NARRABRI SEWAGE TREATMENT PLANT - MONTHLY POLLUTION MONITORING SUMMARY -September 2021



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)

_	QUALITY/PERFORMANCE I	MONITORING
	EPA ID. No. 1	Site Description - Effluent Discharge Pipeline - to Narrabri Creek -POINT 1

DISCHARGE TO WATERS EFFLUENT QUALITY & VOLUME MONITORING	one bescription - Emacin biscr		CCR -1 CHYL 1													
			No. of times measured	Monthly Summary ured												
	Unit of	Sampling	during the month for		Mean	Median		3DGM	3DGM	50%ile	50%ile	90%ile	90%ile	100%ile	100%ile	Within
Pollutant	Measurement	Frequency	licence reporting	Minimum	Value	Value	Maximum	Limit	Actual	Limit	Actual	Limit	Actual	Limit	Actual	Limits
Biochemical Oxygen Demand	milligrams per litre	Each overflow event	N/A	N/A	N/A	N/A	N/A	N/A	13.0	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	<5	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	9.8	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	114.0	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	110.0	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	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	0.3	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	9.5	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	5.1	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	746.0	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	17.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA ID. No. 2	Site Description - Inlet to Pipeline	- to transfer effluent to ef	fluent irrigation federation farm -	POINT 2									
DISCHARGE TO UTILISATION AREA EFFLUENT QUALITY & VOLUME MONITORING			· ·										
			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	Withir
Biochemical Oxygen Demand	milligrams per litre	Monthly	1	-	-	-	-	13	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	CFU per 100 mL	Monthly	1		-	-	-	110	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Monthly	1		-	-	-	114	N/A	N/A	N/A	N/A	N/A
Calcium	milligrams per litre	Quarterly	1		-	-	-	11	N/A	N/A	N/A	N/A	N/A
Chloride	milligrams per litre	Quarterly	1		-	-	-	93	N/A	N/A	N/A	N/A	N/A
Conductivity	Micro siemens per centimetre	Monthly	1	-	-	-	-	1190	N/A	N/A	N/A	N/A	N/A
Magnesium	milligrams per litre	Quarterly	1	-	-	-	-	4	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
Nitrogen (ammonia)	milligrams per litre	Monthly	1	-	-	-	-	0.33	N/A	N/A	N/A	N/A	N/A
Nitrogen (total)	milligrams per litre	Monthly	1	-	-	-	-	28.1	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	-	-	-	-	9.8	N/A	N/A	N/A	N/A	N/A
Phosphorus	milligrams per litre	Monthly	1	-	-	-	-	5.12	N/A	N/A	N/A	N/A	N/A
Sodium	milligrams per litre	Quarterly	1	-	-	-	-	232	N/A	N/A	N/A	N/A	N/A
Sodium Adsorption Ratio	Sodium adsorption ratio	Quarterly	1	-	-	-	-	15.2	N/A	N/A	N/A	N/A	N/A
Total dissolved solids	milligrams per litre	Quarterly	1	-	-	-	-	746	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl as Nitrogen	milligrams per litre	Monthly	1	-	-	-	-	17.6	N/A	N/A	N/A	N/A	N/A

VOLUME MONITORING

VOLUME MONITORING													
EPA ID. No. 3	Site Description - Inlet to Sewage	e Treatment Works - POINT 3											
INFLUENT VOLUME MONITORING													
			No. of times measured during the month for licence reporting										
					Mean	Median	Maximum	Actual	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	30	1446	1685.8	-	2863	50574	-	-	-	-	N/A

DEPTH MONITORING

EPA Id. No. 4 DEPTH MONITORING (LEVEL OF EFFLUENT IN STORMWATER BALANCING POND)	Site Description - Stormwater De	etention Basin -POINT 4										
			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	30	0.6	0.806666667	-	1.2	-	-	-	-	N/A
Effluent pond level (m)	Daily	Inspection	30	1.1	1.263333333	-	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	Sampling		Minimum	Mean	Maximum	Actual total	Volume	Within					
	Measurement	Frequency	No. of times measured during the month				Monthly Volume	Limit Mg	Limits					
Point 1 - Wet Weather bypass to River	megalitres per day	Daily (overflow only)	30	0	0.97	4	15	20	YES					
Point 2 - Effluent Irrigation to Federation Farm	kL per dav	Daily	30	1575	1951	2,631	21,461	N/A	N/A					

ASSESSABLE POLLUTANT - pollutant discharge during reporting period

ASSESSABLE FOLLOTANT - poliutant discharge during reporting period													
	Yearly												
(TO BE ASSESSED AT THE END OF THE YEARLY PERIOD)													
ASSESSABLE POLLUTANT	Load Limit (kg) Per Year	Sampling					Maximum	Flow	Within				
ASSESSABLE FULLUTANT		Frequency	No. of times measured during the m	Minimum	Mean	Maxilliulli	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				