

Moruya Sewage Treatment Plant - Monthly Result Summary - August 2024



Anniversary Date: 1-Apr-24
Published Date: 12-Sep-24

Licensee: Eurobodalla Shire Council
EPL No.: 1614
Premises: Moruya Sewage Treatment Plant
Address: Queen Street, Moruya, NSW 2537
Licence Period: 1-Apr-24 to 31-Mar-25
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: **Aug-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
6-Aug-24	2.00	<5	7.00	<2	1.50	2100	16.20	0.19	0.04	15-Aug-24
100 Percentile Exceedance?	NO	NO	NO	NO	NO	YES	YES	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	5	5	5	5	5	5	5	5	5
Min	<2	<5	6.90	<2	0.70	2100	6.58	0.187	0.01
Mean	2.20	2.50	7.12	4.40	5.72	40020	11.82	0.221	0.03
Median (50th %ile)	2.00	2.50	7.10	5.00	1.80	48000	12.50	0.222	0.03
90th %ile	3.00	2.50	7.32	6.00	13.60	63200	15.76	0.255	0.05
Max (100th %ile)	3.00	<5	7.40	6.00	18.80	68000	16.20	0.268	0.05

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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-Aug-24	0	546.0	NO
2-Aug-24	0	566.0	NO
3-Aug-24	0	521.0	NO
4-Aug-24	0	539.0	NO
5-Aug-24	0	551.0	NO
6-Aug-24	0	564.0	NO
7-Aug-24	0	548.0	NO
8-Aug-24	0	565.0	NO
9-Aug-24	0	554.0	NO
10-Aug-24	0	515.0	NO
11-Aug-24	0	521.0	NO
12-Aug-24	0	564.0	NO
13-Aug-24	0	551.0	NO
14-Aug-24	0	573.0	NO
15-Aug-24	0	553.0	NO
16-Aug-24	0	551.0	NO
17-Aug-24	0	510.0	NO
18-Aug-24	0	508.0	NO
19-Aug-24	0	565.0	NO
20-Aug-24	0	551.0	NO
21-Aug-24	0	530.0	NO
22-Aug-24	0	571.0	NO
23-Aug-24	0	527.0	NO
24-Aug-24	0	514.0	NO
25-Aug-24	0	551.0	NO
26-Aug-24	0	589.0	NO
27-Aug-24	0	557.0	NO
28-Aug-24	0	529.0	NO
29-Aug-24	0	543.0	NO
30-Aug-24	0	511.0	NO
31-Aug-24	0	485.0	NO
Monthly Total	0	16823.0	
Monthly Minimum	0	485	
Monthly Mean	0.00	542.68	
Monthly Maximum	0	589	
Year to Date Total	418.5	142399.0	
Year to Date Minimum	0.0	144.0	
Year to Date Mean	2.74	930.71	
Year to Date Maximum	89.8	6035.0	

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Licence Point 7 (MO807) - 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
6-Aug-24	11	0.072	370	15-Aug-24

Licence Point 8 (MO808) - 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
6-Aug-24	4.07	0.026	230	15-Aug-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	5	5	5
Min	0.82	0.055	210
Mean	4.93	0.091	438
Median (50th %ile)	3.79	0.079	390
90th %ile	9.40	0.128	624
Max (100th %ile)	11.00	0.146	680

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	5	5	5
Min	0.78	0.026	230
Mean	3.61	0.081	524
Median (50th %ile)	3.79	0.079	340
90th %ile	5.65	0.129	964
Max (100th %ile)	6.70	0.130	1300

Licence Point 9 (MO809) - 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
6-Aug-24	0.21	0.009	11	15-Aug-24

Licence Point 10 (MO810) - 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
6-Aug-24	0.23	0.014	5	15-Aug-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	5	5	5
Min	0.19	0.009	11
Mean	0.43	0.020	87
Median (50th %ile)	0.39	0.014	91
90th %ile	0.71	0.036	158
Max (100th %ile)	0.84	0.049	170

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	5	5	5
Min	0.21	0.011	5
Mean	0.61	0.034	332
Median (50th %ile)	0.45	0.018	200
90th %ile	1.18	0.069	816
Max (100th %ile)	1.58	0.097	1200

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
6-Aug-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (2100 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond) Post finishing pond actual discharge results to Ryan's Creek (MO818) = <1 CFU/100mL.
6-Aug-24	Concentration Limit	Total Nitrogen	Total Nitrogen result (16.20 mg/L) exceeded 100 percentile concentration limit (15 mg/L) at monitoring point 3 (Prior to finishing pond) Post pond actual discharge results to Ryan's Creek MO818 = 13.5 mg/L exceeding 90 percentile concentration limit.

EPA Licence Point Map

