

## Moruya Sewage Treatment Plant - Monthly Result Summary - March 2024



Anniversary Date: 1-Apr-23  
Published Date: 10-Apr-24

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: **Mar-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
19-Mar-24	3.00	<5	7.10	5.00	5.20	57000	8.59	0.24	0.94	3-Apr-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	13	13	13	13	13	13	13	13	13
Min	<2	<5	6.10	<2	0.80	2000	4.11	0.121	0.01
Mean	2.46	2.50	7.08	3.31	15.20	29154	8.08	0.354	0.44
Median (50th %ile)	3.00	2.50	7.20	3.00	5.20	10000	8.38	0.315	0.20
90th %ile	3.80	2.50	7.28	5.00	35.94	79400	9.89	0.527	0.90
Max (100th %ile)	4.00	<5	7.30	5.00	82.80	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-Mar-24	0	585.0	NO
2-Mar-24	0.4	580.0	NO
3-Mar-24	0	605.0	NO
4-Mar-24	0	592.0	NO
5-Mar-24	0	557.0	NO
6-Mar-24	0	553.0	NO
7-Mar-24	0	539.0	NO
8-Mar-24	0	543.0	NO
9-Mar-24	0	546.0	NO
10-Mar-24	0	605.0	NO
11-Mar-24	0	543.0	NO
12-Mar-24	0	530.0	NO
13-Mar-24	0	554.0	NO
14-Mar-24	4	559.0	NO
15-Mar-24	5.6	486.0	NO
16-Mar-24	0.6	501.0	NO
17-Mar-24	6	1482.0	NO
18-Mar-24	39.4	1046.0	NO
19-Mar-24	1.2	895.0	NO
20-Mar-24	4.2	837.0	NO
21-Mar-24	0	683.0	NO
22-Mar-24	0.2	643.0	NO
23-Mar-24	3.4	633.0	NO
24-Mar-24	0.2	691.0	NO
25-Mar-24	0	619.0	NO
26-Mar-24	0	616.0	NO
27-Mar-24	0	594.0	NO
28-Mar-24	0.4	609.0	NO
29-Mar-24	0	628.0	NO
30-Mar-24	0	592.0	NO
31-Mar-24	0	486.0	NO
Monthly Total	65.6	19932.0	
Monthly Minimum	0	486	
Monthly Mean	2.12	642.97	
Monthly Maximum	39.4	1482	
Year to Date Total	421.9	257241.0	
Year to Date Minimum	0.0	398.0	
Year to Date Mean	1.15	702.84	
Year to Date Maximum	57.8	6214.0	

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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)	
19-Mar-24	1.62	0.178	3200	3-Apr-24

### 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)	
19-Mar-24	2.22	0.163	4700	3-Apr-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	13	13	13
Min	1.46	0.049	32
Mean	3.83	0.196	1099
Median (50th %ile)	2.01	0.128	230
90th %ile	9.29	0.433	2880
Max (100th %ile)	10.20	0.535	6000

### 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	13	13	13
Min	0.39	0.023	29
Mean	2.44	0.107	882
Median (50th %ile)	2.06	0.055	310
90th %ile	5.35	0.165	2280
Max (100th %ile)	7.55	0.481	4700

### 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)	
19-Mar-24	0.27	0.016	450	3-Apr-24

### 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)	
19-Mar-24	0.81	0.063	2700	3-Apr-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	13	13	13
Min	0.12	0.004	2
Mean	0.21	0.012	184
Median (50th %ile)	0.21	0.012	42
90th %ile	0.27	0.018	458
Max (100th %ile)	0.27	0.020	900

### 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	13	13	13
Min	0.16	0.006	4
Mean	0.26	0.019	282
Median (50th %ile)	0.21	0.014	26
90th %ile	0.27	0.028	352
Max (100th %ile)	0.81	0.063	2700

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### Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
19-Mar-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (57'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

### EPA Licence Point Map

