and also be included within the scope of any ecological survey undertaken in accordance with condition 28.

Not applicable - noting that the consent became effective on 14 July 2023, the survey required under this condition is initially due before 14 July 2026¹ and then (under condition 28) between 15 July 2031 and 14 July 2032 and between 15 July 2037 and 14 July 2038. The ecological survey was not required during this reporting period.

Wastewater Sampling Point - Condition (6)

6. The consent holder shall, to the satisfaction of the Manager, identify a suitable place to sample the wastewater after it leaves the treatment plant but prior to it entering the Rakutane Point outfall. That sampling point shall be used for the sampling required by conditions 7 and 10.

Condition met - Sampling point as required by condition 6 has been established.

Wastewater Analysis - Condition (7)

7. The consent holder shall each day, including weekends and public holidays, obtain a representative 24-hour flow-proportioned composite sample of the wastewater from the location identified in accordance with condition 6. This sample shall be analysed for total suspended solids and biochemical oxygen demand.

Condition met - the results of the analysis required by Condition 7 are reported and assessed under Condition 12.

Analysis for UV transmissivity, faecal coliforms and enterococci - Condition (8)

8. The consent holder shall each day, including weekends and public holidays, between the hours of 9am and 5pm, obtain a representative grab sample of the wastewater from the location identified in accordance with condition 6. Prior to certification of the enterococci trigger under condition 21B this sample shall be analysed for UV transmissivity, faecal coliforms and enterococci. Following certification of the enterococci trigger under condition 21B the sample shall be analysed for enterococci and UV transmissivity.

¹ This condition is due in the current year.

Condition met - the following is a summary of the sampling and testing required under Condition 8.

Day	July 2025			August 2025			September 2025		
	Faecal Coliforms	Enterococci	UVT	Faecal Coliforms	Enterococci	UVT	Faecal Coliforms	Enterococci	UVT
	cfu/100mL	cfu/100mL	%	cfu/100mL	cfu/100mL	%	cfu/100mL	cfu/100mL	%
1	28	10.0	66.4	10	10.0	63.7	10	10.0	60.6
2	10	10.0	67.1	63	10.0	63.6	10	10.0	64.1
3	14	10.0	66.9	65	10.0	63.0	58	10.0	63.7
4	10	10.0	56.7	55	10.0	61.0	22	10.0	62.5
5	10	10.0	58.4	47	20.0	60.5	37	10.0	64.4
6	10	10.0	64.2	55	10.0	62.3	14	10.0	61.2
7	14	10.0	64.4	10	10.0	60.8	10	10.0	63.1
8	10	10.0	65.4	10	10.0	63.1	33	10.0	62.4
9	10	10.0	65.5	22	10.0	64.9	35	10.0	61.8
10	45	10.0	66.6	14	10.0	64.8	87	10.0	64.1
11	10	10.0	66.2	28	30.0	64.8	20	20.0	62.2
12	10	10.0	63.0	14	10.0	66.6	10	10.0	64.8
13	10	10.0	64.8	22	10.0	66.5	33	10.0	64.0
14	20	10.0	65.3	22	10.0	65.1	28	10.0	62.7
15	10	10.0	65.7	33	10.0	62.7	22	30.0	63.0
16	10	10.0	64.8	10	10.0	63.5	167	70.0	63.3
17	10	10.0	65.7	10	10.0	60.8	14	20.0	62.1
18	10	10.0	64.3	105	10.0	59.2	24	20.0	61.5
19	44	10.0	64.9	85	20.0	59.3	26	10.0	61.4
20	33	10.0	61.8	39	10.0	64.0	22	10.0	65.5
21	17	10.0	65.3	37	10.0	65.3	17	10.0	64.2
22	14	10.0	64.9	10	10.0	64.3	10	10.0	65.3
23	33	10.0	63.0	45	20.0	65.0	14	70.0	63.0
24	10	10.0	61.5	33	10.0	63.8	14	50.0	62.3
25	69	10.0	61.8	14	10.0	62.0	14	80.0	64.7
26	10	10.0	62.7	26	10.0	61.6	14	10.0	65.3
27	10	10.0	62.0	10	20.0	61.7	10	20.0	61.0
28	173	20.0	60.7	10	40.0	61.3	10	10.0	63.1
29	67	10.0	61.2	17	10.0	61.9	45	30.0	63.1
30	141	10.0	62.0	14	30.0	62.5	24	60.0	62.6
31	420	40.0	63.0	26	10.0	61.9			
Limits	2000	-	-	2000	-	-	2000	-	-

