



FARLEY WASTEWATER TREATMENT WORKS - ANNUAL POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 733
 Date Obtained: 5 October 2022
 Date Published: 20 February 2023

Hunter Water Corporation
 36 Honeysuckle Drive
 NEWCASTLE WEST NSW 2302

QUALITY MONITORING

EPA Id. No. 1 Site Code 5SL2300		Site Description - Pond No. 2 overflow into Fishery Creek													
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting*	Annual Summary 1 October 2021 to 30 September 2022											
				Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits	
Biochemical Oxygen Demand	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorophyll a	micrograms per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate+Nitrite (Oxidised Nitrogen)	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Ammonia)	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Total)	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phosphorus (Total)	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	First 24hrs then weekly	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*No samples were collected or analysed as no overflow from pond 2 occurred during the reporting period.

EPA Id. No. 4 Site Code 5OV2300		Site Description - Overflow weir from wet weather storage													
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Annual Summary 1 October 2021 to 30 September 2022											
				Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits	
Biochemical Oxygen Demand	milligrams per litre	First 24hrs then weekly	8	7	38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate+Nitrite (Oxidised Nitrogen)	milligrams per litre	First 24hrs then weekly	8	<0.05	6.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Ammonia)	milligrams per litre	First 24hrs then weekly	8	2.26	7.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	First 24hrs then weekly	8	<2	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	First 24hrs then weekly	8	6.97	8.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phosphorus (Total)	milligrams per litre	First 24hrs then weekly	8	0.68	3.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	First 24hrs then weekly	8	28	112	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 7 Site Code 5DE2300		Site Description - Effluent quality downstream of membrane filtration system												
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Annual Summary 1 October 2021 to 30 September 2022										
				Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	Weekly	52	<2	4	3	<2	6	3	N/A	N/A	N/A	N/A	Yes
Faecal Coliforms	colony forming units per 100mL	Weekly	52	<1	<17	150	<1	200	16	N/A	N/A	N/A	N/A	Yes
Nitrate+Nitrite (Oxidised Nitrogen)	milligrams per litre	Monthly	12	0.30	6.54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Ammonia)	milligrams per litre	Weekly	52	<0.05	0.99	0.5	0.08	3.0	0.19	N/A	N/A	N/A	N/A	Yes
Nitrogen (Total)	milligrams per litre	Monthly	12	0.7	7.2	3.0	2.1	6.0	3.9	N/A	N/A	N/A	N/A	Yes
Oil and Grease	milligrams per litre	Monthly	12	<2	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Weekly	52	7.01	7.77	N/A	N/A	6.50 - 8.50	7.45-7.75	N/A	N/A	N/A	N/A	Yes
Phosphorus (Total)	milligrams per litre	Weekly	52	<0.05	0.89	0.0	0.07	1.0	0.24	N/A	N/A	N/A	N/A	Yes
Total Kjeldahl Nitrogen	milligrams per litre	Monthly	12	<0.1	1.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Weekly	52	<1	6	2	1	5	3	N/A	N/A	N/A	N/A	Yes

VOLUME MONITORING

Annual Summary 1 October 2021 to 30 September 2022									
Monitoring Point	Unit of Measurement	Sampling Frequency	No. of times measured during the year	Minimum	Mean	Maximum	Volume Limit	Within Limits? *	
Point 1 - Pond No. 2 overflow into Fishery Creek	kilolitres per day	Daily	365	0	0	0	35,000	Yes	
Point 3 - Downstream of the ultra-violet disinfection unit	kilolitres per day	Daily	365	6,182	12,416	33,514	35,000	Yes	
Point 4 - Overflow weir from wet weather storage	kilolitres per day	Daily	365	0	540	30,894	35,000	Yes	
Point 5 - Flow to Reuse Customers	kilolitres per day	Daily	365	0	0	0	N/A	N/A	
Point 6 - Pond 2 Top Up	kilolitres per day	Daily	365	0	0	0	N/A	N/A	
Combined Point 1, 3 and 4	kilolitres per day	Daily	365	6,182	16,114	61,902	35,000	Yes	

*As per EPL condition L4.3, the licensee may discharge up to 120,000 kL per day of effluent providing that the volume of flow in Fishery creek at the time of discharge at the discharge point exceeds the bank full capacity of Fishery Creek.