

Seaview Wastewater Treatment Plant

January - March 2023 Quarterly Resource
Consents Report



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CONTROL SHEET

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DOCUMENT CONTROL REGISTER

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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 report will cover the quarterly period from January - March 2023 as requested in this resource consent. The following is a brief overview of the compliance with the consent conditions:

Resource Consent Condition	Compliant/Non-Compliant/Not Applicable
9	Non-compliant
10	Compliant
11	Compliant
12	Compliant
13	Non-compliant
14	N/A
17	Compliant

Table 1: WGN050359 [24539] Resource Consent Condition Compliance

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 utilized. The report will cover the quarterly period from January - March 2023 as requested in this resource consent. 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

Table 2: WGN120142 [33406] Resource Consent Condition Compliance

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 report will cover the quarterly period from January - March 2023 as requested in this resource consent. The following is a brief overview of the compliance with the consent conditions:

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

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 report will cover the quarterly period from January - March 2023 as requested in this resource consent. The following is a brief overview of the compliance with the consent conditions:

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

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 report will cover the quarterly period from January - March 2023 as requested in this resource consent. 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	Compliant
22	Compliant

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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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/m³ and no more than 20% of 90 consecutive daily values shall exceed 85 g/m³.

(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/m³ and no more than 20% of 90 consecutive daily values shall exceed 85 g/m³.

(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	January 2023			February 2023			March 2023		
	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	5	13	21	7	12	21	7	10	17
2	6	13	21	9	12	21	13	10	17
3	6	13	21	9	12	21	12	10	17
4	6	13	21	7	12	21	11	10	17
5	9	13	21	9	12	21	31	10	17
6	6	13	21	5	11	21	10	10	16
7	5	13	21	7	11	21	10	10	15
8	4	13	21	6	11	21	8	10	15
9	5	13	21	6	11	21	9	10	15
10	4	12	21	9	11	19	8	10	15
11	5	12	21	6	11	19	7	10	15
12	5	12	21	14	11	19	7	9	14
13	7	12	21	28	11	21	10	9	14
14	7	12	21	110	11	21	24	9	14
15	5	12	21	70	11	21	19	9	14
16	5	12	21	36	11	21	14	9	14
17	5	12	21	15	11	21	60	9	14
18	5	12	21	8	11	21	6	9	14
19	18	12	21	5	11	21	6	9	13
20	21	12	21	5	11	21	25	9	14
21	16	12	21	5	11	19	11	9	14
22	7	12	21	9	11	17	11	9	14
23	6	12	21	18	11	17	6	9	14
24	12	12	21	28	10	17	6	9	14
25	9	12	21	47	10	17	4	9	14
26	4	12	21	7	10	17	5	9	14
27	13	12	21	6	10	17	4	9	14
28	6	12	21	10	10	17	8	9	14
29	9	12	21	-	-	-	33	9	14
30	15	12	21	-	-	-	6	9	14
31	6	12	21	-	-	-	3	9	14
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/m³ geometric mean limit. Analytical results highlighted in red are above the 85g/m³ 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	January 2023			February 2023			March 2023		
	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	6	13	22	10	13	22	12	12	18
2	6	13	22	8	13	22	20	12	20
3	7	13	22	11	13	22	21	12	20
4	6	13	22	8	13	22	22	12	20
5	6	13	22	8	13	22	77	12	20
6	6	13	22	6	13	22	16	12	20
7	6	13	22	7	13	22	11	12	20
8	6	13	22	10	13	20	11	12	20
9	6	13	22	9	13	20	6	11	18
10	6	13	22	8	13	18	7	11	18
11	8	13	22	8	13	18	7	11	18
12	6	13	22	20	13	20	12	11	16
13	6	12	22	36	13	20	14	11	16
14	6	12	22	179	13	23	25	11	16
15	6	12	22	113	13	25	26	11	16
16	6	12	22	78	13	25	11	11	15
17	7	12	22	9	13	25	61	11	15
18	6	12	22	6	13	25	6	11	15
19	14	12	22	9	13	25	6	11	15
20	6	12	22	6	13	25	49	11	16
21	14	12	22	6	13	22	20	11	18
22	9	12	22	11	12	20	18	11	18
23	8	12	22	12	12	20	8	11	18
24	14	13	22	33	12	20	7	11	18
25	8	13	22	101	12	20	6	11	18
26	9	13	22	9	12	18	9	11	18
27	18	13	22	8	12	18	6	11	18
28	7	13	22	20	12	20	14	11	18
29	6	13	22	-	-	-	69	11	20
30	11	13	22	-	-	-	8	11	18
31	8	13	22	-	-	-	6	11	18
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/m³ geometric mean limit. Analytical results highlighted in red are above the 85g/m³ 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	January 2023			February 2023			March 2023		
	Daily Results	Geometric Mean	80th Percentile	Daily Results	Geometric Mean	80th Percentile	Daily Results	Geometric Mean	80th Percentile
	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL	cfu/100mL
1	100	2614	28732	126	1893	28732	897	822	12286
2	263	2630	28732	200	1840	28732	282	832	12286
3	20	2536	28732	100	1743	28732	6000	853	12286
4	168	2538	28732	151	1733	28732	31864	887	13243
5	254	2572	28732	10	1650	28732	2142	880	13243
6	800	2624	28732	95	1573	28732	5084	874	13243
7	337	2717	28732	45	1426	23331	14697	867	13216
8	438	2855	28732	262	1350	21600	1740	855	13216
9	63	2875	28732	10	1223	18610	13197	876	13497
10	100	2935	28732	431	1174	18610	34034	893	14724
11	2066	3068	28732	16	1086	16272	28088	917	15295
12	1393	3058	28732	10	997	14859	8010	958	15295
13	208	2923	28732	9906	1022	14859	3437	942	15187
14	344	2932	28732	224387	1086	16378	75139	928	15187
15	707	2958	28732	135911	1099	16378	6000	909	13497
16	316	2964	28732	151201	1123	17686	2974	894	13497
17	10	2834	28732	2676	1068	14859	23418	908	15187
18	26	2707	28732	169	1035	14859	10164	897	13497
19	100	2569	28732	13	1007	14859	1119	895	13497
20	525	2549	28732	49	1004	14859	424	872	13497
21	54772	2683	30247	20	952	14859	12884	887	13497
22	6493	2760	30247	142	915	14859	3657	905	13497
23	27	2718	30247	837	886	13243	400	862	12947
24	35	2639	30247	17145	877	13243	20	779	12294
25	22	2504	30247	66524	853	13243	404	737	10560
26	56	2364	30247	2168	811	12286	100	685	9957
27	10	2246	30247	922	794	12286	63	621	8389
28	15	2180	30247	429	790	12286	707	591	6797
29	10	2117	30247	-	-	-	32926	598	6797
30	845	2086	30247	-	-	-	237	591	6797
31	1510	2064	30247	-	-	-	134	578	6797
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.

