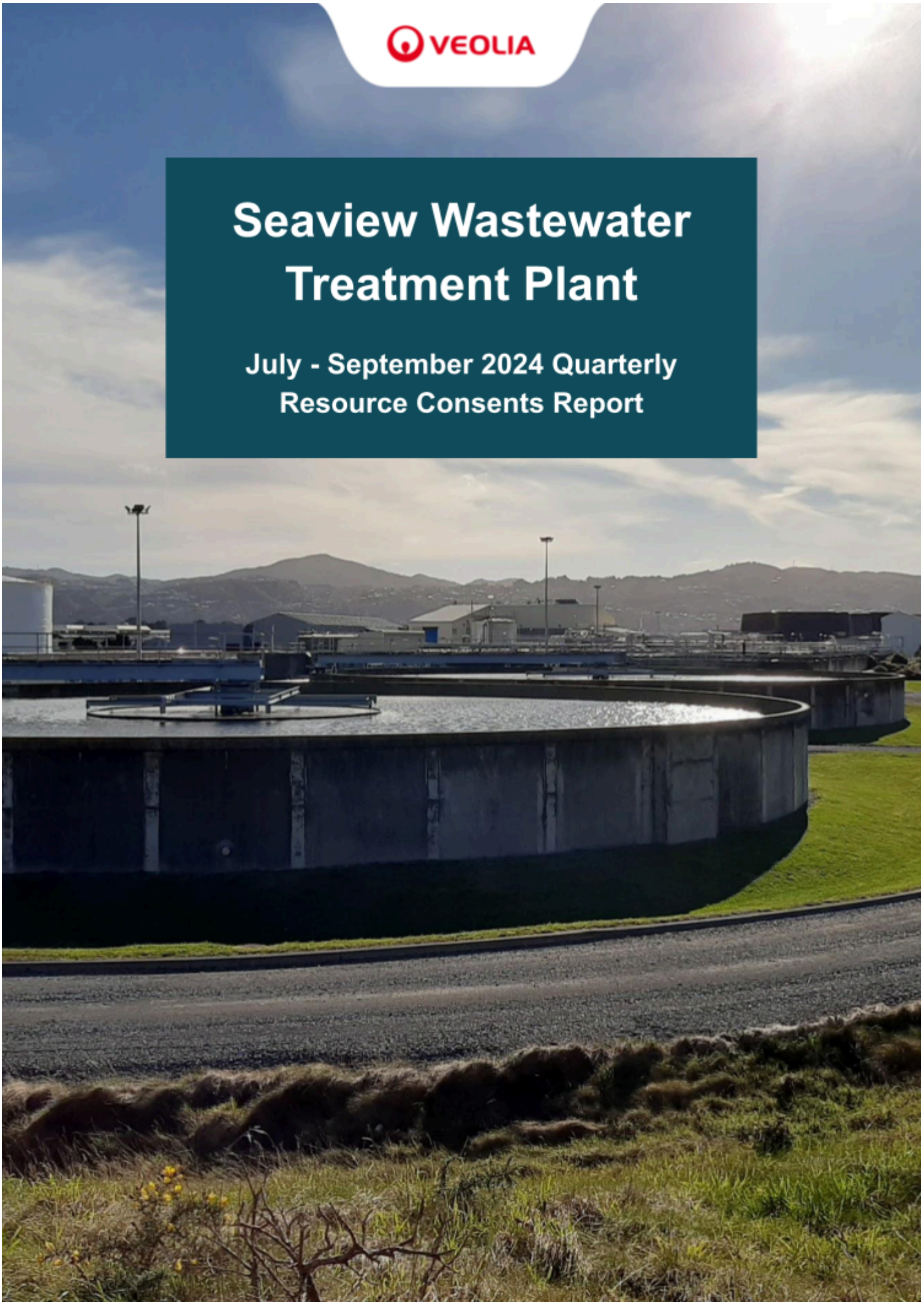

Seaview Wastewater Treatment Plant

July - September 2024 Quarterly Resource Consents Report

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CONTROL SHEET

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Prepared by:	Wayne Murphy & Tobias La Riviere
Reviewed by:	Nico Robins
Authorised by:	Alex Phelan

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Version	Status	Date	Details of Revision
0	Draft	31 October 2024	Original version for review.
1	Final	1 November 2024	Internal review.
2	Amended Report	13 November 2024	Edits at request of Wellington Water to address errors and omissions in Final Report

EXECUTIVE SUMMARY

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

WGN050359 [24539]

The Seaview WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN050359 [24539]. In general, the consent allows the discharge of secondary treated and disinfected wastewater to the coastal marine area through an existing outfall at Bluff Point. The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant/Non-Compliant/Not Applicable
9(a)	Compliant
9(b)	Compliant
9(c)	Non-compliant
10	Compliant
11	Compliant
12	Compliant
13	Not Applicable
14	Not Applicable
17	Compliant

WGN120142 [31740]

When maintenance is required on the Seaview WWTP main outfall pipeline, resource consent WGN120142 [31740] governs the construction of temporary channels on the foreshore to direct treated wastewater discharged from the scour valves on the main outfall pipeline into the sea. There are no reporting requirements for this resource consent.

WGN120142 [33406]

The Seaview WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN120142 [33406]. In general, the consent allows the temporary discharge of treated wastewater to the Waiwhetu Stream during and/or immediately after heavy rain events when flows exceed the capacity of the main outfall pipeline and the storm tank system is fully utilised. The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant/Non-Compliant/Not Applicable
7	Compliant
9	Compliant
11	Compliant
12	Compliant
14	Compliant
15	Compliant
16	Compliant

WGN120142 [33407]

The Seaview WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN120142 [33407]. In general, the consent allows the temporary discharge of treated wastewater onto the land where it may enter streams or the coastal marine area from the following:

- Planned repairs
- Unplanned repairs
- Leaks associated with temporary repairs, and
- Minor leaks

This is in relation to the main outfall pipeline from Seaview WWTP to Pencarrow Head.

The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant/Non-Compliant/Not Applicable
17	Compliant
18	Compliant
19	Not Applicable
22	Compliant

Table 3: WGN120142 [33407] Resource Consent Condition Compliance

WGN120142 [33408]

The Seaview WWTP is governed by the resource consent under the Greater Wellington Regional Council consent file number WGN120142 [33408]. In general, the consent allows the temporary discharge of treated wastewater to the Waiwhetu Stream when the main outfall pipeline is being repaired.

The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant/Non-Compliant/Not Applicable
11	Compliant
14	Compliant
15	Compliant
16	Compliant
18	Compliant
26	Compliant

Table 4: WGN120142 [33408] Resource Consent Condition Compliance

WGN930193 (01)

The discharge of contaminants to the air from the outfall venting structures and vents is governed by resource consent WGN930193 (01). There are no reporting requirements for this resource consent.

WGN930193 (02)

The discharge of contaminants to the air from the sewage outfall structure and the sewage effluent is governed by resource consent WGN930193 (02). There are no reporting requirements for this resource consent.

WGN950162 (01)

The discharge of contaminants to the air from the operation of the Seaview WWTP is governed by resource consent WGN950162 (01).

The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant/Non-Compliant/Not Applicable
14	Compliant
16	Compliant
18	Not Applicable
22	Not Applicable

Table 5: WGN980083 [33805] Resource Consent Condition Compliance

WGN930194

The resource consent WGN930194 governs the occupation of the foreshore and seabed of the coastal marine area for the purposes of continued use of the existing sewage pipeline and outfall structure. There are no reporting requirements for this resource consent.

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WGN050359 [24539]

Condition (9)

The following effluent standards shall apply at all times:

(a) Carbonaceous Biochemical Oxygen Demand (cBOD5)

Compliance is based on daily 24 hour flow proportioned composite sampling, with a running geometric mean and eighty-percentile calculated each day using 90 consecutive daily test results. The geometric mean of 90 consecutive daily cBOD5 values shall not exceed 50 g/m^3 and no more than 20% of 90 consecutive daily values shall exceed 85 g/m^3.

(b) Suspended solids

Compliance is based on daily 24 hour flow proportioned composite sampling, with a running geometric mean and eighty-percentile calculated each day using 90 consecutive daily test results. The geometric mean of 90 consecutive daily suspended solids values shall not exceed 50 g/m^3 and no more than 20% of 90 consecutive daily values shall exceed 85 g/m^3.

(c) Faecal Coliforms

Compliance is based •on daily grab samples to be taken between the hours of 1 Oam and 4pm with a running geometric mean and eighty percentile calculated each day using 90 consecutive daily test results.

The geometric mean of 90 consecutive daily faecal coliform values shall not exceed 1000 per 100 mL and no more than 20% of 90 consecutive daily values shall exceed 5000 per 100 mL.

Section (a)

The following is a summary of the daily results, geometric mean, and eightieth percentile for carbonaceous biochemical oxygen demand.

Day	July 2024			August 2024			September 2024		
	Daily Results	Geometric Mean	80th Percentile	Daily Results	Geometric Mean	80th Percentile	Daily Results	Geometric Mean	80th Percentile
	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	22	10	13	48	10	13	19	13	19
2	13	10	13	34	10	14	16	13	19
3	6	9	13	11	10	13	24	13	20
4	8	9	13	10	10	13	18	13	20
5	6	9	12	13	10	13	18	13	20
6	6	9	12	14	10	14	9	13	20
7	6	9	12	17	10	14	18	13	20
8	8	9	12	15	10	15	17	13	20
9	6	9	12	10	10	15	20	14	20
10	8	9	12	10	10	15	15	14	20
11	8	9	11	11	11	15	20	14	20
12	6	9	10	11	11	15	27	14	20
13	6	9	10	16	11	15	38	14	21
14	8	9	10	16	11	15	25	14	21
15	10	8	10	19	11	16	18	14	21
16	7	8	10	14	11	16	181	15	21
17	10	8	10	13	11	16	30	15	22
18	22	9	10	32	11	16	10	15	22
19	8	9	10	21	11	17	9	15	22
20	17	9	10	19	11	17	12	15	22
21	12	9	11	19.5	12	17	9	15	22
22	23	9	12	25	12	18	13	15	22
23	20	9	12	21	12	18	11	15	22
24	21	9	12	10	12	18	14	15	22
25	26	9	12	40	12	19	24	15	22
26	25	9	13	56	12	19	28	15	23
27	18	9	13	12	12	19	54	16	24
28	19	9	13	13	12	19	72	16	24
29	18	9	13	15	13	19	57	16	25
30	207	9	13	8	13	19	57	17	25
31	112	10	13	9	13	19	-	-	-
Limits	**N/A**	**50**	**85**	**N/A**	**50**	**85**	**N/A**	**50**	**85**

Table 6: 5-Day Carbonaceous Biochemical Oxygen Demand Results, Geometric Mean, and 90th Percentile

Please note that analytical results highlighted in amber are above the 50g/m^3 geometric mean limit. Analytical results highlighted in red are above the 85g/m^3 percent compliance limit. This does not affect the compliance with the resource consent.

Section (b)

The following is a summary of the daily results, geometric mean, and eightieth percentile for the suspended solids.

Day	July 2024			August 2024			September 2024		
	Daily Results	Geometric Mean	90th Percentile	Daily Results	Geometric Mean	90th Percentile	Daily Results	Geometric Mean	90th Percentile
	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	58	12	19	174	11	19	27	14	22
2	26	12	19	115	12	19	25	15	23
3	14	12	19	15	12	19	47	15	23
4	9	12	17	17	12	19	33	15	24
5	6	11	16	20	12	19	23	15	24
6	10	11	16	12	12	19	11	15	24
7	6	11	16	17	12	19	28	15	24
8	18	11	16	11	12	19	28	16	25
9	6	11	16	13	12	19	29	16	25
10	52	11	16	9	12	19	23	16	25
11	14	11	16	11	12	19	27	16	26
12	6	11	16	8	12	19	39	16	26
13	6	11	16	17	12	19	34	17	27
14	11	10	15	13	12	19	39	17	27
15	12	10	15	12	12	19	19	17	28
16	8	10	15	9	13	19	365	18	28
17	7	10	15	13	13	19	65	18	28
18	11	10	15	31	13	20	17	18	28
19	6	10	15	22	13	20	16	18	28
20	19	10	15	22	13	20	11	18	28
21	15	10	15	20	13	20	21	19	28
22	24	10	15	23	13	20	15	19	28
23	20	10	16	28	13	20	16	19	28
24	25	11	16	9	13	20	13	19	28
25	24	11	17	42	13	20	18	19	28
26	24	11	18	121	14	21	27	19	28
27	20	11	18	23	14	21	46	20	29
28	18	11	18	22	14	22	42	20	29
29	19	11	18	22	14	22	51	20	30
30	20	11	18	6	14	22	60	20	32
31	363	11	18	9	14	22	-	-	-
Limits	**N/A**	**50**	**85**	**N/A**	**50**	**85**	**N/A**	**50**	**85**

Table 7: Suspended Solids Results, Geometric Mean, and 90th Percentile

Please note that analytical results highlighted in amber are above the 50g/m^3 geometric mean limit. Analytical results highlighted in red are above the 85g/m^3 percent compliance limit. This does not affect the compliance with the resource consent.

