

Tomakin Sewage Treatment Plant - Monthly Result Summary - December 2023



Anniversary Date: 1-Apr-23
Published Date: 3-Jan-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: **Dec-23**

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	
Sampled 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)	Obtained Date
19-Dec-23	<2	<5	8.70	<2	5.50	1.47	4.56	0.17	19-Dec-23
100 Percentile Exceedance?	NO	NO	YES	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	10	10	10	10	10	10	10	10
Min	<2	<5	7.50	<2	1.80	0.92	4.560	0.02
Mean	1.00	2.50	7.94	2.90	5.86	2.72	8.102	0.17
Median (50th %ile)	1.00	2.50	7.80	1.00	4.65	2.50	8.230	0.06
90th %ile	1.00	2.50	8.43	5.80	12.44	4.70	9.458	0.26
Max (100th %ile)	<2	<5	8.70	13.00	14.60	5.11	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-Dec-23	6.5	2078.3	NO
2-Dec-23	1	1708.8	NO
3-Dec-23	13.5	2225.5	NO
4-Dec-23	4.5	1724.1	NO
5-Dec-23	0	1352.1	NO
6-Dec-23	0	1272.8	NO
7-Dec-23	0	1170.7	NO
8-Dec-23	0	1220.7	NO
9-Dec-23	9	1382.7	NO
10-Dec-23	5	1433.7	NO
11-Dec-23	0.5	1329.1	NO
12-Dec-23	3.5	1264.7	NO
13-Dec-23	2	1271.1	NO
14-Dec-23	0.5	1233.1	NO
15-Dec-23	0	1194.8	NO
16-Dec-23	0	1264.3	NO
17-Dec-23	0	1424.6	NO
18-Dec-23	0	1336.3	NO
19-Dec-23	0	1304.4	NO
20-Dec-23	20.5	1588.1	NO
21-Dec-23	18	1802.1	NO
22-Dec-23	0.5	1657.4	NO
23-Dec-23	0	1536.2	NO
24-Dec-23	6	1595.1	NO
25-Dec-23	0	1876.7	NO
26-Dec-23	31	3677.4	NO
27-Dec-23	17	4412.7	NO
28-Dec-23	11.5	4430.0	NO
29-Dec-23	4	3013.3	NO
30-Dec-23	5	2741.1	NO
31-Dec-23	1	2705.0	NO
Monthly Total	160.50	58226.56	
Monthly Minimum	0.00	1170.70	
Monthly Mean	5.18	1878.28	
Monthly Maximum	31.00	4429.98	
Year to Date Total	559.50	356629.12	
Year to Date Minimum	0.00	966.86	
Year to Date Mean	2.03	1296.83	
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
5-Dec-23	330	9-Dec-23
12-Dec-23	120	22-Dec-23
19-Dec-23	14	29-Dec-23
27-Dec-23	590	3-Jan-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
5-Dec-23	<1	9-Dec-23
12-Dec-23	1	22-Dec-23
19-Dec-23	1	29-Dec-23
27-Dec-23	120	3-Jan-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	8
Min	14
Mean	431.75
Median (50th %ile)	425
90th %ile	713
Max (100th %ile)	930

Licence Point 4 - Ambient Water Monitoring (Year to Date Results)	
Year to Date	Faecal Coliforms (CFU/100mL)
Samples	8
Min	<1
Mean	16.50
Median (50th %ile)	1
90th %ile	42
Max (100th %ile)	120

Monthly Exceedance Report			
Date	Exceedance Type	Parameter	Description / Action
5-Dec-23	Concentration limit	Faecal Coliforms	Faecal Coliforms result (330 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3
19-Dec-23	Concentration limit	pH	pH result (8.70 pH units) exceeded 100 percentile concentration limit (6.5-8.5 pH units) at monitoring point 3
27-Dec-23	Concentration limit	Faecal Coliforms	Faecal Coliforms result (590 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3

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EPA Licence Point Map

