

Moruya Sewage Treatment Plant - Monthly Result Summary - October 2020



Licensee: Eurobodalla Shire Council
 EPL No.: 1614
 Premises: Moruya Sewage Treatment Plant
 Address: Queen Street, Moruya, NSW 2537
 Licence Period: 01-Apr-20 to 31-Mar-21
 EPL Link: <https://apps.epa.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=183818&SYSUID=1&LICID=1614>
 POEO Public Register: <https://apps.epa.nsw.gov.au/prpoeoapp/>

Anniversary Date: 01-Apr-20
 Published Date: 06-Nov-20

Required Month: **Oct-20**

Licence Point / Type of Point: Licence Point 6 - Discharge to Utilisation Area

| Parameters | Unit of Measure | 50 percentile concentration limit | 90 percentile concentration limit | 100 percentile concentration limit |
|--------------------------|-----------------|-----------------------------------|-----------------------------------|------------------------------------|
| Biological Oxygen Demand | (mg/L) | 10 | - | 20 |
| Oil and Grease | (mg/L) | - | - | 10 |
| Total Nitrogen | (mg/L) | - | 15 | - |
| Total Phosphorus | (mg/L) | - | 1 | - |
| Total Suspended Solids | (mg/L) | 20 | - | 30 |

See Note 1

Licence Point/Type of Point Licence Point 11 - Discharge to Waters

| Parameters | Unit of Measure | 50 percentile concentration limit | 90 percentile concentration limit | 100 percentile concentration limit |
|--------------------------|-----------------|-----------------------------------|-----------------------------------|------------------------------------|
| Biological Oxygen Demand | (mg/L) | 10 | - | 20 |
| Oil and Grease | (mg/L) | - | - | 10 |
| Total Nitrogen | (mg/L) | - | 15 | - |
| Total Phosphorus | (mg/L) | - | 1 | - |
| Total Suspended Solids | (mg/L) | 20 | - | 30 |

See Note 1

Note 1: A 100 Percentile Concentration Limit of "10 mg/L and no visible oil and grease" applies for Point 11 and Point 6.
 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 Point 11 and 6 as described in condition L3.

Licence Point / Type of Point: Licence Point 3 - Effluent Quality Monitoring

| Sample Frequency | Monthly | Special Frequency 1 | Monthly | Monthly | Monthly | Monthly | |
|------------------|--------------------------|---------------------|----------------|----------------|------------------|------------------------|---------------|
| Sampling Method | Composite | Grab | Grab | Composite | Composite | Composite | |
| Parameters | Biological Oxygen Demand | Chlorophyll a | Oil and Grease | Total Nitrogen | Total Phosphorus | Total Suspended Solids | |
| Unit of Measure | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | |
| Sample Date | | | | | | | Obtained Date |
| 06-Oct-20 | 2 | 0.0044 | <5 | 3.88 | 0.059 | 13 | 15-Oct-20 |
| Minimum Value | 2 | 0.0044 | <5 | 3.88 | 0.059 | 13 | |
| Maximum Value | 2 | 0.0044 | <5 | 3.88 | 0.059 | 13 | |

Note 1: Special Frequency 1 means collect and store sample monthly, at the same time as Biochemical Oxygen Demand or Total Suspended Solids sampling. If the Biochemical Oxygen Demand or Total Suspended Solids 100 percentile concentration limit is exceeded as per condition L3.3, then analyse the
 Note 2: For the purpose of this licence, a composite sample is defined as at least three grab samples forming a pooled sample, with the first and last samples taken at least seven hours apart.

100 Percentile - Licence Condition

| Sample Date | Biological Oxygen Demand | | | Oil and Grease | | | Total Suspended Solids | | |
|-------------|--------------------------|--------------------------------------|------------|----------------|--------------------------------------|------------|------------------------|--------------------------------------|------------|
| | Measurement | Actual 100 Percentile to Sample Date | Exceedance | Measurement | Actual 100 Percentile to Sample Date | Exceedance | Measurement | Actual 100 Percentile to Sample Date | Exceedance |
| 06-Oct-20 | 2 | 5 | NO | <5 | 10 | NO | 13 | 13 | NO |

