

Moruya Sewage Treatment Plant - Monthly Result Summary - July 2024



Anniversary Date: 1-Apr-24
Published Date: 7-Aug-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: Jul-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
9-Jul-24	3.00	<5	6.90	5.00	1.80	26000	15.10	0.22	0.03	23-Jul-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	4	4	4	4	4	4	4	4	4
Min	<2	<5	6.90	4.00	0.70	26000	6.58	0.187	0.01
Mean	2.25	2.50	7.15	5.25	6.78	49500	10.72	0.228	0.03
Median (50th %ile)	2.50	2.50	7.15	5.50	3.80	52000	10.61	0.229	0.03
90th %ile	3.00	2.50	7.34	6.00	14.90	64400	14.32	0.258	0.04
Max (100th %ile)	3.00	<5	7.40	6.00	18.80	68000	15.10	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-Jul-24	2.4	683.0	NO
2-Jul-24	0.2	695.0	NO
3-Jul-24	9	717.0	NO
4-Jul-24	0.6	869.0	NO
5-Jul-24	9.8	792.0	NO
6-Jul-24	0	720.0	NO
7-Jul-24	0.2	695.0	NO
8-Jul-24	1.4	770.0	NO
9-Jul-24	1.6	774.0	NO
10-Jul-24	0	723.0	NO
11-Jul-24	0	709.0	NO
12-Jul-24	1.1	673.0	NO
13-Jul-24	0	655.0	NO
14-Jul-24	0	625.0	NO
15-Jul-24	0	706.0	NO
16-Jul-24	2.4	640.0	NO
17-Jul-24	0.8	649.0	NO
18-Jul-24	0	650.0	NO
19-Jul-24	0	597.0	NO
20-Jul-24	0	597.0	NO
21-Jul-24	0	562.0	NO
22-Jul-24	0	608.0	NO
23-Jul-24	0	591.0	NO
24-Jul-24	0	419.0	NO
25-Jul-24	0	605.0	NO
26-Jul-24	0	531.0	NO
27-Jul-24	0	563.0	NO
28-Jul-24	0	538.0	NO
29-Jul-24	0	596.0	NO
30-Jul-24	0	573.0	NO
31-Jul-24	0	554.0	NO
Monthly Total	29.5	20079.0	
Monthly Minimum	0	419	
Monthly Mean	0.95	647.71	
Monthly Maximum	9.8	869	
Year to Date Total	418.5	125576.0	
Year to Date Minimum	0.0	144.0	
Year to Date Mean	3.43	1029.31	
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
9-Jul-24	0.82	0.055	390	23-Jul-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
9-Jul-24	0.78	0.043	290	23-Jul-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	4	4	4
Min	0.82	0.055	210
Mean	3.42	0.096	455
Median (50th %ile)	2.93	0.091	465
90th %ile	6.04	0.133	638
Max (100th %ile)	7.00	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	4	4	4
Min	0.78	0.043	290
Mean	3.50	0.095	598
Median (50th %ile)	3.26	0.104	400
90th %ile	5.83	0.129	1048
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
9-Jul-24	0.19	0.011	21	23-Jul-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
9-Jul-24	0.21	0.011	13	23-Jul-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	4	4	4
Min	0.19	0.011	21
Mean	0.49	0.023	106
Median (50th %ile)	0.46	0.015	116
90th %ile	0.74	0.039	161
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	4	4	4
Min	0.21	0.011	13
Mean	0.71	0.039	413
Median (50th %ile)	0.52	0.023	220
90th %ile	1.28	0.076	912
Max (100th %ile)	1.58	0.097	1200

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
9-Jul-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (26000 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.
9-Jul-24	Concentration Limit	Total Nitrogen	Total Nitrogen result (15.1 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 = 12.2 mg/L exceeding 90 percentile concentration limit.

EPA Licence Point Map

