Western Wastewater Treatment Plant

July - September 2024 Quarterly Resource Consents Report

KIA

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CONTROL SHEET

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0	Draft	29 October 2024	Original version for review.
1	Final	31 October 2024	Internal review.
2	Amended	6 November 2024	Amendments in response to errors identified by WW.

EXECUTIVE SUMMARY

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

WGN060283 [37892]

Effluent discharge from the Western WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN060283 [37892]. In general, the consent allows the continuous discharge disinfected secondary (fully treated) effluent to the Wellington South Coast coastal marine area (Cook Strait in the vicinity of the Karori Stream Mouth) via an existing outfall. Overall the plant is not compliant with this resource consent due to a failure of the outfall pipeline which caused the treatment plant to discharge to the stream. The outfall pipeline was repaired and returned to service at the end of July, For August and September the plant was compliant with Condition 1. The table below sets out a brief overview of the plant's compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable
Condition 1	Non-Compliant
Condition 2	Compliant
Condition 6	Compliant
Condition 9	Compliant
Condition 10	Non-Compliant
Condition 11	Compliant
Condition 13	Compliant
Condition 14	Compliant
Condition 15	Compliant
Condition 16	Not Applicable
Condition 19	Compliant
Condition 25	Compliant

Tables 1&2: WGN060283 [37892] & WGN060283 [25227] Resource Consent Condition Compliance

WGN060283 [25227]

The discharge from the Western WWTP is governed by another resource consent under the Greater Wellington Regional Council consent file number WGN060283 [25227]. In general, the consent allows the occasional discharge of milli-screened (partially treated) effluent to the Wellington South Coast coastal marine area via an existing outfall during significant wet weather events. The table below sets out a brief overview of the plant's compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable
Condition 2	Non-Compliant ¹
Condition 5	Compliant
Condition 6	Not Applicable
Condition 7	Compliant
Condition 8	Not Applicable
Condition 13	Not Applicable

¹ The outfall pipeline outage for the first discharge event makes this condition non compliant but the second discharge was compliant.

WGN060283 [35674]

The discharge from the Western WWTP is governed by another resource consent under the Greater Wellington Regional Council consent file number WGN060283 [35674]. In general, the consent allows the occasional discharge of secondary treated and disinfected wastewater from the Western WWTP to Karori Stream during events when the stormwater tank is full and the flow to the plant exceeds 190L/s. The table below sets out a brief overview of the plant's compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable
Condition 2	Compliant
Condition 3	Not Applicable
Condition 6	Compliant
Condition 7	Not Applicable
Condition 8	Compliant
Condition 9	Not Applicable
Condition 16	Not Applicable

Table 3: WGN060283 [35674] Resource Consent Condition Compliance

WGN060283 [35675]

The discharge from the Western WWTP is governed by another resource consent under the Greater Wellington Regional Council consent file number WGN060283 [35675]. In general, the consent allows for the occasional discharge of milli-screened and settled wastewater from the Western WWTP to Karori stream during events when the stormwater tank is full and the flow to the plant exceeds 390L/s. The table below sets out a brief overview of the plant's compliance with the consent conditions:

Resource Consent Condition	Compliant / Non-Compliant / Not Applicable		
Condition 2	Compliant		
Condition 3	Not Applicable		
Condition 5	Compliant		
Condition 6	Not Applicable		
Condition 7	Compliant		
Condition 8	Compliant		
Condition 13	Not Applicable		
Table 4: WCN060292 1256751 Passuras Consent Condition Compliance			

Table 4: WGN060283 [35675] Resource Consent Condition Compliance

WGN060283 [25230]

The resource consent that governs the air discharge from the Western WWTP is under the Greater Wellington Regional Council consent file number WGN060283 [25230]. In general, the consent allows the discharge of contaminants to air from the operation of the Western WWTP. The table below sets out a brief overview of the plant's compliance with the consent conditions:

Compliant
Compliant
Not Applicable

Table 5: WGN060283 [25230] Resource Consent Compliance

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WGN060283 [37892]

Condition 1

The location and nature of the discharge shall be in accordance with the consent application and its associated plans and documents lodged with the Wellington Regional Council on 30 March 2006, and additional information received on:

- 29 June 2006,
- 5 December 2014,
- 15 January 2015 and
- 12 August 2015 (change of consent conditions application),
- 2 February 2018 (change of conditions application),
- 13 October 2021 (change of conditions application) and
- 16 March 2022 (email from applicant confirming agreement to alternative wording)

Overall the plant is **not compliant** with this resource consent due to a failure of the outfall pipeline which caused the treatment plant to discharge to the stream. The outfall pipeline was repaired and returned to service at the end of July, For August and September the plant was compliant with Condition 1.

Condition 2

The rate of discharge shall not exceed 200 litres per second (L/s) or 17,280 cubic metres per day (m³/day).

The limits from this condition have been added to WGN060283 [37892] Condition (6).

The permit holder shall continuously monitor and record the flow rate and volume of treated wastewater entering the outfall pipeline and the flow rate and volume of the wastewater discharged to the South Coast to the satisfaction of the Wellington Regional Council. A summary of the records listing the daily discharge volumes and the minimum, average and maximum monthly volumes shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council at quarterly intervals in accordance with condition (19) of this permit.

Below is a summary of the effluent flow from the treatment plant. This includes the monthly average total daily discharge, average daily flow rate, minimum daily flow, and maximum daily flow.

Month	Average Daily Flow	Minimum Daily Flow	Maximum Daily Flow	Average Total Daily Volume
	L/s	L/s	L/s	m³/day
July 2024	49	32	123	4168
August 2024	60	39	134	5125
September 2024	61	42	151	5279

Table 6:	Monthly	Treatment	Plant	Effluent	Flow

Please note that the discharge limit specified in WGN060283 [37892], Condition (2) applies to the discharge from the effluent pipeline to the coastal marine area. It is not applicable to the discharge from the WWTP.