A notification was sent by email to Wellington Water on 22 November 2022, informing that the Seaview WWTP final effluent became non-compliant with the resource consent WGN 050359 [24539] Condition 9(c). The fecal coliform 90-day 80th percentile exceeded the limit (5000 cfu/100mL) as of 13 Nov 2022 (6140 cfu/100mL).

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:

- 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)
- 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 on a weekly basis. The following is a summary of this analysis:

Day	January 2023	February 2023	March 2023
	cfu/100mL	cfu/100mL	cfu/100mL
1			
2		300	100
3			
4			
5			
6			
7		100	3700
8			
9		300	12000
10			
11			
12			
13			
14		60000	43000
15			
16		60000	500
17	100		
18			
19	100		
20			
21		100	26000
22			
23		500	100
24	10		
25			
26	10		
27			
28		600	10
29		-	
30	200	-	400
31		-	

Table 9: Effluent Enterococci Results

Due to external lab migration, the weekly samples for the effluent Enterococci analysis required under Resource Consent WGN050359[24539], Schedule 1, were missed out by the Sampler Contractor for December 2022 and the first fortnight of January 2023.

The sampler contractor and the laboratory have acknowledged the mistake, and the sampling for Enterococci has been reinitiated as of 17 Jan 2023. Veolia will also follow up on this to not happen again in the future.

Compound	Units	Limit	January 2023	February 2023	March 2023
Dissolved arsenic	g/m ³	0.115	0.00170	0.00200	0.00200
Dissolved cadmium	g/m ³	0.035	0.00020	0.00020	0.00020
Dissolved chromium	g/m ³	0.220	0.00100	0.00200	0.00100
Dissolved copper	g/m ³	0.065	0.0038	0.0051	0.0023
Dissolved nickel	g/m ³	0.350	0.0120	0.0120	0.00700
Dissolved lead	g/m ³	0.220	0.00130	0.00130	0.00080
Dissolved zinc	g/m ³	0.750	0.00050	0.00050	0.00050
Dissolved mercury	g/m ³	0.005	0.00050	0.0005	0.00050
Cyanide	g/m ³	0.200	0.010	0.01	0.01300
Phenol	g/m ³	0.500	0.010	0.010	0.0100
Oil and Grease	g/m ³	--	4	5	4
Nitrate-N	g/m ³	--	0	0.03	0
Dissolved Reactive Phosphorus	g/m ³	--	0.0	2.63	0.2
pH	--	--	8	7	7
Conductivity	mS/m	--	192	265	220
Ammonia Nitrogen	g/m ³	--	24	24.7	18

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

Condition (12)

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

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

None of the effects listed above were observed beyond a 200 m radius of 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:

- Fitzroy Bay 400 m SE of outfall (R27:651.807)
- Fitzroy Bay 100 m SE of outfall (R27:650.808)
- Fitzroy Bay 100 m NW of outfall (R27:648.808)
- Fitzroy Bay 400 m NW of outfall (R27:647.810)
- Pencarrow Head at Lighthouse (R27:647.816)
- Inconstant Point (R27:650.825)
- Hinds Point (R27:655.839)

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

Fitzroy Bay 400m SE of Outfall

Date	Enterococci	Faecal Coliforms
dd/mm/yyyy	cfu/100mL	cfu/100mL
3/11/2022	1.8	1.8
29/12/2022	10	10
9/02/2023	10	10
15/03/2023	10	10

Table 11: Shoreline Monitoring

Fitzroy Bay 100m SE of Outfall

Date	Enterococci	Faecal Coliforms
dd/mm/yyyy	cfu/100mL	cfu/100mL
3/11/2022	1.8	3.6
29/12/2022	10	10
9/02/2023	18	10
15/03/2023	20	100

Table 12: Shoreline Monitoring

Fitzroy Bay 100m NW of Outfall

Date	Enterococci	Faecal Coliforms
dd/mm/yyyy	cfu/100mL	cfu/100mL
3/11/2022	1.8	1.8
29/12/2022	10	10
9/02/2023	10	10
15/03/2023	10	10

Table 13: Shoreline Monitoring

Fitzroy Bay 400m NW of Outfall

Date	Enterococci	Faecal Coliforms
dd/mm/yyyy	cfu/100mL	cfu/100mL
3/11/2022	1.8	1.8
29/12/2022	10	10
9/02/2023	10	10
15/03/2023	10	10

Table 14: Shoreline Monitoring

Pencarrow Head at Lighthouse

Date	Enterococci	Faecal Coliforms
dd/mm/yyyy	cfu/100mL	cfu/100mL
3/11/2022	1.8	1.8
29/12/2022	10	10
9/02/2023	10	10
15/03/2023	10	10

