

Moruya Sewage Treatment Plant - Monthly Result Summary - July 2022



Anniversary Date: 1-Apr-21
Published Date: 26-Aug-22

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: Jul-22

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
12-Jul-22	3.00	<5	7.30	6.00	3.10	10000	8.82	0.14	0.02	26-Jul-22
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	4	4	4	4	4	4	4	4	4
Min	<2	<5	7.30	3.00	3.10	1700	5.06	0.120	0.01
Mean	2.25	2.50	7.48	6.25	9.93	5725	8.11	0.151	0.10
Median (50th %ile)	2.00	2.50	7.45	5.00	10.00	5600	7.29	0.149	0.02
90th %ile	3.70	2.50	7.67	10.20	16.12	8800	11.61	0.176	0.25
Max (100th %ile)	4.00	<5	7.70	12.00	16.60	10000	12.80	0.186	0.35

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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-Jul-21	3.2	567.0	NO
2-Jul-21	5.4	588.0	NO
3-Jul-21	13.2	730.0	NO
4-Jul-21	0.6	778.0	NO
5-Jul-21	0	712.0	NO
6-Jul-21	1.2	672.0	NO
7-Jul-21	0	688.0	NO
8-Jul-21	0	675.0	NO
9-Jul-21	5.6	625.0	NO
10-Jul-21	0.6	627.0	NO
11-Jul-21	0	650.0	NO
12-Jul-21	0	671.0	NO
13-Jul-21	0	623.0	NO
14-Jul-21	0	632.0	NO
15-Jul-21	0	620.0	NO
16-Jul-21	0	620.0	NO
17-Jul-21	0	583.0	NO
18-Jul-21	0	614.0	NO
19-Jul-21	0	621.0	NO
20-Jul-21	0	569.0	NO
21-Jul-21	3	584.0	NO
22-Jul-21	7	607.0	NO
23-Jul-21	0.4	591.0	NO
24-Jul-21	0	607.0	NO
25-Jul-21	0	623.0	NO
26-Jul-21	7.2	663.0	NO
27-Jul-21	0	600.0	NO
28-Jul-21	3.2	635.0	NO
29-Jul-21	0	640.0	NO
30-Jul-21	0	611.0	NO
31-Jul-21	0	593.0	NO
Monthly Total	50.6	19619.0	
Monthly Minimum	0	567	
Monthly Mean	1.63	632.87	
Monthly Maximum	13.2	778	
Year to Date Total	144.4	106902.0	
Year to Date Minimum	0.0	0.0	
Year to Date Mean	1.18	876.25	
Year to Date Maximum	17.6	5125.0	

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Licence Point 7 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
12-Jul-22	1.05	0.045	26-Jul-22

Licence Point 8 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
12-Jul-22	3.46	0.077	26-Jul-22

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	1.05	0.045
Mean	1.21	0.085
Median (50th %ile)	1.15	0.075
90th %ile	1.42	0.127
Max (100th %ile)	1.50	0.144

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	1.07	0.062
Mean	2.56	0.105
Median (50th %ile)	2.36	0.105
90th %ile	4.17	0.143
Max (100th %ile)	4.47	0.147

Licence Point 9 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample		
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
12-Jul-22	0.39	0.006	26-Jul-22

Licence Point 10 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample		
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
12-Jul-22	0.36	0.008	26-Jul-22

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	0.15	0.003
Mean	0.33	0.010
Median (50th %ile)	0.37	0.008
90th %ile	0.43	0.019
Max (100th %ile)	0.45	0.023

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	0.20	0.006
Mean	0.34	0.014
Median (50th %ile)	0.35	0.010
90th %ile	0.44	0.024
Max (100th %ile)	0.47	0.029

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
12-Jul-22	Concentration Limit	Faecal Coliforms	Faecal Coliform result (10'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

EPA Licence Point Map