For all average daily, peak hourly and total daily flow rates for the WWTP effluent see Appendix i: Treatment Plant Effluent Flow Rate.

Below is a summary of the effluent pipeline monthly average total daily discharge, average daily flow rate, minimum daily flow, and maximum daily flow.

Month	Average Daily Flow	Minimum Daily Flow	Maximum Daily Flow	Average Total Daily Volume	
	L/s	L/s	L/s	m³/day	
July 2024		-		-	
August 2024	Effluent pipeline sensors weren't operating, so no flow data available for the reporting period.				
September 2024					
Limit	200			17280	
		Mandlella Efflorent Discall			

Table 7: Monthly Effluent Pipeline Flow

- a. The permit holder shall take a daily 24-hour flow-proportional composite sample of the treated wastewater discharged from the treatment plant to the South Coast. This sample shall be analysed for total suspended solids and 5-day biochemical oxygen demand (BOD5).
- b. The permit holder shall daily between the hours of 9:00 am and 5:00 pm, obtain a representative grab sample of the treated wastewater discharged from the treatment plant to the South Coast. This sample shall be analysed for faecal coliforms.
- c. The results of monitoring undertaken in accordance with conditions (9)(a) and (9)(b) of this permit shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council on a quarterly basis, in accordance with condition (19) of this permit.

The effluent BOD5 and suspended solids results from daily representative 24-hour flow-proportional composite samples can be found under resource consent WGN060283 [37892] Condition 10 i) and ii). The effluent faecal coliform results from the daily representative grab samples can be found under resource consent WGN060283 [37892] Condition 10 iii)

Condition 10

The wastewater discharged from the Western Wastewater Treatment Plan to the South Coast shall comply with the following effluent quality criteria:

i. BOD5

The geometric mean of any 90 consecutive daily sample results shall not exceed 20 g/m3 and no more than 18 sample results in any 90-day period (or 15 consecutive sample results in any 90-day period) shall exceed 50 g/m3.

ii. Suspended solids

The geometric mean of any 90 consecutive daily sample results shall not exceed 30 g/m3 and no more than 18 sample results in any 90-day period (or 15 consecutive sample results in any 90-day period) shall exceed 80 g/m3.

iii. Faecal Coliforms

The geometric mean of any 90 consecutive daily sample results shall not exceed 200 colony forming units per 100 ml and no more than 18 sample results in any 90-day period (or 15 consecutive sample results in any 90-day period) shall exceed 2,000 colony forming units per 100ml.

Compliance with the effluent quality criteria shall be determined from the results of wastewater monitoring undertaken in accordance with conditions (9) (a) and (9) (b) of this permit.

i) 5-Day Biochemical Oxygen Demand

The following is a summary of the daily results, 90-day geometric mean, and 90-day 80th percentile for the 5-day biochemical oxygen demand.

		July 2024			August 2024			September 2024	
Day	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile
	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³
1	119	22	35	19	17	23	18	16.6	22.2
2	22	22	34	11	17	23	16	16.6	22.2
3	9	22	33	11	17	23	16	16.6	22.2
4	7	22	33	30	17	23	8	16.6	22.2
5	15	21	31	20	17	23	17	16.5	22
6	16	21	31	19	17	23	10	16.4	22
7	21	20	30	20	17	23	19	16.4	22
8	16	20	29	13	17	23	20	16.5	22
9	10	19	28	19	16	22	28	16.6	22.2
10	14	19	28	37	16	22	18	16.5	22
11	11	18	27	25	16	22	6	16.4	22
12	23	18	27	20	16	22	6	16.2	22
13	10	18	27	14	16	21	6	16	22
14	20	18	27	18	16	21	6	16	22
15	14	18	27	28	16	21	6	15.8	22
16	8	18	26	26	16	22	6	15.7	22
17	17	18	26	19	16	22	5	15.6	22
18	10	18	26	464	17	22	6	15.5	22
19	17	17	26	35	16	22	6	15.5	22
20	29	17	26	18	16	21	5	15.4	22
21	31	17	26	14	16	21	6	15.3	22
22	14	17	26	26	17	22	6	15.3	22
23	12	17	26	30	17	22	6	15	21.2
24	16	17	26	19	17	22	6	14.9	21.2
25	16	17	26	33	17	22	6	14.9	21.2
26	11	17	26	21	17	22	6	14.7	21.2
27	15	17	25	19	17	22	4	14.5	21.2
28	22	17	24	16	17	22	6	14.4	21.2
29	23	17	23	17	17	22	6	13.9	21
30	17	17	23	10	17	22	11	13.8	20.2
31	11	17	23	9	17	22			
Limits	N/A	20	50	N/A	20	50	N/A	20	50

Table 8: 5-Day Biochemical Oxygen Demand Results, Geometric Mean, and 80th Percentile

Please note that analytical results highlighted in amber are above the 20g/m³ geometric mean limit. Analytical results highlighted in red are above the 50g/m³ 80th percentile compliance limit.

ii) Suspended Solids

The following is a summary of the daily results, 90-day geometric mean, and 90-day 80th percentile for the suspended solids.

