

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)

|  | Y/PERFORMANCE MONITO   | RING                  | 1                                      |                         |               |                 |         |               |                |                 |                  |                 |                  |                  |                   |                  |
|--|------------------------|-----------------------|--|-------------------------|---------------|-----------------|---------|---------------|----------------|-----------------|------------------|-----------------|------------------|------------------|-------------------|------------------|
| EPA ID. No. 1 DISCHARGE TO WATERS EFFLUENT QUALITY & VOLUME MONITORING | Site Description       | n - Effluent Discha   | arge Pipeline - to                     | Narrabri Creek -POINT 1 |               |                 |         |               |                |                 |                  |                 |                  |                  |                   |                  |
|  |                        |                       | No. of times measured                  | Monthly Summary         |               |                 |         |               |                |                 |                  |                 |                  |                  |                   |                  |
| Pollutant  | Unit of<br>Measurement | Sampling<br>Frequency | during the month for licence reporting | Minimum                 | Mean<br>Value | Median<br>Value | Maximum | 3DGM<br>Limit | 3DGM<br>Actual | 50%ile<br>Limit | 50%ile<br>Actual | 90%ile<br>Limit | 90%ile<br>Actual | 100%ile<br>Limit | 100%ile<br>Actual | Within<br>Limits |
| Biochemical Oxygen Demand  | milligrams per litre   | Each overflow event   | N/A                                    | N/A                     | N/A           | N/A             | N/A     | N/A           | 11             | N/A             | N/A              | 20.0            | N/A              | 30.0             | N/A               | YES              |
| Oil and Grease   | milligrams per litre   | Each overflow event   | N/A                                    | N/A                     | N/A           | N/A             | N/A     | N/A           | 5              | N/A             | N/A              | 10.0            | N/A              | N/A              | N/A               | YES              |
| H  | pН                     | Each overflow event   | N/A                                    | N/A                     | N/A           | N/A             | N/A     | N/A           | 8.2            | N/A             | N/A              | 6.5-8.5         | N/A              | N/A              | N/A               | YES              |
| otal Suspended Solids  | milligrams per litre   | Each overflow event   | N/A                                    | N/A                     | N/A           | N/A             | N/A     | N/A           | 38             | 45.0            | N/A              | N/A             | N/A              | N/A              | N/A               | YES              |
| aecal Coliforms  | CFU/100ml              | Each overflow event   | N/A                                    | N/A                     | N/A           | N/A             | N/A     | N/A           | 170            | 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           | 0.94           | 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           | 5.06           | 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           | 7.9            | 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           | 4.77           | 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           | 752            | 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           | 7              | N/A             | N/A              | N/A             | N/A              | N/A              | N/A               | N/A              |

Site Description - Inlet to Pipeline - to transfer effluent to effluent irrigation federation farm - POINT 2 **Monthly Summary** Pollutant
Biochemical Oxygen Demand
Faecal Coliforms
Total Suspended Solids
Calcium
Chloride
Conductivity
Magnesium Conductivity
Magnesium
Nitrate + nitrite (oxidised nitrogen)
Nitrogen (ammonia)
Nitrogen (total)
Oil and Grease
nH

| VOLUME MONITORING                        |                    |                        |  |                    |                 |        |         |       |       |        |         |        |        |
|--|--------------------|------------------------|--|--------------------|-----------------|--------|---------|-------|-------|--------|---------|--------|--------|
| EPA ID. No. 3 INFLUENT VOLUME MONITORING | Site Desc          | cription - Inlet to Se | ewage Treatme  | nt Works - POINT 3 |                 |        |         |       |       |        |         |        |        |
|  |                    |                        | No. of times measured<br>during the month for<br>licence reporting |                    | Monthly Summary |        |         |       |       |        |         |        |        |
|  |                    |                        |  |                    | Mean            | Median | Maximum | Total | 3DGM  | 3DGM   | 100%ile | Volume | Within |
| Unit of measurement                      | Sampling frequency | Method                 |  | Minimum            | Value           | Value  | Value   | Value | Limit | Actual | Limit   | limit  | Limits |
| Kilolitres per day                       | Continuous         | In line instrument     | 31   | 1145               | 1777.366667     |        | 3391    | 53321 | -     | -      |         | -      | N/A    |

## DEPTH MONITORING

| EPA Id. No. 4   |                    |                     |                      |                 |             |        |         |       |        |         |         |        |
|---|--------------------|---------------------|----------------------|-----------------|-------------|--------|---------|-------|--------|---------|---------|--------|
| DEPTH MONITORING (LEVEL OF EFFLUENT IN STORMWATER BALANCING POND) | Site De            | escription - Stormy | vater Detentior      | Basin -POINT 4  |             |        |         |       |        |         |         |        |
|   |                    |                     | during the month for | 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                   | 0.6             | 0.733333333 | -      | 1.2     |       | -      | -       | -       | N/A    |
| Effluent pond level (m)   | Daily              | Inspection          | 31                   | 1               | 1.123333333 | -      | 1.3     |       |        | -       | -       | 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<br>Frequency | No. of times measured during the month | Minimum | Mean        | Maximum | Actual total  Monthly Volume (KL) | Volume<br>Limit Mg daily | Within<br>Limits |  |  |  |
| Point 1 - Wet Weather bypass to Narrabri Creek   | megalitres per day   | Daily (overflow only) | 31                                     | 2       | 146.6666667 | 4183    | 4400                              |                          | YES              |  |  |  |
| Point 2 - Effluent Irrigation to Federation Farm | kL per day           | Daily                 | 31                                     | 0       | 2104.733333 | 4516    | 63142                             | N/A                      | N/A              |  |  |  |

## ASSESSABLE POLLUTANT - pollutant discharge during reporting period

| Yearly   |                                |   |  |  |  |  |  |  |  |  |  |  |  |
|--|--------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| (TO BE ASSESSED AT THE END OF THE YEARLY PERIOD) |                                |   |  |  |  |  |  |  |  |  |  |  |  |
| Load Limit (kg) Per Year                         | Sampling                       |   |  | Minimum  | Moon   | Maximum  | Flow   | Within   |  |  |  |  |  |
|  | Frequency                      | No. of times measured during the more           | nth  | William  | Weall  | Waxiiiuiii                                     | Limit  | Limits   |  |  |  |  |  |
| 14540  | N/A                            | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |  |  |  |  |  |
| 29080  | N/A                            | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |  |  |  |  |  |
| 7270   | N/A                            | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |  |  |  |  |  |
| 7270   | N/A                            | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |  |  |  |  |  |
| 37620  | N/A                            | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |  |  |  |  |  |
|  | 14540<br>29080<br>7270<br>7270 | Load Limit (kg) Per Year   Sampling   Frequency | TO BE ASSESSED AT THE END OF THE YEARLY PERIOD | TO BE ASSESSED AT THE END OF THE YEARLY PERIOD | TO BE ASSESSED AT THE END OF THE YEARLY PERIOD | TO BE ASSESSED AT THE END OF THE YEARLY PERIOD | TO BE ASSESSED AT THE END OF THE YEARLY PERIOD | TO BE ASSESSED AT THE ENÓ OF THE YEARLY PERIOD |  |  |  |  |  |