

NARRABRI SEWAGE TREATMENT PLANT - MONTHLY POLLUTION MONITORING SUMMARY - AUGUST 2022



Environment Protection Licence No. 200
Anniversary date: 01 August
Version date: 13-Sep 2013

Licensee Narrabri Shire Council
PO BOX 261
Narrabri NSW 2390

>219-1000ML Discharge (Small Plant)

| QUALITY/PERFORMANCE MONITORING | | | | | | | | | | | | | | | | | |
|---|----------------------|---------------------|--|-----------------|------------|--------------|---------|------------|-------------|--------------|---------------|--------------|---------------|---------------|----------------|---------------|-----|
| EPA ID. No. 1 DISCHARGE TO WATERS EFFLUENT QUALITY & VOLUME MONITORING | | | | | | | | | | | | | | | | | |
| Site Description - Effluent Discharge Pipeline - to Narrabri Creek -POINT 1 | | | | | | | | | | | | | | | | | |
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting | Monthly Summary | | | | | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 50%ile Limit | 50%ile Actual | 90%ile Limit | 90%ile Actual | 100%ile Limit | 100%ile Actual | Within Limits | |
| Biochemical Oxygen Demand | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 6.0 | N/A | N/A | 20.0 | N/A | N/A | N/A | YES |
| Oil and Grease | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 5.0 | N/A | N/A | 10.0 | N/A | N/A | N/A | YES |
| pH | pH | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 8.0 | N/A | N/A | 6.5-8.5 | N/A | N/A | N/A | YES |
| Total Suspended Solids | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 7.0 | 45.0 | N/A | N/A | N/A | N/A | N/A | YES |
| Faecal Coliforms | CFU/100ml | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 60.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrate +Nitrite (oxidised nitrogen) | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 10.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 9.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (total) | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 24.1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Phosphorus (total) | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 4.9 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total dissolved solids | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total kjeldahl Nitrogen | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 13.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

| EPA ID. No. 2 DISCHARGE TO UTILISATION AREA EFFLUENT QUALITY & VOLUME MONITORING | | | | | | | | | | | | | | | | | |
|--|------------------------------|--------------------|--|-----------------|------------|--------------|---------|--------|------------|-------------|---------------|----------------|---------------|-----|-----|-----|-----|
| Site Description - Inlet to Pipeline - to transfer effluent to effluent irrigation federation farm - POINT 2 | | | | | | | | | | | | | | | | | |
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting | Monthly Summary | | | | | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | Actual | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits | | | | |
| Biochemical Oxygen Demand | milligrams per litre | Monthly | 1 | - | - | - | - | 6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | CFU per 100 mL | Monthly | 1 | - | - | - | - | 60 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Monthly | 1 | - | - | - | - | 7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Calcium | milligrams per litre | Quarterly | 1 | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Chloride | milligrams per litre | Quarterly | 1 | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Conductivity | Micro siemens per centimetre | Monthly | 1 | - | - | - | - | 1250 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Magnesium | milligrams per litre | Quarterly | 1 | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Monthly | 1 | - | - | - | - | 10.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Monthly | 1 | - | - | - | - | 9.39 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (total) | milligrams per litre | Monthly | 1 | - | - | - | - | 24.1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Monthly | 1 | - | - | - | - | 5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| pH | milligrams per litre | Monthly | 1 | - | - | - | - | 8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Phosphorus | milligrams per litre | Monthly | 1 | - | - | - | - | 4.9 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Sodium | milligrams per litre | Quarterly | 1 | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Sodium Adsorption Ratio | Sodium adsorption ratio | Quarterly | 1 | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total dissolved solids | milligrams per litre | Quarterly | 1 | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Kjeldahl as Nitrogen | milligrams per litre | Monthly | 1 | - | - | - | - | 13.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

VOLUME MONITORING

| EPA ID. No. 3 INFLUENT VOLUME MONITORING | | | | | | | | | | | | | | | | | |
|--|--------------------|--------------------|--|-----------------|-------------|--------------|---------|-------------|------------|-------------|---------------|--------------|---------------|---|---|---|-----|
| Site Description - Inlet to Sewage Treatment Works - POINT 3 | | | | | | | | | | | | | | | | | |
| Unit of measurement | Sampling frequency | Method | No. of times measured during the month for licence reporting | Monthly Summary | | | | | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | Total Value | 3DGM Limit | 3DGM Actual | 100%ile Limit | Volume limit | Within Limits | | | | |
| Kilolitres per day | Continuous | In line instrument | 31 | 1294 | 2250.967742 | - | 5357 | 69780 | - | - | - | - | - | - | - | - | N/A |

DEPTH MONITORING

| EPA Id. No. 4 DEPTH MONITORING (LEVEL OF EFFLUENT IN STORMWATER BALANCING POND) | | | | | | | | | | | | | | | | |
|--|--------------------|--------|-----------------------|-----------------|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|--|--|--|--|
| Site Description - Stormwater Detention Basin -POINT 4 | | | | | | | | | | | | | | | | |
| Location / units | Sampling Frequency | Method | No. of times measured | Monthly Summary | | | | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits | | | | |

| | | | | | | | | | | | | |
|--------------------------------|-------|------------|----|-----|------|---|-----|---|---|---|---|-----|
| Storm pond level (m) | Daily | Inspection | 31 | 1.1 | 1.1 | - | 1.1 | - | - | - | - | N/A |
| Effluent pond level (m) | Daily | Inspection | 31 | 1 | 1.21 | - | 1.4 | - | - | - | - | N/A |

Note: For pollutants with less than four samples measured during the monthly period see below for interpretation of summary tables:
 One required sample for licence reporting: Min, Mean, Median and Max values are all the exact data point
 Two required samples for licence reporting: Min and Max values are the two exact data points
 Three required samples for licence reporting: Min, Median and Max values are the three exact data points

VOLUME MONITORING

| Monthly Summary | | | | | | | | | | |
|--|---------------------|-----------------------|--|---------|-------------|---------|----------------------------------|-----------------------|---------------|--|
| Monitoring Point | Unit of Measurement | Sampling Frequency | No. of times measured during the month | Minimum | Mean | Maximum | Actual total Monthly Volume (KL) | Volume Limit Mg daily | Within Limits | |
| Point 1 - Wet Weather bypass to Narrabri Creek | megalitres per day | Daily (overflow only) | 31 | 1911 | 3073.774194 | 6959 | 95287 | | YES | |
| Point 2 - Effluent Irrigation to Federation Farm | kL per day | Daily | 31 | 0 | 917.8387097 | 3542 | 28453 | N/A | N/A | |

ASSESSABLE POLLUTANT - pollutant discharge during reporting period

| Yearly (TO BE ASSESSED AT THE END OF THE YEARLY PERIOD) | | | | | | | | | |
|--|--------------------------|--------------------|--|---------|------|---------|------------|---------------|--|
| ASSESSABLE POLLUTANT | Load Limit (kg) Per Year | Sampling Frequency | No. of times measured during the month | Minimum | Mean | Maximum | Flow Limit | Within Limits | |
| BOD (Enclosed water) | 14540 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Nitrogen (total) (enclosed water) | 29080 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Oil and Grease (enclosed water) | 7270 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Phosphorus (total) (enclosed water) | 7270 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Total suspended solids (enclosed water) | 37620 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |