Gwydir Shire Council

Warialda Sewerage Treatment Plant - EPA License 584 - Yearly Summary

Point 2: Yearly Summary 1st November 2015 to 31st October 2016

		90 percentile	Monitoring Frequency required by the	Number of data points		Maximum			Count of 90 percentile	Excedence acceptable	
Pollutant	Units	concentration limit	License		Minimum value	value	Mean	Exceedences	exceedences	limit	Comments
Biochemical oxygen											Exceedances due to algae within
demand (BOD)	mg/L	20	monthly	12	6	25	11.8	yes	2		the tertiary ponds
Total suspended solids (TSS)	mg/L	30	monthly	12	3	65	25	yes	3		Exceedances due to algae within the tertiary ponds
Oil and Grease	mg/L	10	monthly	12	5	5	5	No	0	1	within 90% concentration limits
pH	pН		monthly	12	7.9	9.3	8.8				
Conductivity	ms/cm		monthly	12	0.67	1.04	0.88				
nitrogen)	mg/L		monthly	12	0.08	1.6	0.35				
Nitrogen (ammonia)	mg/L		monthly	12	0.2	7.8	3.4				
Phosporous	mg/L		monthly	12	3	5.7	4.1				
Total Kjeldahl Nitrogen	mg/L		monthly	12	1.3	7.8	3.2				
Faecal Coliforms	CFU/100ml		monthly	12	1	340	30				

Gwydir Shire Council

Warialda Sewerage Treatment Plant - EPA License 584 - Yearly Summary

Point 2: Yearly Summary 1st November 2016 to 31st October 2017

		90 percentile	Monitoring Frequency required by the	Number of data points		Maximum			Count of 90 percentile	Excedence acceptable	
Pollutant	Units	concentration limit	License		Minimum value	value	Mean	Exceedences		limit	Comments
Biochemical oxygen demand (BOD)	mg/L	20	monthly	12	2	42	6.5	ves	1	1	within 90% concentration limits
Total suspended solids (TSS)	mg/L	30	monthly	12	7	43	22	yes	3		Exceedances due to algae within the tertiary ponds
Oil and Grease	mg/L	10	monthly	12	5	5	5	No	0	1	No exceedences
pН	pН		monthly	12	8.8	9.7	9.3				
Conductivity	ms/cm		monthly	12	0.71	1.16	0.85				
Nitrate+nitrite (oxidised nitrogen)	mg/L		monthly	12	0	0.3	0.1				
Nitrogen (ammonia)	mg/L		monthly	12	0	18	1.5				
Phosporous	mg/L		monthly	12	1.7	4.17	2.2				
Total Kjeldahl Nitrogen	mg/L		monthly	12	1.1	24.4	3.6				
Faecal Coliforms	CFU/100ml		monthly	12	2	72	6.9				

Gwydir Shire Council

Warialda Sewerage Treatment Plant - EPA License 584 - Yearly Summary

Point 2: Yearly Summary 1st November 2017 to 31st October 2018

		90 percentile	Monitoring Frequency required by the	Number of data points		Maximum			Count of 90 percentile	Excedence acceptable	
Pollutant	Units	concentration limit	License	for the year	Minimum value	value	Mean	Exceedences	exceedences	limit	Comments
Biochemical oxygen demand (BOD)	mg/L	20	monthly	12	2	35	11	yes	1	1	within 90% concentration limits
Total suspended solids (TSS)	mg/L	30	monthly	12	10	27	71	yes	3		Exceedances due to algae within the tertiary ponds
Oil and Grease	mg/L	10	monthly	12	5	11	5	yes	0	1	No exceedences
рН	pН		monthly	12	8.2	10	9.3				
Conductivity	ms/cm		monthly	12	0.76	1.04	0.89				
Nitrate+nitrite (oxidised nitrogen)	mg/L		monthly	12	0.1	0.73	0.23				

Nitrogen (ammonia)	mg/L	monthly	12	0.1	14.7	1.95		
Phosporous	mg/L	monthly	12	1.7	11.4	4.2		
Total Kjeldahl Nitrogen	mg/L	monthly	12	1.4	18.9	5.1		
Faecal Coliforms	CFU/100ml	monthly	12	1	800	61		

Gwydir Shire Council

Warialda Sewerage Treatment Plant - EPA License 584 - Yearly Summary

Point 2: Yearly Summary 1st November 2018 to 31st October 2019

		90 percentile	Monitoring Frequency required by the	Number of data points		Maximum			Count of 90 percentile	Excedence acceptable	
Pollutant	Units	concentration limit	License		Minimum value		Mean	Exceedences		limit	Comments
Biochemical oxygen											
demand (BOD)	mg/L	20	monthly	12	2	18	7.6	no	0	1	No exceedences
Total suspended solids											Exceedances due to algae within
(TSS)	mg/L	30	monthly	12	5	182	43	Yes	4	1	the tertiary ponds
Oil and Grease	mg/L	10	monthly	12	0	5	4.5	No	0	1	No exceedences
pН	pН		monthly	12	8.6	9.7	9.2				
Conductivity	ms/cm		monthly	12	0.73	1.14	0.94				
Nitrate+nitrite (oxidised											
nitrogen)	mg/L		monthly	12	0.01	0.4	0.13				
Nitrogen (ammonia)	mg/L		monthly	12	0.07	1.32	0.2				
Phosporous	mg/L		monthly	12	2.51	5.46	4.15				
Total Kjeldahl Nitrogen	mg/L		monthly	12	1.3	5	3.14				
Faecal Coliforms	CFU/100ml		monthly	12	0	1000	155				

Gwydir Shire Council

Warialda Sewerage Treatment Plant - EPA License 584 - Yearly Summary

Point 2: Yearly Summary 1st November 2019 to 31st October 2020

		90 percentile	Monitoring Frequency required by the	Number of data points		Maximum			Count of 90 percentile	Excedence acceptable	
Pollutant	Units	concentration limit	License	for the year	Minimum value	value	Mean	Exceedences	exceedences	limit	Comments
Biochemical oxygen demand (BOD)	mg/L	20	monthly	12	2	17	4.5	No	0	1	No exceedences
Total suspended solids											Exceedances due to algae within
(TSS)	mg/L	30	monthly	12	10	45	25	Yes	3	1	the tertiary ponds
Oil and Grease	mg/L	10	monthly	12	<5	<5	<5	No	0	1	No exceedences
pH	pH		monthly	12	8	9.2	8.5				
Conductivity	ms/cm		monthly	12	810	1386	532				
Nitrate+nitrite (oxidised											
nitrogen)	mg/L		monthly	12	0.04	5.9	1.3				
Nitrogen (ammonia)	mg/L		monthly	12	0.1	5.6	1.2				
Phosporous	mg/L		monthly	12	2.4	5	3.8				
Total Kjeldahl Nitrogen	mg/L		monthly	12	1.6	7.5	3.7				
Faecal Coliforms	CFU/100ml		monthly	12	1	120	26				