Section (c)

The following is a summary of the daily results, geometric mean, and eightieth percentile for faecal coliforms.

Day	July 2024			August 2024			September 2024		
	Daily Results	Geometric Mean	90th Percentile	Daily Results	Geometric Mean	90th Percentile	Daily Results	Geometric Mean	90th Percentile
	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL
1	1049	4967	53887	60000	3548	47592	38678	12304	60000
2	38730	5091	53887	44721	3542	47188	10000	12930	60000
3	7746	5094	53887	14491	3496	46291	17321	12823	60000
4	46989	5216	53887	7211	3445	46291	1249000	13906	60000
5	60000	5221	53887	13000	3495	46291	79373	14648	60000
6	1597	5015	52685	40497	3550	46291	140712	15186	60000
7	1058	4795	52057	47958	3591	47293	5831	15348	60000
8	25923	4750	51497	60000	3681	47833	3688	15074	60000
9	47749	4738	49468	28284	3832	47833	7483	14729	60000
10	20785	4691	47997	27713	3991	47833	22361	14568	60000
11	760	4496	47997	26458	4121	47833	56480	14855	60000
12	1342	4331	47997	17321	4274	47833	41952	14905	60000
13	474	4104	47539	45607	4686	48164	30984	14796	60000
14	155	3841	47089	60000	4913	50146	3225	14323	60000
15	387	3632	40382	40000	5160	50146	17972	14147	60000
16	500	3449	36921	48990	5271	50146	48990	14501	60000
17	1691	3369	36921	60000	5512	55114	37229	14577	60000
18	45826	3422	40149	24372	5653	55114	1833	14200	60000
19	60000	3423	40149	20000	6151	55114	8124	14041	60000
20	56480	3476	46058	60000	6570	57184	15492	13832	60000
21	21909	3590	46058	60000	7104	60000	4899	13452	60000
22	60000	3661	47089	53852	7514	60000	16310	13876	60000
23	60000	3733	47539	30000	7995	60000	18974	14131	60000
24	60000	3737	47539	2098	8210	60000	34641	14386	60000
25	-	3662	47592	15875	8910	60000	29933	14465	60000
26	40000	3828	47592	60000	9695	60000	1643	14774	60000
27	1649	3679	47188	60000	10410	60000	4975	15568	60000
28	2746	3589	47188	60000	11295	60000	3194	16081	60000
29	5367	3501	46291	1649	11177	60000	1327	16123	60000
30	60000	3501	46291	44721	11694	60000	10488	15890	60000
31	60000	3527	47188	16971	12016	60000	-	-	-
Limits	**N/A**	**1000**	**5000**	**N/A**	**1000**	**5000**	**N/A**	**1000**	**5000**

Table 8: Faecal Coliform Results, Geometric Mean, and 90th Percentile

Please note that analytical results highlighted in amber are above the 1000cfu/100mL geometric mean limit. Analytical results highlighted in red are above the 5000cfu/100mL percent compliance limit. This does not affect the compliance with the resource consent.

Condition (10)

> The permit holder shall report to the Manager, Environmental Regulation, Wellington Regional Council, immediately in the event that a running geometric mean and/or 80 percentile calculated daily from the monitoring programme exceeds the values stipulated in condition 9 for more than three consecutive days. 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.

The Faecal coliforms 90-day 80th percentile were exceeded for the duration of this report. Work was undertaken during this time to refurbish the UV disinfection system but this was not completed by the end of the reporting period. Efforts are ongoing to optimise the performance of the process and UV system to bring the faecal counts back into compliance.

Condition (11)

Based on 24 hour flow-proportioned composite samples collected and analysed once each month in accordance with conditions 6, 7 and 8 and Schedule 1 of this permit, all wastewater discharged through the outfall shall meet the following standards:

Analyte	**Units**	**Standard:** Over each 12-month period, from 1 July to 30 June, no more than 2 sample results shall exceed:
Dissolved Arsenic	mg/L	0.115
Dissolved Cadmium	mg/L	0.035
Dissolved Chromium	mg/L	0.220
Dissolved Copper	mg/L	0.065
Dissolved Nickel	mg/L	0.350
Dissolved Lead	mg/L	0.220
Dissolved Zinc	mg/L	0.750
Dissolved Mercury	mg/L	0.005
Cyanide	mg/L	0.200
Phenol	mg/L	0.500

Notes:

1. Two exceedances out of 12 samples is permitted to meet a 95-percentile discharge compliance standard, based on a discharger's risk of no more than 10% (from 'New Zealand Municipal Wastewater Monitoring Guidelines' NZWERF/MfE 2002)
2. The treated wastewater standards above are based on the ANZECC (2000) marine water trigger levels for 'slightly to moderately disturbed ecosystems' multiplied by a factor of 50 to allow for reasonable mixing (the 50:1 dilution contour extends approximately 400 metres from the outfall).

As per schedule 1, the effluent is analysed for enterococci and heavy metals on a weekly basis. The following is a summary of this analysis:

Compound	Units	Limit	July 2024	August 2024	September 2024
Dissolved arsenic	**g/m³**	**0.115**	0.001	0.004	0.002
Dissolved cadmium	**g/m³**	**0.035**	0.0002	0.0002	0.0002
Dissolved chromium	**g/m³**	**0.220**	0.001	0.002	0.002
Dissolved copper	**g/m³**	**0.065**	0.0028	0.0023	0.0019
Dissolved nickel	**g/m³**	**0.350**	0.0011	0.0016	0.0013
Dissolved lead	**g/m³**	**0.220**	0.0005	0.0005	0.0005
Dissolved zinc	**g/m³**	**0.750**	0.006	0.010	0.007
Dissolved mercury	**g/m³**	**0.005**	0.0005	0.0005	0.0005
Cyanide	**g/m³**	**0.200**	0.005	0.005	0.012
Phenol	**g/m³**	**0.500**	0.01	0.01	0.01
Oil and Grease	**g/m³**	**--**	17	43	4
Nitrate-N	**g/m³**	**--**	0.20	0.06	0.82
Dissolved Reactive Phosphorus	**g/m³**	**--**	2.76	0.243	1.88
pH	**--**	**--**	8.0	6.8	7.3
Conductivity	**mS/m**	**--**	138	49.9	120
Ammonia Nitrogen	**g/m³**	**--**	24.9	7.00	23.5

Table 10: Analytical Results for Quarterly Metals and other Specified Compounds

Day	July 2024	August 2024	September 2024
	cfu/100mL	**cfu/100mL**	**cfu/100mL**
1		100	
2			
3		100	
4	3200		
5			100
6	1200		
7			100
8		100	
9			
10		200	
11	1300		
12			60000
13	400		
14			50000
15		100	
16			
17		1000	
18	100		
19			4000
20	100		
21			300
22		100	
23			
24		100	
25	100		
26			48000
27	100		
28			33000
29		100	
30			
31		10	

Table 9: Effluent Enterococci Results

Condition (12)

The discharge shall not result in any of the following effects beyond a 200 metre radius of the discharge point:

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

None of the effects listed above were observed at the discharge point.

Condition (13)

The permit holder shall collect representative coastal water samples from knee deep water at the following locations, once each month for six months through November to April inclusive each year, for the duration of this permit:

(a) Fitzroy Bay 400 m SE of outfall (R27:651.807)
(b) Fitzroy Bay 100 m SE of outfall (R27:650.808)
(c) Fitzroy Bay 100 m NW of outfall (R27:648.808)
(d) Fitzroy Bay 400 m NW of outfall (R27:647.810)
(e) Pencarrow Head at Lighthouse (R27:647.816)
(f) Inconstant Point (R27:650.825)
(g) Hinds Point (R27:655.839)

The water samples shall be analysed for faecal coliform and enterococci bacteria.

Condition 13 is not applicable for this reporting period.

Condition (14)

> The permit holder shall collect three replicate composite samples of the green-lipped mussel (*Perna canaliculus*) from near shore waters at each of the following locations during February or March of every second year, for the duration of this permit:
>
> (a) Fitzroy Bay 100m NW of outfall (R27:648.808)
> (b) Fitzroy Bay 400m MW of outfall (R27:647.810)
> (c) Pencarrow Head at Lighthouse (R27:647.816)
>
> The flesh of the mussel samples shall be analysed for arsenic and trace metal (cadmium, chromium, copper, mercury, lead, nickel and zinc) concentrations. The number and size (length) of the shellfish analysed in each sample shall be recorded and this record forwarded to the Wellington Regional Council together with the analytical results.

Condition 14 is not applicable for this reporting period.

Condition (17)

> The permit holder shall make the results of all monitoring undertaken, as required by conditions of this permit, available to the Manager, Environmental Regulation, Wellington Regional Council on request, including provision of results in electronic format, and a monitoring report for each three-month period ending March, June, September and December shall be forwarded to the Manager, Environmental Regulation, Wellington Regional Council within 30 days after the end of each three month period. The quarterly report shall include reasons for any non-compliance and subsequent actions undertaken to remedy the non-compliance.

All monitoring performed at the Seaview 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	WGN050359 [24539] Condition	Monitoring Frequency	Limits	Compliance
Carbonaceous Biochemical Oxygen Demand	9a	Daily	Geometric Mean < 50g/m^3 90th Percentile < 85g/m^3	Compliant
Suspended Solids	9b	Daily	Geometric Mean <530g/m^3 90th Percentile < 85g/m^3	Compliant
Faecal Coliforms	9c	Daily	Geometric Mean < 1000cfu/100mL 90th Percentile < 5000cfu/100mL	Non-compliant
Dissolved arsenic	11	Monthly	<0.115g/m^3	Compliant
Dissolved cadmium		Monthly	<0.035g/m^3	Compliant
Dissolved chromium		Monthly	<0.220g/m^3	Compliant
Dissolved copper		Monthly	<0.065g/m^3	Compliant
Dissolved nickel		Monthly	<0.350g/m^3	Compliant
Dissolved lead		Monthly	<0.220g/m^3	Compliant
Dissolved zinc		Monthly	<0.750g/m^3	Compliant
Dissolved mercury		Monthly	<0.005g/m^3	Compliant
Cyanide		Monthly	<0.200g/m^3	Compliant
Phenol		Monthly	<0.500g/m^3	Compliant
Coastal Water Monitoring	13	Each month between November and April (Inclusively)	N/A	NA
Coastal Green-lipped Mussel Sampling	14	Each month between February and March of every second year	N/A	NA

Table 22: Resource Consent Condition Compliance

WGN120142 [33406]

Condition (7)

Within two working days of the discharge stopping, the consent holder shall submit details of each discharge event in a suitable electronic format to Manager, Environmental Regulation, Wellington Regional Council at notifications@gw.govt.nz and Regional Public Health at healthprotection@huttvalleydhb.org.nz.
Details shall include but not be limited to:

- Consent reference WGN120142 [31523)
- Cause of the discharge
- Location of the discharge
- Start date and time of the discharge
- End date and time of the discharge
- Maximum flow (L/s) of the discharge
- Mean flow (L/s) of the discharge
- Daily volume (m^3) of the discharge
- Contact person for further information regarding the discharge
- Continuous flow records (m^3/s) during the discharge period as measured by the consent holder-as required by condition 10
- Rainfall in the catchment during the discharge period (mm) (if available)

Note: Local rainfall data (Hutt at Birch Lane monitoring site) can be downloaded from the Greater Wellington website http://graphs.gw.govt.nz/rainfall-2/

GWRC as regulator issued a please explain with regard to the discharge on 15 September. An investigation was undertaken and a response provided on 15 October 2024.

The following is a summary of the treated effluent discharge events that occurred at the Seaview WWTP to the Waiwhetu Stream.

Date	Duration	Discharge to Waiwhetu Stream		Flow in Waiwhetu Stream		Total Volume of Discharge	Consented	Cause
		Average Flow	Peak Flow	Average Flow	Peak Flow			
dd/mm/yyyy	hh:mm	L/s	L/s	m^3/s	m^3/s	m^3	Y/N	
1/07/2024	6:36	544	1247	1.6	9.9	12355	Y	Wet Weather
30/07/2024	80:00	186	1062	1.9	8.7	53602	Y	Wet Weather
11/08/2024	309:25	739	2454	1.5	18.8	822911	Y	Unplanned repairs to Outfall
26/08/2024	162	316	1617	2.8	20.2	184360	Y	Heavy rain
26/08/2024	00:35	1258	1617	5.1	5.1	3018	N	Power Outage
03/09/2024	35:05	383	1452	2.8	9.2	48517	Y	Wet Weather
15/09/2024	8:20	257	536	2.2	6.0	7714	Y	Effluent pumps shut-down
16/09/2024	49:10	404	1442	3	10	71538	Y	Wet Weather

Table 23: Discharge Events

Condition (9)

The consent holder shall monitor the flow rate, duration and total volume of all overflows discharged from the treatment plant into the Waiwhetu Stream and shall report the results to Wellington Regional Council in accordance with condition 25 of this consent, or upon request.

