

Moruya Sewage Treatment Plant - Monthly Result Summary - February 2024



Anniversary Date: 1-Apr-23
Published Date: 6-Mar-24

Licensee: Eurobodalla Shire Council
EPL No.: 1614
Premises: Moruya Sewage Treatment Plant
Address: Queen Street, Moruya, NSW 2537

Licence Period: 1-Apr-23 to 31-Mar-24

EPL Link: <https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=206032&SYSUID=1&LICID=1614>

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

Required Month: **Feb-24**

Licence Point 6 (Discharge to Utilisation Area) & 11 (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)	1	2
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 Points 6 and 11 as described in Condition L3.

Licence Point 3 - Effluent Quality Monitoring (Monthly Results)										
Sample Frequency Sampling Method	Monthly Composite Sample	Monthly Grab Sample	Monthly Grab Sample	Monthly Composite Sample	Monthly Grab 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)	Faecal Coliforms (CFU/100mL)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)	Obtained Date
20-Feb-24	<2	<5	7.30	5.00	26.10	11000	6.68	0.24	0.01	5-Mar-24
100 Percentile Exceedance?	NO	NO	NO	NO	NO	YES	NO	NO	NO	

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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)	Faecal Coliforms (CFU/100mL)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)
Samples	12	12	12	12	12	12	12	12	12
Min	<2	<5	6.10	<2	0.80	2000	4.11	0.121	0.01
Mean	2.42	2.50	7.08	3.17	16.03	26833	8.04	0.364	0.40
Median (50th %ile)	2.50	2.50	7.20	3.00	5.60	10000	7.76	0.358	0.20
90th %ile	3.90	2.50	7.29	4.90	37.17	79200	9.92	0.536	0.70
Max (100th %ile)	4.00	<5	7.30	5.00	82.80	130000	12.50	0.670	2.49

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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-Feb-24	0	961.0	NO
2-Feb-24	0	734.0	NO
3-Feb-24	0	592.0	NO
4-Feb-24	0	599.0	NO
5-Feb-24	0	855.0	NO
6-Feb-24	0	1381.0	NO
7-Feb-24	0	841.0	NO
8-Feb-24	0	725.0	NO
9-Feb-24	0	691.0	NO
10-Feb-24	0	684.0	NO
11-Feb-24	0	646.0	NO
12-Feb-24	0	741.0	NO
13-Feb-24	0	1054.0	NO
14-Feb-24	0	1184.0	NO
15-Jan-24	0	910.0	NO
16-Feb-24	0	1550.0	NO
17-Feb-24	0	1105.0	NO
18-Jan-24	0	860.0	NO
19-Feb-24	0	872.0	NO
20-Feb-24	3	808.0	NO
21-Feb-24	0.4	780.0	NO
22-Feb-24	0	772.0	NO
23-Feb-24	0	725.0	NO
24-Feb-24	0	678.0	NO
25-Feb-24	0	635.0	NO
26-Feb-24	0	631.0	NO
27-Feb-24	0	688.0	NO
28-Feb-24	0	662.0	NO
29-Feb-24	0	677.0	NO
Monthly Total	3.4	24041.0	
Monthly Minimum	0	592	
Monthly Mean	0.12	829.00	
Monthly Maximum	3	1550	
Year to Date Total	356.3	237170.0	
Year to Date Minimum	0.0	398.0	
Year to Date Mean	1.06	707.97	
Year to Date Maximum	57.8	6214.0	

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Licence Point 7 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	Obtained Date
20-Feb-24	1.88	0.191	1600	5-Mar-24

Licence Point 8 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	Obtained Date
20-Feb-24	3.25	0.148	930	5-Mar-24

Licence Point 7 - Ambient Water Monitoring (Year to Date Results)

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)
Samples	12	12	12
Min	1.46	0.049	32
Mean	4.02	0.198	924
Median (50th %ile)	2.19	0.122	185
90th %ile	9.54	0.444	1560
Max (100th %ile)	10.20	0.535	6000

Licence Point 8 - Ambient Water Monitoring (Year to Date Results)

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)
Samples	12	12	12
Min	0.39	0.023	29
Mean	2.46	0.102	564
Median (50th %ile)	1.94	0.052	230
90th %ile	5.62	0.163	1713
Max (100th %ile)	7.55	0.481	2400

Licence Point 9 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	Obtained Date
20-Feb-24	0.17	0.013	460	5-Mar-24

Licence Point 10 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	Obtained Date
20-Feb-24	0.22	0.020	120	5-Mar-24

Licence Point 9 - Ambient Water Monitoring (Year To Date Results)

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)
Samples	12	12	12
Min	0.12	0.004	2
Mean	0.20	0.012	162
Median (50th %ile)	0.20	0.012	32
90th %ile	0.27	0.019	443
Max (100th %ile)	0.27	0.020	900

Licence Point 10 - Ambient Water Monitoring (Year To Date Results)

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)
Samples	12	12	12
Min	0.16	0.006	4
Mean	0.21	0.015	80
Median (50th %ile)	0.21	0.014	26
90th %ile	0.25	0.025	192
Max (100th %ile)	0.28	0.028	390

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
20-Feb-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (11'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

EPA Licence Point Map

