SHORTLAND WASTEWATER TREATMENT WORKS - ANNUAL POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 1683
Date Obtained: 3 July 2017
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Hunter Water Corporation
36 Honeysuckle Drive
NEWCASTLE WEST NSW 2302

QUALITY MONITORING

EPA Id. No. 20 Site Code 5SL1810	Site Description -Shortland WWTW dechlorination building														
				Annual Summary 1 July 2016 to 30 June 2017											
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 Number of measurements	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	Special Frequency 1	34	<2	6	25	<2	60	4	N/A	N/A	N/A	N/A	N/A	Yes
Chlorine (free residual)	milligrams per litre	Special Frequency 1	20*	<0.10	0.77	N/A	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	Special Frequency 1	34	2	3600	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	Special Frequency 1	34	2.8	26.5	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	Special Frequency 1	34	<0.05	4.5	N/A	N/A	8	1.8	N/A	N/A	N/A	N/A	N/A	Yes
Oil and Grease	milligrams per litre	Special Frequency 1	34	<2	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Special Frequency 1	34	6.5	7.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.5 - 8.5	6.5 - 7.12	Yes
Phosphorus (total)	milligrams per litre	Special Frequency 1	34	0.72	8.5	N/A	N/A	7	5.2	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Special Frequency 1	34	<1	26	40	6	80	14	N/A	N/A	N/A	N/A	N/A	Yes

* Licence varied on 6th September to include Chlorine (Free Residual). Samples not analysed for Chlorine (free residual) on six occasions

EPA Id. No. 18 Site Code 5OV1800	Site Description -Shortland WWTW overflow														
				Annual Summary 1 July 2016 to 30 June 2017											
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 Number of measurements	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Biochemical Oxygen Demand	milligrams per litre	Daily during any discharge	14	<2	17	N/A	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	Daily during any discharge	14	54	150000	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	Daily during any discharge	14	0.38	4.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Daily during any discharge	14	7.05	7.70	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	Daily during any discharge	14	<1	34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A