		July 2024			August 2024		September 2024		24
Day	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile
	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³
1	208	12	20	8	8	10	6	7.9	9
2	7	12	18	6	8	10	8	7.9	9
3	6	11	17	6	8	10	9	7.9	9
4	6	11	17	6	8	10	6	7.9	9
5	6	11	17	6	8	10	7	7.9	9
6	8	11	15	15	8	10	6	7.9	9
7	6	10	14	6	8	10	7	7.9	9
8	8	10	13	6	8	10	7	7.9	9
9	6	10	13	6	8	10	8	7.9	9
10	12	9	12	6	8	10	15	7.8	9
11	11	9	12	8	8	10	8	7.9	9
12	6	9	12	6	8	10	11	7.9	9
13	6	9	12	9	8	10	6	7.9	9
14	7	9	12	25	8	10	8	7.9	9
15	6	9	12	6	8	10	8	7.9	9
16	6	9	11	6	8	10	10	8	9
17	7	9	11	6	8	10	8	8	9
18	6	8	11	403	8	10	22	8.1	9
19	6	8	11	11	8	10	9	8.1	9
20	13	8	11	10	8	10	6	8.1	9
21	9	8	11	6	8	10	17	8.2	9.2
22	6	8	10	6	8	10	24	8.3	9.2
23	7	8.2	10.2	6	8	10	6	8.1	9
24	9	8.1	10	6	8	10	11	8.2	9.2
25	9	8.1	10	8	8	10	7	8.2	9.2
26	6	8.1	10	6	8	10	7	8.2	9.2
27	8	8.1	10	6	8	10	6	8.2	9.2
28	6	8.1	10	6	8	9	6	8.2	9.2
29	10	8.1	10	6	8	9	6	7.9	9
30	11	8.2	10	6	8	9	19	8	9.2
31	6	8.2	10	6	8	9			
Limits	N/A	30	80	N/A	30	80	N/A	30	80

Table 9: Suspended Solids Results, Geometric Mean, and 80th Percentile

Please note that analytical results highlighted in amber are above the 30g/m³ geometric mean limit. Analytical results highlighted in red are above the 80g/m³ 80th percentile compliance limit.

iii) Faecal Coliforms

The following is a summary of the daily results, 90-day geometric mean, and 90-day 80th percentile for faecal coliforms.

		July 2024			August 2024		September 2024		24
Day	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile	Daily Results	90-Day Geometric Mean	90-Day 80th Percentile
	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL
1	10	17	20	10	12	10	437	13	10
2	10	16	20	22	12	10	10	13	10
3	244.95	17	20	10	12	10	10	13	10
4	10	17	20	10	12	10	22	13	10
5	10	17	20	10	12	10	10	13	10
6	10	16	20	10	12	10	10	13	10
7	10	16	20	10	12	10	10	13	10
8	10	16	15	10	12	10	10	13	10
9	10	15	15	10	12	10	10	13	10
10	10	15	14	10	12	10	10	13	10
11	10	15	14	10	12	10	10	13	10
12	10	14	14	10	12	10	10	13	10
13	10	14	14	245	13	10	10	13	10
14	10	14	14	10	13	10	10	13	10
15	10	14	14	17	13	10	10	13	10
16	10	14	14	10	13	10	10	13	10
17	10	14	14	10	13	10	10	13	10
18	10	14	14	10	13	10	10	13	10
19	10	14	11	14	13	10	10	13	10
20	10	14	10	10	12	10	17	13	10
21	10	13	10	10	12	10	10	13	10
22	10	13	10	10	12	10	10	13	10
23	10	13	10	10	12	10	10	13	10
24	10	13	10	17	12	10	10	13	10
25	235	13	10	10	12	10	10	13	10
26	32	13	10	20	12	10	10	13	10
27	10	13	10	63	12	10	10	13	10
28	10	13	10	10	12	10	10	13	10
29	10	13	10	10	12	10	10	13	10
30	10	13	10	10	12	10	20	13	10
31	10	12	10	10	12	10			
Limits	N/A	200	2000	N/A	200	2000	N/A	200	2000

Table 10: Faecal Coliforms Results, Geometric Mean, and 80th Percentile

Please note that analytical results highlighted in amber are above the 200g/m³ geometric mean limit. Analytical results highlighted in red are above the 2000g/m³ 80th percent compliance limit.

The permit holder shall report to the Manager, Environmental Regulation, Wellington Regional Council, immediately in the event that a geometric mean and/or 95 percentile effluent quality value calculated at the end of each calendar month exceeds the criteria stipulated in condition 10 of this permit. Such a report shall include the likely reason for exceedance, and measures to be undertaken by the permit holder to remedy the situation. The permit holder shall also immediately notify the Medical Officer of Health of any such event.

Western WWTP exceeded the 90-Day Geometric Mean g/m3 limit (of 20 g/m3) for item i) - 5-Day Biochemical Oxygen Demand, for six days at the start of the quarter, but was compliant throughout the reporting period for items ii) - Suspended Solids and iii) Faecal Coliforms.

The non compliance for the 5-Day Biochemical Oxygen Demand (10ii) relates to a carry-over for exceedances that occurred in prior quarters². Corrective actions to the process were undertaken and results in the previous quarterly report showed it trending towards compliance, which was achieved on 7 July.

Condition 13

The discharge shall not result in any of the following effects beyond a 50 metre radius of the discharge point:

- a. The production of any conspicuous oil or grease films, scums or foams suspended material;
- b. Any conspicuous change in colour or visual clarity;
- c. Any emission of objectionable odour; or
- d. Any significant adverse effect on aquatic life.

Please see the Western Treatment Plant Coastal Outfall Analysis and Observations report in Appendix ii: Outfall Inspection Reports.

Condition 14

- The discharge shall not result in any of the following effects beyond a 100 metre radius of the discharge point:
- a. The rendering of seafood's inedible by virtue of concentration of toxic substances; or
- b. The rendering of seafood's inedible by virtue of concentration of microorganisms.

Inspections were conducted once a month during the reporting period. None of the effects listed in the condition above were reported.

Please see the Western Treatment Plant Coastal Outfall Analysis and Observations report in Appendix ii: Outfall Inspection Reports.

Condition 15

The permit holder shall make a qualitative assessment (visual and olfactory) of the receiving waters beyond the mixing zone at least once each month to assess compliance with condition (13) of this permit, and make the results

² Detailed information was provided in the "Please explain" letter submitted to WWL on 27 February 2024.

available to the Manager, Environmental Regulation, Wellington Regional Council, at three monthly intervals (in accordance with the requirements of condition (19) of this permit) or on request.

The results of inspections can be found in the Western Treatment Plant Coastal Outfall Analysis and Observations report in Appendix ii: Outfall Inspection Reports.

