

Narooma Sewage Treatment Plant - Monthly Result Summary - January 2022



Anniversary Date: 1-Apr-21
Published Date: 18-Feb-22

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: Jan-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 | 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) | |
| 27-Jan-22 | 2.00 | <5 | 7.30 | <2 | 6.00 | 10 | 8.98 | 5.66 | 0.20 | 7-Feb-22 |
| 100 Percentile Exceedance? | NO | NO | NO | 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 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | |
| Min | <2 | <5 | 7.20 | <2 | 0.60 | 2 | 4.30 | 2.800 | 0.04 | |
| Mean | 1.45 | 2.50 | 7.87 | 3.55 | 3.97 | 219 | 8.36 | 4.705 | 0.24 | |
| Median (50th %ile) | 1.00 | 2.50 | 7.60 | 1.00 | 2.70 | 110 | 8.98 | 4.780 | 0.12 | |
| 90th %ile | 2.00 | 2.50 | 9.00 | 9.00 | 8.00 | 680 | 12.70 | 5.860 | 0.53 | |
| Max (100th %ile) | 3.00 | <5 | 9.60 | 10.00 | 10.90 | 760 | 12.80 | 6.600 | 1.22 | |

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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-Jan-22 | 0 | 2130.0 | NO |
| 2-Jan-22 | 0.2 | 2100.0 | NO |
| 3-Jan-22 | 1.2 | 2090.0 | NO |
| 4-Jan-22 | 0.6 | 2070.0 | NO |
| 5-Jan-22 | 0 | 2250.0 | NO |
| 6-Jan-22 | 18.4 | 5040.0 | NO |
| 7-Jan-22 | 27.8 | 5830.0 | NO |
| 8-Jan-22 | 27.2 | 4140.0 | NO |
| 9-Jan-22 | 0 | 2510.0 | NO |
| 10-Jan-22 | 0 | 2230.0 | NO |
| 11-Jan-22 | 0 | 2260.0 | NO |
| 12-Jan-22 | 10.4 | 2290.0 | NO |
| 13-Jan-22 | 0.6 | 5040.0 | NO |
| 14-Jan-22 | 19.8 | 2810.0 | NO |
| 15-Jan-22 | 0 | 4730.0 | NO |
| 16-Jan-22 | 22.8 | 3380.0 | NO |
| 17-Jan-22 | 0 | 2570.0 | NO |
| 18-Jan-22 | 0.4 | 2290.0 | NO |
| 19-Jan-22 | 0.6 | 2080.0 | NO |
| 20-Jan-22 | 0.6 | 2010.0 | NO |
| 21-Jan-22 | 0 | 1900.0 | NO |
| 22-Jan-22 | 0 | 1900.0 | NO |
| 23-Jan-22 | 0 | 2830.0 | NO |
| 24-Jan-22 | 0 | 1990.0 | NO |
| 25-Jan-22 | 0 | 2070.0 | NO |
| 26-Jan-22 | 0 | 1790.0 | NO |
| 27-Jan-22 | 0 | 1730.0 | NO |
| 28-Jan-22 | 0 | 1680.0 | NO |
| 29-Jan-22 | 0 | 1780.0 | NO |
| 30-Jan-22 | 9 | 1760.0 | NO |
| 31-Jan-22 | 1.8 | 1680.0 | NO |
| Monthly Total | 141.40 | 80960.00 | |
| Monthly Minimum | 0.00 | 1680.00 | |
| Monthly Mean | 4.56 | 2611.61 | |
| Monthly Maximum | 27.80 | 5830.00 | |
| Year to Date Total | 858.66 | 639292.01 | |
| Year to Date Minimum | 0.00 | 1290.00 | |
| Year to Date Mean | 2.70 | 2004.05 | |
| Year to Date Maximum | 55.80 | 9030.00 | |

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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 |
| 4-Jan-22 | 16 | 8-Jan-22 |
| 11-Jan-22 | 36 | 21-Jan-22 |
| 18-Jan-22 | 23 | 23-Jan-22 |
| 27-Jan-22 | <1 | 7-Feb-22 |

| Licence Point 5 - Ambient Water Monitoring (Monthly Result) | | |
|---|------------------------------|---------------|
| Frequency | Special Frequency 2* | |
| Sampling Method | Grab Sample | |
| Sampled Date | Faecal Coliforms (CFU/100mL) | Obtained Date |
| 4-Jan-22 | 21 | 8-Jan-22 |
| 11-Jan-22 | <1 | 21-Jan-22 |
| 18-Jan-22 | 10 | 23-Jan-22 |
| 27-Jan-22 | <1 | 7-Feb-22 |

* 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 | 13 |
| Min | <1 |
| Mean | 17.46 |
| Median (50th %ile) | 8 |
| 90th %ile | 8 |
| Max (100th %ile) | 94 |

| Licence Point 5 - Ambient Water Monitoring (Year to Date Results) | |
|---|------------------------------|
| Year to Date | Faecal Coliforms (CFU/100mL) |
| Samples | 13 |
| Min | <1 |
| Mean | 104.23 |
| Median (50th %ile) | 3 |
| 90th %ile | 3 |
| Max (100th %ile) | 1200 |

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

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EPA Licence Point Map