Table 4. Daily Faecal coliform, Enterococci and UVT results

Note that the Faecal Coliform results are the geomean of daily grab samples taken from the post UV treatment effluent and common pit.

Analysis for Total Ammonia Nitrogen - Condition (9A)

9A. The consent holder shall on at least one occasion each week, on a normal working day, obtain a representative 24-hour flow-proportioned composite sample of the wastewater from the location identified in accordance with condition 6. This sample shall be analysed for Total Ammonia Nitrogen.

Condition met - the following are the results of the sampling.

Date (dd/mm)	Result (mg/l)
02/07	4.28
09/07	6.27
16/07	7.86
23/07	5.06
29/07	5.60
30/07	4.73
06/08	5.56
13/08	3.01
21/08	3.85
26/08	3.10
28/08	5.30
03/09	3.93
10/09	3.35
17/09	2.90
23/09	1.19
Limit	6g/m³
<i>(Note that the limit is set in condition 33b)</i>	

Table 5. Weekly Total ammonia nitrogen

The results in table 5 demonstrate the changes to MLSS and DO settings have largely been successful in bringing the results into / near the condition limit. The instances of elevated results might be due to the increase in loading and high flows.

Bacterophage Analysis - Condition (10)

10. The consent holder shall:

- a. At least once a calendar month between the hours of 9am and 5pm, obtain a representative grab sample of the influent to the wastewater treatment plant.
- b. At least once a week between the hours of 9am and 5pm, obtain a representative grab sample of the wastewater from the location identified in accordance with condition 6.

These samples shall be analysed for a suitable viral indicator, such as F-RNA bacteriophage. The requirement in this condition may be varied by certified updates to the Monitoring Plan under condition 10A.

Condition met - the following are the results of the sampling performed under Condition 10.

July 2025				August 2025				September 2025			
Influent Monthly grab		Effluent Weekly grab		Influent Monthly grab		Effluent Weekly grab		Influent Monthly grab		Effluent Weekly grab	
Date	PFU/l	Date	PFU/l	Date	PFU/l	Date	PFU/l	Date	PFU/l	Date	PFU/l
		01/07	29			05/08	29			02/09	29
		08/07	<10			12/08	20			09/09	10
		15/07	<10			19/08	110			16/09	49
29/07	350000	22/07	<10	26/08	850000	26/08	<10	23/09	190000	23/09	110
		29/07	170							30/09	<10

Table 6: Viral indicator testing

Sampling shall be performed by an International Accreditation New Zealand (IANZ) registered laboratory - Condition (11)

11. All sampling techniques employed in respect of the conditions of this consent shall be acceptable to the Wellington Regional Council. All analyses undertaken in the connection with this consent shall be performed by an International Accreditation New Zealand (IANZ) registered laboratory, or otherwise as especially approved by the Greater Wellington Regional Council.

Condition met - analysis is undertaken by Eurofins.

Wastewater Quality - Condition (12)

Condition met - results are set out below

12. The quality of the wastewater sampled in accordance with condition 7 of this consent shall not exceed the following limits:

a. Suspended solids – The geometric mean of 90 consecutive daily suspended solid values shall not exceed 30 g/m³ and no more than 10% of 90 consecutive daily values shall exceed 75 g/m³

b. Biochemical oxygen demand –The geometric mean of 90 consecutive daily biological oxygen demand values shall not exceed 30 g/m³ and no more than 10% of 90 consecutive daily values shall exceed 75 g/m³