The flow monitoring devices shall be capable of measuring wastewater flows of magnitudes up to and beyond peak instantaneous flow rates, and calibrated and maintained to ensure that the measurement error is no more than +/-10%.

The flow rates, durations, and total volume of all overflow discharges have been listed under WGN120142 [33406], Condition 7 (above).

Condition (11)

The consent holder shall take a grab sample of treated wastewater as it leaves the treatment plant prior to entering the overflow pipe each day that a discharge occurs for more than one hour. The samples shall be analysed for parameters specified in condition 14.

The following is a summary of the treated wastewater samples prior to entering the overflow pipe each day that a discharge has occurred.

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen
dd/mm/yyyy	hh:mm	cfu/ 100mL	cfu/ 100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
2/07/2024	11:57	6000	50000	6000	68	0.748	15.5	0.01	0.1
30/07/2024	13:52	6000	4.00+5	6000	182	2.70	20.8	0.01	0.01
11/08/2024	09:45	6000	21000	6000	15	1.39	22.5	0.02	0.01
26/08/2024	09:48	6000	1.20+5	6000	52	0.254	8.00	0.01	0.01
04/09/2024	11:01	6000	62000	6000	43	0.075	9.14	0.01	0.01
15/09/2024	14:31	2300	1000	2300	17	0.393	15.9	0.01	0.01
16/09/2024	10:13	6000	24000	6000	17	0.584	17.6	0.01	0.01

Date	Time	H_2O Temp.	pH	Salinity	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	°C	--	g/m^3	--	--	--	--
02/07/2024	12:41	14.3	7.33	2	3.43	S	Moderate	High
03/07/2024	09:57	14.1	7.18	2	7.23	S	Strong	Low
04/07/2024	10:07	14.1	7.18	2	7.07	S	Light	Low
30/07/2024	13:52	14.8	7.08	2	2.14	S	Moderate	High
31/07/2024	10:49	13.4	7.24	2	3.27	S	Light	Mid
01/08/2024	12:09	13.4	7.05	2	4.26	S	Moderate	High
02/08/2024	11:01	13.1	7.11	2	3.81	S	Light	Low
03/08/2024	12:14	13.9	7.19	2	7.16	S	Light	Mid

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tides	
dd/mm/yyyy	hh:mm	°C	--	g/m^3	g/m^3	--	--	Height	Ebb / Flow
11/08/2024	09:45:00	16.2	6.82	2	4.76	N	Light	High	Ebb
12/08/2024	10:18:00	15.6	7.01	2	4.38	N	Moderate	High	Ebb
13/08/2024	10:30:00	14.9	6.95	2	4.18	S	Moderate	High	Flood
14/08/2024	10:30:00	14.6	7.1	2	3.76	N	Light	High	Flood
15/08/2024	09:59:00	15.2	7.33	2	3.66	N	Moderate	High	Flood
16/08/2024	10:30:00	16	7.43	2	3.99	N	Moderate	High	Flood
17/08/2024	10:00:00	15.9	7.15	2	3.89	N	Light	Mid	Flood
18/08/2024	10:12:00	15.5	7.01	2	3.97	NW	Moderate	Mid	Flood
19/08/2024	09:51:00	12.7	6.88	2	3.35	NW	Light	Low	Flood
20/08/2024	11:23:00	14	6.92	2	4.13	None	None	Low	Flood
21/08/2024	10:11:00	14.9	6.95	2	4.15	N	Light	Low	Ebb
22/08/2024	10:29:00	14.8	7.1	2	4.2	N	Light	Low	Ebb
23/08/2024	10:08:00	14.9	7.23	2	4.3	N	Strong	High	Ebb
24/08/2024	10:28:00	14.8	7.1	2	6.55	N	Light	High	Ebb

Date	Time	H_2O Temp.	pH	Salinity	Wind Direction	Wind Strength	Tides	
dd/mm/yyyy	hh:mm	°C	--	g/m^3	--	--	Height	Ebb / Flow
03/09/2024					NW	Strong	Low	Ebb→ Flow
04/09/2024					S	Moderate	Low	Ebb
05/09/2024					None	None	Low	Ebb
15/09/2024					N	Light	High	Ebb
16/09/2024					NW	Mod	Low	Flood
17/09/2024					S	Strong	Low	Flood
18/09/2024					S	Light	Low	Flood
19/09/2024					SW	Light	Low	Ebb

Table 24: Discharge Monitoring

Condition (12)

Each day a discharge occurs and one day after the cease of a discharge the consent holder shall take representative grab samples of Waiwhetu Stream water at ~~two levels in the water column, namely 0.5 centimetres and~~ 15 centimetres below the surface. The samples shall be collected from the true left bank of the Waiwhetu Stream at locations specified in Table 1.1: Table 1.1 Water quality monitoring locations		
Site	**NZTM**	
	Easting	**Northing**
Immediately upstream of the Port Road Bridge Adjacent to the Waiwhetu Pa site and downstream of the public walkway Immediately downstream of the Bell Road Bridge	1759345 1759539 1760431	5433136 5433352 5433523
The consent holder shall record the date, time (NZ standard time), weather (in particular wind direction and strength) and tidal conditions (low/medium/high and ebb/flood tide) at the stream mouth when the samples are taken. Where practicable, the sampling should be undertaken at least three hours after any ebb tide starts. The samples shall be analysed for parameters specified in condition 14. Note: This condition does not apply to overflows with a duration of less than one hour.		

The following is a summary of the requirements listed in resource consent WGN120142 [33406] for discharges.

Upstream of Port Road Bridge

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
02/07/2024	12:32	1000	1000	200	6	0.008	0.02	0.17	0.1	0.008	0.004
03/07/2024	10:16	280	1000	460	6	0.009	0.05	0.14	0.1	0.0005	0.003
04/07/2024	10:25	140	1000	90	6	0.04	0.16	0.58	0.01	0.001	0.027
30/07/2024	14:23	6000	4000	4000	3	0.015	0.03	0.24	0.01	0.0047	0.076
31/07/2024	11:10	900	1000	1000	3	0.002	0.08	0.11	0.01	0.0005	0.003
01/08/2024	12:27	340	1000	1000	3	0.004	0.01	0.18	0.01	0.0005	0.003
02/08/202	11:24	6000	400000	6000	12	0.007	2.55	0.32	0.01	0.0011	0.036
03/08/202	12:37	150	1000	140	1	0.016	0.02	0.23	0.01	0.0005	0.004

Waiwhetu Pa Site

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
02/07/2024	12:18	6000	15000	2000	6	0.072	1.84	0.24	0.1	0.0015	0.017
03/07/2024	10:07	5800	1000	3000	6	0.045	0.2	0.45	0.01	0.0032	0.019
04/07/2024	10:16	3400	2000	1700	6	0.037	0.18	0.57	0.01	0.0017	0.056
30/07/2024	14:05	6000	4000	4800	3	0.018	0.06	0.25	0.01	0.0046	0.078
31/07/2024	11:00	6000	7000	6000	5	0.005	1.71	0.18	0.01	0.0007	0.009
01/08/2024	12:19	3600	6000	5500	3	0.003	0.49	0.18	0.01	0.0005	0.005
02/08/202	11:13	3000	4000	4000	3	0.037	0.09	0.45	0.01	0.0018	0.067
03/08/202	12:26	240	1000	390	2	0.013	0.03	0.27	0.01	0.0005	0.005

Table 8: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	°C	--	g/m^3	g/m^3	--	--	--	--
02/07/2024	12:18	11.4	7.2	2	10.39	S	Moderate	High	Flood
03/07/2024	10:07	9.8	7.09	2	9.71	S	Strong	Low	Flood
04/07/2024	10:16	10.4	7.22	2	9.17	S	Light	Low	Flood
30/07/2024	14:05	12.4	7.1	2	10.18	S	Moderate	High	Ebb
31/07/2024	11:00	10.6	7.19	2	11.27	S	Light	Mid	Flood
01/08/2024	12:19	9.8	7.22	2	12.32	S	Moderate	High	Flood
02/08/202	11:13	10.3	6.89	2	10.91	S	Light	Low	Flood
03/08/202	12:26	11.6	6.97	2	9.24	S	Light	Mid	Flood

Table 9: Discharge Monitoring

Downstream of Bell Road Bridge

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/ 100mL	cfu/ 100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
02/07/2024	11:57	6000	5000	500	6	0.032	0.09	0.47	0.1	0.0041	0.052
03/07/2024	9:28	6000	1000	2000	6	0.022	0.13	0.97	0.01	0.0032	0.028
04/07/2024	9:41	6000	15000	5500	3	0.056	0.12	0.35	0.02	0.0076	0.064
30/07/2024	14:12	6000	10000	6000	8	0.012	0.01	0.25	0.01	0.0063	0.033
31/07/2024	10:26	5400	1000	2600	3	0.006	0.04	0.39	0.01	0.0036	0.045
01/08/2024	11:16	2200	2000	1600	3	0.031	0.06	0.54	0.01	0.0045	0.065
02/08/202	10:43	800	8000	1200	1	0.012	0.06	0.24	0.01	0.0012	0.038
03/08/202	11:53	2100	1000	240	1	0.078	0.07	1.07	0.01	0.0043	0.033

Table 10: Discharge Monitoring

Downstream of Bell Road Bridge

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/ 100mL	cfu/ 100mL	cfu/100mL	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³	g/m³
11/08/2024	10:42:00	1200	1000	520	1	0.033	0.18	0.39	<0.1	0.0012	0.032
12/08/2024	12:10:00	3600	12000	6000	4	0.392	5.8	0.11	<0.01	0.001	0.022
13/08/2024	12:30:00	2600	13000	6000	7	1.04	9.99	0.36	<0.01	0.0021	0.023
14/08/2024	12:15:00	4300	12000	6000	7	0.78	7.1	0.3	<0.01	0.0013	0.019
15/08/2024	09:27:00	1500	4000	3600	3	0.031	0.9	0.47	<0.01	0.0008	0.021
16/08/2024	10:06:00	1000	4000	5000	1	0.065	1.42	0.41	0.01	0.0007	0.024
17/08/2024	11:49:00	2600	17000	6000	2	0.137	2.3	0.44	<0.01	0.0016	0.036
18/08/2024	11:40:00	5200		8000	3	0.021	0.44	0.29	0.01	0.0032	0.05
19/08/2024	10:26:00	6000	4000	2400	6	0.03	0.03	0.68	<0.01	0.0023	0.036
20/08/2024	10:37:00	4000	3000	400	6	0.064	0.09	1.15	<0.01	0.0041	0.033
21/08/2024	09:39:00	340	1000	1100	6	0.034	0.12	0.51	0.01	0.0007	0.022
22/08/2024	09:53:00	250	2000	1600	6	0.038	0.14	0.56	0.01	0.0014	0.028
23/08/2024	09:38:00	3000	5000	6000	3	0.23	2.86	0.36	<0.01	0.001	0.028
24/08/2024	10:14:00	4200	3000	2400	3	0.022	0.16	0.26	<0.01	0.0022	0.035

Table 8: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	°C	--	g/m³	g/m³	--	--	--	--
11/08/2024	10:42:00	12.6	7.01	3	8.79	N	Light	High	Ebb
12/08/2024	12:10:00	12.8	6.97	8	9.16	N	Moderate	High	Ebb
13/08/2024	12:30:00	12.4	7.03	4	9.35	S	Moderate	High	Ebb
14/08/2024	12:15:00	14.1	7.01	5	11.87	N	Light	High	Ebb
15/08/2024	09:27:00	11.4	7.15	3	9.16	N	Moderate	High	Flood
16/08/2024	10:06:00	13.4	7.31	6	11.08	N	Moderate	High	Flood
17/08/2024	11:49:00	14.5	6.95	4	8.98	N	Light	Mid	Flood
18/08/2024	11:40:00	13.9	6.95	2	8.29	NW	Moderate	Mid	Flood
19/08/2024	10:26:00	9.8	6.61	2	11.1	NW	Light	Low	Flood
20/08/2024	10:37:00	12.3	7.14	2	8.75	None	None	Low	Flood
21/08/2024	09:39:00	10.2	7.1	2	9.49	N	Light	Low	Ebb
22/08/2024	09:53:00	11.1	7.28	2	8.75	N	Light	Mid	Ebb
23/08/2024	09:38:00	12.6	7.18	4	8.88	N	Strong	High	Ebb
24/08/2024	10:14:00	13.3	6.95	2	10.35	N	Light	High	Ebb