Table 15: Shoreline Monitoring

Inconstant Point

Date	Enterococci	Faecal Coliforms
dd/mm/yyyy	cfu/100mL	cfu/100mL
3/11/2022	1.8	1.8
29/12/2022	10	10
9/02/2023	10	10
15/03/2023	10	10

Table 16: Shoreline Monitoring

Hinds Point

Date	Enterococci	Faecal Coliforms
dd/mm/yyyy	cfu/100mL	cfu/100mL
3/11/2022	1.8	9.1
29/12/2022	27	20
9/02/2023	10	10
15/03/2023	10	10

Table 17: Shoreline Monitoring

Please note that bathing beach guidelines were used to generate the colouring for the Enterococci samples. Because there are no bathing beach guidelines for faecal coliforms, fresh water guidelines were applied. The following are the limits for both bacterial species:

Bacterial Species	Amber Limit	Red Limit
	cfu/100mL	cfu/100mL
Enterococci	140	280
Faecal Coliforms	260	550

Table 18: Shoreline Monitoring Guidelines

Please note that the samples for January 2023 were not collected due to no access to the sites. The key for the gate to access Pencarrow was changed without notice and Veolia was not provided with a key until 2 February 2023.

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.

Samples could not be collected due to lack of mussels near shore waters.

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	WGN05035 9 [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	Non-compliant
Coastal Green-lipped Mussel Sampling	14	Each month between February and March of every second year	N/A	N/A

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 (m³) of the discharge
- Contact person for further information regarding the discharge
- Continuous flow records (m³/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/>

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	Monitoring Results
		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		
14/02/2023	84:09:00	609	1372	6.5	39	150199	Y	Ex-Cyclone Gabrielle	Notifications sent. Sampling campaign initiated.
23/02/2023	0:11	365	406	NA	NA	263	N	Power outage	Notifications sent. Sampling campaign initiated.
2/03/2023	0:08	96	170	NA	NA	29	N	Power outage	Notifications sent. Sampling campaign initiated.
14/03/2023	0:07	42	182	NA	NA	20	N	Power outage	Notifications sent. Sampling campaign initiated.
28/03/2023	28:32	320	1059	8.9	28	18409	Y	Heavy rain	Notifications sent. Sampling campaign initiated.
30/03/2023	5:14	365	823	0.9	1	1819	Y	Heavy rain	Notifications sent. Sampling campaign initiated.

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.

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
14/02/2023	12:35	48000	230000	260000	94	1.16	14.60	0.01	0.01
15/02/2023	13:00	40000	120000	32000	48	0.48	11.80	0.16	0.13
16/02/2023	12:55	25000	38000	46000	47	0.31	6.15	1.44	0.16
17/02/2023	13:55	11000	2000	11000	15	0.67	12.10	0.28	0.19
18/02/2023	12:00	1000	1000	200	11	0.61	11.30	0.01	0.01
19/02/2023	12:15	20	10	40	6	1.03	15.30	0.02	0.05
23/02/2023	19:00	1000	3000	4000	8	2.01	21.90	0.01	0.02
02/03/2023	19:55	21000	230000	230000	9	1.77	25.8	0.02	0.02
14/03/2023	14:30	6000	200000	6000	6	1.40	19.6	0.02	0.01
15/03/2023	15:05	6000	2600000	6000	13	1.98	24.8	0.01	0.01
29/03/2023	13:40	6000	40000	6000	6	0.12	11.1	0.15	0.18
30/03/2023	13:00	130	1000	50	6	0.10	14.4	0.14	0.47
31/03/2023	12:40	60	1000	1200	3	0.19	9.8	0.33	0.1
01/04/2023	12:20	20	1000	120	3	0.67	15.2	0.14	0.1

Date	Time	pH	Salinity	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	--	g/m ³	--	--	--	--
14/02/2023	12:35	7.0	2	S	Mod	Mid	Flood
15/02/2023	13:00	7.1	2	S	Mod	Mid	Flood
16/02/2023	12:55	6.9	2	N	Light	Mid	Flood
17/02/2023	13:55	7.3	2	N	Light	Mid	Flood
18/02/2023	12:00	7.9	2	N	Mod	Low	Ebb
19/02/2023	12:15	7.4	2	W	Light	Mid	Flood
23/02/2023	19:00	7.2	2	S	Light	Low	Ebb
02/03/2023	19:55	7.1	2	N	Mod	Low	Flood
14/03/2023	14:30	7.2	2	NE	light	Mid	Flood
15/03/2023	15:05	7.0	2	NW	Light	Mid	Flood
29/03/2023	13:40	7.0	2	S	Strong	High	Flood
30/03/2023	13:00	6.9	2	SW	Strong	High	Flood
31/03/2023	12:40	7.2	2	N	Light	Mid	Flood
01/04/2023	12:20	7.1	2	N	Mod	Mid	Flood

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
<p>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.</p> <p>The samples shall be analysed for parameters specified in condition 14.</p> <p>Note: This condition does not apply to overflows with a duration of less than one hour.</p>		

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
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
14/02/2023	13:23	70000	18000	24000	6	0.082	1.51	0.12	0.03
15/02/2023	13:59	28000	22000	28000	22	0.251	6.67	0.27	0.13
16/02/2023	13:50	22000	17000	24000	6	0.079	0.69	0.73	0.02
17/02/2023	14:15	1000	1000	1100	6	0.008	0.05	0.23	0.01
18/02/2023	12:16	1000	1000	1100	6	0.031	0.09	0.60	0.01
19/02/2023	12:39	220	10	130	6	0.115	0.23	0.49	0.01
23/02/2023	19:26	1000	2000	500	6	0.011	0.01	0.14	0.01
02/03/2023	20:20	140	170	300	6	0.036	0.06	0.12	0.1
14/03/2023	15:30	700	1000	2400	3	0.024	0.07	0.14	0.1
15/03/2023	15:38	6000	29000	4100	3	0.028	0.05	0.10	0.1
29/03/2023	14:15	2200	2000	2000	6	0.010	0.45	0.12	0.01
30/03/2023	14:10	380	2000	500	3	0.010	0.02	0.15	0.1
31/03/2023	14:20	420	140	260	3	0.009	0.07	0.22	0.1
01/04/2023	12:56	190	1000	320	3	0.007	0.03	0.16	0.1

