NARRABRI SEWAGE TREATMENT PLANT - MONTHLY POLLUTION MONITORING SUMMARY - DECEMBER 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	4.0	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	5.0	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	9.0	N/A	N/A	6.5-8.5	N/A	N/A	N/A	NO
Total Suspended Solids	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	21.0	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	50.0	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	5.7	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	1.8	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	10.5	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	4.1	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	580.0	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	4.8	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	-	-	-	-	4	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	CFU per 100 mL	Monthly	1	-	-	-	-	50	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Monthly	1	-	-	-	-	21	N/A	N/A	N/A	N/A	N/A
Calcium	milligrams per litre	Quarterly	1	-	-	-	-	12	N/A	N/A	N/A	N/A	N/A
Chloride	milligrams per litre	Quarterly	1	-	-	-	-	96	N/A	N/A	N/A	N/A	N/A
Conductivity	Micro siemens per centimetre	Monthly	1	-	-	-	-	1020	N/A	N/A	N/A	N/A	N/A
Magnesium	milligrams per litre	Quarterly	1	-	-	-	-	6	N/A	N/A	N/A	N/A	N/A
Nitrate + nitrite (oxidised nitrogen)	milligrams per litre	Monthly	1	-	-	-	-	5.68	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Monthly	1	-	-	-	-	1.82	N/A	N/A	N/A	N/A	N/A
Nitrogen (total)	milligrams per litre	Monthly	1	-	-	-	-	10.5	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
pH	milligrams per litre	Monthly	1	-	-	-	-	9	N/A	N/A	N/A	N/A	N/A
Phosphorus	milligrams per litre	Monthly	1	-	-	-	-	4.12	N/A	N/A	N/A	N/A	N/A
Sodium	milligrams per litre	Quarterly	1	-	-	-	-	199	N/A	N/A	N/A	N/A	N/A
Sodium Adsorption Ratio	Sodium adsorption ratio	Quarterly	1	-	-	-	-	11.7	N/A	N/A	N/A	N/A	N/A
Total dissolved solids	milligrams per litre	Quarterly	1	-	-	-	-	580	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl as Nitrogen	milligrams per litre	Monthly	1	-	-	-	-	4.8	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 Value	Total Value	3DGM Limit	3DGM Actual	100%ile Limit	Volume limit	Within Limits
Kilolitres per day	Continuous	In line instrument	31	1374	2068.096774	-	4107	64111	-	-	-	-	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	0.6	0.629032258	-	0.7	-	-	-	-	N/A
Effluent pond level (m)	Daily	Inspection	31	1.1	1.1	-	1.1	-	-	-	-	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	1671	2632.741935	4839	81615	20	YES
Point 2 - Effluent Irrigation to Federation Farm	kL per day	Daily	31	0	36.12903226	427	1120	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	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