(a) Final Effluent Suspended Solids

Day	July 2025			August 2025			September 2025		
	Results	90-day Geometric Mean	90-day 90th Percent Compliance	Results	90-day Geometric Mean	90-day 90th Percent Compliance	Results	90-day Geometric Mean	90-day 90th Percent Compliance
	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³
1	6	8	19	6	7	13	11	7.8	14
2	6	8	19	6	7	13	9	7.8	14
3	11	8.1	19	6	7	13	9	7.8	14
4	28	8.2	19.1	10	7	13	9	7.9	14
5	11	8.2	19.1	6	7	13	16	8	14.1
6	6	8.2	19.1	6	7	13	9	8	14.1
7	6	8	19.1	10	7	13	11	8.1	14.1
8	10	8.1	19.1	15	7	13	12	8	14.1
9	6	8	19.1	6	7	13	6	7.9	14
10	10	8.1	19.1	69	8	14	6	7.9	14
11	6	8.1	19.1	10	8	14	13	7.9	13.1
12	10	8.2	19.1	16	8	14	7	7.9	13.1
13	6	8.2	19.1	6	8	14	5	7.9	13.1
14	6	8.2	19.1	6	8	14	6	7.9	13.1
15	6	8.1	18.1	6	8	14	6	7.9	13.1
16	6	8.1	18.1	6	8	14	6	7.9	13.1
17	14	8.2	18.1	6	7	13	10	7.9	13.1
18	6	8.2	18.1	11	7	13	10	8	13.1
19	6	8.1	15.3	29	8	14	9	8	13.1
20	6	8	14.1	9	8	14	17	8.1	14.1
21	6	8	14.1	6	8	14	16	8.2	15.1
22	6	8	14.1	6	8	14	6	8.2	15.1
23	6	8	14.1	6	8	14	17	8.3	16
24	9	8.1	14.1	7	8	14	16	8.4	16
25	13	8.1	14.1	6	8	14	6	8.4	16
26	9	8.1	14.1	11	8	14	6	8.4	16
27	6	8.1	14.1	6	8	13	12	8.4	16
28	10	8.1	14.1	17	8	14	38	8.6	16
29	6	7.8	14	8	8	14	9	8.6	16
30	6	7.5	14	6	8	13	10	8.7	16
31	6	7	13	21	8	14			
Limits	–	30	75	–	30	75	–	30	75

Table 7: Suspended Solid Geometric Mean and Percent Compliance

(b) Final Effluent Biochemical Oxygen Demand

Day	July 2025			August 2025			September 2025		
	Results	90-day Geometric Mean	90-day 90th Percent Compliance	Results	90-day Geometric Mean	90-day 90th Percent Compliance	Results	90-day Geometric Mean	90-day 90th Percent Compliance
	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³	g/m ³
1	6	15.9	29.1	11	14	22	16	15.1	21
2	13	15.8	29.1	15	14	22	14	15	21
3	19	15.8	29.1	17	14	22	15	15.1	21
4	18	15.8	29.1	18	14	22	22	15.2	21.1
5	19	15.7	27.2	7	14	22	17	15.3	21.1
6	14	15.7	27.2	15	14	22	6	15.2	21.1
7	16	15.6	27.2	15	14	21	11	15.1	21.1
8	15	15.6	27.2	23	14	22	14	15.2	21.1
9	22	15.7	27.2	17	14	22	7	14.9	21
10	14	15.7	27.2	24	14	22	8	14.7	21
11	21	15.7	27.2	17	14	22	11	14.5	21
12	21	15.6	24.3	19	14	22	9	14.4	21
13	20	15.6	24.3	16	15	22	6	14.3	21
14	14	15.6	24.3	16	15	22	13	14.2	21
15	16	15.5	24.3	13	15	22	13	14.2	21
16	6	15.3	24.3	15	15	21	9	14.1	21
17	18	15.3	24.3	17	15	21	8	14	21
18	8	15.1	24.3	20	15	21	11	14	21
19	14	15	23.1	21	15	21	12	14	21
20	17	14.9	22.1	22	15	21	15	14	21
21	15	14.9	22.1	13	15	21	16	14.1	21
22	12	14.9	22.1	18	15	21	6	14	21
23	16	14.8	22.1	12	15	21	9	13.8	21
24	12	14.8	22.1	21	15	21	10	13.8	21
25	12	14.7	22.1	20	15	21	12	13.7	21
26	17	14.8	22.1	9	15	21	12	13.7	21
27	13	14.7	22.1	14	15	21	10	13.6	21
28	16	14.7	22.1	16	15	21	9	13.6	21
29	22	14.5	22	6	15	21	13	13.7	21
30	17	14.3	22	6	15	21	14	13.7	21
31	20	14	22	20	15	21			
Limits	-	30	75	-	30	75	-	30	75