Date	Time	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	--	g/m ³	g/m ³	--	--	--	--
14/02/2023	13:23	7.5	2	6.9	S	Mod	Mid	Flood
15/02/2023	13:59	7.1	2	5.6	S	Mod	Mid	Flood
16/02/2023	13:50	7.3	2	7.1	N	Light	Mid	Flood
17/02/2023	14:15	7.3	2	9.6	N	Light	Mid	Flood
18/02/2023	12:16	7.1	2	6.9	N	Mod	Low	Ebb
19/02/2023	12:39	7.0	4	10.0	W	Light	Mid	Flood
23/02/2023	19:26	7.3	2	9.3	S	Light	Low	Ebb
02/03/2023	20:20	7.1	15	8.5	N	Mod	Low	Flood
14/03/2023	15:30	7.2	4	7.9	NE	light	Mid	Flood
15/03/2023	15:38	7.0	9	8.9	NW	Light	Mid	Flood
29/03/2023	14:15	7.0	2	8.9	S	Strong	High	Flood
30/03/2023	14:10	6.9	2	10.0	SW	Strong	High	Flood
31/03/2023	14:20	7.2	6	9.4	N	Light	Mid	Flood
01/04/2023	12:56	7.1	6	9.1	N	Mod	Mid	Flood

Table 25: Discharge Monitoring

Waiwhetu Pa Site

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
14/02/2023	13:11	23000	10000	12000	6	0.039	0.04	0.11	0.01
15/02/2023	13:48	29000	10000	9000	6	0.023	0.01	0.18	0.01
16/02/2023	13:38	17000	8000	11000	6	0.034	0.02	0.61	0.01
17/02/2023	14:43	2000	2000	2000	6	0.021	0.29	0.22	0.01
18/02/2023	12:43	4000	2000	3900	6	0.031	0.21	0.31	0.01
19/02/2023	12:26	200	80	250	6	0.016	0.28	0.44	0.01
23/02/2023	19:14	1000	1000	2300	6	0.028	0.17	0.15	0.01
02/03/2023	20:09	330	300	500	6	0.006	0.01	0.13	0.1
14/03/2023	15:03	540	1000	3800	3	0.019	0.06	0.11	0.1
15/03/2023	14:30	170	8000	1400	3	0.012	0.02	0.10	0.1
29/03/2023	14:26	6000	11000	5900	6	0.035	0.11	0.44	0.01
30/03/2023	12:15	490	1000	1200	3	0.012	0.02	0.31	0.1
31/03/2023	12:23	4200	4000	2600	3	0.033	0.08	0.41	0.01
01/04/2023	12:05	800	2000	2000	3	0.022	0.06	0.55	0.01

Date	Time	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	--	g/m ³	g/m ³	--	--	--	--
14/02/2023	13:11	7.2	2	7.4	S	Mod	Mid	Flood
15/02/2023	13:48	7.1	2	8.2	S	Mod	Mid	Flood
16/02/2023	13:38	7.0	2	7.9	N	Light	Mid	Flood
17/02/2023	14:43	7.2	2	8.8	N	Light	Mid	Flood
18/02/2023	12:43	7.3	2	5.1	N	Mod	Low	Ebb
19/02/2023	12:26	7.0	5		W	Light	Mid	Flood
23/02/2023	19:14	7.4	2	9.2	S	Light	Low	Ebb
02/03/2023	20:09	7.1	15	8.5	N	Mod	Low	Flood
14/03/2023	15:03	7.2	4	8.6	NE	light	Mid	Flood
15/03/2023	14:30	7.0	7	7.7	NW	Light	Mid	Flood
29/03/2023	14:26	7.0	2	8.4	S	Strong	High	Flood
30/03/2023	12:15	6.9	4	9.9	SW	Strong	High	Flood
31/03/2023	12:23	7.2	2	7.8	N	Light	Mid	Flood
01/04/2023	12:05	7.1	2	7.4	N	Mod	Mid	Flood

Table 26: Discharge Monitoring

Please note that sample taken on 19/02/2023 at Waiwhetu Pa site could not be analysed for Dissolved Oxygen because the sample bottle leaked.

Downstream of Bell Road Bridge

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
14/02/2023	12:58	20000	9000	7000	6	0.010	0.02	0.15	0.01
15/02/2023	13:37	13000	7000	6000	6	0.028	0.01	0.26	0.01
16/02/2023	13:29	16000	10000	11000	6	0.039	0.04	0.63	0.01
17/02/2023	14:31	1000	2000	2000	6	0.035	0.08	0.82	0.01
18/02/2023	12:30	3000	1000	1700	6	0.037	0.08	0.53	0.01
19/02/2023	11:50	230	110	160	6	0.022	0.08	0.51	0.01
23/02/2023	18:11	1000	1000	800	6	0.059	0.08	0.53	0.01
02/03/2023	20:30	380	470	900	6	0.020	0.04	0.24	0.1
14/03/2023	15:13	2300	1000	6000	3	0.036	0.12	0.31	0.01
15/03/2023	15:20	1500	7000	6000	3	0.036	0.12	0.24	0.1
29/03/2023	13:55	2500	2000	1600	6	0.012	0.27	0.11	0.01
30/03/2023	13:40	5800	11000	5300	3	0.030	0.12	0.68	0.01
31/03/2023	14:33	2700	2000	2300	3	0.033	0.06	0.55	0.01
01/04/2023	12:39	1100	1000	2200	3	0.028	0.11	0.55	0.01

