



CLARENCETOWN WASTEWATER TREATMENT WORKS - ANNUAL POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 13250
 Date Obtained: 9 January 2015
 Date Published: 29 January 2015

Licensee Hunter Water Corporation
 36 Honeysuckle Drive
 NEWCASTLE WEST NSW 2302

QUALITY MONITORING

EPA Id. No. 1 Site Code 5CT0001		Site Description - Discharge to utilisation area															
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Annual Summary 1 January 2014 to 31 December 2014													Within Limits
				Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM % of measure	3DGM Minimum	3DGM Maximum	100%ile Limit	100%ile Actual		
Aluminium	milligrams per litre	Yearly	1	0.47	0.47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BOD	milligrams per litre	Weekly	58	2	17	N/A	N/A	30	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Cadmium	milligrams per litre	Yearly	1	<0.2	<0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloride	milligrams per litre	Monthly	12	52	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorophyll a	milligrams per litre	Weekly	58	<1	78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium	milligrams per litre	Yearly	1	0.0015	0.0015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Conductivity	microsiemens per centimetre	Quarterly	4	438	526	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper	milligrams per litre	Yearly	1	0.0105	0.0105	N/A	N/A	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	Monthly	12	9	600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Iron	milligrams per litre	Yearly	1	1.87	1.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lead	milligrams per litre	Yearly	1	0.0008	0.0008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Magnesium	milligrams per litre	Yearly	1	4.7	4.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese	milligrams per litre	Yearly	1	0.0204	0.0204	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mercury	milligrams per litre	Yearly	1	0.0005	0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate	milligrams per litre	Monthly	12	0.03	1.9	N/A	N/A	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	Monthly	12	0.15	1.70	N/A	N/A	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	Monthly	12	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	<5	Yes
pH	pH	Weekly	58	7.40	8.88	N/A	N/A	6.50 - 8.50	7.68 - 8.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Potassium	milligrams per litre	Monthly	12	2	11.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nitrogen	milligrams per litre	Monthly	12	1.45	5.1	N/A	N/A	30	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Total Phosphorous	milligrams per litre	Monthly	12	2.10	4.40	N/A	N/A	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	Weekly	58	1	31	N/A	N/A	40	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Zinc	milligrams per litre	Yearly	1	0.0043	0.0043	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

** Only samples that were taken when discharging to utilisation area have been included for compliance calculations.

EPA Id. No. 2 Site Code 5OV3100		Site Description - Overflow spillway															
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Annual Summary 1 January 2014 to 31 December 2014													Within Limits
				Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM % of measure	3DGM Minimum	3DGM Maximum	100%ile Limit	100%ile Actual		
Biochemical Oxygen Demand	milligrams per litre	Special Frequency 1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorophyll a	milligrams per litre	Special Frequency 1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate	milligrams per litre	Special Frequency 1	-	-	-	-	-	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	-	-	-	-	-	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	Special Frequency 1	-	-	-	-	-	N/A	N/A	10	-	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Special Frequency 1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nitrogen	milligrams per litre	Special Frequency 1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Phosphorous	milligrams per litre	Special Frequency 1	-	-	-	-	-	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	Special Frequency 1	-	-	-	-	-	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 during the month as no overflow from the spillway occurred during the month.

EPA Id. No. 5 Site Code		Site Description - Pumped discharge to Wallaroo Creek															
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Annual Summary 1 January 2014 to 31 December 2014													Within Limits
				Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Limit	3DGM % of measure	3DGM Minimum	3DGM Maximum	100%ile Limit	100%ile Actual		
Biochemical Oxygen Demand	milligrams per litre	Special Frequency 1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorophyll a	milligrams per litre	Special Frequency 1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate	milligrams per litre	Special Frequency 1	-	-	-	-	-	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	-	-	-	-	-	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	Special Frequency 1	-	-	-	-	-	N/A	N/A	10	-	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Special Frequency 1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nitrogen	milligrams per litre	Special Frequency 1	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Phosphorous	milligrams per litre	Special Frequency 1	-	-	-	-	-	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	Special Frequency 1	-	-	-	-	-	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 during the month as there was no discharge to Wallaroo Creek during the year.