Table 8: Biochemical Oxygen Demand Geometric Mean and Percent Compliance

Please note that analytical results highlighted in amber are above the applicable parameter's geometric mean limit. Analytical results highlighted in red are above the applicable parameter's percent compliance limit.

Analysis for metals and other - Condition (9)

9. The consent holder shall on at least one occasion each month, on a normal working day, obtain a representative 24-hour flow-proportioned composite sample of the wastewater from the location identified in accordance with condition 6. This sample shall be collected on the same day as the representative receiving water samples are collected under condition 14. This sample shall be analysed for:

- a) Nitrate Nitrogen
- b) Nitrite Nitrogen
- c) Dissolved Reactive Phosphorus
- d) Total Nitrogen
- e) Total Phosphorus
- f) Total Arsenic
- g) Total Cadmium
- h) Total Chromium
- i) Total Copper
- j) Total Nickel
- k) Total Lead
- l) Total Zinc
- m) Total Mercury
- n) Phenol

Condition met - samples have been taken in accordance with Condition 9. The results are reported and assessed in Condition 12A.

Concentrations of metals and other compounds - Condition (12A)

12A. Concentrations of metals and other compounds in the sample required under condition 9 shall not exceed:

Metals/metalloids and phenols

- a. Total Arsenic 0.023 g/m³
- b. Total Cadmium 0.055 g/m³
- c. Total Chromium 0.044 g/m³
- d. Total Copper 0.013 g/m³
- e. Total Nickel 0.07 g/m³
- f. Total Lead 0.044 g/m³
- g. Total Zinc 0.08 g/m³
- h. Total Mercury 0.001 g/m³
- i. Phenol 2.7 g/m³

Condition met - results are set out below:

Compound	Units	Limit	July 2025	August 2025	September 2025
Total Arsenic	g/m ³	0.023	0.0020	0.0020	0.004
Total Cadmium	g/m ³	0.055	0.0010	0.0010	<0.001
Total Chromium	g/m ³	0.044	0.0030	0.0020	0.002
Total Copper	g/m ³	0.013	0.0040	0.0040	0.003
Total Lead	g/m ³	0.044	0.0010	0.0010	<0.001
Total Mercury	g/m ³	0.001	0.0010	0.0010	<0.001
Total Nickel	g/m ³	0.07	0.0010	0.0020	<0.001
Total Zinc	g/m ³	0.08	0.0220	0.0180	0.020
Phenol	g/m ³	2.7	0.0100	0.0100	<0.01
Nitrate Nitrogen	g/m ³	-	2.4600	1.2200	2.55
Nitrite Nitrogen	g/m ³	-	0.1900	0.1500	0.19
Dissolved Reactive Phosphorus	g/m ³	-	2.8700	1.4600	1.7900
Total Nitrogen	g/m ³	-	7.0300	5.2900	4.3000
Total Phosphorus	g/m ³	-	2.2200	1.3400	1.7400

Table 9. Monthly heavy metals and phenol

UV Transmissivity monitoring probe - Condition (12C)

12C The consent holder shall maintain a UV Transmissivity monitoring probe in the Duron UV system. The probe shall be linked to the treatment plant's SCADA system, with records of the hourly average UV transmissivity kept by the consent holder based on values observed at 5-minute intervals.

Condition met - the graph below summarises the UVT hourly average.