Date	Time	pH	Salinity	Dissolved Oxygen	Wind Direction	Wind Strength	Tide	Sea Conditions
dd/mm/yyyy	hh:mm	--	g/m ³	g/m ³	--	--	--	--
14/02/2023	12:58	7.2	2	8.3	S	Mod	Mid	Flood
15/02/2023	13:37	7.1	2	8.6	S	Mod	Mid	Flood
16/02/2023	13:29	6.9	2	7.6	N	Light	Mid	Flood
17/02/2023	14:31	7.0	2	8.1	N	Light	Mid	Flood
18/02/2023	12:30	7.2	2	7.0	N	Mod	Low	Ebb
19/02/2023	11:50	7.0	2	6.8	W	Light	Mid	Flood
23/02/2023	18:11	7.3	2	8.1	S	Light	Low	Ebb
02/03/2023	20:30	7.1	7	6.2	N	Mod	Low	Flood
14/03/2023	15:13	7.2	2	6.5	NE	light	Mid	Flood
15/03/2023	15:20	7.0	6	7.9	NW	Light	Mid	Flood
29/03/2023	13:55	7.0	2	9.9	S	Strong	High	Flood
30/03/2023	13:40	6.9	2	9.0	SW	Strong	High	Flood
31/03/2023	14:33	7.2	2	8.1	N	Light	Mid	Flood
01/04/2023	12:39	7.1	2	7.8	N	Mod	Mid	Flood

Table 27: Discharge Monitoring

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/m³)
- Escherichia coli (no./100mL)
- Enterococci (no./100mL)
- Dissolved reactive phosphorus (g/m³)
- Ammoniacal nitrogen (g/m³)
- Nitrate nitrogen (g/m³), and
- Nitrite nitrogen (g/m³)

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.

Date	Upstream of Port Road Bridge
14/02/2023	

15/02/2023



16/02/2023



17/02/2023



18/02/2023



19/02/2023



23/02/2023



02/03/2023



14/03/2023



15/03/2023



29/03/2023



30/03/2023



31/03/2023



Date	Waiwhetu Pa Site
14/02/2023	 A photograph showing a wide, calm body of water in the foreground. The water has a greyish-brown hue. In the background, there is a long industrial building with a corrugated metal roof and several large doors. The sky is overcast and grey.
15/02/2023	 A photograph showing a body of water with a clear blue sky. In the foreground, there is a patch of tall, dry, golden-brown grass. In the background, there is a long industrial building with a white roof and several large doors. The water is a deep blue color.

16/02/2023



17/02/2023



18/02/2023



19/02/2023



23/02/2023



02/03/2023



14/03/2023



15/03/2023



29/03/2023



30/03/2023



31/03/2023



Date

Downstream of Bell Road Bridge

14/02/2023



15/02/2023



16/02/2023



17/02/2023



18/02/2023



19/02/2023



23/02/2023



02/03/2023



14/03/2023



15/03/2023



29/03/2023



30/03/2023



31/03/2023



Table 28: Sample Site Photos

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.

No complaints were received regarding this resource consent for the January to March 2023 reporting period.

WGN120142 [33407]

This consent was not applicable during this reporting period.

WGN120142 [33408]

This consent was not applicable during this 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	January 2023			February 2023			March 2023		
	Back Pressure	Moisture Content	pH	Back Pressure	Moisture Content	pH	Back Pressure	Moisture Content	pH
	Pa	%	--	Pa	%	--	Pa	%	--
1	952			722	64.51	7.6	695	65.20	7.4
2	537			458			438		
3	904			694			676		
4	925	45.81	8.1	697			702		
5	590			732			712		
6	929			527			547		
7	934			710			719		
8	916			704	55.26	7.0	704	60.50	6.5
9	552			486			441		
10	862			715			710		
11	904	55.99	7.5	717			704		
12	581			713			692		
13	921			459			458		
14	918			839			651		
15	859			788	57.68	8.5	718	52.73	7.9
16	611			504			568		
17	841			466			731		
18	951	57.26	8.5	504			712		
19	494			717			693		
20	793			695			479		
21	826			690			740		
22	791			715	64.40	7.6	487	47.10	7.2
23	551			445			727		
24	795			726			731		
25	747	54.32	8.0	748			722		
26	484			598			722		
27	768			662			468		
28	817			709			789		
29	732			-			784	53.55	7.60
30	552			-			513		
31	726			-			773		

Table 56: Bio-filter Monitoring Parameters

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.

9 complaints were received regarding this resource consent for the January to March 2023 reporting period. Complaints have been tabulated below:

Date	Complaints	Details	Actions Taken	Notification
17/01/2023	Odour complaint	The caller mentioned that they noticed a very strong smell about 15 mins ago (at 11:15am) coming from the wastewater treatment plant on port road Seaview.	---	---
18/01/2023	Odour complaint	Client is complaining about the smell emanating from the seaview sewerage plant	---	---
19/01/2023	Odour complaint	Odour complaint coming from Seaview Waste Water Treatment Plant Which one of these does it smell like the most? Faeces/sewage On a scale of 1 to 6 how bad is it? 6 When did you first start smelling it and for how long? 19/01/2023 - 2 hours ago. If there is a southerly wind, the smell comes at the same time every night Where are you/were you when you smelt it? At her property (Bell Road, Waiwhetu, Lower Hutt 5010) Where do you think it's coming from? Seaview Waste Water Treatment Plant Is there anything that would make it unsafe for a duty officer to visit?	---	---
20/01/2023	Odour complaint	Hi. The waste water treatment stinks. It's smells right through Gracefield and Moera. This has been complained about for years and nothing is being done fix the problem. What is being done to fix this situation? Why do rate payers of Lower Hutt have to put up with this. Is there a plan to sort this out? Asking us to complain when you know there is a problem is stupid. The problem is well known and should just be fixed. I feel like nothing is being done to fix this issue. I'm guessing nothing will get done because it doesn't involve cycle lanes and ev chargers. Which seems to be your top priority	---	---
31/01/2023	Odour complaint from a community member.	Today GWRC (Nikki and Cari) and WWL (Craig) attended the Seaview site at 2:15pm to investigate an odour complaint. There is work going on in the Milliscreen room that requires to have the doors open but it could not be a contributing factor as the odour	Odour survey performed. All doors were verified that were closed. Notifications sent to interred parties.	Same as description.

