

Moruya Sewage Treatment Plant - Monthly Result Summary - May 2023



Anniversary Date: 1-Apr-23
Published Date: 13-Jun-23

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: **May-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
16-May-23	<2	<5	7.20	3.00	6.40	9300	8.38	0.54	0.19	29-May-23
100 Percentile Exceedance?	NO	NO	NO	NO	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	2	2	2	2	2	2	2	2	2
Min	<2	<5	7.20	2.00	1.90	9300	8.38	0.544	0.19
Mean	2.00	2.50	7.20	2.50	4.15	9650	8.71	0.607	0.35
Median (50th %ile)	2.00	2.50	7.20	2.50	4.15	9650	8.71	0.607	0.35
90th %ile	2.80	2.50	7.20	2.90	5.95	9930	8.97	0.657	0.47
Max (100th %ile)	3.00	<5	7.20	3.00	6.40	10000	9.03	0.670	0.50

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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-May-22	0	741.0	NO
2-May-22	0	653.0	NO
3-May-22	0	661.0	NO
4-May-22	0	603.0	NO
5-May-22	0	554.0	NO
6-May-22	0.2	536.0	NO
7-May-22	12	652.0	NO
8-May-22	0	702.0	NO
9-May-22	0	635.0	NO
10-May-22	0	609.0	NO
11-May-22	0	636.0	NO
12-May-22	0	562.0	NO
13-May-22	0	538.0	NO
14-May-22	0	521.0	NO
15-May-22	0	623.0	NO
16-May-22	0	549.0	NO
17-May-22	0	573.0	NO
18-May-22	0	596.0	NO
19-May-22	0	557.0	NO
20-May-22	0	495.0	NO
21-May-22	0	504.0	NO
22-May-22	0	510.0	NO
23-May-22	0	577.0	NO
24-May-22	0	556.0	NO
25-May-22	0	598.0	NO
26-May-22	0	529.0	NO
27-May-22	0	510.0	NO
28-May-22	0	505.0	NO
29-May-22	0	595.0	NO
30-May-22	0	529.0	NO
31-May-22	0	509.0	NO
Monthly Total	12.2	17918.0	
Monthly Minimum	0	495	
Monthly Mean	0.39	578.00	
Monthly Maximum	12	741	
Year to Date Total	90.6	36978.0	
Year to Date Minimum	0.0	495.0	
Year to Date Mean	1.49	606.20	
Year to Date Maximum	40.4	1534.0	

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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
16-May-23	3.59	0.088	29-May-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
16-May-23	2.06	0.055	29-May-23

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	2	2
Min	2.01	0.077
Mean	2.80	0.083
Median (50th %ile)	2.80	0.083
90th %ile	3.43	0.087
Max (100th %ile)	3.59	0.088

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	2	2
Min	1.11	0.042
Mean	1.59	0.049
Median (50th %ile)	1.59	0.049
90th %ile	1.97	0.054
Max (100th %ile)	2.06	0.055

Licence Point 9 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly		
Sampling Method	Grab Sample	Total Phosphorus	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	(mg/L)	
16-May-23	0.15	0.011	29-May-23

Licence Point 10 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly		
Sampling Method	Grab Sample	Total Phosphorus	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	(mg/L)	
16-May-23	0.19	0.015	29-May-23

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	2	2
Min	0.15	0.011
Mean	0.21	0.013
Median (50th %ile)	0.21	0.013
90th %ile	0.26	0.014
Max (100th %ile)	0.27	0.014

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	2	2
Min	0.19	0.014
Mean	0.21	0.015
Median (50th %ile)	0.21	0.015
90th %ile	0.23	0.015
Max (100th %ile)	0.23	0.015

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
16-May-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (9300 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

EPA Licence Point Map

