

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



Anniversary Date: 1-Apr-21  
Published Date: 5-Aug-21

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: Jul-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	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		
Sampling Method	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	
Sampled Date	13-Jul-21	6.00	<5	7.30	7.00	2.50	45000	7.55	0.30	0.12	23-Jul-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	4	4	4	4	4	4	4	4	4
Min	<2	<5	7.20	<2	1.00	1300	4.79	0.110	0.01
Mean	2.75	2.50	7.30	5.00	5.25	12825	5.77	0.200	0.05
Median (50th %ile)	2.00	2.50	7.30	6.00	2.40	2500	5.37	0.196	0.03
90th %ile	5.10	2.50	7.37	6.70	11.39	32550	7.00	0.280	0.10
Max (100th %ile)	6.00	<5	7.40	7.00	15.20	45000	7.55	0.296	0.12

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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-21	2.8	734.0	NO
2-Jul-21	0	699.0	NO
3-Jul-21	0	666.0	NO
4-Jul-21	0	630.0	NO
5-Jul-21	0	685.0	NO
6-Jul-21	0	664.0	NO
7-Jul-21	0	636.0	NO
8-Jul-21	0.2	672.0	NO
9-Jul-21	0	640.0	NO
10-Jul-21	4.4	622.0	NO
11-Jul-21	0.2	605.0	NO
12-Jul-21	0	662.0	NO
13-Jul-21	0.2	631.0	NO
14-Jul-21	0	621.0	NO
15-Jul-21	0	682.0	NO
16-Jul-21	0	629.0	NO
17-Jul-21	0	594.0	NO
18-Jul-21	0	572.0	NO
19-Jul-21	0	595.0	NO
20-Jul-21	0	638.0	NO
21-Jul-21	0	574.0	NO
22-Jul-21	0	625.0	NO
23-Jul-21	0.2	557.0	NO
24-Jul-21	0.2	562.0	NO
25-Jul-21	0	562.0	NO
26-Jul-21	0	579.0	NO
27-Jul-21	0	575.0	NO
28-Jul-21	0	589.0	NO
29-Jul-21	0	566.0	NO
30-Jul-21	0	577.0	NO
31-Jul-21	0	529.0	NO
Monthly Total	8.2	19172.0	
Monthly Minimum	0	529	
Monthly Mean	0.26	618.45	
Monthly Maximum	4.4	734	
Year to Date Total	290.4	104538.0	
Year to Date Minimum	0.0	470.0	
Year to Date Mean	2.38	856.87	
Year to Date Maximum	62.4	4828.0	

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

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
13-Jul-21	0.77	0.028	23-Jul-21

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

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
13-Jul-21	1.85	0.026	23-Jul-21

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	0.77	0.028
Mean	0.91	0.039
Median (50th %ile)	0.83	0.041
90th %ile	1.11	0.045
Max (100th %ile)	1.22	0.046

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	0.54	0.026
Mean	1.51	0.035
Median (50th %ile)	1.65	0.035
90th %ile	2.09	0.044
Max (100th %ile)	2.19	0.045

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

Frequency Sampling Method	Monthly Grab Sample		
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
13-Jul-21	0.17	0.004	23-Jul-21

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

Frequency Sampling Method	Monthly Grab Sample		
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
13-Jul-21	0.16	0.006	23-Jul-21

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	0.17	0.004
Mean	0.32	0.007
Median (50th %ile)	0.27	0.007
90th %ile	0.51	0.010
Max (100th %ile)	0.57	0.011

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	0.16	0.006
Mean	0.31	0.009
Median (50th %ile)	0.28	0.008
90th %ile	0.47	0.012
Max (100th %ile)	0.51	0.014

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### Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
13-Jul-21	Concentration Limit	Faecal Coliforms	100 Percentile concentration limit exceeded. Operators to assess UV system. Enquire with EPA to move licence point to end of finishing pond.

### EPA Licence Point Map

