



BRANXTON WASTEWATER TREATMENT WORKS - ANNUAL POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 1680
 Date Obtained: 4 October 2022
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Hunter Water Corporation
 36 Honeysuckle Drive
 NEWCASTLE WEST NSW 2302

QUALITY MONITORING

EPA Id. No. 1 Site Code SSL0500		Site Description - Outlet to Farmers Reuse 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	1	4	4	5	4	10	4	N/A	N/A	N/A	N/A	Yes
Chlorine (total residual)	milligrams per litre	First 24hrs then weekly	1	<0.02	<0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Enterococci	colony forming units per 100 mL	First 24hrs then weekly	1	240	240	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	First 24hrs then weekly	1	~36	~36	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	1	3.08	3.08	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	1	4.1	4.1	7.5	4.1	10.0	4.1	N/A	N/A	N/A	N/A	Yes
Nitrogen (Ammonia)	milligrams per litre	First 24hrs then weekly	1	<0.05	<0.05	1	<0.05	3	<0.05	N/A	N/A	N/A	N/A	Yes
pH	pH	First 24hrs then weekly	1	6.99	6.99	N/A	N/A	N/A	N/A	N/A	6.5 - 8.5	6.99	Yes	
Phosphorus (total)	milligrams per litre	First 24hrs then weekly	1	0.25	0.25	0.3	0.25	1	0.25	N/A	N/A	N/A	N/A	Yes
Total Kjeldahl Nitrogen	milligrams per litre	First 24hrs then weekly	1	1.0	1.0	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	1	3	3	10	3	20	3	N/A	N/A	N/A	N/A	Yes

EPA Id. No. 11 Site Code SBL0500		Site Description - Discharge to Black Creek from Reuse Water 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
Chlorine (total residual)	milligrams per litre	First 24hrs then weekly	47	<0.10	0.43	N/A	N/A	0.5	0.19	N/A	N/A	N/A	N/A	Yes

EPA Id. No. 12 Site Code SSK0535		Site Description - Reuse Water Pump Station												
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	3	5	<2	10	2	N/A	N/A	N/A	N/A	Yes
Faecal Coliforms	colony forming units per 100 mL	Weekly	52	<1	38	150	<1	200	<1	N/A	N/A	N/A	N/A	Yes
Enterococci	colony forming units per 100 mL	Weekly	52	<1	2	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	Monthly	12	2.22	4.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Total)	milligrams per litre	Monthly	12	2.7	5.8	7.5	4.7	10	5.7	N/A	N/A	N/A	N/A	Yes
Nitrogen (ammonia)	milligrams per litre	Monthly	12	<0.05	0.08	1	<0.05	3	0.07	N/A	N/A	N/A	N/A	Yes
pH	pH	Weekly	52	6.88	7.52	N/A	N/A	N/A	N/A	N/A	6.5 - 8.5	6.88-7.52	Yes	
Phosphorus (total)	milligrams per litre	Monthly	12	0.031	0.29	0.3	0.14	1	0.23	N/A	N/A	N/A	N/A	Yes
Total Kjeldahl Nitrogen	milligrams per litre	Monthly	12	0.2	1.2	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	3	10	<1	20	2	N/A	N/A	N/A	N/A	Yes

EPA Id. No. 13 Site Code SOV0410		Site Description - Outlet to Anvil Creek from Wet Weather Storage Pond												
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	2	7	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Enterococci	colony forming units per 100 mL	First 24hrs then weekly	2	3900	~30000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	First 24hrs then weekly	2	98000	630000	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	2	3.13	3.29	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	2	4.94	5.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	First 24hrs then weekly	2	7.05	7.16	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	2	1.08	1.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen	milligrams per litre	First 24hrs then weekly	2	6.9	8.5	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	2	53	101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Note: 1 missed sample in the annual return period

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 - Anvil Creek Discharge	kilolitres per day	Daily	365	0	9	2,018	31,104	Yes
Point 2 - Woodlot Discharge	kilolitres per day	Daily	365	0	0	0	N/A	N/A
Point 6 - Farmer Discharge	kilolitres per day	Daily	365	0	0	0	N/A	N/A
Point 8 - Spillway to Anvil Creek from Wet Weather Pond	kilolitres per day	Daily	365	0	0	0	N/A	N/A
Point 9 - Spillway to Anvil Creek from Farmer's Reuse Storage	kilolitres per day	Daily	365	0	0	0	N/A	N/A
Point 10 - Vintage Golf Course	kilolitres per day	Daily	365	0	201	2,696	N/A	N/A
Point 11 - Black Creek Discharge	kilolitres per day	Daily	365	0	1,676	5,646	31,104	Yes
Point 13 - Outlet to Anvil from Wet Weather Storage	kilolitres per day	Daily	365	0	129	11,441	N/A	N/A
Point 14 - Branxton Golf Course	kilolitres per day	Daily	365	0	15	186	N/A	N/A
Combined Point 1, 8, 9, 11 and 13	kilolitres per day	Daily	365	0	1,815	16,980	31,104	Yes