

Moruya Sewage Treatment Plant - Monthly Result Summary - September 2023



Anniversary Date: 1-Apr-23
Published Date: 5-Oct-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: **Sep-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
5-Sep-23	2.00	<5	6.10	4.00	0.80	22000	12.50	0.12	2.49	16-Sep-23
100 Percentile Exceedance?	NO	NO	YES	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	6	6	6	6	6	6	6	6	6
Min	<2	<5	6.10	<2	0.80	4800	7.14	0.121	0.02
Mean	2.50	2.50	6.97	2.67	3.17	30683	9.39	0.378	0.69
Median (50th %ile)	2.50	2.50	7.15	2.50	2.90	9650	9.19	0.340	0.36
90th %ile	3.50	2.50	7.20	4.00	5.60	76000	11.23	0.607	1.61
Max (100th %ile)	4.00	<5	7.20	4.00	6.40	130000	12.50	0.670	2.49

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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-Sep-22	0	458.0	NO
2-Sep-22	0	451.0	NO
3-Sep-22	0	440.0	NO
4-Sep-22	0	526.0	NO
5-Sep-22	0	516.0	NO
6-Sep-22	0	546.0	NO
7-Sep-22	0	515.0	NO
8-Sep-22	0	431.0	NO
9-Sep-22	0	441.0	NO
10-Sep-22	0	423.0	NO
11-Sep-22	0	521.0	NO
12-Sep-22	0.2	476.0	NO
13-Sep-22	0	486.0	NO
14-Sep-22	0	612.0	NO
15-Sep-22	0	536.0	NO
16-Sep-22	0	438.0	NO
17-Sep-22	0	435.0	NO
18-Sep-22	0	479.0	NO
19-Sep-22	0	468.0	NO
20-Sep-22	0	482.0	NO
21-Sep-22	0	522.0	NO
22-Sep-22	0	482.0	NO
23-Sep-22	0	450.0	NO
24-Sep-22	0	441.0	NO
25-Sep-22	0	492.0	NO
26-Sep-22	0	595.0	NO
27-Sep-22	1.6	473.0	NO
28-Sep-22	0.2	513.0	NO
29-Sep-22	0	587.0	NO
30-Sep-22	0	556.0	NO
Monthly Total	2	14791.0	
Monthly Minimum	0	423	
Monthly Mean	0.07	493.03	
Monthly Maximum	1.6	612	
Year to Date Total	119.3	97854.0	
Year to Date Minimum	0.0	417.0	
Year to Date Mean	0.65	534.72	
Year to Date Maximum	40.4	1534.0	

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Licence Point 7 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	
5-Sep-23	7.33	0.347	32	16-Sep-23

Licence Point 8 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	
5-Sep-23	7.55	0.481	29	16-Sep-23

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	6	6	6
Min	2.01	0.049	32
Mean	5.88	0.204	204
Median (50th %ile)	5.46	0.148	125
90th %ile	9.99	0.401	445
Max (100th %ile)	10.20	0.455	750

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	6	6	6
Min	1.11	0.040	29
Mean	3.54	0.124	148
Median (50th %ile)	2.43	0.052	84
90th %ile	6.72	0.278	325
Max (100th %ile)	7.55	0.481	340

Licence Point 9 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	
5-Sep-23	0.17	0.008	15	16-Sep-23

Licence Point 10 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	
5-Sep-23	0.21	0.013	14	16-Sep-23

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	6	6	6
Min	0.12	0.004	2
Mean	0.18	0.009	28
Median (50th %ile)	0.17	0.008	19
90th %ile	0.23	0.013	61
Max (100th %ile)	0.27	0.014	80

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	6	6	6
Min	0.16	0.006	14
Mean	0.20	0.012	57
Median (50th %ile)	0.20	0.012	24
90th %ile	0.24	0.015	129
Max (100th %ile)	0.25	0.015	200

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
5-Sep-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (22'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)
5-Sep-23	Concentration Limit	pH	pH result (6.1 pH units) exceeded 100 percentile concentration limit (6.5-8.5 pH units) at monitoring point 3 (Prior to finishing pond)
5-Sep-23	Concentration Limit	TN	Total Nitrogen result (12.5 mg/L) exceeded 90 percentile concentration limit (10 mg/L) at monitoring point 3 (Prior to finishing pond)
5-Sep-23	Concentration Limit	Ammonia	Ammonia result (2.49 mg/L) exceeded 90 percentile concentration limit (2 mg/L) at monitoring point 3 (Prior to finishing pond)

EPA Licence Point Map

