

NARRABRI SEWAGE TREATMENT PLANT - MONTHLY POLLUTION MONITORING SUMMARY - MAY 2023



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

Licencee Narrabri Shire Council
PO BOX 261
Narrabri NSW 2390

QUALITY PERFORMANCE MONITORING

EPA ID: No.1 Influent to works Effluent to receive 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										Within Limits				
				Minimum	Mean Value	Median Value	Maximum	300M Limit	300M Actual	95%ile Actual	95%ile Limit	90%ile Actual	90%ile Limit		100%ile Actual	100%ile Limit		
Biochemical Oxygen Demand	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0	2.0	N/A	N/A	20.0	N/A	20.0	N/A	YES
Oil and Grease	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.0	N/A	N/A	0.0	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	8.9	N/A	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	N/A	4.0	45.0	N/A	N/A	N/A	N/A	N/A	N/A	YES
Free Chlorine	mg/L (100%)	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	N/A	200.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	YES
Nitrate -Nitrite (combined nitrogen)	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.7	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	0.5	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	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phosphate (total)	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9	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	N/A
Total Kjeldahl as Nitrogen	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA ID: No.2 Influent to works Effluent Quality & Volume Monitoring		Site Description - Inlet to Pipeline - to transfer effluent irrigation federation farm - POINT 2																
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the month for licence reporting	Monthly Summary										Within Limits				
				Minimum	Mean Value	Median Value	Maximum	Actual	300M Limit	300M Actual	100%ile Actual	100%ile Limit						
Biochemical Oxygen Demand	milligrams per litre	Monthly	1	-	-	-	-	-	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Free Chlorine	CFU per 100ml	Monthly	1	-	-	-	-	-	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Quarterly	1	-	-	-	-	-	-	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
Conductivity	Micro amperes per centimetre	Monthly	1	-	-	-	-	-	1810	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
Nitrate + nitrite (combined nitrogen)	milligrams per litre	Monthly	1	-	-	-	-	-	2.86	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	-	-	-	-	-	0.52	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	-	-	-	-	-	-	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	-	-	-	-	-	8.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phosphorus	milligrams per litre	Monthly	1	-	-	-	-	-	1.9	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
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
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
Total Kjeldahl as Nitrogen	milligrams per litre	Monthly	1	-	-	-	-	-	2.9	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										Within Limits
				Minimum	Mean Value	Median Value	Maximum	Total	300M Limit	300M Actual	100%ile Actual	Volume Limit		
Cubic m per day	Continuous	In the treatment	31	1118	184,029.974	-	2514	2,291	-	-	-	-	-	N/A

DEPTH MONITORING

EPA ID: No.4 DEPTH MONITORING (LEVEL OF EFFLUENT IN STORMWATER BALANCE POND)		Site Description - Stormwater Detention Basin -POINT 4												
Reporting points	Sampling Frequency	Method	No. of times measured during the month for licence reporting	Monthly Summary										Within Limits
				Minimum	Mean Value	Median Value	Maximum	300M Limit	300M Actual	100%ile Actual	100%ile Limit			
Storm pond level (m)	Daily	Inspection	31	0.1	-	-	-	-	-	-	-	-	-	N/A
Effluent pond level (m)	Daily	Inspection	31	0.9	1.19354830	-	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

Monitoring Point		Monthly Summary										
Unit of Measurement	Sampling Frequency	No. of times measured during the month			Minimum	Mean	Maximum	Actual total	Volume	Within		
		31	0	0	0	369,967,741.9	5984	11480	YES			
Point 1 - Wet Weather Inflow to Narrabri Creek	m³/day (overflow only)	31	0	0	0	369,967,741.9	5984	11480	YES			
Point 2 - Effluent Irrigation to Federation Farm	m³ per day	31	0	0	0	142,645,161	4261	44,257	N/A			

ASSESSABLE POLLUTANT - pollutant discharge during reporting period

ASSESSABLE POLLUTANT	Load Limit (kg) Per Year	Yearly						
		TO BE ASSESSED AT THE END OF THE YEARLY PERIOD						
		Sampling Frequency	No. of times measured during the month	Minimum	Mean	Maximum	Flow Limit	Within Limits
DOF (increased water)	14540			N/A	N/A	N/A	N/A	N/A
DOF (decreased water)	20580			N/A	N/A	N/A	N/A	N/A
Oil and Grease (increased water)	7720			N/A	N/A	N/A	N/A	N/A
Phosphorus (total) (increased water)	7720			N/A	N/A	N/A	N/A	N/A
Total suspended solids (increased water)	7720			N/A	N/A	N/A	N/A	N/A