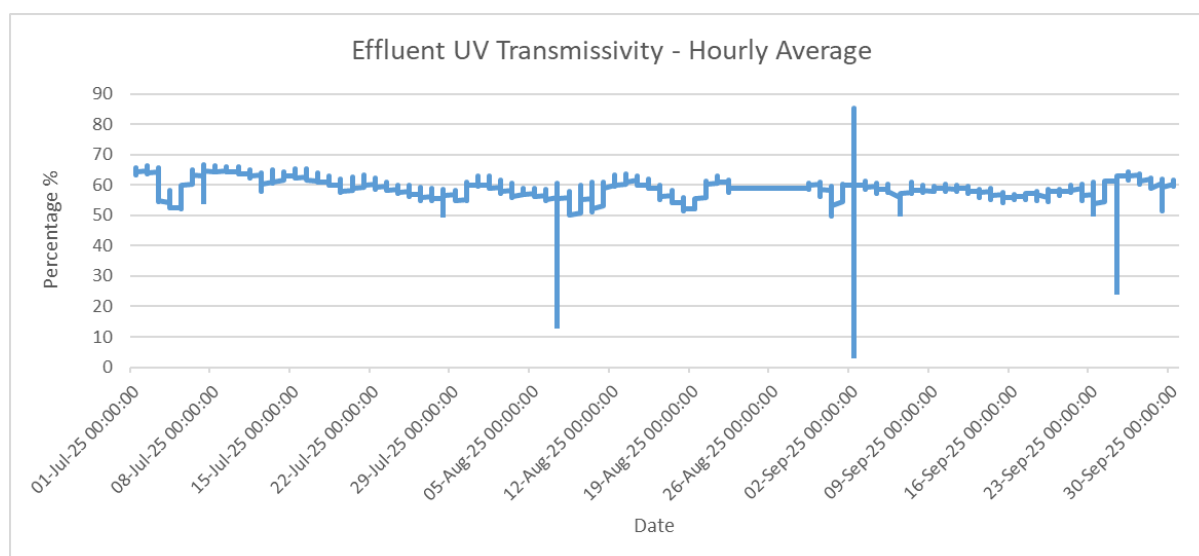


Figure 1: UVT values during July - Sept 2025 - online measurement

Hourly average UV transmissivity - Condition (12D)

12D If the hourly average UV transmissivity recorded in accordance with 12C reduces below 45% then the consent holder shall:

- a. Notify the Manager as soon as practicable; and
- b. Initiate an investigation that meets the following requirements.

The investigation shall:

- i. Be undertaken by a suitably qualified and experienced professional.
- ii. Consider the results of the suspended solids monitoring, UV transmissivity from the daily grab samples, and other relevant plant performance measurements routinely taken by the consent holder.
- iii. Assess the likely cause of the UV transmissivity reducing below 45%.
- iv. If considered necessary, recommend further investigations, improvements, operational actions (including changes to the OMCP) or upgrades to reduce the risk of similar UV transmissivity records occurring in the future.
- v. Include an implementation programme for the recommendations, if any, set out in accordance with (iv).
- vi. Within 10 working days of the hourly average UV transmissivity falling below 45%, the consent holder shall inform the Manager of the outcomes of the investigation and which of the recommendations made in accordance with (iv) and (v) above it proposes to implement or has already implemented.

The following events are noted for the period:

Date	Incident summary
7 August 2025	UVT Sensor fault (algae fouling)
2 September 2025	Duron UV System offline for cleaning – TAK duty
25 September 2025	UVT Sensor fault (algae fouling)

Monthly Environmental Monitoring - Condition (14)

14. The consent holder shall collect representative receiving water samples from approximately 150 mm below the surface of water that is at least 500mm deep, once each calendar month at the following locations:

- At or about 140 metres generally east of the outfall.
- At or about 200 metres generally southwest of the outfall.
- Titahi Bay Beach generally at Toms Road.
- A control site, at a location to the satisfaction of the Manager.

Coordinates for all sampling sites shall also be recorded using a handheld GPS and provided in annual monitoring reports required under condition 19.

