

Narooma Sewage Treatment Plant - Monthly Result Summary - December 2022



Anniversary Date: 1-Apr-21
Published Date: 23-Feb-23

Licensee: Eurobodalla Shire Council
EPL No.: 1398
Premises: Narooma Sewage Treatment Plant
Address: Lakeside Drive, Narooma, NSW 2546
Licence Period: 01-Apr-21 to 31-Mar-22
EPL Link: <https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=206031&SYSUID=1&LICID=1398>
POEO Public Register: <https://apps.epa.nsw.gov.au/prpoeoapp/>

Required Month: **Dec-22**

| Licence Point 1 - Discharge to Waters - Point 1 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 | 25 |
| Chlorophyll a | (mg/m3) | | |
| Faecal Coliforms | (CFU/100mL) | 200 | 600 |
| Total Nitrogen | (mg/L) | 15 | 20 |
| 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 | 6 Times Per Year | 6 Times Per Year | 6 Times Per Year | 6 Times Per Year | 6 Times Per Year | Special Frequency 2* | 6 Times Per Year | 6 Times Per Year | 6 Times Per Year | |
| Sampling Method | Composite Sample | Grab Sample | Grab Sample | Composite Sample | Grab Sample | Grab Sample | Composite Sample | Composite Sample | Composite Sample | 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 |
| 6-Dec-22 | | | | | | 69 | | | | 11-Dec-22 |
| 14-Dec-22 | | | | | | 44 | | | | 29-Dec-22 |
| 20-Dec-22 | <2 | <5 | 7.60 | <2 | 0.50 | 45 | 2.48 | 6.96 | 0.14 | 31-Dec-22 |
| 28-Dec-22 | | | | | | 690 | | | | 2-Jan-23 |
| 100 Percentile Exceedance? | NO | NO | NO | NO | NO | YES | NO | NO | NO | |

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

| 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 | 16 | 10 | 10 | 10 |
| Min | <2 | <5 | 7.00 | <2 | 0.50 | 7 | 1.50 | 1.750 | 0.07 |
| Mean | 2.40 | 2.50 | 7.48 | 3.60 | 4.49 | 214 | 4.84 | 5.067 | 0.34 |
| Median (50th %ile) | 2.50 | 2.50 | 7.55 | 2.00 | 3.30 | 64 | 3.65 | 4.990 | 0.21 |
| 90th %ile | 4.00 | 2.50 | 7.80 | 6.20 | 10.02 | 705 | 9.99 | 7.266 | 0.77 |
| Max (100th %ile) | 4.00 | <5 | 7.80 | 17.00 | 10.20 | 920 | 14.30 | 8.220 | 1.23 |

