

Narooma Sewage Treatment Plant - Monthly Result Summary - February 2023



Anniversary Date: 1-Apr-21
Published Date: 13-Mar-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: **Feb-23**

| 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 Sampling Method | 6 Times Per Year Composite Sample | 6 Times Per Year Grab Sample | 6 Times Per Year Grab Sample | 6 Times Per Year Composite Sample | 6 Times Per Year Grab Sample | Special Frequency 2* Grab Sample | 6 Times Per Year Composite Sample | 6 Times Per Year Composite Sample | 6 Times Per Year Grab Sample | Obtained Date |
| 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) | |
| 7-Feb-23 | | | | | | 8 | | | | 20-Feb-23 |
| 14-Feb-23 | | | | | | 360 | | | | 18-Feb-23 |
| 21-Feb-23 | 2.00 | <5 | 7.20 | 2.00 | 7.40 | 440 | 5.67 | 5.74 | 1.00 | 3-Mar-23 |
| 28-Feb-23 | | | | | | 160 | | | | 6-Mar-23 |
| 100 Percentile Exceedance? | NO | NO | YES | NO | NO | NO | 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 | 12 | 12 | 12 | 12 | 12 | 25 | 12 | 12 | 12 |
| Min | <2 | <5 | 7.00 | <2 | 0.50 | 7 | 1.50 | 1.750 | 0.07 |
| Mean | 2.25 | 2.50 | 7.44 | 3.42 | 5.20 | 180 | 5.12 | 5.491 | 0.44 |
| Median (50th %ile) | 2.00 | 2.50 | 7.45 | 2.00 | 4.30 | 45 | 3.80 | 5.600 | 0.26 |
| 90th %ile | 4.00 | 2.50 | 7.78 | 4.90 | 10.09 | 598 | 9.30 | 8.114 | 0.98 |
| Max (100th %ile) | 4.00 | <5 | 7.80 | 17.00 | 10.20 | 920 | 14.30 | 9.480 | 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-Feb-23 | 0.2 | 1544.7 | NO |
| 2-Feb-23 | 0.2 | 1514.0 | NO |
| 3-Feb-23 | 0 | 1510.0 | NO |
| 4-Feb-23 | 0 | 1527.3 | NO |
| 5-Feb-23 | 0 | 1500.0 | NO |
| 6-Feb-23 | 0 | 1477.0 | NO |
| 7-Feb-23 | 0 | 1478.8 | NO |
| 8-Feb-23 | 42.8 | 2874.4 | NO |
| 9-Feb-23 | 104.8 | 9895.0 | NO |
| 10-Feb-23 | 3.5 | 5992.4 | NO |
| 11-Feb-23 | 0.2 | 3268.8 | NO |
| 12-Feb-23 | 0 | 2036.4 | NO |
| 13-Feb-23 | 0 | 1889.0 | NO |
| 14-Feb-23 | 0 | 1743.0 | NO |
| 15-Feb-23 | 0 | 1686.3 | NO |
| 16-Feb-23 | 0 | 1648.7 | NO |
| 17-Feb-23 | 0 | 1658.0 | NO |
| 18-Feb-23 | 7.4 | 1657.1 | NO |
| 19-Feb-23 | 0 | 1679.9 | NO |
| 20-Feb-23 | 0 | 877.7 | NO |
| 21-Feb-23 | 3.8 | 1547.1 | NO |
| 22-Feb-23 | 9.8 | 1686.2 | NO |
| 23-Feb-23 | 0 | 1543.3 | NO |
| 24-Feb-23 | 0 | 1570.1 | NO |
| 25-Feb-23 | 0 | 1608.7 | NO |
| 26-Feb-23 | 0 | 1565.0 | NO |
| 27-Feb-23 | 0.6 | 1501.7 | NO |
| 28-Feb-23 | 0.6 | 1451.8 | NO |
| Monthly Total | 173.90 | 59932.17 | |
| Monthly Minimum | 0.00 | 877.68 | |
| Monthly Mean | 6.21 | 2140.43 | |
| Monthly Maximum | 104.80 | 9895.01 | |
| Year to Date Total | 1084.30 | 675865.81 | |
| Year to Date Minimum | 0.00 | 877.68 | |
| Year to Date Mean | 3.25 | 2023.55 | |
| Year to Date Maximum | 104.80 | 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 |
| 7-Feb-23 | <1 | 20-Feb-23 |
| 14-Feb-23 | 6 | 18-Feb-23 |
| 21-Feb-23 | <1 | 3-Mar-23 |
| 28-Feb-23 | <1 | 6-Mar-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 |
| 7-Feb-23 | <1 | 20-Feb-23 |
| 14-Feb-23 | 6 | 18-Feb-23 |
| 21-Feb-23 | 6 | 3-Mar-23 |
| 28-Feb-23 | <1 | 6-Mar-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 | 18 |
| Min | <1 |
| Mean | 11.94 |
| Median (50th %ile) | 1 |
| 90th %ile | 1 |
| Max (100th %ile) | 120 |

| Licence Point 5 - Ambient Water Monitoring (Year to Date Results) | |
|---|------------------------------|
| Year to Date | Faecal Coliforms (CFU/100mL) |
| Samples | 18 |
| Min | <1 |
| Mean | 5.78 |
| Median (50th %ile) | 3 |
| 90th %ile | 3 |
| Max (100th %ile) | 24 |

| Monthly Exceedance Report | | | | |
|---------------------------|---------------------|------------------|--|--|
| Date | Exceedance Type | Parameter | Description / Action | |
| 14-Feb-23 | Concentration limit | Faecal Coliforms | Faecal Coliforms result (360 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3 | |
| 21-Feb-23 | Concentration limit | Faecal Coliforms | Faecal Coliforms result (440 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3 | |

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EPA Licence Point Map