For each water sample collected under this condition, the consent holder shall record the site name, date, time, weather, wind, tidal conditions, pH, salinity, dissolved oxygen and water temperature at each sampling location.

Condition met - the following is a summary of the monthly shoreline monitoring performed as part of resource consent WGN200229 [36816], Condition 14:

Time	Date dd/mm:	24/07	Temp. C	Ph	DO mg/l	Wind Direction	Wind Strength	Weather	Tide Height	Tide Ebb / Flow	Rain in last 24 hrs	Discoloration
hh:mm	Site											
09:21	200 South West of Outfall		12.5	8.07	11.37	None	None	Clear	Mid	Flood	No	None
09:31	140m East of Outfall		11.9	8.15	11.53							
09:47	Surf Club		12.0	8.16	11.48							
10:00	Control		11.9	8.24	12.31							

Table 10: Monthly Environmental Monitoring

Time	Date dd/mm:	28/08	Temp. C	Ph	DO mg/l	Wind Direction	Wind Strength	Weather	Tide Height	Tide Ebb / Flow	Rain in last 24 hrs	Discoloration
hh:mm	Site											
08:40	200 South West of Outfall		11.4	8.14	12.02	NE	Light	Clear	Low	Flood	No	None
08:48	140m East of Outfall		11.6	8.24	12.43							
08:25	Surf Club		10.3	8.08	11.47							
08:11	Control		10.1	8.04	11.39							

Table 11: Monthly Environmental Monitoring

Time	Date dd/mm:	24/09	Temp. C	Ph	DO mg/l	Wind Direction	Wind Strength	Weather	Tide Height	Tide Ebb / Flow	Rain in last 24 hrs	Discoloration
hh:mm	Site											
08:58	200 South West of Outfall		14.8	8.2	10.92	NW	Moderate	Overcast	Mid	Flood	NA	None
09:07	140m East of Outfall		14.4	8.32	11.6							
09:25	Surf Club		14.2	8.29	11.81							
09:40	Control		14.2	8.36	11.34							

Table 12: Monthly Environmental Monitoring

Please note that the enterococci for the shoreline monitoring samples were analysed by the contract laboratory

July 2025

Sampling Point		POR_L1_G_1M: Porirua 1: 140m E of Outfall	POR_L2_G_1M: Porirua 2: 200m SW of Outfall	POR_L3_G_1M: Porirua 3: Titahi Bay Surf Club	POR_SCS_G_1M Porirua 7: Sample Control Site
Product Type		Surface water	Surface water	Surface water	Surface water
Sampled Datetime		24/07/2025 09:31:00	24/07/2025 09:21:00	24/07/2025 09:47:00	24/07/2025 10:00:00
Parameter Name	Units	812-2025-00141755	812-2025-00141756	812-2025-00141757	812-2025-00141771
Nitrite-N	mg/l	<0.1	<0.1		<0.1
Nitrate-N	mg/l	<0.1	<0.1		<0.1
Total Nitrogen	mg/l	0.280	0.265		0.327
Total Phosphorus	mg/l	<0.05	<0.05		<0.05
Salinity	ppt	33	33		33
Dissolved Reactive Phosphorus	mg/l	0.002	<0.002		<0.002
Ammonia Nitrogen	mg/l	<0.1	<0.1		<0.1
Enumeration of Enterococci by Membrane Filtration	cfu/100 ml	< 10	< 10	20	< 10

August 2025

Sampling Point		POR_L1_G_1M: Porirua 1: 140m E of Outfall	POR_L2_G_1M: Porirua 2: 200m SW of Outfall	POR_L3_G_1M: Porirua 3: Titahi Bay Surf Club	POR_SCS_G_1M Porirua 7: Sample Control Site
Product Type		Surface water	Surface water	Surface water	Surface water
Sampled Datetime		26/08/2025 08:48	26/08/2025 08:40	26/08/2025 08:25	26/08/2025 08:11
Parameter Name	Units	812-2025-00141755	812-2025-00141756	812-2025-00141757	812-2025-00141771
Nitrite-N	mg/l	<0.1	<0.1		<0.1
Nitrate-N	mg/l	<0.1	<0.1		<0.1
Total Nitrogen	mg/l	0.096	0.176		0.130
Total Phosphorus	mg/l	<0.005	<0.005		0.015
Salinity	ppt	35	35	34	35
Dissolved Reactive Phosphorus	mg/l	0.003	0.008		<0.002
Ammonia Nitrogen	mg/l	<0.01	0.07		<0.01
Enumeration of Enterococci by Membrane Filtration	cfu/100 ml	< 10	10	80	20