Condition 16

The permit holder shall collect representative coastal water samples from knee deep water at the following locations, once each month for five months through November to March inclusive (the bathing season) each year, for the duration of this permit:

- a. 100m SE of the outfall (map reference NZMS 260: R27; 504.835)
- b. 200m SE of the outfall (map reference NZMS 260: R27; 504.834)
- c. The Karori Stream, above the tidal influence
- d. 100m NW of the mouth of the Karori Stream

Sampling shall be undertaken during dry, settled weather where practicable. Each of the water samples shall be analysed for faecal coliform and enterococci bacteria (cfu/100mL). The time of the sample collection, together with the weather and tidal conditions, observations of the sea state, stream colour and location of stream mouth (if at all) shall be recorded and reported with the analytical results.

Water samples taken during the months of January to March inclusive, shall also be analysed for the following parameters:

Ammoniacal nitrogen	g/m³
Nitrite nitrogen	a/m³
Nitrate nitrogen	g/m ³
Dissolved reactive phosphorus	g/m ³

The permit holder shall provide the results to the Manager, Environmental Regulation, Regional Council, by 30 April each year (as part of the quarterly report required by condition (19) of this permit), or on request.

Shoreline monitoring was not required for the reporting period.

A quarterly monitoring report for each three-month period ending 31 March, 30 June, 30 September and 31 December shall be provided to the Manager, Environmental Regulation, Wellington Regional Council within 30 days of the end of each three month period.

The quarterly report shall include, but not be limited to, the following:

the results of all monitoring undertaken, as required by conditions (6), (9)(a), (9)(b) and (25) of this permit. These results shall be provided in an electronic format and a hard-copy format; an assessment of compliance with conditions (6), (9)(a), (9)(b) and (15) of this permit; and reasons for any non-compliance and subsequent actions undertaken to remedy any non-compliance.

All monitoring performed at the Western WWTP has been provided in the previous sections of this report under the designated resource consent conditions. The following is a summary of the monitoring parameters, the resource consent condition the data is listed under, the monitoring frequency, the limits for each parameter, and compliance with the resource consent:

Monitoring Parameters	WGN060283 [35255] Conditions	Monitoring Frequency	Limits	Compliance
Effluent Flow	6	Daily	200L/s 17,280m³/day	Compliant
5-Day Biochemical Oxygen Demand	9a	Deilu		Compliant
	10ii	Daily	Geometric Mean < 20g/m ³ 90th Percentile < 50g/m ³	Non compliant
Suspended	9a			Compliant
Solids	10ii	Daily	Geometric Mean < 30g/m ³ 90th Percentile < 80g/m ³	Compliant
	9b	Della		Compliant
Faecal Coliforms	10iii	Dally	Geometric Mean < 200cfu/100mL 90th Percentile < 2000cfu/100mL	Compliant
Receiving Waters Inspection	15	Monthly		Compliant
Receiving Waters Sampling	16	Monthly between November and March (inclusively)	-	Compliant
Karori Stream Monitoring	25	Fortnightly		Compliant

Table 11: Monitoring Parameters for Resource Consent WGN060283 [35255]

The non compliance for the 5-Day Biochemical Oxygen Demand (10ii) relates to a carry-over for exceedances that occurred in prior quarters³. Corrective actions to the process were undertaken and results in the previous quarterly report showed it trending towards compliance, which was achieved on 7 July.

³ Detailed information was provided in the "Please explain" letter submitted to WWL on 27 February 2024.

The permit holder shall collect representative water samples from the Karori Stream at the following locations, once every fortnight for the duration of this permit:

- a. Karori Stream at Friend Street (map reference NZMS 260: R27; 554.901)
- b. Karori Stream at Campbell Street (map reference NZMS 260: R27; 554.900)
- c. Karori Stream at South Karori Road (map reference NZMS 260: R27; 540.880)
- d. Karori Stream approximately 100 metres upstream of the Western Treatment Plant (map reference NZMS 260: R27; 523.872)
- e. Karori Stream 100 metres approximately downstream of the Western Treatment Plant (map reference NZMS 260: R27; 523.871)

The water samples shall be analysed for faecal coliforms (cfu/100mL). The time of the sample collection, together with the weather conditions shall be recorded and reported with the analytical results.

The permit holder shall provide the results of this monitoring to the Manager, Environmental Regulation, Wellington Regional Council, quarterly, in accordance with the requirements of condition (19) of this permit, or on request.

The following is a summary of the samples collected at the 5 locations during the reporting period.

Site Name Address	Sample Date	Sample Time	Faecal Coliform	Wind Direction	Weather
	dd/mm/yyyy	hh:mm	cfu/100mL		
	10/07/2024	16:05	140	N	Fine
	26/07/2024	16:34	1700	N	Fine
Karori Stream	08/08/2024	11:41	2600	N	Cloudy & Windy
Street Bridge	22/08/2024	10:03	2400	N	Cloudy
Ū	05/09/2024	07:58	400	N	Fine
	20/09/2024	07:51	300	N	Fine
	10/07/2024	16:05	1700	N	Fine
	26/07/2024	16:34	2000	N	Fine
Karori Stream	08/08/2024	11:45	500	N	Cloudy & Windy
Friend Street	22/08/2024	10:07	1800	N	Cloudy
	05/09/2024	07:53	800	N	Fine
	20/09/2024	07:55	800	N	Fine
	10/07/2024	16:05	600	N	Fine
Karori Stream	26/07/2024	16:34	80	N	Fine
100m	08/08/2024	11:28	180	N	Cloudy & Windy
Downstream of	22/08/2024	9:38	150	N	Cloudy
WWIP	08/09/2024	07:40	280	N	Fine
	21/09/2024	12:15	100	N	Fine
	10/07/2024	16:05	900	N	Fine
	26/07/2024	16:34	110	N	Fine
Karori Stream	08/08/2024	11:22	110	N	Cloudy & Windy
of WWTP	22/08/2024	9:34	700	N	Cloudy
	05/09/2024	07:26	220	N	Fine
	20/09/2024	07:24	80	N	Fine
	10/07/2024	16:05	1800	N	Fine
	26/07/2024	16:34	120	N	Fine
South Karori	22/08/2024	9:52	320	N	Cloudy & Windy
Road	05/09/2024	07:41	190	N	Cloudy
	20/09/2024	07:41	110	N	Fine

Table 12: Karori Stream Sample Data

WGN060283 [25227]

Condition 2

This permit shall only be exercised when the sewage inflow to the treatment plant exceeds 190 litres per second (L/s), and the 1000 m^3 storage tank is full.

