

Moruya Sewage Treatment Plant - Monthly Result Summary - April 2022



Anniversary Date: 1-Apr-21
Published Date: 25-Jul-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: **Apr-22**

| 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 |
| 20-Apr-22 | 4.00 | <5 | 7.70 | 12.00 | 16.60 | 5200 | 5.06 | 0.19 | 0.35 | 29-Apr-22 |
| 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Min | 4.00 | <5 | 7.70 | 12.00 | 16.60 | 5200 | 5.06 | 0.186 | 0.35 |
| Mean | 4.00 | 2.50 | 7.70 | 12.00 | 16.60 | 5200 | 5.06 | 0.186 | 0.35 |
| Median (50th %ile) | 4.00 | 2.50 | 7.70 | 12.00 | 16.60 | 5200 | 5.06 | 0.186 | 0.35 |
| 90th %ile | 4.00 | 2.50 | 7.70 | 12.00 | 16.60 | 5200 | 5.06 | 0.186 | 0.35 |
| Max (100th %ile) | 4.00 | <5 | 7.70 | 12.00 | 16.60 | 5200 | 5.06 | 0.186 | 0.35 |

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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-Apr-21 | 0 | 878.0 | NO |
| 2-Apr-21 | 5.2 | 814.0 | NO |
| 3-Apr-21 | 0 | 830.0 | NO |
| 4-Apr-21 | 0 | 800.0 | NO |
| 5-Apr-21 | 0 | 748.0 | NO |
| 6-Apr-21 | 0 | 1182.0 | NO |
| 7-Apr-21 | 17.6 | 4420.0 | NO |
| 8-Apr-21 | 0 | 5125.0 | NO |
| 9-Apr-21 | 0 | 4420.0 | NO |
| 10-Apr-21 | 0 | 2460.0 | NO |
| 11-Apr-21 | 0 | 1873.0 | NO |
| 12-Apr-21 | 0 | 1869.0 | NO |
| 13-Apr-21 | 0 | 1430.0 | NO |
| 14-Apr-21 | 0 | 1207.0 | NO |
| 15-Apr-21 | 0 | 1089.0 | NO |
| 16-Apr-21 | 0 | 1050.0 | NO |
| 17-Apr-21 | 0 | 1015.0 | NO |
| 18-Apr-21 | 0 | 954.0 | NO |
| 19-Apr-21 | 16 | 1221.0 | NO |
| 20-Apr-21 | 6.8 | 1746.0 | NO |
| 21-Apr-21 | 0 | 1270.0 | NO |
| 22-Apr-21 | 0 | 1076.0 | NO |
| 23-Apr-21 | 0 | 0.0 | NO |
| 24-Apr-21 | 3.6 | 952.0 | NO |
| 25-Apr-21 | 0 | 904.0 | NO |
| 26-Apr-21 | 0.2 | 946.0 | NO |
| 27-Apr-21 | 4.8 | 886.0 | NO |
| 28-Apr-21 | 4.8 | 970.0 | NO |
| 29-Apr-21 | 0 | 888.0 | NO |
| 30-Apr-21 | 0.2 | 815.0 | NO |
| Monthly Total | 59.2 | 43838.0 | |
| Monthly Minimum | 0 | 0 | |
| Monthly Mean | 1.97 | 1461.27 | |
| Monthly Maximum | 17.6 | 5125 | |
| Year to Date Total | 59.2 | 43838.0 | |
| Year to Date Minimum | 0.0 | 0.0 | |
| Year to Date Mean | 1.97 | 1461.27 | |
| Year to Date Maximum | 17.6 | 5125.0 | |

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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 |
| 20-Apr-22 | 1.22 | 1.220 | 29-Apr-22 |

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 |
| 20-Apr-22 | 1.25 | 0.147 | 29-Apr-22 |

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

| Year to Date | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) |
|--------------------|-----------------------|-------------------------|
| Samples | 1 | 1 |
| Min | 1.22 | 0.144 |
| Mean | 1.22 | 0.144 |
| Median (50th %ile) | 1.22 | 0.144 |
| 90th %ile | 1.22 | 0.144 |
| Max (100th %ile) | 1.22 | 0.144 |

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

| Year to Date | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) |
|--------------------|-----------------------|-------------------------|
| Samples | 1 | 1 |
| Min | 1.25 | 0.147 |
| Mean | 1.25 | 0.147 |
| Median (50th %ile) | 1.25 | 0.147 |
| 90th %ile | 1.25 | 0.147 |
| Max (100th %ile) | 1.25 | 0.147 |

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 |
| 20-Apr-22 | 0.45 | 0.023 | 29-Apr-22 |

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 |
| 20-Apr-22 | 0.47 | 0.029 | 29-Apr-22 |

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

| Year to Date | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) |
|--------------------|-----------------------|-------------------------|
| Samples | 1 | 1 |
| Min | 0.45 | 0.023 |
| Mean | 0.45 | 0.023 |
| Median (50th %ile) | 0.45 | 0.023 |
| 90th %ile | 0.45 | 0.023 |
| Max (100th %ile) | 0.45 | 0.023 |

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

| Year to Date | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) |
|--------------------|-----------------------|-------------------------|
| Samples | 1 | 1 |
| Min | 0.47 | 0.029 |
| Mean | 0.47 | 0.029 |
| Median (50th %ile) | 0.47 | 0.029 |
| 90th %ile | 0.47 | 0.029 |
| Max (100th %ile) | 0.47 | 0.029 |

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Monthly Exceedance Report

| Date | Exceedance Type | Parameter | Description / Action |
|-----------|---------------------|------------------|---|
| 20-Apr-22 | Concentration Limit | Faecal Coliforms | Faecal Coliform result (5200 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 |

EPA Licence Point Map