September 2025

Sampling Point		POR_L1_G_1M: Porirua 1: 140m E of Outfall	POR_L2_G_1M: Porirua 2: 200m SW of Outfall	POR_L3_G_1M: Porirua 3: Titahi Bay Surf Club	POR_SCS_G_1M Porirua 7: Sample Control Site
Product Type		Surface water	Surface water	Surface water	Surface water
Sampled Datetime		24/09/2025 09:07	24/09/2025 08:58	24/09/2025 09:25	24/09/2025 09:40

Parameter Name	Units	812-2025-00141755	812-2025-00141756	812-2025-00141757	812-2025-00141771
Nitrite-N	mg/l	<0.1	<0.1		<0.1
Nitrate-N	mg/l	<0.1	<0.1		<0.1
Total Nitrogen	mg/l	0.130	0.253		0.165
Total Phosphorus	mg/l	0.027	0.063		0.028
Salinity	ppt	35	33	34	32
Dissolved Reactive Phosphorus	mg/l	<0.002	0.019		0.003
Ammonia Nitrogen	mg/l	0.26	<0.01		<0.01
Enumeration of Enterococci by Membrane Filtration	cfu/100 ml	< 10	20	10	180

Tables 13 - 16: Monthly Environmental Monitoring

Please note that bathing beach guidelines were used to generate the colouring for the Enterococci samples (below). The following are the limits for both bacterial species:

Bacterial Species	Amber Limit	Red Limit
	cfu/100mL	cfu/100mL
Enterococci	140	280

Monthly Environmental Monitoring Analysis - Condition (15)

15. The samples collected from sites (a) to (d) in condition 14 shall be analysed for enterococci. In addition, the samples collected from sites (a), (b) and (d) shall be analysed for total ammonia nitrogen, nitrate nitrogen, nitrite nitrogen, dissolved reactive phosphorus, total nitrogen and total phosphorus.

Condition met - monitoring performed for the condition has been provided above under Condition 14.

Incident Notifications and Sampling - Conditions (16) and (22A)

16. In the event of an incident notified under condition 22A and / or a discharge of partially treated wastewater, the consent holder shall:

- a. Notify the Manager as soon as practicable of the timing of the discharge, and the reason for the incident and / or the partially treated discharge.
- b. Take samples at the locations specified in condition 14 as soon as it is safe to do so, within 24 hours of the discharge commencing, and also approximately 48 hours after the discharge commenced, if it is safe to do so.
- c. Analyse the samples in accordance with condition 15.
- d. Assess compliance with condition 13.

22A. The consent holder shall notify the Manager as soon as practicable but within 24 hours of any non routine issues or plant malfunction that adversely affects the discharge to the coastal marine area, any other unauthorised discharge, or any discharges of partially treated wastewater. The consent holder shall provide written details as soon as practicable of the reasons for the issue, measures taken to prevent its reoccurrence, the results of receiving water quality monitoring undertaken in accordance with condition 16, details of how compliance with condition 13 was assessed and the results of that assessment, and any other relevant matters.

Condition met - There were no incidents in the reporting period.

Note that there were instances where algae affected the UVT probe but the effluent quality results remained compliant. GWRC was notified on each instance.

Ecological survey - Condition (28)

28. The consent holder shall commission an ecological survey of the receiving waters for the discharge. The survey shall involve the collection of information on the biota of the intertidal and shallow-subtidal habitats adjacent to the existing outfall at Rakutane Point, at Round point to the west of the existing outfall, and at a reference location 300m east of the outfall. The survey methods should be comparable with those used for the ecological survey included in Appendix F in the application. The results of the survey shall be incorporated into a report prepared by a suitably qualified and experienced coastal ecologist.