Date	Duration	Average Inlet Flow	Peak Inlet Flow	Average Discharge Flow	Peak Discharge Flow	Total Volume of Discharge	Diluti on Ratio	Consen ted	Cause	Monitoring Results
d/m/yy	hr:min	L/s	L/s	L/s	L/s	m ³		Y/N		
01/07/2024	01:15	199	224	208	248	798	N/A	N ⁴	High rain event i	Notifications submitted, and a sampling campaign initiated.

Details for the discharges are provided below.

Date	Duration	Average Inlet Flow	Peak Inlet Flow	Average Discharge Flow	Peak Discharge Flow	Total Volume of Discharge	Diluti on Ratio	Conse nted	Cause	Monitoring Results
d/m/y	hr:min	L/s	L/s	L/s	L/s	m ³		Y/N		
16/09/2024	04:38	200	216	5	23	2939	6:1	Y	High rain event.	Notifications submitted, and a sampling campaign initiated.

Tables 13 and 14: Discharge Data

Condition 5

The permit holder shall monitor and record the time, flow rate, duration and total volume of the bypass discharges into the coastal marine area, and shall report the results to the Manager, Environmental Regulation, Wellington Regional Council, within 10 working days of the overflow event occurring.

The permit holder shall maintain an incident log containing the details of each bypass discharge and make it available to the public or the Manager, Environmental Regulation, Wellington Regional Council upon request.

See above.

Condition 6

The permit holder shall submit to the Manager, Environmental Regulation, Wellington Regional Council the amount of rainfall recorded in each hour at Karori Reservoir rain-gauge for each of the 7 days preceding each overflow event in the annual report required by condition (10) of this permit.

Refer page 22

⁴ This was an unconsented discharge (to Karori Steam due to a break in the outfall explained above.

The permit holder shall take one representative grab sample of the settled, milli-screened effluent prior to its entry into the coastal outfall pipe every time the discharge authorised by this permit has occurred for more than two hours. Each sample shall be analysed for the following parameters:

рН	
Suspended solids	g/m³
Total BOD5	g/m³
Faecal coliform bacteria	cfu/100mL
oils/grease	g/m³

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

Date	рН	Total Suspended Solids	Total BOD₅	Faecal Coliforms	Oil/Grease
dd/mm/yyyy	-	g/m³	g/m³	cfu/100mL	g/m³
25/09/2024	6.9	16	19	>6000	<4

Table 15: Settled and Milli-Screened Effluent Sample

Date	Ammonia	Total Suspended Solids	Total BOD₅	Faecal Coliforms
dd/mm/yyyy	-	g/m³	g/m³	cfu/100mL
25/09/2024	3.58	7	3	<10
	Tabla	16. Einel Effluen	+ Comple	

Table 16: Final Effluent Sample

Date	Ammonia	Total Suspended Solids	Total BOD₅	Faecal Coliforms
dd/mm/yyyy	-	g/m³	g/m³	cfu/100mL
25/09/2024	0.01	<6	3	450

Table 17: Upstream sample

🔅 eurofins

Food & Water Testing ANALYTICAL REPORT

REPOR	T CODE	AR-24-NW-0572	74-01	REPORT DATE	25/09/2024
Attention	Veolia Water - COA Email	Wellington			
	Wastewater Tr	reatment Plant			
	P.O. Box 1474	4			
	WELLINGTON	N 6041			
	Wellington				
	NEW ZEALAN	ID			
Phone	(04) 388 0067	II arauna Questia sam			
Email	anz.eurotins.coa.a	Bab Date:		Order and a	FILITAL AAACTT
Contact	for your orders:	Western Discharge Testi	na	Order code:	EUNZWE-00205777
contrac	. .	Western Discharge resu		Purchase Order Number:	7300395167
SAMPL	E CODE	812-2024-00135555			
Samplin	g Point code:	WST_STORMTANK_G_	D	Sampling Point name:	Stormtank Grab
Reception	on Date & Time:	17/09/2024 12:30			
Analysis	s Started on:	17/09/2024		Analysis Ending Date:	25/09/2024
sample	o Date & Time	17/08/2024 07:15		Sampler(s)	GF
		RESULTS		LOQ	
NW014	Biochemical Oxyg	gen Demand			
	Biochemical oxygen (BOD)	demand ¹⁹	mg/l	1	
UMY2E	Enumeration of Fa	aecal Coliforms by Memi	brane Filtratio	n	
	Faecal Coliforms	>6000	cfu/100 ml	10	
NW192	Oil & Grease Total Oil and Grease	<4	mg/l	4	
NW195	pH (Tested beyon	d 15 minute APHA holdir	ng time)		
	pН	6.9		0.1	
NW206	Suspended Solids	5			
	Suspended Solids	16	mg/l	3	
SAMPI	E CODE	812-2024-00135556			
Samplin	a Point code:	WST EFF G D		Sampling Point name:	Western Effluent Grab and Western
Receptie	on Date & Time:	17/09/2024 12:30		camping rommanic.	Post UV Grab
Analysis	s Started on:	17/09/2024		Analysis Ending Date:	23/09/2024
Sampleo	d Date & Time	17/09/2024 07:05		Sampler(s)	GF
		RESULTS		LOQ	
NW676	Ammonia Nitroge	n			
	Ammonia nitrogen	3.58	mg/l	0.01	
NW014	Biochemical Oxy	en Demand	-		
	Biochemical oxygen (BOD)	demand 3	mg/l	1	
UMY2E	Enumeration of Fa	aecal Coliforms by Memi	brane Filtratio	n	
	Faecal Coliforms	<10	cfu/100 ml	10	
NW206	Suspended Solids	5			
	Suspended Solids	7	mg/l	3	
Eurofee 7	10 Limited			Dhana	4 576 5016
Eurofins E 85 Port Po	LS Limited			www.eurofins.co.nz	- 4 5/0 5010
Seaview					
Lower Hut	t				HOC-MRA LANG
Wellington	5010 LAND				ann so
					AND