Table 9: Discharge Monitoring

Upstream of Port Road Bridge

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
11/08/2024	09:36:00	2200	6000	5500	6	0.602	7.74	0.01	<0.01	0.0011	0.008
12/08/2024	12:39:00	6000	20000	> 6000	14	1.09	14.00	0.01	<0.01	0.0014	0.011
13/08/2024	13:10:00	4000	20000	> 6000	12	1.49	15.70	0.01	<0.01	0.0013	0.006
14/08/2024	12:49:00	> 6000	66000	> 6000	17	1.55	14.70	0.01	<0.01	0.0013	0.009
15/08/2024	10:23:00	10000	40000	30000	12	0.78	9.49	0.01	<0.01	0.0011	0.007
16/08/2024	11:01:00	> 6000	200000	> 6000	6	1.29	15.80	0.01	<0.01	0.0013	0.008
17/08/2024	12:14:00	800	< 1000	2300	2	0.032	0.48	0.01	<0.01	<0.0005	0.002
18/08/2024	11:55:00	200	200	300	6	0.005	<0.01	0.01	<0.01	<0.0005	0.005
19/08/2024	10:52:00	> 6000	25000	> 6000	6	0.087	3.97	0.01	<0.01	0.0017	0.028
20/08/2024	11:55:00	> 6000	34000	> 6000	9	0.547	9.95	0.01	<0.01	0.0012	0.011
21/08/2024	11:04:00	> 6000	43000	> 6000	7	0.622	7.41	0.01	<0.01	<0.0005	0.014
22/08/2024	11:04:00	3400	19000	> 6000	9	0.445	6.51	0.01	<0.01	0.0012	0.018
23/08/2024	10:50:00	3000	30000	> 6000	8	0.559	7.61	0.01	<0.01	0.0012	0.018
24/08/2024	10:57:00	3000	1000	3200	3	0.037	0.23	0.01	0.01	0.0017	0.043

Table 4: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	°C	--	g/m^3	g/m^3	--	--	--	--
11/08/2024	09:36:00	12.3	7	6	10.67	N	Light	High	Flood
12/08/2024	12:39:00	13.3	9.29	6	7.02	N	Moderate	Mid	Ebb
13/08/2024	13:10:00	13.4	7.05	3	9.86	S	Moderate	High	Flood
14/08/2024	12:49:00	13	7.08	7	9.53	N	Light	High	Ebb
15/08/2024	10:23:00	12.8	7.91	9	10.49	N	Moderate	High	Flood
16/08/2024	11:01:00	14	7.43	10	9.8	N	Moderate	High	Flood
17/08/2024	12:14:00	12.14	7.11	7	11.89	N	Light	High	Flood
18/08/2024	11:55:00	11.6	7.1	3	11.69	NW	Moderate	Mid	Flood
19/08/2024	10:52:00	11	6.86	2	9.53	NW	Light	Low	Flood
20/08/2024	11:55:00	13.5	6.83	2	8.23	None	None	Low	Flood
21/08/2024	11:04:00	12.9	6.97	2	8.86	N	Light	Low	Ebb
22/08/2024	11:04:00	11.9	7.15	3	9.1	N	Light	Low	Ebb
23/08/2024	10:50:00	12.7	6.89	8	9.38	N	Strong	Mid	Ebb
24/08/2024	10:57:00	13.2	7.05	3	10.17	N	Light	High	Ebb

Table 5: Discharge Monitoring

Waiwhetu Pa Site

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
11/08/2024	10:55:00	700	2000	2000	2	0.132	1.98	0.01	<0.01	0.0008	0.01
12/08/2024	12:21:00	2800	14000	6000	7	0.645	9.32	0.01	<0.01	0.0012	0.011
13/08/2024	12:49:00	100	9000	6000	9	0.998	9.26	0.01	<0.01	0.0012	0.006
14/08/2024	12:28:00	6000	40000	6000	10	1.23	11	0.01	<0.01	0.0012	0.017
15/08/2024	10:11:00	7000	36000	20000	11	0.72	8.09	0.01	<0.01	0.001	0.008
16/08/2024	10:51:00	6000	200000	6000	6	0.746	10.4	0.01	<0.01	0.0013	0.009
17/08/2024	11:58:00	6000	34000	6000	14	0.655	7.54	0.01	<0.01	0.0006	0.005
18/08/2024	11:47:00	10000		30000	16	1.14	15.7	0.01	<0.01	0.0012	0.009
19/08/2024	10:10:00	6000	1000	2000	3	0.032	0.03	0.01	<0.01	0.0021	0.043
20/08/2024	11:42:00	2000	3000	2000	6	0.022	0.17	0.01	<0.01	0.001	0.028
21/08/2024	10:45:00	1200	4000	5300	4	0.096	0.84	0.01	<0.01	<0.0005	0.014
22/08/2024	10:45:00	2200	16000	6000	3	0.177	2.86	0.01	<0.01	0.0007	0.02
23/08/2024	10:37:00	3000	10000	6000	6	0.347	3.98	0.01	<0.01	0.001	0.02
24/08/2024	10:48:00	3400	1000	4500	3	0.042	0.28	0.01	<0.01	0.0019	0.045

Table 6: Discharge Monitoring

Results for the remaining discharges are provided in Appendix

Condition (14)

The samples collected in accordance with conditions 11 and 12 shall be analysed for:

- Faecal coliforms (cfu/100mL)
- Carbonaceous biochemical oxygen demand (cBODs) (g/m^3)
- Escherichia coli (no./100mL)
- Enterococci (no./100mL)
- Dissolved reactive phosphorus (g/m^3)
- Ammoniacal nitrogen (g/m^3)
- Nitrate nitrogen (g/m^3), and
- Nitrite nitrogen (g/m^3)

In addition, on each sampling occasion at the three locations along the Waiwhetu Stream as described in condition 12 the consent holder shall ensure the following in-situ measurements are recorded:

- Water temperature
- pH
- Salinity, and
- Dissolved oxygen.

An assessment of the above results shall be provided in the annual report required by condition 25. Copies of the water quality monitoring results shall be provided in both electronic and hardcopy format to the Manager, Environmental Regulation, Wellington Regional Council upon request.

The analytical results listed as requirements in this condition can be found under Condition 11 & 12.

Condition (15)

a) The discharge shall not result in any of the following effects on the water of the Waiwhetu Stream beyond the reasonable mixing zone boundary defined as 1 00m downstream of the Waiwhetu Stream outfall (i.e. immediately upstream of Port Road Bridge) and 100m upstream the Waiwhetu Stream outfall (i.e. adjacent to Lot 2 DP 421395):

   1) The production of any conspicuous oil or grease or grease films, scums or foams or floatable or suspended materials, or
   2) Any conspicuous change in colour or clarity
   3) Any emission of objectionable odour, or
   4) Any significant adverse effects on aquatic life

b) During each sampling event required by condition 12, the consent holder shall take photographs of the point of discharge and immediate receiving waters around the point of discharge to show the presence of any of effects (1-4) listed in condition 15 (a) and any obvious undesirable biological growths or visible die-offs.

   The consent holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of the photographs in the annual report required by condition 25 of this consent or upon request.

None of the effects listed above was observed in the receiving waters. Photos can be supplied if requested.

Condition (16)

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

- Name and address of complainant (if provided)
- Identification of the nature of the complaint
- Date and time of the complaint and of the alleged event
- Weather conditions at the time of the alleged event, and
- Any measures taken to address the cause of the complaint

The consent holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of any complaints relating to the exercise of this consent, within 24 hours of being received by the consent holder or the next working day.

Notification can be sent to the Manager, Environmental Regulation, Wellington Regional Council at notifications@gw.govt.nz. Please include the consent reference WGN120142 [31523] and the name and phone number of a contact person responsible for the discharge. The consent holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of the complaints record, in the annual report required by condition 25 of this consent.

There was one complaint in August regarding visible foam in the Waiwhetu Stream while the plant was discharging due to repairs on the Outfall. Particulars relating to the complainant are held and can be provided on request.

Condition (17)

a) Discharges associated with planned or unplanned repairs shall not result in any of the following effects on the water of the Wellington Harbour beyond 30m radius of each scour valve:

1) The production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials; or
2) Any conspicuous change in colour or clarity; or
3) Any emission of objectionable odour; or
4) Any significant adverse effects on aquatic life

b) During a scour valve discharge, the consent holder shall take photographs of a scour valve and immediate receiving waters around the point of discharge to show the presence of effects (1-4) listed in condition 17 (a) and any obvious undesirable biological growths or visible die-offs.

The consent holder shall identify and take photographs of a control site for comparison. This control site shall be at least 1 00m from any stormwater or stream outfall.

The consent holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of the photographs in the annual report required by condition 30 of this consent.

Photographs were taken and are available upon request. None of the effects listed above were observed during the discharges

Condition (18)

Pipeline leaks associated with a temporary repair and/or minor leaks that enter any water shall not result in any of the following effects on the waters of the Wellington Harbour beyond a 10 m radius of each discharge point:

- The production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials, or
- Any conspicuous change in colour or clarity, or
- Any emission of objectionable odour, or
- Any significant adverse effects on aquatic life

None of the effects listed above were observed.

Condition (19)

> During the summer bathing season (1 November to 30 April inclusive) the consent holder shall collect daily water samples 30m either side of a scour valve discharging to the sea. Samples shall continue to be collected for two days following the cease of the discharge or to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council.
>
> Samples shall be collected at 0-5 centimetres and 15 centimetres below the surface of the water. The samples shall be analysed for faecal coliform and enterococci bacteria.
>
> The consent holder shall record the date, time (NZ standard time), weather (in particular wind direction and strength), tidal conditions (low/medium/high) and location the samples are taken.
>
> Note: This monitoring is required to allow actions to be taken during the summer bathing season if the results don't meet Microbiological Water Quality Guidelines for Marine and Freshwater Recreational Areas (June 2003), including the possible requirement to close beaches. Note that no single water sample should contain greater than 140 enterococci/100mL to meet these water quality guidelines.

Not applicable in this reporting period.

Condition (22)

> The consent holder shall keep a record of any complaints received. The record shall contain the following details, where practicable:
>
> - Name and address of complainant (if provided)
> - Identification of the nature of the complaint
> - Date and time of the complaint and of the alleged event
> - Weather and tidal conditions at the time of the alleged event, and
> - Any measures taken to address the cause of the complaint
>
> The consent holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of any complaints relating to the exercise of this consent, within 24 hours of being received by the consent holder or the next working day.
>
> Notification can be sent to the Manager, Environmental Regulation, Wellington Regional Council at notifications@gw.govt.nz. Please include the consent reference WGN120142 [31524] and the name and phone number of a contact person responsible for the discharge.
>
> The consent holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of the complaints record, in the annual report required by condition 30 of this consent.

No complaints were received regarding this resource consent for the reporting period.

WGN120142 [33408]

Condition (11)

> Within two working days of the discharge stopping, the consent holder shall submit details of each discharge event in a suitable electronic format to Manager, Environmental Regulation, Wellington Regional Council at notifications@gw.govt.nz and rec-wq@gw.govt.nz and Regional Public Health at healthprotection@huttvalleydhb.org.nz.
>
> Details shall include but not be limited to:
>
> - Cause of the discharge (e.g. associated with planned or unplanned repairs)
> - Location of the discharge
> - Start date and time of the discharge
> - End date and time of the discharge
> - Maximum flow (L/s)
> - Mean flow (L/s)
> - Daily volume (m^3)
> - Contact person for further information regarding the discharge, and
> - Continuous flow records (m^3/s) during the discharge period as measured by the consent holder as required by condition 13

GWRC as regulator issued a please explain with regard to the discharge on 15 September. An investigation was undertaken and a response provided on 15 October 2024.

Date	Duration	Discharge to Waiwhetu Stream		Flow in Waiwhetu Stream		Total Volume of Discharge	Consented	Cause
		Average Flow	Peak Flow	Average Flow	Peak Flow			
dd/mm/yyyy	hh:mm	L/s	L/s	m^3/s	m^3/s	m^3	Y/N	
11/08/2024	309:25	739	2454	1.5	18.8	822911	Y	Unplanned repairs to Outfall
15/09/2024	8:20	257	536	2.2	6.0	7714	Y	Effluent pumps shut-down

Condition (14)

> The consent holder shall take a grab sample of treated wastewater as it leaves the treatment plant prior to entering the discharge pipe each day the discharge occurs. The samples shall be analysed for parameters specified in condition 16.

The following is a summary of the treated wastewater samples prior to entering the overflow pipe each day that a discharge has occurred.

