

## Moruya Sewage Treatment Plant - Monthly Result Summary - December 2021



Anniversary Date: 1-Apr-21  
Published Date: 14-Jan-22

Licensee: Eurobodalla Shire Council  
EPL No.: 1614  
Premises: Moruya Sewage Treatment Plant  
Address: Queen Street, Moruya, NSW 2537  
Licence Period: 1-Apr-21 to 31-Mar-22  
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: **Dec-21**

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
21-Dec-21	3.00	<5	7.60	4.00	15.20	48000	5.79	0.16	0.20	6-Jan-21
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	10	10	10	10	10	10	10	10	10
Min	<2	<5	7.20	<2	1.00	350	4.79	0.110	0.01
Mean	2.30	2.50	7.33	4.30	5.61	11466	5.61	0.205	0.14
Median (50th %ile)	2.00	2.50	7.30	4.50	2.60	2950	5.32	0.211	0.06
90th %ile	3.30	2.50	7.51	6.10	15.20	45300	6.37	0.268	0.26
Max (100th %ile)	6.00	<5	7.60	7.00	15.20	48000	7.55	0.296	0.76

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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-Dec-21	0	1040.0	NO
2-Dec-21	0	1000.0	NO
3-Dec-21	0	970.0	NO
4-Dec-21	1	850.0	NO
5-Dec-21	7.4	820.0	NO
6-Dec-21	0.6	790.0	NO
7-Dec-21	0	810.0	NO
8-Dec-21	20.2	1020.0	NO
9-Dec-21	0.2	950.0	NO
10-Dec-21	40.6	1770.0	NO
11-Dec-21	61.6	5470.0	NO
12-Dec-21	0.8	3310.0	NO
13-Dec-21	0	2150.0	NO
14-Dec-21	0	1800.0	NO
15-Dec-21	0	1630.0	NO
16-Dec-21	23	2030.0	NO
17-Dec-21	0.2	1790.0	NO
18-Dec-21	0	1370.0	NO
19-Dec-21	0	1140.0	NO
20-Dec-21	0	900.0	NO
21-Dec-21	0	920.0	NO
22-Dec-21	0	830.0	NO
23-Dec-21	1.8	850.0	NO
24-Dec-21	3.8	890.0	NO
25-Dec-21	0.2	820.0	NO
26-Dec-21	0	720.0	NO
27-Dec-21	1.2	770.0	NO
28-Dec-21	0	840.0	NO
29-Dec-21	0	840.0	NO
30-Dec-21	0	850.0	NO
31-Dec-21	0	820.0	NO
Monthly Total	162.6	40760.0	
Monthly Minimum	0	720	
Monthly Mean	5.25	1314.84	
Monthly Maximum	61.6	5470	
Year to Date Total	761.1	242258.0	
Year to Date Minimum	0.0	470.0	
Year to Date Mean	2.77	880.94	
Year to Date Maximum	62.4	5470.0	

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### Licence Point 7 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly	Monthly	
Sampling Method	Grab Sample	Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
21-Dec-21	1.15	0.065	6-Jan-21

### Licence Point 8 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly	Monthly	
Sampling Method	Grab Sample	Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
21-Dec-21	2.69	0.129	6-Jan-21

### Licence Point 7 - Ambient Water Monitoring (Year to Date Results)

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	10	10
Min	0.77	0.028
Mean	1.38	0.067
Median (50th %ile)	1.12	0.045
90th %ile	2.27	0.104
Max (100th %ile)	3.43	0.183

### Licence Point 8 - Ambient Water Monitoring (Year to Date Results)

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	10	10
Min	0.54	0.019
Mean	1.71	0.062
Median (50th %ile)	1.74	0.043
90th %ile	2.24	0.126
Max (100th %ile)	2.69	0.129

### Licence Point 9 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly		
Sampling Method	Grab Sample	Total Phosphorus	
Sampled Date	Total Nitrogen (mg/L)	(mg/L)	Obtained Date
21-Dec-21	0.68	0.036	6-Jan-21

### Licence Point 10 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly		
Sampling Method	Grab Sample	Total Phosphorus	
Sampled Date	Total Nitrogen (mg/L)	(mg/L)	Obtained Date
21-Dec-21	0.96	0.064	6-Jan-21

### Licence Point 9 - Ambient Water Monitoring (Year To Date Results)

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	10	10
Min	0.17	0.004
Mean	0.36	0.011
Median (50th %ile)	0.26	0.008
90th %ile	0.60	0.016
Max (100th %ile)	0.68	0.036

### Licence Point 10 - Ambient Water Monitoring (Year To Date Results)

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	10	10
Min	0.16	0.006
Mean	0.38	0.017
Median (50th %ile)	0.27	0.011
90th %ile	0.62	0.032
Max (100th %ile)	0.96	0.064

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### Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
21-Dec-21	Concentration Limit	Faecal Coliforms	Faecal Coliform result (48'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3

### EPA Licence Point Map