		Fo	od & Wa	ater Te	sting			
			RESULTS		g	00		
SAMPL	E CODE	812-2024	-00135557					
Samplin	ng Point code:	WST_UPS	TREAM_G_D		Sam	pling Point name:	Western Upstream Grab	
Recepti	on Date & Time:	17/09/202	4 12:30			Territory Deter		
Analysi	s Started on:	17/09/202/	4		Anaiy	ysis Ending Date:	23/09/2024	
Sample	d Date & Time	17/09/202	4 07:40		Sam	pler(s)	GF	
			RESULTS		I	Q		
NW676	Ammonia Nitrogen Ammonia nitrogen	1	0.01	mg/l		0.01		
NW014	Biochemical Oxyg	en Deman	d					
	Biochemical oxygen d (BOD)	iemand	<3	mg/l		1		
UMY2E	Enumeration of Fa	ecal Colife	orms by Memb	rane Filtrati	on			
	Faecal Coliforms		450	cfu/100 ml		10		
NW206	Suspended Solids Suspended Solids	ì	<6	mg/l		3		
LIST OF	METHODS							
NW014	Biochemical Oxygen	Demand: A	PHA Online Editic	on 5210 B	NW192	Oil & Grease: APHA	Online Edition 5520 B mod.	
NW195	pH (Tested beyond 16 APHA 24th Edition 450	5 minute AP 30-H B	HA holding time	():	NW206	Suspended Solids: A	PHA Online Edition 2540 D	
NW676	Ammonia Nitrogen: Ir (DA)	nternal Meth	od, Spectrophoto	metry	UMY2E	Faecal Coliforms E (m-FC Agar-F: SMEW	Nater) [NZ] <10 >6 000 /100 ml (0) W 9222D: APHA 24th Edition	

AR-24-NW-057274-01

Page 2 of 3

Condition 8

🛟 eurofins

When a bypass discharge occurs that lasts for longer than 10 hours the permit holder shall collect two sets of representative water samples from knee deep water at the following locations:

a. 100m SE of the outfall (map reference NZMS 260: R27; 504.835)

- b. 200m SE of the outfall (map reference NZMS 260: R27; 504.834)
- c. The Karori Stream, above the tidal influence
- d. 100m NW of the mouth of the Karori Stream

The first set of samples shall be taken within 24 hours of the discharge commencing and the second set of samples shall be taken 12- 48 hours after the discharge has ceased.

These samples shall only be taken provided that safe vehicular access is available and weather conditions allow for safe access to the sample locations.

The water samples shall be analysed for enterococci bacteria (cfu/100ml). The time of the sample collection, together with the weather and tidal conditions shall be recorded and reported with the analytical results.

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

As the discharges were less than 10 hours in duration, no further reporting is required for this condition.

The permit holder shall keep a record of any complaints that are received. The record shall contain the following details, where practicable:

- a. Name and address of the complainant;
- b. Identification of the nature of the complaint;
- c. Date and time of the complaint and of the alleged event;
- d. Weather conditions at the time of the complaint; and
- e. Any measures taken to address the cause of the complaint.

The permit holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of any complaints relating to the exercise of this permit, within twenty-four hours of being received by the permit holder or the next working day.

The permit holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of any complaints recorded in the annual report required by condition (10) of this permit.

There were no complaints during the reporting period.

WGN060283 [35674]

Condition 2

This permit shall only be exercised when the sewage inflow to the treatment plant exceeds 190 litres per second (L/s), and the 1000 m3 storage tank is full.

Complied for the two events on p16

Condition 3

The permit holder shall continuously monitor and record influent flow to the Western Wastewater Treatment Plant, and make the results available to the Manager, Environmental Regulation, Wellington Regional Council on request.

The Manager, Environmental Regulation, Wellington Regional Council has not requested this information be provided.

Condition 6

The permit holder shall monitor and record the time, flow rate, duration and total volume of the overflow discharges into the Karori Stream, and shall report the results to the Manager, Environmental Regulation, Wellington Regional Council, within 10 working days of the overflow event occurring.

The permit holder shall maintain an incident log containing the details of each overflow discharge and make it available to the public or the Manager, Environmental Regulation, Wellington Regional Council upon request.

Refer page 16.

The permit holder shall submit to the Manager, Environmental Regulation, Wellington Regional Council the amount of rainfall recorded in each hour at Karori Reservoir rain-gauge for each of the 7 days preceding each overflow event in the annual report required by condition (11) of this permit.

Notwithstanding that this condition applies to annual reports; rainfall preceding the first event is shown below.



And rainfall prior to the second event is shown below:



Condition 8

After an overflow discharge has occurred for more than 2 hours, the permit holder shall collect a representative grab sample of the treated effluent, prior to its entry into Karori Stream. All samples shall be analysed for the following parameters:

Suspended solids	g/m ³
Ammoniacal nitrogen	g/m ³
Total BOD5	g/m ³
Faecal coliform	cfu/100mL

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

Refer pages 17 - 19.

After an overflow discharge has occurred for more than 24 hours, the permit holder shall collect two representative grab samples from the Karori Stream, one from upstream of the discharge point and one no more than 100 metres downstream of the discharge point. This sampling shall be repeated at daily intervals thereafter for the duration of the discharge. A final set of samples shall be taken two hours after the discharge has ceased, or as soon as is practicable thereafter.

