BRANXTON WASTEWATER TREATMENT WORKS - ANNUAL MONITORING SUMMARY

Environment Protection Licence No. 1680
Date Obtained: 1 October 2013
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Licensee 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 2012 to 30 September 2013													
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 Minimum	3DGM Maximum	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	First 24hrs then weekly	17	<2	7	5	2	10	5	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Nitrogen (ammonia)	milligrams per litre	First 24hrs then weekly	17	0.02	0.85	1	0.12	3	0.45	N/A	N/A	N/A	N/A	N/A	N/A	Yes
pH	pH	First 24hrs then weekly	17	5.75	8.24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.50 - 8.50	5.75 - 8.24	No*
Phosphorus (total)	milligrams per litre	First 24hrs then weekly	17	0.2	0.8	0.3	0.4	1	0.6	N/A	N/A	N/A	N/A	N/A	N/A	No**
Total Nitrogen	milligrams per litre	First 24hrs then weekly	17	1.68	11.60	7.5	3.20	10	7.92	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Total Suspended Solids	milligrams per litre	First 24hrs then weekly	17	<1	12	10	2	20	7	N/A	N/A	N/A	N/A	N/A	N/A	Yes

* Branxton WWTW breached the 100%ile pH limit at Anvil Creek Discharge on the 11th November 2012 due to a problem with the Sodium Bisulphite dosing system.
** Branxton WWTW breached the 50%ile total Phosphorus (TP) limit at the Anvil Creek Discharge. The TP result from the membrane treatment plant are typically well below the 50%ile limit. Elevated TP levels in the effluent discharged resulted from release of phosphorus from reeds and sediments in the open reuse storage pond that supplies the farmer and local golf club. Now that the Vintage reuse scheme is commissioned there is less likelihood of discharge from this pond

EPA Id. No. 11 Site Code 5BL0500	Site Description - Discharge to Black Creek from Reuse Water Storage																
				Annual Summary 1 October 2012 to 30 September 2013													
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 Minimum	3DGM Maximum	100%ile Limit	100%ile Actual	Within Limits
Chlorine (total residual)	milligrams per litre	First 24hrs then weekly	22	<0.1	0.3	N/A	N/A	0.5	0.2	N/A	N/A	N/A	N/A	N/A	N/A	Yes

EPA Id. No. 12 Site Code 5SK0535	Site Description - Reuse Water Pump Station																
				Annual Summary 1 October 2012 to 30 September 2013													
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 Minimum	3DGM Maximum	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	N/A	N/A	Yes
Faecal Coliforms	colony forming units per 100 mL	Weekly	52	0	24	N/A	N/A	150	0	N/A	N/A	N/A	N/A	200	24	Yes
Nitrogen (ammonia)	milligrams per litre	Monthly	12	<0.05	1.70	1	0.12	3	0.56	N/A	N/A	N/A	N/A	N/A	N/A	Yes
pH	pH	Weekly	52	6.96	7.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.50 - 8.50	6.96 - 7.76	Yes
Phosphorus (total)	milligrams per litre	Monthly	12	<0.05	0.30	0.3	0.05	1	0.22	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Total Nitrogen	milligrams per litre	Monthly	12	3.40	12.80	7.5	4.35	10	6.89	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Total Suspended Solids	milligrams per litre	Weekly	52	<1	5	10	1	20	3	N/A	N/A	N/A	N/A	N/A	N/A	Yes