Effluent

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/ 100mL	cfu/ 100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
11/08/2024	09:45:00	> 6000	21000	> 6000	15	1.39	22.5	0.01	<0.01	0.0022	0.011
12/08/2024	10:18:00	> 6000	24000	> 6000	25	1.59	23.8	0.01	<0.01	0.0021	0.009
13/08/2024	10:30:00	2000	40000	> 6000	19	2.42	24.2	0.01	<0.01	0.0025	0.014
14/08/2024	10:30:00	> 6000	220000	> 6000	26	2.82	26.2	0.01	<0.01	0.0015	0.008
15/08/2024	09:59:00	20000	200000	60000	24	2.32	25.3	0.01	<0.01	0.0021	0.015
16/08/2024	10:30:00	> 6000	140000	> 6000	14	1.94	28.6	0.01	<0.01	0.0023	0.011
17/08/2024	10:00:00	> 6000	52000	> 6000	38	2.27	26.9	0.01	<0.01	0.0029	0.009
18/08/2024	10:12:00	25000		20000	26	1.54	22.6	0.01	<0.01	0.0015	0.007
19/08/2024	09:51:00	> 6000	20000	> 6000	11	0.102	7.9	0.01	<0.01	0.0011	0.01
20/08/2024	11:23:00	> 6000	160000	> 6000	14	0.703	12.8	0.01	<0.01	0.0011	0.012
21/08/2024	10:11:00	> 6000	1000	> 6000	14	1.24	14.5	0.01	<0.01	0.0008	0.008
22/08/2024	10:29:00	> 6000	450000	> 6000	18	1.09	18.3	0.01	<0.01	0.0021	0.007
23/08/2024	10:08:00	6000	50000	> 6000	44	1.25	21.9	0.01	<0.01	0.0027	0.012
24/08/2024	10:28:00	> 6000	35000	> 6000	14	0.338	12.5	0.01	<0.01	0.0017	0.008

Table 2: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	°C	--	g/m^3	g/m^3	--	--	--	--
11/08/2024	09:45:00	16.2	6.82	2	4.76	N	Light	High	Ebb
12/08/2024	10:18:00	15.6	7.01	2	4.38	N	Moderate	High	Ebb
13/08/2024	10:30:00	14.9	6.95	2	4.18	S	Moderate	High	Flood
14/08/2024	10:30:00	14.6	7.1	2	3.76	N	Light	High	Flood
15/08/2024	09:59:00	15.2	7.33	2	3.66	N	Moderate	High	Flood
16/08/2024	10:30:00	16	7.43	2	3.99	N	Moderate	High	Flood
17/08/2024	10:00:00	15.9	7.15	2	3.89	N	Light	Mid	Flood
18/08/2024	10:12:00	15.5	7.01	2	3.97	NW	Moderate	Mid	Flood
19/08/2024	09:51:00	12.7	6.88	2	3.35	NW	Light	Low	Flood
20/08/2024	11:23:00	14	6.92	2	4.13	None	None	Low	Flood
21/08/2024	10:11:00	14.9	6.95	2	4.15	N	Light	Low	Ebb
22/08/2024	10:29:00	14.8	7.1	2	4.2	N	Light	Low	Ebb
23/08/2024	10:08:00	14.9	7.23	2	4.3	N	Strong	High	Ebb
24/08/2024	10:28:00	14.8	7.1	2	6.55	N	Light	High	Ebb

Table 3: Discharge Monitoring

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
d/m/y	hh:mm	cfu/ 100mL	cfu/ 100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
15/09/2024	14:06	2300	1000	2300	17	0.393	15.9	0.01	0.01	0.0012	0.006

Table 3: Discharge Monitoring

Date	Time	H2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	oC	--	g/m3	g/m3	--	--	--	--
15/09/2024	14:06	16.5	7.29	2	9.11	N	Light	High	Clear

Table 4: Discharge Monitoring

Condition (15)

The consent holder shall take grab samples of Waiwhetu Stream water three times per week (i.e. every Monday, Wednesday and Friday) and one day after the discharge has ceased at ~~two levels in the water column, namely 0·5 centimetres and~~ 15 centimetres below the surface. The samples shall be collected the locations specified in Table 1.1:
Table 1.1: Water quality monitoring locations

Site	**NZTM**	
On the True left bank of the Waiwhetu Stream at:	**Easting**	**Northing**
a) Immediately upstream of the Port Road Bridge b) Adjacent to the Waiwhetu Pa site and downstream of the public walkway c) Immediately downstream of the Bell Road Bridge	1759345 1759539 1760431	5433136 5433352 5433523
On the true left bank of the Hutt River at:		
50m upstream of the Waiwhetu Stream mouth 50m downstream of the Waiwhetu Stream mouth (1)	1759318 1759313	5433191 5433070

(1) The sample shall be taken immediately upstream of the stormwater drain located on the foreshore of the Hutt River.

The consent holder shall record the date, time (NZ standard time), weather (in particular wind direction and strength) and tidal conditions (low/medium/high and ebb/flood tide) at the stream mouth when the samples are taken. Where practicable, the sampling should be undertaken at least three hours after any ebb tide starts.

The samples shall be analysed for parameters specified in condition 16.

Note: Samples may not be able to be collected from the Hutt River following heavy rainfall events due to the health and safety risk.

Waiwhetu Stream - Upstream of Port Road Bridge

Date	**Time**	**Enterococci**	**E. Coli**	**Faecal Coliforms**	**$cBOD_5$**	**Dissolved Reactive Phosphorus**	**Ammoniacal Nitrogen**	**Nitrate Nitrogen**	**Nitrite Nitrogen**	**Dissolved Copper**	**Dissolved Zinc**
dd/mm/yyyy	**hh:mm**	**cfu/ 100mL**	**cfu/ 100mL**	**cfu/100mL**	**g/m^3**	**g/m^3**	**g/m^3**	**g/m^3**	**g/m^3**	**g/m^3**	**g/m^3**
11/08/2024	09:36:00	2200	6000	5500	6	0.602	7.74	0.01	<0.01	0.0011	0.008
12/08/2024	12:39:00	6000	20000	> 6000	14	1.09	14.00	0.01	<0.01	0.0014	0.011
13/08/2024	13:10:00	4000	20000	> 6000	12	1.49	15.70	0.01	<0.01	0.0013	0.006
14/08/2024	12:49:00	> 6000	66000	> 6000	17	1.55	14.70	0.01	<0.01	0.0013	0.009
15/08/2024	10:23:00	10000	40000	30000	12	0.78	9.49	0.01	<0.01	0.0011	0.007
16/08/2024	11:01:00	> 6000	200000	> 6000	6	1.29	15.80	0.01	<0.01	0.0013	0.008
17/08/2024	12:14:00	800	< 1000	2300	2	0.032	0.48	0.01	<0.01	<0.0005	0.002
18/08/2024	11:55:00	200	200	300	6	0.005	<0.01	0.01	<0.01	<0.0005	0.005
19/08/2024	10:52:00	> 6000	25000	> 6000	6	0.087	3.97	0.01	<0.01	0.0017	0.028
20/08/2024	11:55:00	> 6000	34000	> 6000	9	0.547	9.95	0.01	<0.01	0.0012	0.011
21/08/2024	11:04:00	> 6000	43000	> 6000	7	0.622	7.41	0.01	<0.01	<0.0005	0.014
22/08/2024	11:04:00	3400	19000	> 6000	9	0.445	6.51	0.01	<0.01	0.0012	0.018
23/08/2024	10:50:00	3000	30000	> 6000	8	0.559	7.61	0.01	<0.01	0.0012	0.018
24/08/2024	10:57:00	3000	1000	3200	3	0.037	0.23	0.01	0.01	0.0017	0.043

Table 4: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	°C	--	g/m^3	g/m^3	--	--	--	--
11/08/2024	09:36:00	12.3	7	6	10.67	N	Light	High	Flood
12/08/2024	12:39:00	13.3	9.29	6	7.02	N	Moderate	Mid	Ebb
13/08/2024	13:10:00	13.4	7.05	3	9.86	S	Moderate	High	Flood
14/08/2024	12:49:00	13	7.08	7	9.53	N	Light	High	Ebb
15/08/2024	10:23:00	12.8	7.91	9	10.49	N	Moderate	High	Flood
16/08/2024	11:01:00	14	7.43	10	9.8	N	Moderate	High	Flood
17/08/2024	12:14:00	12.14	7.11	7	11.89	N	Light	High	Flood
18/08/2024	11:55:00	11.6	7.1	3	11.69	NW	Moderate	Mid	Flood
19/08/2024	10:52:00	11	6.86	2	9.53	NW	Light	Low	Flood
20/08/2024	11:55:00	13.5	6.83	2	8.23	None	None	Low	Flood
21/08/2024	11:04:00	12.9	6.97	2	8.86	N	Light	Low	Ebb
22/08/2024	11:04:00	11.9	7.15	3	9.1	N	Light	Low	Ebb
23/08/2024	10:50:00	12.7	6.89	8	9.38	N	Strong	Mid	Ebb
24/08/2024	10:57:00	13.2	7.05	3	10.17	N	Light	High	Ebb

Table 5: Discharge Monitoring

Waiwhetu Pa Site

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/ 100mL	cfu/ 100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
11/08/2024	10:55:00	700	2000	2000	2	0.132	1.98	0.01	<0.01	0.0008	0.01
12/08/2024	12:21:00	2800	14000	6000	7	0.645	9.32	0.01	<0.01	0.0012	0.011
13/08/2024	12:49:00	100	9000	6000	9	0.998	9.26	0.01	<0.01	0.0012	0.006
14/08/2024	12:28:00	6000	40000	6000	10	1.23	11	0.01	<0.01	0.0012	0.017
15/08/2024	10:11:00	7000	36000	20000	11	0.72	8.09	0.01	<0.01	0.001	0.008
16/08/2024	10:51:00	6000	200000	6000	6	0.746	10.4	0.01	<0.01	0.0013	0.009
17/08/2024	11:58:00	6000	34000	6000	14	0.655	7.54	0.01	<0.01	0.0006	0.005
18/08/2024	11:47:00	10000		30000	16	1.14	15.7	0.01	<0.01	0.0012	0.009
19/08/2024	10:10:00	6000	1000	2000	3	0.032	0.03	0.01	<0.01	0.0021	0.043
20/08/2024	11:42:00	2000	3000	2000	6	0.022	0.17	0.01	<0.01	0.001	0.028
21/08/2024	10:45:00	1200	4000	5300	4	0.096	0.84	0.01	<0.01	<0.0005	0.014
22/08/2024	10:45:00	2200	16000	6000	3	0.177	2.86	0.01	<0.01	0.0007	0.02
23/08/2024	10:37:00	3000	10000	6000	6	0.347	3.98	0.01	<0.01	0.001	0.02
24/08/2024	10:48:00	3400	1000	4500	3	0.042	0.28	0.01	<0.01	0.0019	0.045

Table 6: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	°C	--	g/m^3	g/m^3	--	--	--	--
11/08/2024	10:55:00	12.1	7.06	5	12.07	N	Light	High	Ebb
12/08/2024	12:21:00	12.6	7.04	8	10.12	N	Moderate	High	Ebb
13/08/2024	12:49:00	13.4	7.12	4	11.96	S	Moderate	High	Flood
14/08/2024	12:28:00	14.4	7	8	11.89	N	Light	High	Ebb
15/08/2024	10:11:00	13.3	7.52	12	11.25	N	Moderate	High	Flood

16/08/2024	10:51:00	13.9	7.46	11	10.17	N	Moderate	High	Flood
17/08/2024	11:58:00	13.7	7.3	4	11.38	N	Light	Mid	Flood
18/08/2024	11:47:00	14.4	7.12	2	9.45	NW	Moderate	Mid	Flood
19/08/2024	10:10:00	9.9	6.93	2	10.65	NW	Light	Low	Flood
20/08/2024	11:42:00	11.2	6.82	2	8.74	None	None	Low	Flood
21/08/2024	10:45:00	11.2	6.84	2	8.72	N	Light	Low	Ebb
22/08/2024	10:45:00	11.8	6.94	3	8.65	N	Light	Low	Ebb
23/08/2024	10:37:00	12.4	6.89	9	9.65	N	Strong	High	Ebb
24/08/2024	10:48:00	13.8	6.99	3	10.32	N	Light	High	Ebb

Table 7: Discharge Monitoring

Downstream of Bell Road Bridge

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL	cfu/100mL	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3	g/m^3
11/08/2024	10:42:00	1200	1000	520	1	0.033	0.18	0.39	<0.1	0.0012	0.032
12/08/2024	12:10:00	3600	12000	6000	4	0.392	5.8	0.11	<0.01	0.001	0.022
13/08/2024	12:30:00	2600	13000	6000	7	1.04	9.99	0.36	<0.01	0.0021	0.023
14/08/2024	12:15:00	4300	12000	6000	7	0.78	7.1	0.3	<0.01	0.0013	0.019
15/08/2024	09:27:00	1500	4000	3600	3	0.031	0.9	0.47	<0.01	0.0008	0.021
16/08/2024	10:06:00	1000	4000	5000	1	0.065	1.42	0.41	0.01	0.0007	0.024
17/08/2024	11:49:00	2600	17000	6000	2	0.137	2.3	0.44	<0.01	0.0016	0.036
18/08/2024	11:40:00	5200		8000	3	0.021	0.44	0.29	0.01	0.0032	0.05
19/08/2024	10:26:00	6000	4000	2400	6	0.03	0.03	0.68	<0.01	0.0023	0.036
20/08/2024	10:37:00	4000	3000	400	6	0.064	0.09	1.15	<0.01	0.0041	0.033
21/08/2024	09:39:00	340	1000	1100	6	0.034	0.12	0.51	0.01	0.0007	0.022
22/08/2024	09:53:00	250	2000	1600	6	0.038	0.14	0.56	0.01	0.0014	0.028
23/08/2024	09:38:00	3000	5000	6000	3	0.23	2.86	0.36	<0.01	0.001	0.028
24/08/2024	10:14:00	4200	3000	2400	3	0.022	0.16	0.26	<0.01	0.0022	0.035