All samples shall be analysed for the following parameters:

Suspended solids Ammoniacal nitrogen Total BOD5 Faecal coliform	g/m ³ g/m ³ g/m ³ cfu/100mL	

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

Note: No monitoring shall be required during the hours of darkness, or when conditions are too dangerous for the safe procurement of samples.

The discharges that are reported above were for less than 24 hours.

Condition 16

The permit holder shall keep a record of any complaints that are received. The record shall contain the following details, where practicable:

- a. Name and address of the complainant;
- b. Identification of the nature of the complaint;
- c. Date and time of the complaint and of the alleged event;
- d. Weather conditions at the time of the complaint; and
- e. Any measures taken to address the cause of the complaint.

The permit holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of any complaints relating to the exercise of this permit, within twenty-four hours of being received by the permit holder or the next working day.

The permit holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of any complaints recorded in the annual report required by condition (10) of this permit.

There were no complaints during the reporting period.

WGN060283 [35675]

Condition 2

This consent shall only be exercised when the sewage inflow to the treatment plant exceeds 390 litres per second (L/s), and the 1000 m^3 storage tank is full.

Compliant for the two events on p16.

Condition 3

The permit holder shall continuously monitor and record influent flow to the Western Wastewater Treatment Plant, and make the results available to the Manager, Environmental Regulation, Wellington Regional Council on request.

The Manager, Environmental Regulation, Wellington Regional Council has not requested this information be provided.

Condition 5

The permit holder shall monitor and record the time, flow rate, duration and total volume of the bypass overflow discharges into the Karori Stream, and shall report the results to the Manager, Environmental Regulation, Wellington Regional Council, within 10 working days of the overflow event occurring.

The permit holder shall maintain an incident log containing the details of each bypass overflow discharge and make it available to the public or the Manager, Environmental Regulation, Wellington Regional Council, upon request.

Refer page 17.

Condition 6

The permit holder shall submit to the Manager, Environmental Regulation, Wellington Regional Council the amount of rainfall recorded at the Karori Reservoir rain-gauge in each hour for each of the 7 days preceding each bypass overflow event in the annual report required by condition (9) of this permit.

Refer page 22

The permit holder shall take one representative grab sample of the settled, milli-screened effluent prior to its entry into the Karori Stream every time the discharge authorised by this permit has occurred for more than one hour. Each sample shall be analysed for the following parameters:

pН	
Suspended solids	g/m³
Total BOD5	g/m ³
Faecal coliform bacteria	cfu/100mL
oils/grease	g/m ³

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the bypass discharge occurring.

Refer pages 17 - 19 above.

Condition 8

After any bypass overflow discharge has occurred for more than one hour, the permit holder shall collect representative grab samples from the Karori Stream, upstream of the discharge point at the last bridge to the wastewater treatment plant at approximate map reference NZTM 1742609.5425785.

The sample shall be analysed for the following parameters:

Suspended solids	g/m³
Ammoniacal nitrogen	g/m ³
Total BOD5	g/m³
Faecal coliform	cfu/100mL

The results of the monitoring shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 10 working days of the overflow discharge occurring.

Note: No monitoring shall be required during the hours of darkness, or when conditions are too dangerous for the safe procurement of samples.

Refer Condition 7 on page 17 above.

The permit holder shall keep a record of any complaints that are received. The record shall contain the following details, where practicable:

- a. Name and address of the complainant;
- b. Identification of the nature of the complaint;
- c. Date and time of the complaint and of the alleged event;
- d. Weather conditions at the time of the complaint; and
- e. Any measures taken to address the cause of the complaint.

The permit holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of any complaints relating to the exercise of this permit, within twenty-four hours of being received by the permit holder or the next working day.

The permit holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of any complaints recorded in the annual report required by condition (9) of this permit.

There were no complaints during the reporting period.

WGN060283 [25230]

Condition 3

The permit holder shall monitor air quality in the vicinity of the plant to confirm the absence of faecal coliforms and salmonella originating from the plant. Sampling is to be carried out at least once every six months.

The sampling method and locations are to be agreed with the Wellington Regional Council within three months of the granting of this permit.

Should the presence of faecal coliforms or salmonella be measured at any time, the Wellington Regional Council may direct that the permit holder sample at least once every month for six months before returning to the six monthly sampling regime.

The results shall be provided annually to Wellington Regional Council as part of the annual report required by condition 8 of this permit.

Ambient Microbe Monitoring was last performed at the Western WWTP in May 2024. A report was submitted to GWRC regarding this assessment during the previous reporting period.

Condition 4

The permit holder shall undertake a comprehensive assessment of the quality of the biofilter media on an annual basis (or more frequently if appropriate).

The results of this assessment, including a summary of the findings, details of any action(s) to be taken to improve the efficiency of the biofilter, and a timetable for those actions to be undertaken, shall be submitted to the Manager, Environmental Regulation, Wellington Regional Council within one month of the assessment being undertaken.

Actions to be undertaken may include, but are not limited to:

- a. Turning, restructuring and dampening of the bed material,
- b. the addition of supplementary bed material, or
- c. total bed material replacement.

The first assessment shall be undertaken within three months of the granting of this permit. Subsequent assessments shall be undertaken annually thereafter.

The biofilter assessment was last performed in November 2023 and reported to GWRCin a prior quarterly report.

Condition 10

The permit holder shall keep a permanent record of any complaints received alleging adverse effects from the permit holder's operations. The complaints record shall contain the following where practicable:

- a. the name and address of the complainant, if supplied;
- b. identification of the nature of the complaint;
- c. date and time of the complaint and alleged event;
- d. weather conditions at the time of the alleged event;
- e. results of the permit holder's investigations; and
- f. any mitigation measures adopted.

The permit holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of any complaints relating to the exercise of this permit, within twenty-four hours of being received by the permit holder or the next working day.