		<p>complaint was based on the dryer smell.</p> <p>The dryer is running as normal with all doors shut and no spillages or any other factors that could produce extra odour.</p> <p>We went for a site tour to the corner of Gough Street and Seaview Road and there was definitely a mix of dryer and odour blaster smells apparent from time to time depending on the wind, but neither WWL or Veolia found them to be offensive or objectionable. GWRC was grading with 4(Strong) and 5(Very Strong) and considered the smell objectionable.</p>		
09/02/2023	Odour complaint	objectionable and offensive odour was occurring beyond the boundary	---	----
4/03/2023	Odour complaint from the community	Odour complaint on 4th and 5th of March 2023 from community. No description provided	<p>Veolia received two odour complaints on 4th and 5th March respectively. Odour surveys were performed which deemed no odour outside the Seaview WWTP boundaries. The details of the complaints are unknown, however the site where the complaint was raised is Bell road @ Park side rd. (Map attached) Wind direction was Southerly. Veolia will be monitoring odour at the Seaview WWTP regularly.</p>	Same as description
10/03/2023	Odour complaint from a community member	<p>GWRC notified: Letting you know I received an odour notification about the Seaview WWTP on 10 March. The notification came in at 6:20pm but due to technical difficulties we didn't receive it until 5pm on 11 March. Described as sewage smell, 5/6.</p> <p>The complaint was from Bell Road, near the WWL works. Unfortunately I wasn't able to get hold of the notifier to get any more details on how long it went on for - they said it started at around 6pm and was a recurring issue.</p>	<p>Veolia received the notification on 13th March at 13:00. Due to the delay in the notification process, Veolia could not investigate the issue within a 24 hour frame after the complaint was lodged. However, the complaint was described to be from Bell road, near the works being done around the area. It is not possible to conclude if the smell was coming from the treatment plant, or potentially coming from the works performed in the area.</p>	Same as description
23/03/2023	Odour complaint from a new business owner in Seaview road.	<p>Hi there, we just moved into a new premises in Seaview road. Yesterday I went for a walk at lunchtime and the smeel from the treatment plant was so strong on Seaview road, my coworker and I had to return back to the building. Is this smell part of the works being done around the area or is it normal for that level of stench to be in the Seaview area.</p>	<p>Odour assessment was performed, and no odour was detected. Please note that the odour survey was done a day after the incident, due to a delay in the incident to be notified.</p>	Same as description

Table 57: Complaints

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 Samples Results**

Food & Water Testing
ANALYTICAL REPORT

REPORT CODE	AR-23-NW-011636-01	REPORT DATE	16/03/2023
Attention	Veolia Water - Wellington Julian Villada Wastewater Treatment Plant P.O. Box 14744 WELLINGTON 6041 Wellington NEW ZEALAND		
Phone	(04) 388 0067	Copy to:	Shibu (ann.shibu@veolia.com), Robins (nico.robins@veolia.com), Vachova (petra.vachova@veolia.com), Lawlor (rik.lawlor@veolia.com),
Email	julian.villada@veolia.com		
Contact for your orders:	Deb Bottrill	Order code:	EUNZWE-00112953
Contract:	Seaview		
Submission Reference:	Seaview discharge	Purchase Order Number:	7300239983
SAMPLE CODE	812-2023-00033761		
Sampling Point code:	SEA_L1_G_1M_N-A	Sampling Point name:	Seaview Fitzroy Bay 400m SE of Outfall Grab 1Month
Reception Date & Time:	15/03/2023 16:30	Analysis Ending Date:	16/03/2023
Analysis Start Date & Time:	15/03/2023 18:22	Sampler(s)	Customer
Sampled Date & Time	15/03/2023 14:42		
RESULTS		LOQ	
ZM0U1 Enumeration of Enterococci By Membrane Filtration			
Enterococcus Species	<10	cfu/100 ml	10
UMY2E Enumeration of Faecal Coliforms by Membrane Filtration			
Faecal Coliforms	<10	cfu/100 ml	10
SAMPLE CODE	812-2023-00033762		
Sampling Point code:	SEA_L2_G_1M_N-A	Sampling Point name:	Seaview Fitzroy Bay 100m SE of Outfall Grab 1Month
Reception Date & Time:	15/03/2023 16:30	Analysis Ending Date:	16/03/2023
Analysis Start Date & Time:	15/03/2023 18:22	Sampler(s)	Customer
Sampled Date & Time	15/03/2023 14:51		
RESULTS		LOQ	
ZM0U1 Enumeration of Enterococci By Membrane Filtration			
Enterococcus Species	20	cfu/100 ml	10
UMY2E Enumeration of Faecal Coliforms by Membrane Filtration			
Faecal Coliforms	120	cfu/100 ml	10
SAMPLE CODE	812-2023-00033763		
Sampling Point code:	SEA_L3_G_1M_N-A	Sampling Point name:	Seaview Fitzroy Bay 100m NW of Outfall Grab 1Month
Reception Date & Time:	15/03/2023 16:30	Analysis Ending Date:	16/03/2023
Analysis Start Date & Time:	15/03/2023 18:22	Sampler(s)	Customer
Sampled Date & Time	15/03/2023 14:56		
RESULTS		LOQ	
ZM0U1 Enumeration of Enterococci By Membrane Filtration			
Enterococcus Species	<10	cfu/100 ml	10

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Food & Water Testing

RESULTS	LOQ
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UMY2E Enumeration of Faecal Coliforms by Membrane Filtration