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| Licence Point 2 - Influent Volume Monitoring | | | |
|--|-----------------------|-------------------------|---------------------|
| Sample Frequency | Daily (Continuous) | Maximum Daily flow (kL) | 20000 |
| Sampling Method | Ultrasonic Flow Meter | | |
| Sample Date | Rainfall (mm) | Plant inflow (kL) | Exceedance (YES/NO) |
| 1-Dec-22 | 1 | 1444.9 | NO |
| 2-Dec-22 | 0.2 | 1459.3 | NO |
| 3-Dec-22 | 0 | 1498.1 | NO |
| 4-Dec-22 | 0 | 1547.6 | NO |
| 5-Dec-22 | 8 | 1546.0 | NO |
| 6-Dec-22 | 0.6 | 1546.8 | NO |
| 7-Dec-22 | 0 | 1604.0 | NO |
| 8-Dec-22 | 9.2 | 1434.9 | NO |
| 9-Dec-22 | 0 | 1603.2 | NO |
| 10-Dec-22 | 0 | 1532.4 | NO |
| 11-Dec-22 | 0 | 1536.7 | NO |
| 12-Dec-22 | 4 | 1542.3 | NO |
| 13-Dec-22 | 0 | 1539.0 | NO |
| 14-Dec-22 | 4.8 | 1588.7 | NO |
| 15-Dec-22 | 0.6 | 1483.1 | NO |
| 16-Dec-22 | 0.6 | 1456.0 | NO |
| 17-Dec-22 | 0 | 1439.5 | NO |
| 18-Dec-22 | 0 | 1497.9 | NO |
| 19-Dec-22 | 0 | 1565.7 | NO |
| 20-Dec-22 | 0 | 1580.2 | NO |
| 21-Dec-22 | 0.2 | 1642.3 | NO |
| 22-Dec-22 | 0.4 | 1603.4 | NO |
| 23-Dec-22 | 0 | 1540.4 | NO |
| 24-Dec-22 | 0 | 1645.6 | NO |
| 25-Dec-22 | 0 | 1749.9 | NO |
| 26-Dec-22 | 0 | 1657.6 | NO |
| 27-Dec-22 | 0 | 1876.1 | NO |
| 28-Dec-22 | 0 | 2017.3 | NO |
| 29-Dec-22 | 0 | 2103.1 | NO |
| 30-Dec-22 | 9.8 | 2103.1 | NO |
| 31-Dec-22 | 4.2 | 2222.9 | NO |
| Monthly Total | 43.60 | 50607.58 | |
| Monthly Minimum | 0.00 | 1434.85 | |
| Monthly Mean | 1.41 | 1632.50 | |
| Monthly Maximum | 9.80 | 2222.86 | |
| Year to Date Total | 815.60 | 557783.03 | |
| Year to Date Minimum | 0.00 | 1316.00 | |
| Year to Date Mean | 2.97 | 2028.30 | |
| Year to Date Maximum | 71.40 | 10515.43 | |

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| Licence Point 4 - Ambient Water Monitoring (Monthly Result) | | |
|---|------------------------------|---------------|
| Frequency | Special Frequency 2* | |
| Sampling Method | Grab Sample | |
| Sampled Date | Faecal Coliforms (CFU/100mL) | Obtained Date |
| 6-Dec-22 | 1 | 11-Dec-22 |
| 14-Dec-22 | 5 | 29-Dec-22 |
| 20-Dec-22 | <1 | 31-Dec-22 |
| 28-Dec-22 | 4 | 2-Jan-23 |

| Licence Point 5 - Ambient Water Monitoring (Monthly Result) | | |
|---|------------------------------|---------------|
| Frequency | Special Frequency 2* | |
| Sampling Method | Grab Sample | |
| Sampled Date | Faecal Coliforms (CFU/100mL) | Obtained Date |
| 6-Dec-22 | 21 | 11-Dec-22 |
| 14-Dec-22 | 1 | 29-Dec-22 |
| 20-Dec-22 | <1 | 31-Dec-22 |
| 28-Dec-22 | 4 | 2-Jan-23 |

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

| Licence Point 4 - Ambient Water Monitoring (Year to Date Results) | |
|---|------------------------------|
| Year to Date | Faecal Coliforms (CFU/100mL) |
| Samples | 9 |
| Min | <1 |
| Mean | 6.78 |
| Median (50th %ile) | 1 |
| 90th %ile | 1 |
| Max (100th %ile) | 47 |

| Licence Point 5 - Ambient Water Monitoring (Year to Date Results) | |
|---|------------------------------|
| Year to Date | Faecal Coliforms (CFU/100mL) |
| Samples | 9 |
| Min | <1 |
| Mean | 6.67 |
| Median (50th %ile) | 1 |
| 90th %ile | 1 |
| Max (100th %ile) | 21 |

| Monthly Exceedance Report | | | |
|---------------------------|---------------------|------------------|--|
| Date | Exceedance Type | Parameter | Description / Action |
| 28-Dec-22 | Concentration limit | Faecal Coliforms | Faecal Coliform result (690 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 |

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EPA Licence Point Map