Table 8: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	°C	--	g/m^3	g/m^3	--	--	--	--
11/08/2024	10:42:00	12.6	7.01	3	8.79	N	Light	High	Ebb
12/08/2024	12:10:00	12.8	6.97	8	9.16	N	Moderate	High	Ebb
13/08/2024	12:30:00	12.4	7.03	4	9.35	S	Moderate	High	Ebb
14/08/2024	12:15:00	14.1	7.01	5	11.87	N	Light	High	Ebb
15/08/2024	09:27:00	11.4	7.15	3	9.16	N	Moderate	High	Flood
16/08/2024	10:06:00	13.4	7.31	6	11.08	N	Moderate	High	Flood
17/08/2024	11:49:00	14.5	6.95	4	8.98	N	Light	Mid	Flood
18/08/2024	11:40:00	13.9	6.95	2	8.29	NW	Moderate	Mid	Flood
19/08/2024	10:26:00	9.8	6.61	2	11.1	NW	Light	Low	Flood
20/08/2024	10:37:00	12.3	7.14	2	8.75	None	None	Low	Flood
21/08/2024	09:39:00	10.2	7.1	2	9.49	N	Light	Low	Ebb
22/08/2024	09:53:00	11.1	7.28	2	8.75	N	Light	Mid	Ebb
23/08/2024	09:38:00	12.6	7.18	4	8.88	N	Strong	High	Ebb
24/08/2024	10:14:00	13.3	6.95	2	10.35	N	Light	High	Ebb

Table 54: Discharge Monitoring

Upstream of Port Road Bridge

Table 5: Discharge Monitoring

Date	Time	Enterococci	E. Coli	Faecal Coliforms	cBOD5	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	hh:mm	cfu/100mL	cfu/100mL	cfu/100mL	g/m3	g/m3	g/m3	g/m3	g/m3	g/m3	g/m3
15/09/2024	14:42	1200	2000	1000	4	0.093	3.68	0.01	0.01	0.0012	0.0005

Table 6: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	**hh:mm**	**°C**	**--**	**g/m³**	**g/m³**	**--**	**--**	**--**	**--**
15/09/2024	14:42	16.1	7.06	2	10.27	N	Light	High	Clear

Waiwhetu Pa Site

Table 7: Discharge Monitoring

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	**hh:mm**	**cfu/100mL**	**cfu/100mL**	**cfu/100mL**	**g/m³**	**g/m³**	**g/m³**	**g/m³**	**g/m³**	**g/m³**	**g/m³**
15/09/2024	14:21	110	1000	260	8	0.393	15.9	0.01	0.01	0.0022	0.0004

Table 8: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	**hh:mm**	**°C**	**--**	**g/m³**	**g/m³**	**--**	**--**	**--**	**--**
15/09/2024	14:21	14.3	7.02	2	11.21	N	Light	High	Clear

Downstream of Bell Road Bridge

Table 9: Discharge Monitoring

Date	Time	Enterococci	E. Coli	Faecal Coliforms	$cBOD_5$	Dissolved Reactive Phosphorus	Ammoniacal Nitrogen	Nitrate Nitrogen	Nitrite Nitrogen	Dissolved Copper	Dissolved Zinc
dd/mm/yyyy	**hh:mm**	**cfu/100mL**	**cfu/100mL**	**cfu/100mL**	**g/m³**	**g/m³**	**g/m³**	**g/m³**	**g/m³**	**g/m³**	**g/m³**
15/09/2024	14:31	380	1000	1300	3	0.012	0.01	0.37	0.01	0.0022	0.036

Table 10: Discharge Monitoring

Date	Time	H_2O Temp.	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	**hh:mm**	**°C**	**--**	**g/m³**	**g/m³**	**--**	**--**	**--**	**--**
15/09/2024	14:31	15.1	6.92	2	8.83	N	Light	High	Clear

Condition (16)

> The samples collected for conditions 14 and 15 shall be analysed for parameters specified in Table 1.2. An assessment of the results shall be provided in the annual reports required by condition 35. Copies of the water quality monitoring results shall be provided in both electronic and hardcopy format to the Manager, Environmental Regulation, Wellington Regional Council upon request.

Refer above and Appendix

Condition (18)

> a) The discharge shall not result in any of the following effects on the water of the Waiwhetu Stream beyond the reasonable mixing zone boundary defined as 1 00m downstream of the Waiwhetu Stream outfall (i.e. immediately upstream of Port Road Bridge) and 100m upstream of the Waiwhetu Stream outfall (i.e. adjacent to Lot 2 DP 421395):
>
> 1) The production of any conspicuous oil or grease or grease films, scums or foams or floatable or suspended materials, or
> 2) Any conspicuous change in colour or clarity
> 3) Any emission of objectionable odour, or
> 4) Any significant adverse effects on aquatic life
>
> b) During each sampling event required by condition 15 the consent holder shall take photographs of the point of discharge and immediate receiving waters around the point of discharge to show the presence of any of effects (1-4) listed in condition 18 (a) and any obvious undesirable biological growths or visible die-offs.
>
> The consent holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of the photographs, in the annual report required by condition 35 of this consent or upon request.

None of the effects listed above was observed in the receiving waters. Photos can be supplied if requested.

Condition (26)

> The consent holder shall keep a record of any complaints received. The record shall contain the following details, where practicable:
>
> - Name and address of complainant (if provided
> - Identification of the nature of the complaint
> - Date and time of the complaint and of the alleged event
> - Weather conditions at the time of the alleged event, and
> - Any measures taken to address the cause of the complaint
>
> The consent holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of any complaints relating to the exercise of this consent, within 24 hours of being received by the consent holder or the next working day.
>
> Notification can be sent to the Manager, Environmental Regulation, Wellington Regional Council at notifications@gw.govt.nz. Please include the consent reference WGN120142[31528] and the name and phone number of a contact person responsible for the discharge.
>
> The consent holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of the complaints record, in the annual report required by condition 35 of this consent.

No complaints were received regarding this resource consent for the reporting period.

Condition (14)

Monitoring of the key parameters identified in condition 11 (f) above shall be carried out at an appropriate frequency for the type of air pollution control equipment adopted, if the monitoring frequency is not stated in condition 11 (f).

Continuous monitoring shall be used if it is considered appropriate for the type of control equipment adopted.

The results of the monitoring shall be forwarded to the Manager, Consents Management, Wellington Regional Council at three monthly intervals.

Day	July 2024			August 2024			September 2024		
	Back Pressure	Moisture Content	pH	Back Pressure	Moisture Content	pH	Back Pressure	Moisture Content	pH
	Pa	%	--	Pa	%	--	Pa	%	--
1	1166			1034			627		
2	1175	51.81	7.2	1184			917		
3	1202			1216	64.79	7.8	921	50.65	7.6
4	1128			1182			899	61.58	
5	1163			1021			508		
6	1161			1213			441	51.32	8.0
7	1132			1217			437		
8	1072			1173			432		
9	1220	58.75	7.7	623	56.88	7.3	426		
10	1228			556			195		
11	1120			1152			405		
12	1286			1064			390		
13	1281			1254			283		
14	1277			1265			223	55.73	7.9
15	1085	51.13	7.0	1140	52.03		183		
16	1281			1230	56.59	7.4	470		
17	1278			1239			137		
18	1174			1215			137		
19	1284			1179			133		
20	1212			1266			98	44.89	7.8
21	908	52.30	7.8	1252			95		
22	1028			1135			95		
23	1216			1269	69.72	7.1	145		
24	1178			1229			560		
25	1085			1186			550		
26	1266			1036			133	57.63	6.2
27	1269	52.16	6.8	1161			242		
28	1090			1349	55.26	6.8	267		
29	739			1156			270		
30	1250			720			119		
31	1262			655					

Table 56: Bio-filter Monitoring Parameters

The Biofilter media replacement was completed and back pressure is able to be read on SCADA as shown above.

Condition (16)

> The consent holder shall keep a record of any complaints received. The complaints shall be forwarded to the Manager, Consents Management within twenty-four hours of being received by the consent holder.
>
> The consent holder shall endeavour to record the complainants name, time of incident that caused the complaint, wind direction and speed,. and plant operating conditions at the time of the complaint.
>
> Any incident that could have caused or has caused adverse effects on the environment at or beyond the boundary of the site shall be notified to the Wellington Regional Council within twenty-four hour., This includes any incidents that result in complaints.

There were 68 odour complaints during the period. Details are recorded and available on request.

GWRC as regulator issued an email on 26 September seeking answers in response to questions regarding the odour complaints. This PX was superseded by a letter on 11 October and a response was provided on 31 October (after the end of the period).

An Abatement Notice (A1108) regarding Biofilter Upgrades was issued by GWRC on 15 August.

Condition (18)

> The opacity of all discharges from combustion appliances and any sludge dryer (excluding steam) shall not exceed 20%, except for a period of ten minutes for starting up from cold.

All exhaust from the sludge dryer is captured, condensed, and then discharged. This condition is not applicable.

Condition (22)

> Emissions from any combustion appliances, excluding stand-by equipment shall be tested for the following parameters annually:
>
> (a) Oxides of nitrogen
> (b) Carbon monoxide
> (c) Sulphur dioxide
>
> The testing shall be carried out by a standard method to the satisfaction of the Manager, Consents Management, Wellington Regional Council.

All exhaust from the sludge dryer is captured, condensed, and then discharged. This condition is not applicable.

APPENDIX I:
Shoreline Monitoring and Sampling Results

WGN120142 [33406] - Condition 15 (b)

During each sampling event required by condition 12, the consent holder shall take photographs of the point of discharge and immediate receiving waters around the point of discharge to show the presence of any of effects (1-4) listed in condition 15 (a) and any obvious undesirable biological growths or visible die-offs.

The consent holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council a copy of the photographs in the annual report required by condition 25 of this consent or upon request.

Photos for the 15 September event are shown below, and photos for other events are available on request.

Event Date	
1/07/2024	Photos are available on request
30/07/2024	Photos are available on request
11/08/2024	Photos are available on request
26/08/2024	Photos are available on request
26/08/2024	Photos are available on request
03/09/2024	Photos are available on request
15/09/2024	Photos are available on request
16/09/2024	Photos are available on request

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ANALYTICAL REPORT

REPORT CODE	AR-24-NW-055441-01	REPORT DATE	17/09/2024

Attention Veolia Water - Wellington
COA Email
Wastewater Treatment Plant
P.O. Box 14744
WELLINGTON 6041
Wellington
NEW ZEALAND
Phone (04) 388 0067
Email anz.eurofins.coa.all.groups@veolia.com

Contact for your orders:	Deb Bottrill	**Order code:**	EUNZWE-00204078
Contract:	Seaview Discharge Testing		
Submission Reference:	Seaview Discharge	**Purchase Order Number:**	7300394275

SAMPLE CODE	812-2024-00130464		
Sampling Point code:	SEA_DIS_WAIWHETU	**Sampling Point name:**	Effluent Discharge to Waiwhetu Stream
Reception Date & Time:	07/09/2024 11:50		
Analysis Started on:	07/09/2024	**Analysis Ending Date:**	17/09/2024
Product Type	Surface water	**Sampled Date & Time**	07/09/2024 10:30
Sampler(s)	Marty		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	15.8	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	37	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0032	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	1.03	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.010	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	>6000	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	1.10×10^4	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	>6000	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
Ⓟ **NW388**	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	4.27	NTU	0.01

SAMPLE CODE	812-2024-00130465		
Sampling Point code:	SEA_DIS_UP_PORTROAD	**Sampling Point name:**	Upstream of Port Road Bridge
Reception Date & Time:	07/09/2024 11:50		
Analysis Started on:	07/09/2024	**Analysis Ending Date:**	14/09/2024
Product Type	Surface water	**Sampled Date & Time**	07/09/2024 11:15

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.01	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	2	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0009	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.006	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.025	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	2100	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	600	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.50	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
Ⓟ NW388	**Salinity**			
	Salinity	2	ppt	2
NW212	**Turbidity**			
	Turbidity	2.73	NTU	0.01

