

Moruya Sewage Treatment Plant - Monthly Result Summary - November 2024



Anniversary Date: 1-Apr-24
Published Date: 17-Dec-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: **Nov-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	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
26-Nov-24	<2	<5	7.20	<2	5.94	5800	6.25	0.43	0.05	9-Dec-24
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	9	9	9	9	9	9	9	9	9
Min	<2	<5	6.90	<2	0.70	2100	6.25	0.187	0.01
Mean	2.78	2.50	7.12	4.11	5.38	38533	10.52	0.273	0.04
Median (50th %ile)	2.00	2.50	7.10	4.00	2.80	44000	10.00	0.239	0.04
90th %ile	5.20	2.50	7.32	6.60	10.75	72200	15.32	0.406	0.06
Max (100th %ile)	6.00	<5	7.40	9.00	18.80	89000	16.20	0.427	0.08

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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-Nov-24	0	483.0	NO
2-Nov-24	0	438.0	NO
3-Nov-24	0	434.0	NO
4-Nov-24	0	520.0	NO
5-Nov-24	0.8	492.0	NO
6-Nov-24	0	465.0	NO
7-Nov-24	0	524.0	NO
8-Nov-24	0	450.0	NO
9-Nov-24	0	422.0	NO
10-Nov-24	0.2	425.0	NO
11-Nov-24	0	455.0	NO
12-Nov-24	0	458.0	NO
13-Nov-24	4	472.0	NO
14-Nov-24	0	441.0	NO
15-Nov-24	0	482.0	NO
16-Nov-24	6.4	491.0	NO
17-Nov-24	6.8	481.0	NO
18-Nov-24	0	541.0	NO
19-Nov-24	0	481.0	NO
20-Nov-24	0	447.0	NO
21-Nov-24	1.2	447.0	NO
22-Nov-24	0	467.0	NO
23-Nov-24	0	439.0	NO
24-Nov-24	0	410.0	NO
25-Nov-24	0	450.0	NO
26-Nov-24	0	481.0	NO
27-Nov-24	0	466.0	NO
28-Nov-24	0	496.0	NO
29-Nov-24	0	478.0	NO
30-Nov-24	8.6	1354.0	NO
Monthly Total	28	14890.0	
Monthly Minimum	0	410	
Monthly Mean	0.93	496.33	
Monthly Maximum	8.6	1354	
Year to Date Total	470.1	187541.0	
Year to Date Minimum	0.0	144.0	
Year to Date Mean	1.93	768.61	
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
26-Nov-24	0.9	0.073	680	9-Dec-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
26-Nov-24	0.49	0.035	540	9-Dec-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	9	9	9
Min	0.68	0.033	210
Mean	3.28	0.070	452
Median (50th %ile)	2.06	0.072	390
90th %ile	7.80	0.111	680
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	9	9	9
Min	0.30	0.015	49
Mean	2.25	0.057	429
Median (50th %ile)	0.78	0.035	340
90th %ile	4.60	0.128	692
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
26-Nov-24	0.25	0.015	55	9-Dec-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
26-Nov-24	0.26	0.024	10	9-Dec-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	9	9	9
Min	0.15	0.009	9
Mean	0.32	0.016	61
Median (50th %ile)	0.21	0.012	25
90th %ile	0.58	0.023	146
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	9	9	9
Min	0.19	0.011	4
Mean	0.43	0.026	187
Median (50th %ile)	0.23	0.016	10
90th %ile	0.78	0.042	432
Max (100th %ile)	1.58	0.097	1200

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
26-Nov-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (5800 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.

EPA Licence Point Map