The permit holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of any complaints recorded in the annual report required by condition (8) of this permit.

There have been no complaints received regarding this resource consent during the reporting period.

Appendix i: Treatment Plant Effluent Flow Rate

		July 2024			August 2024	l	Se	eptember 20	24
Day	Average Flow	Peak Flow	Daily Total	Average Flow	Peak Flow	Daily Total	Average Flow	Peak Flow	Daily Total
	L/s	m³/hour	m³	L/s	m³/hour	m³	L/s	m³/hour	m³
1	101	662	8724	96	455	8285	82	477	7146
2	79	566	6876	73	417	6332	63	378	5448
3	49	335	4233	59	383	5091	112	599	9695
4	47	296	4047	56	328	4816	77	456	6689
5	41	272	3516	48	283	4128	63	700	5505
6	45	314	3908	48	348	4161	51	318	4398
7	43	297	3714	43	281	3700	57	327	4911
8	40	278	3461	56	355	4890	57	370	4911
9	36	476	3152	47	334	4038	58	425	4996
10	40	339	3505	47	303	4039	52	310	4486
11	36	382	3122	47	287	4087	49	294	4215
12	42	279	3680	42	258	3629	46	299	4011
13	42	300	3617	41	287	3597	54	477	4659
14	41	287	3576	40	281	3510	64	328	5513
15	44	309	3775	39	272	3352	60	385	5167
16	43	279	3751	39	248	3355	151	660	13120
17	40	246	3444	43	270	3692	106	628	9198
18	36	232	3141	134	690	11630	70	389	6066
19	38	251	3284	88	524	7664	59	354	5110
20	58	444	5036	54	339	4724	51	333	4458
21	54	322	4723	54	336	4675	52	315	4540
22	42	275	3665	42	292	2493	54	345	4708
23	39	275	3396	52	307	4524	48	654	4192
24	38	262	3259	49	323	4272	42	293	3609
25	32	221	2813	71	581	6112	42	323	3631
26	39	287	3410	112	647	9694	48	342	4193
27	38	265	3271	95	634	8246	45	413	3911
28	50	359	4317	66	384	5709	45	313	3905
29	48	329	4162	62	367	5342	42	274	3495
30	92	600	7979	51	335	4421	46	251	2513
31	123	544	6653	86	560	4668			
	-				-	-		-	

Treatment Plant Effluent Flow Rate

Table 18: Effluent Flow Data

Effluent Pipe Flow Rate

		July 2024			August 2024		Se	eptember 20	24
Day	Average Flow	Peak Flow	Daily Total	Average Flow	Peak Flow	Daily Total	Average Flow	Peak Flow	Daily Total
	m³/hour	L/s	m³	m³/hour	L/s	m³	m³/hour	L/s	m³
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
15									
16	There was	s no flow d	ata for the	effluent p	ipeline as	sensors w	eren't func	tionina.	
17				•					
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31		1							
Limit	720	200	17,280	720	200	17,280	720	200	17,280

Appendix ii: Outfall Inspection Reports

Western WWTP Outfall Inspection

Thank you for conducting the Western WWTP Outfall Inspection. Please answer the following questions:

* Indicates required question	
Date? *	
DD MM YYYY	
17 / 07 / 2024	
Is there any signs of leaking or damage to the outfall structure in the water? *	
O Yes	
No No	
Is there any oil or grease films, scums, foams, or suspended material beyond a 50 meter radius of the discharge point?	*
⊖ Yes	
No	
Is there any change in colour or clarity of the water beyond a 50 meter radius of the discharge point?	k
O Yes	
No No	

Is there any emissions or objectionable odour beyond a 50 meter radius of the discharge point? *	
◯ Yes	
No	
Is there any signs of adverse effects on the aquatic life beyond a 50 meter radius of the discharge point?	*
◯ Yes	
No	
Description of Outfall	
If yes, please descript the damage to the outfall structure below:	

Pipeline still broken, WTP discharging into the stream. No flow means no flowmeter verification

Responses cannot be edited

Western WWTP Outfall Inspection

Thank you for conducting the Western WWTP Outfall Inspection. Please answer the following questions:

* Ind	icates required question
Date	n *
DD	MM YYYY
06 /	08 / 2024
Is th	ere any signs of leaking or damage to the outfall structure in the water? *
•	Yes
0	No
Is th the o	ere any oil or grease films, scums, foams, or suspended material beyond a 50 meter radius of discharge point? Yes No
Is th	ere any change in colour or clarity of the water beyond a 50 meter radius of the discharge point?
Is th	ere any change in colour or clarity of the water beyond a 50 meter radius of the discharge point? Yes

Is the	ere any emissions or objectionable odour beyond a 50 meter radius of the discharge point? *	
0	Yes	
•	No	
Is the point	ere any signs of adverse effects on the aquatic life beyond a 50 meter radius of the discharge ?	7
0	Yes	
•	No	
Desc	ription of Outfall	
If yes	s, please descript the damage to the outfall structure below:	
A sho	rt section has broken off the end of the outfall pipe.	

ques	tions:	
Date	s? *	
DD	MM YOOY	
25 /	09 / 2024	
ls th	ere any signs of leaking or damage to the outfall structure in the water? *	
0	Yes	
۲	No	
radii O	Is of the discharge point? Yes	
ls th disc	ere any change in colour or clarity of the water beyond a 50 meter radius of the harge point?	ł
0	Yes	
۲	No	

5/24, 11:55 AM	Western WWTP Outhill Inspection	
Is there any emissions o point?	r objectionable odour beyond a 50 meter radius of the discharge	1
⊖ Yes		
le No		
Is there any signs of adv discharge point?	verse effects on the aquatic life beyond a 50 meter radius of the	,
O Yes		
No		
Description of Outfall		
If yes, please descript th	e damage to the outfall structure below:	
Pipeline leaking at the flow	meter manhole	
	This form was consted inside Veelia	

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