NARRABRI SEWAGE TREATMENT PLANT - MONTHLY POLLUTION MONITORING SUMMARY -August 2020



Environment Protection Licence No. 200

Anniversary date: 01 August Version date: 13-Sep 2013

Narrabri Shire Council PO BOX 261 Narrabri NSW 2390

>219-1000ML Discharge (Small Plant)

| EFFLUENT QUALITY | 210 1000M2 Bloomange (emain) | , | | | | | | | | | | | | | | |
|---------------------------------------|-----------------------------------|--------------------------------|--|---------|---------------|-----------------|---------|---------------|----------------|-----------------|------------------|-----------------|------------------|------------------|-------------------|------------------|
| · · · · · · · · · · · · · · · · · · · | Site Description - Effluent Disch | narge Pipeline - to Narrabri C | reek -POINT 1 -NOT IN USE* | * | | | | | | | | | | | | |
| | | | No. of times measured | | | | Mon | thly Summary | | | | | | | | |
| Pollutant | Unit of Measurement | Sampling Frequency | during the month for licence reporting | 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 | N/A | N/A | 20.0 | N/A | 30.0 | N/A | N/A |
| Oil and Grease | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 10.0 | N/A | N/A | N/A | N/A |
| рН | рН | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 6.5-8.5 | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Each overflow event | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 45.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | CFU/100ml | 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 |
| Nitrate +Nitrite (oxidised nitrogen) | 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 |
| Nitrogen (ammonia) | 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 |
| Nitrogen (total) | 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 |
| Phosphorus (total) | 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 |
| 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 |
| Total kjeldahl Nitrogen | 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 |
| **No samples were collected as no | discharge occurred during the mor | nth | | | | | | | | | | | | | | |

FFFI LIENT QUALITY

| EFFLUENT QUALITY | | | | | | | | | | | | | |
|---|--|-------------------------------|--|-----------------|---------------|-----------------|---------|--------|---------------|----------------|------------------|-------------------|------------------|
| EPA ID. No. 2 DISCHARGE TO UTILISATION AREA EFFLUENT QUALITY & VOLUME MONITORING | Site Description - Inlet to Pipeline - | to transfer effluent to efflu | ent irrigation federation far | m - POINT 2 | | | | | | | | | |
| | | | No. of times measured during the month for licence reporting | Monthly Summary | | | | | | | | | |
| Pollutant | Unit of Measurement | Sampling Frequency | | 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 | | - | - | - | 10 | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | CFU per 100 mL | Monthly | 1 | - | - | - | - | 240 | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Monthly | 1 | | - | - | - | 20 | 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 |
| Chloride | milligrams per litre | Quarterly | 1 | | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Conductivity | Micro siemens per centimetre | Monthly | 1 | - | - | - | - | 1130 | 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 |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Monthly | 1 | - | - | - | - | 11.7 | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Monthly | 1 | - | - | - | - | 6.39 | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (total) | milligrams per litre | Monthly | 1 | - | - | - | - | 22.7 | 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 |
| рН | milligrams per litre | Monthly | 1 | - | - | - | - | 8.8. | N/A | N/A | N/A | N/A | N/A |
| Phosphorus | milligrams per litre | Monthly | 1 | | - | - | - | 5.3 | 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 |
| Sodium Adsorption Ratio | Sodium adsorption ratio | Quarterly | 1 | - | - | - | - | - | 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 |
| Total Kjeldahl as Nitrogen | milligrams per litre | Monthly | 1 | - | - | - | - | 11 | N/A | N/A | N/A | N/A | N/A |

INELLIENT VOLUME MONITORING

| INFLUENT VOLUME MONIT | | | | | | | | | | | | | |
|----------------------------|-----------------------------------|-----------------------------|--|-----------------|-------------|--------|---------|--------------------|-------|--------|---------|--------|--------|
| EPA ID. No. 3 | Site Description - Inlet to Sewag | e Treatment Works - POINT 3 | | | | | | | | | | | |
| INFLUENT VOLUME MONITORING | | | | | | | | | | | | | |
| | | | No. of times measured during the month for licence reporting | Monthly Summary | | | | | | | | | |
| | | | | | Mean | Median | Maximum | Actual | 3DGM | 3DGM | 100%ile | Volume | Within |
| Unit of measurement | Sampling frequency | Method | | Minimum | Value | Value | Value | Value (monthly)-kL | Limit | Actual | Limit | limit | Limits |
| Kilolitres per day | Continuous | In line instrument | 31 | 1085 | 1919.714286 | - | 3208 | 53752 | - | - | - | - | N/A |

DEPTH MONITORING

| EPA Id. No. 4 | Site Description - Stormwater De | tention Basin -POINT 4 | | | | | | | | | | |
|----------------------------|----------------------------------|------------------------|-----------------------|-----------------|-------------|--------|---------|-------|--------|---------|---------|--------|
| DEPTH MONITORING (LEVEL OF | | | | | | | | | | | | |
| EFFLUENT IN STORMWATER | | | | | | | | | | | | |
| BALANCING POND) | | | | | | | | | | | | |
| | | | No. of times measured | Monthly Summary | | | | | | | | |
| | | | | | | | | | | | | |
| | Sampling Frequency | Method | | | Mean | Median | | 3DGM | 3DGM | 100%ile | 100%ile | Within |
| Location / units | | | | Minimum | Value | Value | Maximum | Limit | Actual | Limit | Actual | Limits |
| Storm pond level (m) | Daily | Inspection | 31 | 1.3 | 1.342857143 | - | 1.4 | - | - | - | - | N/A |
| Effluent pond level (m) | Daily | Inspection | 31 | 1.2 | 1.335714286 | - | 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

| 10101111011110 | | | | | | | | | |
|--|--------------------|-----------------------|--|------------------|-------------|-----------|----------------------|-----------|--------|
| | | | Monthly Summary | | | | | | |
| Manifesius Baint | Unit of | Sampling | | Ball of the comp | Maria | Mandanana | Actual total | Volume | Within |
| Monitoring Point | Measurement | Frequency | No. of times measured during the month | Minimum | Mean | Maximum | Volume (MONTHLY) -KL | Limit L/s | Limits |
| Point 1 - Wet Weather bypass to River (NOT IN USE) | megalitres per day | Daily (overflow only) | - | - | - | - | - | 20 | N/A |
| Point 2 - Effluent Irrigation to Federation Farm | kL per dav | Daily | 31 | 0 | 1923.928571 | 3,489 | 53.870 | N/A | N/A |

ASSESSABLE POLLUTANT - pollutant discharge during reporting period

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