

Tomakin Sewage Treatment Plant - Monthly Result Summary - November 2023



Anniversary Date: 1-Apr-23
Published Date: 18-Dec-23

Licensee: Eurobodalla Shire Council

EPL No.: 2851

Premises: Tomakin Sewage Treatment Plant

Address: George Bass Drive, Tomakin, NSW 2537

Licence Period: 01-Apr-23 to 31-Mar-24

EPL Link: <https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOlicence.aspx?DOCID=206033&SYSUID=1&LICID=2851>

POEO Public Register: <https://apps.epa.nsw.gov.au/prpoeoapp/>

Required Month: **Nov-23**

| Licence Point 1 - 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) | 8 | 10 |
| 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 Point 1 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 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) | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) | Ammonia (mg/L) | Obtained Date | |
| Sampled Date | 28-Nov-23 | <2 | <5 | 8.40 | <2 | 1.80 | 0.92 | 6.70 | 0.07 | 8-Dec-23 |
| 100 Percentile Exceedance? | NO | NO | NO | NO | NO | NO | 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) | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) | Ammonia (mg/L) |
| Samples | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Min | <2 | <5 | 7.50 | <2 | 1.80 | 0.92 | 6.700 | 0.02 |
| Mean | 1.00 | 2.50 | 7.86 | 3.11 | 5.90 | 2.86 | 8.496 | 0.17 |
| Median (50th %ile) | 1.00 | 2.50 | 7.70 | 1.00 | 3.80 | 2.60 | 8.300 | 0.05 |
| 90th %ile | 1.00 | 2.50 | 8.32 | 6.60 | 12.68 | 4.74 | 9.596 | 0.30 |
| Max (100th %ile) | <2 | <5 | 8.40 | 13.00 | 14.60 | 5.11 | 10.700 | 1.08 |

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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-Nov-23 | 0 | 1085.8 | NO |
| 2-Nov-23 | 0 | 1092.1 | NO |
| 3-Nov-23 | 0 | 1086.5 | NO |
| 4-Nov-23 | 0 | 1152.8 | NO |
| 5-Nov-23 | 15 | 1328.9 | NO |
| 6-Nov-23 | 14.5 | 1556.5 | NO |
| 7-Nov-23 | 0 | 1260.8 | NO |
| 8-Nov-23 | 3 | 1172.8 | NO |
| 9-Nov-23 | 5 | 1277.9 | NO |
| 10-Nov-23 | 0.5 | 1123.2 | NO |
| 11-Nov-23 | 0 | 1188.0 | NO |
| 12-Nov-23 | 0 | 1324.2 | NO |
| 13-Nov-23 | 0 | 1176.0 | NO |
| 14-Nov-23 | 0 | 1082.8 | NO |
| 15-Nov-23 | 3.5 | 1104.0 | NO |
| 16-Nov-23 | 1 | 1146.6 | NO |
| 17-Nov-23 | 10.5 | 1229.8 | NO |
| 18-Nov-23 | 0.5 | 1279.4 | NO |
| 19-Nov-23 | 0 | 1259.8 | NO |
| 20-Nov-23 | 0 | 1275.9 | NO |
| 21-Nov-23 | 0 | 1171.4 | NO |
| 22-Nov-23 | 2.5 | 1119.1 | NO |
| 23-Nov-23 | 1.5 | 1119.8 | NO |
| 24-Nov-23 | 8 | 1156.9 | NO |
| 25-Nov-23 | 1.5 | 1180.7 | NO |
| 26-Nov-23 | 7 | 1410.1 | NO |
| 27-Nov-23 | 0 | 1180.7 | NO |
| 28-Nov-23 | 32.5 | 1682.8 | NO |
| 29-Nov-23 | 86 | 3231.4 | NO |
| 30-Nov-23 | 28 | 6015.1 | NO |
| Monthly Total | 220.50 | 43471.64 | |
| Monthly Minimum | 0.00 | 1082.80 | |
| Monthly Mean | 7.35 | 1449.05 | |
| Monthly Maximum | 86.00 | 6015.14 | |
| Year to Date Total | 399.00 | 298402.56 | |
| Year to Date Minimum | 0.00 | 966.86 | |
| Year to Date Mean | 1.64 | 1222.96 | |
| Year to Date Maximum | 86.00 | 6015.14 | |

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| Licence Point 3 - Ambient Water Monitoring (Monthly Result) | | |
|---|------------------------------|---------------|
| Frequency | Special Frequency 2* | |
| Sampling Method | Grab Sample | |
| Sampled Date | Faecal Coliforms (CFU/100mL) | Obtained Date |
| 7-Nov-23 | 930 | 11-Nov-23 |
| 14-Nov-23 | 450 | 24-Nov-23 |
| 21-Nov-23 | 400 | 25-Nov-23 |
| 28-Nov-23 | 620 | 8-Dec-23 |

| Licence Point 4 - Ambient Water Monitoring (Monthly Result) | | |
|---|------------------------------|---------------|
| Frequency | Special Frequency 2* | |
| Sampling Method | Grab Sample | |
| Sampled Date | Faecal Coliforms (CFU/100mL) | Obtained Date |
| 7-Nov-23 | <1 | 7-Nov-23 |
| 14-Nov-23 | 8 | 14-Nov-23 |
| 21-Nov-23 | <1 | 21-Nov-23 |
| 28-Nov-23 | 2 | 28-Nov-23 |

* Special Frequency 2: at least weekly during the months of November, December, January, February and March

| Licence Point 3 - Ambient Water Monitoring (Year to Date Results) | |
|---|------------------------------|
| Year to Date | Faecal Coliforms (CFU/100mL) |
| Samples | 4 |
| Min | 400 |
| Mean | 600.00 |
| Median (50th %ile) | 535 |
| 90th %ile | 837 |
| Max (100th %ile) | 930 |

| Licence Point 4 - Ambient Water Monitoring (Year to Date Results) | |
|---|------------------------------|
| Year to Date | Faecal Coliforms (CFU/100mL) |
| Samples | 4 |
| Min | <1 |
| Mean | 2.50 |
| Median (50th %ile) | 1 |
| 90th %ile | 6 |
| Max (100th %ile) | 8 |

| Monthly Exceedance Report | | | |
|---------------------------|---------------------|------------------|---|
| Date | Exceedance Type | Parameter | Description / Action |
| 7-Nov-23 | Concentration limit | Faecal Coliforms | Faecal Coliforms result (930 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 |
| 14-Nov-23 | Concentration limit | Faecal Coliforms | Faecal Coliforms result (450 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3 |
| 21-Nov-23 | Concentration limit | Faecal Coliforms | Faecal Coliforms result (400 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3 |
| 28-Nov-23 | Concentration limit | Faecal Coliforms | Faecal Coliforms result (620 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 |

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EPA Licence Point Map