Not applicable - Noting that the consent became effective on 12 July 2023, the survey required under this condition is due between 13 July 2031 and 12 July 2032 and between 13 July 2037 and 12 July 2038. The ecological survey was not required during this reporting period.

Ecological survey - Condition (29)

29. A survey and report required under condition 28 shall be completed and submitted to the Manager:
- a) Between the 8th and the 9th anniversary of the commencement of this consent, and
 - b) Between the 14th and 15th anniversary of the commencement of this consent.

Not applicable - Noting that the consent became effective on 12 July 2023, the survey required under this condition is due between 13 July 2031 and 12 July 2032 and between 13 July 2037 and 12 July 2038. The ecological survey was not required during this reporting period.

UV disinfection performance - Condition (35A)

35A. If:

- a. Prior to certification of the enterococci trigger under condition 21B, monitoring undertaken in accordance with condition 8 identifies that the concentration of faecal coliforms in the treated wastewater has exceeded 2,000 cfu per 100 millilitres on 2 or more consecutive days; or
 - b. Following certification of the enterococci trigger under condition 21B, monitoring undertaken in accordance with condition 8 identifies that the enterococci concentration in the treated wastewater has exceeded the enterococci trigger value set in accordance with condition 21B on 2 or more consecutive days, then the consent holder shall:
 - i. Notify the Manager as soon as practicable after receipt of results showing that the faecal coliforms or enterococci trigger has been exceeded for 2 consecutive days; and
 - ii. Initiate an investigation that meets the following requirements.

The investigation shall:

 - c. Be undertaken by a suitably qualified and experienced professional.
 - d. Consider the results of the UV transmissivity monitoring undertaken in accordance with condition 8.
 - e. Assess the likely cause of the exceedance of the faecal coliforms or enterococci trigger value.
 - f. If considered necessary, recommend further investigations, improvements, operational actions or upgrades to reduce the risk of similar exceedances of the trigger value occurring in the future.
 - g. Include an implementation programme for the recommendations, if any, set out in accordance with (f).
- Within 1 calendar month of the receipt of results showing that the faecal coliforms or enterococci trigger has been exceeded for 2 consecutive days, the consent holder shall inform the Manager of the outcomes of the investigation and which of the recommendations made in accordance with (f) and (g) above it proposes to implement.

Condition met - there were no such exceedances in the reporting period.

On 11 July, GWRC issued a "Please explain" concerning its investigation into an alleged sludge carryover from the Porirua WWTP in April and May 2025. A response was provided to GWRC within the required timeframe.

Air Discharge Permit - WGN200229 [36727]

Record of Complaints - Condition 5

5. The consent holder shall keep a record of any complaints received. The complaints will be forwarded to the Manager within twenty-four hours of the complaint being received by the consent holder. The consent holder shall record:
- a. The complainant's name (if provided).
 - b. The location of the odour incident.
 - c. The time of the odour incident.
 - d. The wind direction and speed.
 - e. The plant operating conditions at the time of the complaint.

There were no complaints reported in the period. Details on odour complaints are published on the Wellington Water website.

<https://www.wellingtonwater.co.nz/resources/topic/wastewater/wastewater-treatment-plants/porirua-wastewater-treatment-plant/>. Condition met - there were nil complaints in this reporting period.

Incident Notifications - Condition 6

6. Any incident that may cause or has caused adverse effects on the environment at or beyond the site boundary shall be notified to the Manager within twenty-four hours. This includes any incidents that result in complaints. A written report detailing the reasons for the incident, measures to mitigate the incident and measures to prevent recurrence shall be forwarded to the Manager within seven working days.

There were no incidents reported in the period.

Details on odour complaints are published on the Wellington Water website.

<https://www.wellingtonwater.co.nz/resources/topic/wastewater/wastewater-treatment-plants/porirua-wastewater-treatment-plant/>. Condition met - There were no incidents in the reporting period and, accordingly, no adverse effects to the environment are likely to have been caused.

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