Faecal Coliforms	<10	cfu/100 ml	10
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SAMPLE CODE	812-2023-00033764
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Sampling Point code:	SEA_L4_G_1M_N-A	Sampling Point name:	Seaview Fitzroy Bay 400m NW of Outfall Grab 1Month
Reception Date & Time:	15/03/2023 16:30	Analysis Ending Date:	16/03/2023
Analysis Start Date & Time:	15/03/2023 18:22	Sampler(s)	Customer
Sampled Date & Time	15/03/2023 15:02		

RESULTS	LOQ
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ZM0U1 Enumeration of Enterococci By Membrane Filtration

Enterococcus Species	<10	cfu/100 ml	10
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UMY2E Enumeration of Faecal Coliforms by Membrane Filtration

Faecal Coliforms	<10	cfu/100 ml	10
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SAMPLE CODE	812-2023-00033765
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Sampling Point code:	SEA_L5_G_1M_N-A	Sampling Point name:	Seaview Pencarrow Head at Lighthouse Grab 1Month
Reception Date & Time:	15/03/2023 16:30	Analysis Ending Date:	16/03/2023
Analysis Start Date & Time:	15/03/2023 18:22	Sampler(s)	Customer
Sampled Date & Time	15/03/2023 14:36		

RESULTS	LOQ
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ZM0U1 Enumeration of Enterococci By Membrane Filtration

Enterococcus Species	<10	cfu/100 ml	10
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UMY2E Enumeration of Faecal Coliforms by Membrane Filtration

Faecal Coliforms	<10	cfu/100 ml	10
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SAMPLE CODE	812-2023-00033766
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Sampling Point code:	SEA_L6_G_1M_N-A	Sampling Point name:	Seaview Inconstant Point Grab 1Month
Reception Date & Time:	15/03/2023 16:30	Analysis Ending Date:	16/03/2023
Analysis Start Date & Time:	15/03/2023 18:22	Sampler(s)	Customer
Sampled Date & Time	15/03/2023 14:28		

RESULTS	LOQ
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ZM0U1 Enumeration of Enterococci By Membrane Filtration

Enterococcus Species	<10	cfu/100 ml	10
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UMY2E Enumeration of Faecal Coliforms by Membrane Filtration

Faecal Coliforms	10	cfu/100 ml	10
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SAMPLE CODE	812-2023-00033767
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Sampling Point code:	SEA_L7_G_1M_N-A	Sampling Point name:	Seaview Hinds Point Grab 1Month (November-April)
Reception Date & Time:	15/03/2023 16:30	Analysis Ending Date:	16/03/2023
Analysis Start Date & Time:	15/03/2023 18:22	Sampler(s)	Customer
Sampled Date & Time	15/03/2023 14:23		

RESULTS	LOQ
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ZM0U1 Enumeration of Enterococci By Membrane Filtration

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Food & Water Testing

		RESULTS	LOQ
ZM0U1	Enumeration of Enterococci By Membrane Filtration		
	Enterococcus Species	<10 cfu/100 ml	10
UMY2E	Enumeration of Faecal Coliforms by Membrane Filtration		
	Faecal Coliforms	<10 cfu/100 ml	10

LIST OF METHODS			
UMY2E	Faecal Coliforms E (Water) [NZ] <10 >6 000 /100 ml (0) m-FC Agar-F: SMEWW 9222D; APHA Online	ZM0U1	Enterococcus Species E (Water) [NZ] <10 >6 000 /100 ml (0) mEI Agar-F: US-EPA 1600.2009

Signature



Leo Cleave Senior Analyst

EXPLANATORY NOTE

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
- ③ Test is subcontracted within Eurofins group and is not accredited
- ④ Test is subcontracted outside Eurofins group and is accredited
- ⑤ Test is subcontracted outside Eurofins group and is not accredited
- ⑥ Test result is provided by the customer and is not accredited
- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited

N/A means Not Applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit

The test result(s) in this report apply only to the sample as received.

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The tests are identified by a five-digit code, their description is available on request.

Accreditation does not apply to comments or graphical representations.

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If the Customer pays for storage of the samples Eurofins will take commercially reasonable steps to store the samples for the agreed period in terms of industry practice.

The Customer acknowledges and accepts that: (a) it is solely responsible for the sampling process and warrants that the sample provided to Eurofins is representative of the lot / batch from which the samples were drawn; and (b) Eurofins expresses no opinion and accepts no liability in respect of the Customer's production process or homogeneity of the sample.

The Eurofins water sampling services uses IANZ approved methodology based on AS/NZS 5667 and / or best practice to collect and transport samples that are fit for the purpose of analytical testing. Eurofins shall have no liability if the sample collected is not representative of the source from which it has been taken. The laboratory is not responsible for sampling activities unless explicitly indicated by the statement "Sampled by Eurofins" on the report for water samples.

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END OF REPORT

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Food & Water Testing
ANALYTICAL REPORT

REPORT CODE	AR-23-NW-005432-01	REPORT DATE	11/02/2023
Attention	Veolia Water - Wellington Julian Villada Wastewater Treatment Plant P.O. Box 14744 WELLINGTON 6041 Wellington NEW ZEALAND		
Phone	(04) 388 0067	Copy to:	Shibu (ann.shibu@veolia.com), Robins (nico.robins@veolia.com), Vachova (petra.vachova@veolia.com), Lawlor (rik.lawlor@veolia.com),
Email	julian.villada@veolia.com		

Contact for your orders:	Deb Bottrill	Order code:	EUNZWE-00107424
Contract:	Seaview		
Submission Reference:	Seaview - Monthly Shorelines	Purchase Order Number:	7300234141

SAMPLE CODE	812-2023-00017062		
Sampling Point code:	SEA_L1_G_1M_N-A	Sampling Point name:	Seaview Fitzroy Bay 400m SE of Outfall Grab 1Month
Reception Date & Time:	09/02/2023 15:30	Analysis Ending Date:	10/02/2023
Analysis Start Date & Time:	09/02/2023 19:02	Sampler(s)	Customer
Sampled Date & Time	09/02/2023 13:43		