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| Licence Point / Type of Point: Licence Point 7 - Ambient Water Monitoring | | | |
|---|----------------|------------------|---------------|
| Sample Frequency | Monthly | Monthly | |
| Sampling Method | Grab | Grab | |
| Parameters | Total Nitrogen | Total Phosphorus | |
| Unit of Measure | (mg/L) | (mg/L) | |
| Sample Date | | | Obtained Date |
| 06-Oct-20 | 0.86 | 0.033 | 15-Oct-20 |

| Licence Point / Type of Point: Licence Point 9 - Ambient Water Monitoring | | | |
|---|----------------|------------------|---------------|
| Sample Frequency | Monthly | Monthly | |
| Sampling Method | Grab | Grab | |
| Parameters | Total Nitrogen | Total Phosphorus | |
| Unit of Measure | (mg/L) | (mg/L) | |
| Sample Date | | | Obtained Date |
| 06-Oct-20 | 0.23 | 0.012 | 15-Oct-20 |

| Licence Point / Type of Point: Licence Point 8 - Ambient Water Monitoring | | | |
|---|----------------|------------------|---------------|
| Sample Frequency | Monthly | Monthly | |
| Sampling Method | Grab | Grab | |
| Parameters | Total Nitrogen | Total Phosphorus | |
| Unit of Measure | (mg/L) | (mg/L) | |
| Sample Date | | | Obtained Date |
| 06-Oct-20 | 1.55 | 0.018 | 15-Oct-20 |

| Licence Point / Type of Point: Licence Point 10 - Ambient Water Monitoring | | | |
|--|----------------|------------------|---------------|
| Sample Frequency | Monthly | Monthly | |
| Sampling Method | Grab | Grab | |
| Parameters | Total Nitrogen | Total Phosphorus | |
| Unit of Measure | (mg/L) | (mg/L) | |
| Sample Date | | | Obtained Date |
| 06-Oct-20 | 0.26 | 0.015 | 15-Oct-20 |

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| Licence Point / Type of Point: Licence Point 2 - Influent Volume Monitoring | | | |
|---|-----------------------|-------------------------|------------|
| Sample Frequency | Daily (Continuous) | Maximum Daily Flow (kL) | 14000 |
| Sampling Method | Ultrasonic Flow Meter | | |
| Parameters | Rainfall | Flow | Exceedance |
| Unit of Measure | (mm) | (kL) | (YES/NO) |
| Sample Date | | | |
| 1-Oct-20 | 0.6 | 637 | NO |
| 2-Oct-20 | 0 | 593 | NO |
| 3-Oct-20 | 0 | 653 | NO |
| 4-Oct-20 | 0 | 653 | NO |
| 5-Oct-20 | 0 | 673 | NO |
| 6-Oct-20 | 9.6 | 626 | NO |
| 7-Oct-20 | 21.8 | 661 | NO |
| 8-Oct-20 | 8.2 | 1324 | NO |
| 9-Oct-20 | 0 | 1708 | NO |
| 10-Oct-20 | 0 | 1041 | NO |
| 11-Oct-20 | 0.8 | 893 | NO |
| 12-Oct-20 | 0 | 645 | NO |
| 13-Oct-20 | 0 | 660 | NO |
| 14-Oct-20 | 1.6 | 600 | NO |
| 15-Oct-20 | 0.2 | 695 | NO |
| 16-Oct-20 | 6.2 | 807 | NO |
| 17-Oct-20 | 6.8 | 630 | NO |
| 18-Oct-20 | 4 | 850 | NO |
| 19-Oct-20 | 0 | 1119 | NO |
| 20-Oct-20 | 0 | 731 | NO |
| 21-Oct-20 | 0 | 624 | NO |
| 22-Oct-20 | 0 | 582 | NO |
| 23-Oct-20 | 0 | 619 | NO |
| 24-Oct-20 | 16.4 | 570 | NO |
| 25-Oct-20 | 14.8 | 737 | NO |
| 26-Oct-20 | 16.2 | 873 | NO |
| 27-Oct-20 | 10.4 | 1218 | NO |
| 28-Oct-20 | 0.2 | 1183 | NO |
| 29-Oct-20 | 0 | 948 | NO |
| 30-Oct-20 | 0.4 | 927 | NO |
| 31-Oct-20 | 76 | 856 | NO |
| Monthly Total | 194 | 25336 | |
| Monthly Minimum | 0 | 570 | |
| Monthly Maximum | 76 | 1708 | |

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Exceedance Report

| Date | Exceedance Type | Parameter | Description / Action |
|------|-----------------|-----------|----------------------|
| | | | |

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