

Tomakin Sewage Treatment Plant - Monthly Result Summary - January 2024



Anniversary Date: 1-Apr-23
Published Date: 5-Feb-24

Licensee: Eurobodalla Shire Council

EPL No.: 2851

Premises: Tomakin Sewage Treatment Plant

Address: George Bass Drive, Tomakin, NSW 2537

Licence Period: 01-Apr-23 to 31-Mar-24

EPL Link: <https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOlicence.aspx?DOCID=206033&SYSUID=1&LICID=2851>

POEO Public Register: <https://apps.epa.nsw.gov.au/prpoeoapp/>

Required Month: Jan-24

Licence Point 1 - Discharge to Waters - Concentration Limits			
Parameters	Unit of Measure	90 percentile concentration limit	100 percentile concentration limit
Biological Oxygen Demand	(mg/L)	10	15
Oil and Grease	(mg/L)	5	10
pH	(pH Units)	-	6.5-8.5
Total Suspended Solids	(mg/L)	15	20
Chlorophyll a	(mg/m3)		
Faecal Coliforms	(CFU/100mL)	200	600
Total Nitrogen	(mg/L)	10	15
Total Phosphorus	(mg/L)	8	10
Ammonia	(mg/L)	2	5

See Note 1

Note 1: A 100 Percentile Concentration Limit of "10 mg/L and no visible oil and grease" applies for Point 1.

Note 2: The monitoring at Point 3, required by Condition M2.1, is conducted by the licensee to determine compliance with limits specified for discharges to Point 1 as described in Condition L3.

Licence Point 3 - Effluent Quality Monitoring (Monthly Results)										
Sample Frequency	Monthly Composite Sample	Monthly Grab Sample	Monthly Grab Sample	Monthly Composite Sample	Monthly Grab Sample	Monthly Composite Sample	Monthly Composite Sample	Monthly Grab Sample		
Sampling Method	Biological Oxygen Demand (mg/L)	Oil and Grease (mg/L)	pH (pH Units)	Total Suspended Solids (mg/L)	Chlorophyll a (mg/m3)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)	Obtained Date	
Sampled Date	23-Jan-24	<2	<5	7.40	3.00	33.10	5.38	9.38	0.17	2-Feb-24
100 Percentile Exceedance?	NO	NO	NO	NO	NO	NO	NO	NO	NO	

Licence Point 3 - Effluent Quality Monitoring (Year To Date Results)								
Year to Date	Biological Oxygen Demand (mg/L)	Oil and Grease (mg/L)	pH (pH Units)	Total Suspended Solids (mg/L)	Chlorophyll a (mg/m3)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)
Samples	11	11	11	11	11	11	11	11
Min	<2	<5	7.40	<2	1.80	0.92	4.560	0.02
Mean	1.00	2.50	7.89	2.91	8.34	2.96	8.218	0.17
Median (50th %ile)	1.00	2.50	7.70	1.00	5.50	2.60	8.300	0.07
90th %ile	1.00	2.50	8.40	5.00	14.60	5.11	9.380	0.17
Max (100th %ile)	<2	<5	8.70	13.00	33.10	5.38	10.700	1.08

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Licence Point 2 - Influent Volume Monitoring

Sample Frequency	Daily (Continuous)	Maximum Daily flow (kL)	14000
Sampling Method	Ultrasonic Flow Meter		
Sample Date	Rainfall (mm)	Plant Inflow (kL)	Exceedance (YES/NO)
1-Jan-24	0	2443.0	NO
2-Jan-24	0	2399.3	NO
3-Jan-24	0	2317.0	NO
4-Jan-24	2.5	2245.5	NO
5-Jan-24	19	2647.7	NO
6-Jan-24	2	2166.0	NO
7-Jan-24	0	2066.8	NO
8-Jan-24	2	1937.3	NO
9-Jan-24	3	1939.3	NO
10-Jan-24	0	1939.3	NO
11-Jan-24	2.5	2149.3	NO
12-Jan-24	5	1769.9	NO
13-Jan-24	0	1835.6	NO
14-Jan-24	0.5	1771.3	NO
15-Jan-24	7	1649.2	NO
16-Jan-24	9.5	1816.4	NO
17-Jan-24	0.5	1611.0	NO
18-Jan-24	2	1636.6	NO
19-Jan-24	0	1623.3	NO
20-Jan-24	0	1618.2	NO
21-Jan-24	0	1652.7	NO
22-Jan-24	0	1704.6	NO
23-Jan-24	12.5	1496.9	NO
24-Jan-24	2	1684.2	NO
25-Jan-24	0	1537.1	NO
26-Jan-24	3.5	1518.3	NO
27-Jan-24	0.5	1819.3	NO
28-Jan-24	3	1896.7	NO
29-Jan-24	0	1807.0	NO
30-Jan-24	0	1484.2	NO
31-Jan-24	0	1209.2	NO
Monthly Total	77.00	57391.90	
Monthly Minimum	0.00	1209.16	
Monthly Mean	2.48	1851.35	
Monthly Maximum	19.00	2647.72	
Year to Date Total	636.50	414021.02	
Year to Date Minimum	0.00	966.86	
Year to Date Mean	2.08	1353.01	
Year to Date Maximum	86.00	6015.14	

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Licence Point 3 - Ambient Water Monitoring (Monthly Result)		
Frequency	Special Frequency 2*	
Sampling Method	Grab Sample	
Sampled Date	Faecal Coliforms (CFU/100mL)	Obtained Date
2-Jan-24	170	6-Jan-24
9-Jan-24	340	22-Jan-24
16-Jan-24	1100	23-Jan-24
23-Jan-24	3000	2-Feb-24
30-Jan-24	29	3-Feb-24

Licence Point 4 - Ambient Water Monitoring (Monthly Result)		
Frequency	Special Frequency 2*	
Sampling Method	Grab Sample	
Sampled Date	Faecal Coliforms (CFU/100mL)	Obtained Date
2-Jan-24	3	6-Jan-24
9-Jan-24	36	22-Jan-24
16-Jan-24	13	23-Jan-24
23-Jan-24	3	2-Feb-24
30-Jan-24	1	3-Feb-24

* Special Frequency 2: at least weekly during the months of November, December, January, February and March

Licence Point 3 - Ambient Water Monitoring (Year to Date Results)	
Year to Date	Faecal Coliforms (CFU/100mL)
Samples	13
Min	14
Mean	622.54
Median (50th %ile)	400
90th %ile	1066
Max (100th %ile)	3000

Licence Point 4 - Ambient Water Monitoring (Year to Date Results)	
Year to Date	Faecal Coliforms (CFU/100mL)
Samples	13
Min	<1
Mean	14.46
Median (50th %ile)	2
90th %ile	31
Max (100th %ile)	120

Monthly Exceedance Report			
Date	Exceedance Type	Parameter	Description / Action
9-Jan-24	Concentration limit	Faecal Coliforms	Faecal Coliforms result (340 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3
16-Jan-24	Concentration limit	Faecal Coliforms	Faecal Coliforms result (1'100 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3
23-Jan-24	Concentration limit	Faecal Coliforms	Faecal Coliforms result (3'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3
23-Jan-24	Concentration limit	Total Phosphorus	Total Phosphorus result (9.38 mg/L) exceeded 90 percentile concentration limit (8.0 mg/L) at monitoring point 3

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EPA Licence Point Map