SAMPLE CODE	812-2024-00130466		
Sampling Point code:	SEA_DIS_WAIWHETU_PA	**Sampling Point name:**	Waiwhetu Pa
Reception Date & Time:	07/09/2024 11:50		
Analysis Started on:	07/09/2024	**Analysis Ending Date:**	14/09/2024
Product Type	Surface water	**Sampled Date & Time**	07/09/2024 10:51

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	<0.01	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	4	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0008	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.006	mg/l	0.002
NW125	**Dissolved Zinc**			

		RESULTS		LOQ
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.021	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	1300	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	440	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.51	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	2.39	NTU	0.01

SAMPLE CODE	812-2024-00130467		
Sampling Point code:	SEA_DIS_DOWN_BELLRD	**Sampling Point name:**	Downstream of the Bell Road Bridge
Reception Date & Time:	07/09/2024 11:50		
Analysis Started on:	07/09/2024	**Analysis Ending Date:**	15/09/2024
Product Type	Surface water	**Sampled Date & Time**	07/09/2024 10:42

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.04	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<3	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0005	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.008	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.022	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	2200	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	2000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	1800	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.61	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	2.32	NTU	0.01

urofins ELS Limited
5 Port Road
aaview
ower Hutt
/ellington 5010
EW ZEALAND

Phone +64 4 576 5016
www.eurofins.co.nz

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ANALYTICAL REPORT

REPORT CODE	AR-24-NW-057048-01	REPORT DATE	24/09/2024

Attention Veolia Water - Wellington
COA Email
Wastewater Treatment Plant
P.O. Box 14744
WELLINGTON 6041
Wellington
NEW ZEALAND
Phone (04) 388 0087
Email anz.eurofins.coa.all.groups@veolia.com

Contact for your orders:	Deb Bottrill	**Order code:**	EUNZWE-00205358
Contract:	Seaview Discharge Testing		
Submission Reference:	Seaview Discharge Day 3	**Purchase Order Number:**	7300098813

SAMPLE CODE	812-2024-00134397		
Sample Name	Bell Road		
Sample Reference	Downstream of Bell Road Bridge		
Sampling Point code:	SEA_DIS_DOWN_BELLRD	**Sampling Point name:**	Downstream of the Bell Road Bridge
Reception Date & Time:	17/09/2024 12:30		
Analysis Started on:	17/09/2024	**Analysis Ending Date:**	23/09/2024
Product Type	Surface Water	**Sampled Date & Time**	17/09/2024 11:15
Sampler(s)	GF		

		RESULTS		LOQ
NW078	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.04	mg/l	0.01
NW018	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<6	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0027	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.019	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.038	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	>6000	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	5000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	5500	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.52	mg/l	0.01
NW028	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
@NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	18.5	NTU	0.01

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85 Port Road
Seaview
Lower Hutt
Wellington 5010
NEW ZEALAND

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	RESULTS		LOQ

SAMPLE CODE	812-2024-00134398		
Sample Name	Waiwhetu Pa		
Sample Reference	Waiwhetu Pa		
Sampling Point code:	SEA_DIS_WAIWHETU_PA	**Sampling Point name:**	Waiwhetu Pa
Reception Date & Time:	17/09/2024 12:30		
Analysis Started on:	17/09/2024	**Analysis Ending Date:**	23/09/2024
Product Type	Surface Water	**Sampled Date & Time**	17/09/2024 12:14
Sample(s)	GF		

	RESULTS		LOQ
MW075	**Ammonia Nitrogen**		
	Ammonia nitrogen 0.06	mg/l	0.01
MW015	**Carbonaceous Biochemical Oxygen Demand**		
	Carbonaceous Biochemical Oxygen Demand <6	mg/l	1
MW108	**Dissolved Copper**		
	Copper (Cu) 0.0030	mg/l	0.0005
MW073	**Dissolved Reactive Phosphorus**		
	Phosphorus 0.026	mg/l	0.002
MW125	**Dissolved Zinc**		
	Zinc (Zn) 0.059	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**		
	Enterococcus Species >6000	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**		
	Escherichia coli 10000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**		
	Faecal Coliforms >6000	cfu/100 ml	10
MW010	**Nitrate-N**		
	Nitrate-N 0.45	mg/l	0.01
MW008	**Nitrite-N**		
	Nitrite Nitrogen as N <0.01	mg/l	0.01
@MW388	**Salinity**		
	Salinity <2	ppt	2
MW212	**Turbidity**		
	Turbidity 26.5	NTU	0.01

SAMPLE CODE	812-2024-00134399		
Sample Name	Port Road		
Sample Reference	Upstream of Port Road Bridge		
Sampling Point code:	SEA_DIS_UP_PORTROAD	**Sampling Point name:**	Upstream of Port Road Bridge
Reception Date & Time:	17/09/2024 12:30		
Analysis Started on:	17/09/2024	**Analysis Ending Date:**	24/09/2024
Product Type	Surface Water	**Sampled Date & Time**	17/09/2024 12:24
Sample(s)	GF		

	RESULTS		LOQ
MW075	**Ammonia Nitrogen**		
	Ammonia nitrogen 5.07	mg/l	0.01
MW015	**Carbonaceous Biochemical Oxygen Demand**		

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85 Port Road
Seaview
Lower Hutt
Wellington 5010
NEW ZEALAND

Phone +64 4 576 5018
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		RESULTS		LOQ
MW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	8	mg/l	1
MW108	**Dissolved Copper**			
	Copper (Cu)	0.0018	mg/l	0.0005
MW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.016	mg/l	0.002
MW125	**Dissolved Zinc**			
	Zinc (Zn)	0.030	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	>6000	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	10000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	>6000	cfu/100 ml	10
MW010	**Nitrate-N**			
	Nitrate-N	0.26	mg/l	0.01
MW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
@MW388	**Salinity**			
	Salinity	<2	ppt	2
MW212	**Turbidity**			
	Turbidity	16.5	NTU	0.01

SAMPLE CODE	812-2024-00134400		
Sample Name	Discharge		
Sample Reference	Effluent Discharge to Waiwhetu Stream		
Sampling Point code:	SEA_DIS_WAIWHETU	**Sampling Point name:**	Effluent Discharge to Waiwhetu Stream
Reception Date & Time:	17/09/2024 12:30		
Analysis Started on:	17/09/2024	**Analysis Ending Date:**	23/09/2024
Product Type	Surface Water	**Sampled Date & Time**	17/09/2024 12:03
Sample(s)	GF		

		RESULTS		LOQ
MW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	11.2	mg/l	0.01
MW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	18	mg/l	1
MW108	**Dissolved Copper**			
	Copper (Cu)	0.0014	mg/l	0.0005
MW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.022	mg/l	0.002
MW125	**Dissolved Zinc**			
	Zinc (Zn)	0.009	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	>6000	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	16000	cfu/100 ml	1000

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65 Port Road
Seaview
Lower Hutt
Wellington 5010
NEW ZEALAND

Phone +64 4 576 5016
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		RESULTS		LOQ
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	>6000	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
@NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	15.1	NTU	0.01

ANALYTICAL REPORT

REPORT CODE **AR-24-NW-057114-01** REPORT DATE **24/09/2024**

Attention Veolia Water - Wellington
COA Email
Wastewater Treatment Plant
P.O. Box 14744
WELLINGTON 6041
Wellington
NEW ZEALAND
Phone (04) 388 0067
Email anz.eurofins.coa.all.groups@veolia.com

Contact for your orders: Deb Bottrill **Order code:** EUNZWE-00205357
Contract: Seaview Discharge Testing
Submission Reference: Seaview Discharge Day 2 **Purchase Order Number:** 7300398813

SAMPLE CODE **812-2024-00134393**

Sample Name Bell Road
Sample Reference Downstream of Bell Road Bridge
Sampling Point code: SEA_DIS_DOWN_BELLRD **Sampling Point name:** Downstream of the Bell Road Bridge
Reception Date & Time: 16/09/2024 10:45
Analysis Started on: 16/09/2024 **Analysis Ending Date:** 23/09/2024
Product Type Surface Water **Sampled Date & Time** 16/09/2024 09:43
Sampler(s) GF

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.05	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<3	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0072	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.028	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.037	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	>6000	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	16000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	>6000	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.25	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
ⓘNW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	8.85	NTU	0.01

	RESULTS		LOQ

SAMPLE CODE	812-2024-00134394		
Sample Name	Waiwhetu Pa		
Sample Reference	Waiwhetu Pa		
Sampling Point code:	SEA_DIS_WAIWHETU_PA	**Sampling Point name:**	Waiwhetu Pa
Reception Date & Time:	16/09/2024 10:45		
Analysis Started on:	16/09/2024	**Analysis Ending Date:**	23/09/2024
Product Type	Surface Water	**Sampled Date & Time**	16/09/2024 10:23
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.07	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<6	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0010	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.021	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.029	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	2800	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	3000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	3000	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.43	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
①**NW388**	**Salinity**			
	Salinity	3	ppt	2
NW212	**Turbidity**			
	Turbidity	11.3	NTU	0.01

SAMPLE CODE	812-2024-00134395		
Sample Name	Port Road		
Sample Reference	Upstream of Port Road Bridge		
Sampling Point code:	SEA_DIS_UP_PORTROAD	**Sampling Point name:**	Upstream of Port Road Bridge
Reception Date & Time:	16/09/2024 10:45		
Analysis Started on:	16/09/2024	**Analysis Ending Date:**	23/09/2024
Product Type	Surface Water	**Sampled Date & Time**	16/09/2024 10:33
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.09	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			

		RESULTS		LOQ
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<6	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0008	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.016	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.010	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	1100	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	1200	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.26	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	0.02	mg/l	0.01
①NW388	**Salinity**			
	Salinity	5	ppt	2
NW212	**Turbidity**			
	Turbidity	2.61	NTU	0.01

SAMPLE CODE	**812-2024-00134396**		
Sample Name	Discharge		
Sample Reference	Effluent Discharge to Waiwhetu Stream		
Sampling Point code:	SEA_DIS_WAIWHETU	**Sampling Point name:**	Effluent Discharge to Waiwhetu Stream
Reception Date & Time:	16/09/2024 10:45		
Analysis Started on:	16/09/2024	**Analysis Ending Date:**	24/09/2024
Product Type	Surface Water	**Sampled Date & Time**	16/09/2024 10:13
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	17.6	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	17	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0014	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0..584	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.008	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	>6000	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	24000	cfu/100 ml	1000

		RESULTS		LOQ
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	>6000	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.01	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
①NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	6.69	NTU	0.01

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ANALYTICAL REPORT

REPORT CODE	AR-24-NW-057113-01	REPORT DATE	24/09/2024

Attention Veolia Water - Wellington
COA Email
Wastewater Treatment Plant
P.O. Box 14744
WELLINGTON 6041
Wellington
NEW ZEALAND
Phone (04) 388 0067
Email anz.eurofins.coa.all.groups@veolia.com

Contact for your orders:	Deb Bottrill	**Order code:**	EUNZWE-00205351
Contract:	Seaview Discharge Testing		
Submission Reference:	Seaview Discharge Day 1	**Purchase Order Number:**	7300398813

SAMPLE CODE	812-2024-00134356		
Sample Name	Bell Road		
Sample Reference	Downstream of Bell Road Bridge		
Sampling Point code:	SEA_DIS_DOWN_BELLRD	**Sampling Point name:**	Downstream of the Bell Road Bridge
Reception Date & Time:	15/09/2024 15:00		
Analysis Started on:	15/09/2024	**Analysis Ending Date:**	23/09/2024
Product Type	Surface Water	**Sampled Date & Time**	15/09/2024 14:06
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	<0.01	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<3	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0022	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.012	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.036	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	380	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	1300	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.37	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
ⓘNW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	4.90	NTU	0.01

	RESULTS		LOQ

SAMPLE CODE	812-2024-00134357		
Sample Name	Waiwhetu Pa		
Sample Reference	Waiwhetu Pa		
Sampling Point code:	SEA_DIS_WAIWHETU_PA	**Sampling Point name:**	Waiwhetu Pa
Reception Date & Time:	15/09/2024 15:00		
Analysis Started on:	15/09/2024	**Analysis Ending Date:**	23/09/2024
Product Type	Surface Water	**Sampled Date & Time**	15/09/2024 14:42
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.02	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	8	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	<0.0005	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.002	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.004	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	110	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	260	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.18	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
①**NW388**	**Salinity**			
	Salinity	2	ppt	2
NW212	**Turbidity**			
	Turbidity	3.04	NTU	0.01

SAMPLE CODE	812-2024-00134358		
Sample Name	Port Road		
Sample Reference	Upstream of Port Road Bridge		
Sampling Point code:	SEA_DIS_UP_PORTROAD	**Sampling Point name:**	Upstream of Port Road Bridge
Reception Date & Time:	15/09/2024 15:00		
Analysis Started on:	15/09/2024	**Analysis Ending Date:**	24/09/2024
Product Type	Surface Water	**Sampled Date & Time**	15/09/2024 14:21
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	3.68	mg/l	0.01

