BRANXTON WASTEWATER TREATMENT WORKS - ANNUAL POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 1680
Date Obtained: 6 October 2015
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Hunter Water Corporation
36 Honeysuckle Drive
NEWCASTLE WEST NSW 2302

QUALITY MONITORING

EPA Id. No. 1 Site Code 5SL0500	Site Description - Outlet from Farmers Reuse Storage														
				Annual Summary 1 October 2014 to 30 September 2015											
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting*	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of Measurements	3DGM Actual	100%ile Limit	100%ile Actual
Biochemical Oxygen Demand	milligrams per litre	First 24hrs then weekly	-	-	-	5	-	10	-	N/A	N/A	N/A	N/A	N/A
Chlorine (total residual)	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
Faecal Coliforms	colony forming units per 100 mL	First 24hrs then weekly	-	-	-	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
Nitrogen (ammonia)	milligrams per litre	First 24hrs then weekly	-	-	-	1.0	-	3.0	-	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	6.50 - 8.50	- - -
Phosphorus (total)	milligrams per litre	First 24hrs then weekly	-	-	-	0.3	-	1	-	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl 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
Total Suspended Solids	milligrams per litre	First 24hrs then weekly	-	-	-	10	-	20	-	N/A	N/A	N/A	N/A	N/A

* No samples were collected as no discharge occurred during the year

EPA Id. No. 11 Site Code 5BL0500	Site Description - Discharge to Black Creek from Reuse Water Storage													
				Annual Summary 1 October 2014 to 30 September 2015										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of Measurements	3DGM Actual	100%ile Limit	100%ile Actual
Chlorine (total residual)	milligrams per litre	First 24hrs then weekly	33	<0.10	0.22	N/A	N/A	0.5	0.14	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 12 Site Code 5SK0535	Site Description - Reuse Water Pump Station													
				Annual Summary 1 October 2014 to 30 September 2015										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of Measurements	3DGM Actual	100%ile Limit	100%ile Actual
Biochemical Oxygen Demand	milligrams per litre	Weekly	53	<2	3	5	<2	10	2	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Weekly	53	0	0	150	0	200	0	N/A	N/A	N/A	N/A	N/A
Nitrate+nitrite (oxidised nitrogen)	milligrams per litre	Monthly	12	3.30	4.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Monthly	12	<0.05	0.21	1.00	<0.05	3.00	0.10	N/A	N/A	N/A	N/A	N/A
pH	pH	Weekly	53	7.00	8.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.50 - 8.50	7.00 - 8.20
Phosphorus (total)	milligrams per litre	Monthly	12	0.03	0.11	0.3	0.05	1	0.1	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen	milligrams per litre	Monthly	12	<0.5	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Weekly	53	<1	7	10	<1	2	3	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 13 Site Code 5OV0500	Site Description - Outlet from Wet Weather Storage Pond.													
				Annual Summary 1 October 2014 to 30 September 2015										
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM Number of Measurements	3DGM Actual	100%ile Limit	100%ile Actual
Biochemical Oxygen Demand	milligrams per litre	First 24hrs then weekly	1	11	11	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	750000	750000	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	3.20	3.20	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	1	3.7	3.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	First 24hrs then weekly	1	7.3	7.3	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	1	1.1	1.1	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	1	3.9	3.9	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	2	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A