

Moruya Sewage Treatment Plant - Monthly Result Summary - March 2023



Anniversary Date: 1-Apr-21
Published Date: 8-May-23

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

Licence Period: 1-Apr-21 to 31-Mar-22

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: **Mar-23**

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
21-Mar-23	<2	<5	7.30	41.00	24.60	4800	1.34	0.37	0.04	30-Mar-23
100 Percentile Exceedance?	NO	NO	NO	YES	NO	YES	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)	Faecal Coliforms (CFU/100mL)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)
Samples	13	13	13	13	13	13	13	13	13
Min	<2	<5	7.20	3.00	0.90	270	1.34	0.085	0.01
Mean	2.38	2.50	7.43	8.08	10.52	4713	5.98	0.196	0.09
Median (50th %ile)	2.00	2.50	7.40	5.00	6.20	5000	5.73	0.153	0.02
90th %ile	4.00	2.50	7.60	11.00	23.00	9380	8.51	0.323	0.29
Max (100th %ile)	5.00	<5	7.70	41.00	40.50	10000	12.80	0.371	0.63

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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-Mar-23	0	550.0	NO
2-Mar-23	1.8	567.0	NO
3-Mar-23	2.6	642.0	NO
4-Mar-23	5.6	562.0	NO
5-Mar-23	0.6	645.0	NO
6-Mar-23	7.4	695.0	NO
7-Mar-23	1.2	901.0	NO
8-Mar-23	0	864.0	NO
9-Mar-23	0	603.0	NO
10-Mar-23	0	599.0	NO
11-Mar-23	0	553.0	NO
12-Mar-23	0	550.0	NO
13-Mar-23	15.4	611.0	NO
14-Mar-23	1.4	760.0	NO
15-Mar-23	0	635.0	NO
16-Mar-23	0	654.0	NO
17-Mar-23	0	564.0	NO
18-Mar-23	0	553.0	NO
19-Mar-23	0	536.0	NO
20-Mar-23	1.2	566.0	NO
21-Mar-23	0	773.0	NO
22-Mar-23	3.2	1115.0	NO
23-Mar-23	0	916.0	NO
24-Mar-23	2.6	567.0	NO
25-Mar-23	0.2	541.0	NO
26-Mar-23	0	532.0	NO
27-Mar-23	0.2	549.0	NO
28-Mar-23	2	657.0	NO
29-Mar-23	6.8	689.0	NO
30-Mar-23	7.2	702.0	NO
31-Mar-23	0	582.0	NO
Monthly Total	59.4	20233.0	
Monthly Minimum	0	532	
Monthly Mean	1.92	652.68	
Monthly Maximum	15.4	1115	
Year to Date Total	735.1	313305.0	
Year to Date Minimum	0.0	0.0	
Year to Date Mean	2.02	858.37	
Year to Date Maximum	49.6	5125.0	

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Licence Point 7 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly	Monthly	
Sampling Method	Grab Sample	Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
21-Mar-23	0.65	0.040	30-Mar-23

Licence Point 8 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly	Monthly	
Sampling Method	Grab Sample	Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
21-Mar-23	1.07	0.059	30-Mar-23

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	13	13
Min	0.47	0.040
Mean	1.81	0.125
Median (50th %ile)	1.16	0.083
90th %ile	4.01	0.226
Max (100th %ile)	7.37	0.485

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	13	13
Min	0.28	0.026
Mean	2.44	0.123
Median (50th %ile)	1.78	0.133
90th %ile	4.58	0.186
Max (100th %ile)	5.89	0.248

Licence Point 9 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly		
Sampling Method	Grab Sample	Total Phosphorus	
Sampled Date	Total Nitrogen (mg/L)	(mg/L)	Obtained Date
21-Mar-23	0.26	0.015	30-Mar-23

Licence Point 10 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly		
Sampling Method	Grab Sample	Total Phosphorus	
Sampled Date	Total Nitrogen (mg/L)	(mg/L)	Obtained Date
21-Mar-23	0.23	0.014	30-Mar-23

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	13	13
Min	0.15	0.003
Mean	0.36	0.011
Median (50th %ile)	0.26	0.009
90th %ile	0.66	0.020
Max (100th %ile)	0.86	0.023

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	13	13
Min	0.17	0.006
Mean	0.38	0.019
Median (50th %ile)	0.23	0.012
90th %ile	0.62	0.042
Max (100th %ile)	1.26	0.068

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
21-Mar-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (4800 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)
21-Mar-23	Concentration Limit	TSS	TSS result (41mg/L) exceeded 100 percentile concentration limit (20mg/L) at monitoring point 3 (Prior to finishing pond)

EPA Licence Point Map