		RESULTS		LOQ
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	4	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	<0.0005	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.093	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.003	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	1200	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	2000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	3500	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.13	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
①NW388	**Salinity**			
	Salinity	2	ppt	2
NW212	**Turbidity**			
	Turbidity	3.42	NTU	0.01

SAMPLE CODE	**812-2024-00134359**		
Sample Name	Discharge		
Sample Reference	Effluent Discharge to Waiwhetu Stream		
Sampling Point code:	SEA_DIS_WAIWHETU	**Sampling Point name:**	Effluent Discharge to Waiwhetu Stream
Reception Date & Time:	15/09/2024 15:00		
Analysis Started on:	15/09/2024	**Analysis Ending Date:**	24/09/2024
Product Type	Surface Water	**Sampled Date & Time**	15/09/2024 14:31
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	15.9	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	17	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0012	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.393	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.006	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	2300	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	1000	cfu/100 ml	1000

		RESULTS		LOQ
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	2300	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
①NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	4.53	NTU	0.01

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ANALYTICAL REPORT

REPORT CODE	AR-24-NW-057952-01	REPORT DATE	27/09/2024

Attention Veolia Water - Wellington
COA Email
Wastewater Treatment Plant
P.O. Box 14744
WELLINGTON 6041
Wellington
NEW ZEALAND
Phone (04) 388 0067
Email anz.eurofins.coa.all.groups@veolia.com

Contact for your orders:	Deb Bottrill	**Order code:**	EUNZWE-00205840
Contract:	Seaview Discharge Testing		
Submission Reference:	Seaview Discharge Day 4	**Purchase Order Number:**	7300398813

SAMPLE CODE	812-2024-00135717		
Sample Name	Bell Road		
Sample Reference	Downstream of Bell Road Bridge		
Sampling Point code:	SEA_DIS_DOWN_BELLRD	**Sampling Point name:**	Downstream of the Bell Road Bridge
Reception Date & Time:	18/09/2024 11:35		
Analysis Started on:	18/09/2024	**Analysis Ending Date:**	24/09/2024
Product Type	Surface Water	**Sampled Date & Time**	18/09/2024 10:41
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.07	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<3	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0039	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.082	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.031	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	700	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	130	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	1.03	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
ⓘNW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	4.47	NTU	0.01

	RESULTS		LOQ

SAMPLE CODE	812-2024-00135718		
Sample Name	Waiwhetu Pa		
Sample Reference	Waiwhetu Pa		
Sampling Point code:	SEA_DIS_WA/WHETU_PA	**Sampling Point name:**	Waiwhetu Pa
Reception Date & Time:	18/09/2024 11:35		
Analysis Started on:	18/09/2024	**Analysis Ending Date:**	24/09/2024
Product Type	Surface Water	**Sampled Date & Time**	18/09/2024 11:14

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.15	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<6	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0011	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.038	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.010	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	1100	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	280	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.55	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
Ⓓ NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	156	NTU	0.01

SAMPLE CODE	812-2024-00135719		
Sample Name	Port Road		
Sample Reference	Upstream of Port Road Bridge		
Sampling Point code:	SEA_DIS_UP_PORTROAD	**Sampling Point name:**	Upstream of Port Road Bridge
Reception Date & Time:	18/09/2024 11:35		
Analysis Started on:	18/09/2024	**Analysis Ending Date:**	24/09/2024
Product Type	Surface Water	**Sampled Date & Time**	18/09/2024 11:23
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.75	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<6	mg/l	1

		RESULTS		LOQ
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0015	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.048	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.027	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	1800	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	1800	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.58	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
ⓓNW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	14.4	NTU	0.01

SAMPLE CODE	812-2024-00135720		
Sample Name	Discharge		
Sample Reference	Effluent Discharge to Waiwhetu Stream		
Sampling Point code:	SEA_DIS_WAIWHETU	**Sampling Point name:**	Effluent Discharge to Waiwhetu Stream
Reception Date & Time:	18/09/2024 11:35		
Analysis Started on:	18/09/2024	**Analysis Ending Date:**	27/09/2024
Product Type	Surface Water	**Sampled Date & Time**	18/09/2024 11:01
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.25	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	11	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0016	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	5.02	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.006	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	3200	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	13000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	>6000	cfu/100 ml	10

Eurofins ELS Limited
85 Port Road
Seaview
Lower Hutt
Wellington 5010
NEW ZEALAND

Phone +64 4 576 5016
www.eurofins.co.nz

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		RESULTS		LOQ
NW010	**Nitrate-N**			
	Nitrate-N	0.01	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
ⓓNW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	4.68	NTU	0.01

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ANALYTICAL REPORT

REPORT CODE	AR-24-NW-057963-01	REPORT DATE	27/09/2024

Attention Veolia Water - Wellington
COA Email
Wastewater Treatment Plant
P.O. Box 14744
WELLINGTON 6041
Wellington
NEW ZEALAND
Phone (04) 388 0067
Email anz.eurofins.coa.all.groups@veolia.com

Contact for your orders:	Deb Bottrill	**Order code:**	EUNZWE-00206841
Contract:	Seaview Discharge Testing		
Submission Reference:	Seaview Discharge Day 5	**Purchase Order Number:**	7300398813

SAMPLE CODE	812-2024-00135721		
Sample Name	Bell Road		
Sample Reference	Downstream of Bell Road Bridge		
Sampling Point code:	SEA_DIS_DOWN_BELLRD	**Sampling Point name:**	Downstream of the Bell Road Bridge
Reception Date & Time:	19/09/2024 12:30		
Analysis Started on:	19/09/2024	**Analysis Ending Date:**	25/09/2024
Product Type	Surface Water	**Sampled Date & Time**	19/09/2024 10:30
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.05	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<3	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0039	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.062	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.023	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	1200	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	210	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.99	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
ⓘ NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	10.1	NTU	0.01

Eurofins ELS Limited
85 Port Road
Seaview
Lower Hutt
Wellington 5010
NEW ZEALAND

Phone +64 4 576 5016
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	RESULTS		LOQ

SAMPLE CODE	812-2024-00135722		
Sample Name	Waiwhetu Pa		
Sample Reference	Waiwhetu Pa		
Sampling Point code:	SEA_DIS_WAIWHETU_PA	**Sampling Point name:**	Waiwhetu Pa
Reception Date & Time:	19/09/2024 12:30		
Analysis Started on:	19/09/2024	**Analysis Ending Date:**	25/09/2024
Product Type	Surface Water	**Sampled Date & Time**	19/09/2024 11:38
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.17	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<6	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0009	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.046	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.011	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	700	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	1300	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.50	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
Ⓓ **NW388**	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	109	NTU	0.01

SAMPLE CODE	812-2024-00135723		
Sample Name	Port Road		
Sample Reference	Upstream of Port Road Bridge		
Sampling Point code:	SEA_DIS_UP_PORTROAD	**Sampling Point name:**	Upstream of Port Road Bridge
Reception Date & Time:	19/09/2024 12:30		
Analysis Started on:	19/09/2024	**Analysis Ending Date:**	24/09/2024
Product Type	Surface Water	**Sampled Date & Time**	19/09/2024 11:51
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.07	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			

		RESULTS		LOQ
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<3	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0010	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.025	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.023	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	480	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	600	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.55	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
ⓘNW388	**Salinity**			
	Salinity	2	ppt	2
NW212	**Turbidity**			
	Turbidity	12.1	NTU	0.01

SAMPLE CODE	812-2024-00135724		
Sample Name	Discharge		
Sample Reference	Effluent Discharge to Waiwhetu Stream		
Sampling Point code:	SEA_DIS_WAIWHETU	**Sampling Point name:**	Effluent Discharge to Waiwhetu Stream
Reception Date & Time:	19/09/2024 12:30		
Analysis Started on:	19/09/2024	**Analysis Ending Date:**	27/09/2024
Product Type	Surface Water	**Sampled Date & Time**	19/09/2024 11:20

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	13.4	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	13	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0013	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.690	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.004	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	2600	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	8000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			

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Wellington 5010
NEW ZEALAND
Phone +64 4 576 5016
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		RESULTS		LOQ
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	4200	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
ⓘNW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	2.20	NTU	0.01

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ANALYTICAL REPORT

REPORT CODE	AR-24-NW-058132-01	REPORT DATE	27/09/2024

Attention Veolia Water - Wellington
COA Email
Wastewater Treatment Plant
P.O. Box 14744
WELLINGTON 6041
Wellington
NEW ZEALAND
Phone (04) 388 0067
Email anz.eurofins.coa.all.groups@veolia.com

Contact for your orders:	Deb Bottrill	**Order code:**	EUNZWE-00206383
Contract:	Seaview Discharge Testing		
Submission Reference:	Seaview Discharge Day 6	**Purchase Order Number:**	7300398813

SAMPLE CODE	812-2024-00137339		
Sample Name	Bell Road		
Sample Reference	Downstream of Bell Road Bridge		
Sampling Point code:	SEA_DIS_DOWN_BELLRD	**Sampling Point name:**	Downstream of the Bell Road Bridge
Reception Date & Time:	20/09/2024 11:10		
Analysis Started on:	20/09/2024	**Analysis Ending Date:**	27/09/2024
Product Type	Surface Water	**Sampled Date & Time**	20/09/2024 10:03
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.06	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<3	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0012	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.006	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.022	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	200	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	800	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.65	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
Ⓓ NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	7.70	NTU	0.01

	RESULTS		LOQ

SAMPLE CODE	812-2024-00137340		
Sample Name	Waiwhetu Pa		
Sample Reference	Waiwhetu Pa		
Sampling Point code:	SEA_DIS_WAIWHETU_PA	**Sampling Point name:**	Waiwhetu Pa
Reception Date & Time:	20/09/2024 11:10		
Analysis Started on:	20/09/2024	**Analysis Ending Date:**	27/09/2024
Product Type	Surface Water	**Sampled Date & Time**	20/09/2024 10:44
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.09	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<6	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0008	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.023	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.014	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	500	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	800	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.50	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
Ⓘ NW388	**Salinity**			
	Salinity	2	ppt	2
NW212	**Turbidity**			
	Turbidity	117	NTU	0.01

SAMPLE CODE	812-2024-00137341		
Sample Name	Port Road		
Sample Reference	Upstream of Port Road Bridge		
Sampling Point code:	SEA_DIS_UP_PORTROAD	**Sampling Point name:**	Upstream of Port Road Bridge
Reception Date & Time:	20/09/2024 11:10		
Analysis Started on:	20/09/2024	**Analysis Ending Date:**	27/09/2024
Product Type	Surface Water	**Sampled Date & Time**	20/09/2024 10:53
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.06	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			

		RESULTS		LOQ
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	<3	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0010	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	0.012	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.020	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	250	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1000	cfu/100 ml	1000
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	300	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	0.48	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
(D)NW388	**Salinity**			
	Salinity	2	ppt	2
NW212	**Turbidity**			
	Turbidity	4.89	NTU	0.01

SAMPLE CODE	812-2024-00137342		
Sample Name	Discharge		
Sample Reference	Effluent Discharge to Waiwhetu Stream		
Sampling Point code:	SEA_DIS_WAIWHETU	**Sampling Point name:**	Effluent Discharge to Waiwhetu Stream
Reception Date & Time:	20/09/2024 11:10		
Analysis Started on:	20/09/2024	**Analysis Ending Date:**	27/09/2024
Product Type	Surface Water	**Sampled Date & Time**	20/09/2024 10:26
Sampler(s)	GF		

		RESULTS		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	17.1	mg/l	0.01
NW016	**Carbonaceous Biochemical Oxygen Demand**			
	Carbonaceous Biochemical Oxygen Demand	14	mg/l	1
NW108	**Dissolved Copper**			
	Copper (Cu)	0.0013	mg/l	0.0005
NW673	**Dissolved Reactive Phosphorus**			
	Phosphorus	1.25	mg/l	0.002
NW125	**Dissolved Zinc**			
	Zinc (Zn)	0.008	mg/l	0.002
ZM0U1	**Enumeration of Enterococci by Membrane Filtration**			
	Enterococcus Species	>6000	cfu/100 ml	10
ZM2FX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	30000	cfu/100 ml	1000

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85 Port Road
Seaview
Lower Hutt
Wellington 5010
NEW ZEALAND

Phone +64 4 576 5016
www.eurofins.co.nz

		RESULTS		LOQ
UMY2E	**Enumeration of Faecal Coliforms by Membrane Filtration**			
	Faecal Coliforms	>6000	cfu/100 ml	10
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	mg/l	0.01
NW008	**Nitrite-N**			
	Nitrite Nitrogen as N	<0.01	mg/l	0.01
(D)NW388	**Salinity**			
	Salinity	<2	ppt	2
NW212	**Turbidity**			
	Turbidity	4.19	NTU	0.01

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