RESULTS		LOQ	
ZM0U1 Enumeration of Enterococci By Membrane Filtration			
Enterococcus Species	<10	cfu/100 ml	10
UMY2E Enumeration of Faecal Coliforms by Membrane Filtration			
Faecal Coliforms	<10	cfu/100 ml	10

SAMPLE CODE	812-2023-00017063		
Sampling Point code:	SEA_L2_G_1M_N-A	Sampling Point name:	Seaview Fitzroy Bay 100m SE of Outfall Grab 1Month
Reception Date & Time:	09/02/2023 15:30	Analysis Ending Date:	10/02/2023
Analysis Start Date & Time:	09/02/2023 19:01	Sampler(s)	Customer
Sampled Date & Time	09/02/2023 13:51		

RESULTS		LOQ	
ZM0U1 Enumeration of Enterococci By Membrane Filtration			
Enterococcus Species	18	cfu/100 ml	10
UMY2E Enumeration of Faecal Coliforms by Membrane Filtration			
Faecal Coliforms	<10	cfu/100 ml	10

SAMPLE CODE	812-2023-00017064		
Sampling Point code:	SEA_L3_G_1M_N-A	Sampling Point name:	Seaview Fitzroy Bay 100m NW of Outfall Grab 1Month
Reception Date & Time:	09/02/2023 15:30	Analysis Ending Date:	10/02/2023
Analysis Start Date & Time:	09/02/2023 19:02	Sampler(s)	Customer
Sampled Date & Time	09/02/2023 14:01		

RESULTS		LOQ	
ZM0U1 Enumeration of Enterococci By Membrane Filtration			
Enterococcus Species	<10	cfu/100 ml	10
UMY2E Enumeration of Faecal Coliforms by Membrane Filtration			

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Food & Water Testing

RESULTS	LOQ
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UMY2E Enumeration of Faecal Coliforms by Membrane Filtration

Faecal Coliforms	<10	cfu/100 ml	10
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SAMPLE CODE	812-2023-00017065
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Sampling Point code:	SEA_L4_G_1M_N-A	Sampling Point name:	Seaview Fitzroy Bay 400m NW of Outfall Grab 1Month
Reception Date & Time:	09/02/2023 15:30	Analysis Ending Date:	10/02/2023
Analysis Start Date & Time:	09/02/2023 19:01	Sampler(s)	Customer
Sampled Date & Time	09/02/2023 14:06		

RESULTS	LOQ
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ZM0U1 Enumeration of Enterococci By Membrane Filtration

Enterococcus Species	<10	cfu/100 ml	10
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UMY2E Enumeration of Faecal Coliforms by Membrane Filtration

Faecal Coliforms	<10	cfu/100 ml	10
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SAMPLE CODE	812-2023-00017066
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Sampling Point code:	SEA_L5_G_1M_N-A	Sampling Point name:	Seaview Pencarrow Head at Lighthouse Grab 1Month
Reception Date & Time:	09/02/2023 15:30	Analysis Ending Date:	10/02/2023
Analysis Start Date & Time:	09/02/2023 19:02	Sampler(s)	Customer
Sampled Date & Time	09/02/2023 14:15		

RESULTS	LOQ
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ZM0U1 Enumeration of Enterococci By Membrane Filtration

Enterococcus Species	<10	cfu/100 ml	10
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UMY2E Enumeration of Faecal Coliforms by Membrane Filtration

Faecal Coliforms	<10	cfu/100 ml	10
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SAMPLE CODE	812-2023-00017067
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Sampling Point code:	SEA_L6_G_1M_N-A	Sampling Point name:	Seaview Inconstant Point Grab 1Month
Reception Date & Time:	09/02/2023 15:30	Analysis Ending Date:	10/02/2023
Analysis Start Date & Time:	09/02/2023 19:01	Sampler(s)	Customer
Sampled Date & Time	09/02/2023 14:22		

RESULTS	LOQ
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ZM0U1 Enumeration of Enterococci By Membrane Filtration

Enterococcus Species	<10	cfu/100 ml	10
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UMY2E Enumeration of Faecal Coliforms by Membrane Filtration

Faecal Coliforms	<10	cfu/100 ml	10
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SAMPLE CODE	812-2023-00017068
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Sampling Point code:	SEA_L7_G_1M_N-A	Sampling Point name:	Seaview Hinds Point Grab 1Month (November-April)
Reception Date & Time:	09/02/2023 15:30	Analysis Ending Date:	10/02/2023
Analysis Start Date & Time:	09/02/2023 19:01	Sampler(s)	Customer
Sampled Date & Time	09/02/2023 14:28		

RESULTS	LOQ
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ZM0U1 Enumeration of Enterococci By Membrane Filtration

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Food & Water Testing

	RESULTS	LOQ
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ZM0U1 Enumeration of Enterococci By Membrane Filtration		
Enterococcus Species	<10	cfu/100 ml
		10
UMY2E Enumeration of Faecal Coliforms by Membrane Filtration		
Faecal Coliforms	<10	cfu/100 ml
		10

LIST OF METHODS

UMY2E Faecal Coliforms E (Water) [NZ] <10 >6 000 /100 ml (0) m-FC Agar-F: SMEWW 9222D; APHA Online	ZM0U1 Enterococcus Species E (Water) [NZ] <10 >6 000 /100 ml (0) mEI Agar-F: US-EPA 1600:2009
---	--

Signature



Sunita Raju Business Unit Manager

EXPLANATORY NOTE

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
- ③ Test is subcontracted within Eurofins group and is not accredited
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- ⑤ Test is subcontracted outside Eurofins group and is not accredited
- ⑥ Test result is provided by the customer and is not accredited
- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited

N/A means Not applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit

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