



KARUAH WASTEWATER TREATMENT WORKS - ANNUAL POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 10230
Date Obtained: 1 October 2022
Date Published: 20 February 2023

Hunter Water Corporation
36 Honeysuckle Drive
NEWCASTLE WEST NSW 2302

QUALITY MONITORING

EPA Id. No. 1 Site Code 5SL3000		Site Description - Flow meter on discharge line from effluent irrigation pump												
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Annual Summary 1 October 2021 - 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	Quarterly	4	<2	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Total)	milligrams per litre	Quarterly	4	1.0	3.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phosphorus (Total)	milligrams per litre	Quarterly	4	0.05	0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Quarterly	4	<1	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 2 Site Code 5OV3000		Site Description - Overflow discharge pit												
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Annual Summary 1 October 2021 - 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 24 hrs then weekly	38	<2	9	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 24 hrs then weekly	38	<9	3800	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 24 hrs then weekly	38	<1	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 3 Site Code 5EE3000		Site Description - Discharge from the UV disinfection plant to the effluent storage dam												
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Annual Summary 1 October 2021 - 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	Monthly	12	<2	5	N/A	N/A	15	3	N/A	N/A	20	5	Yes
Faecal Coliforms	colony forming units per 100 mL	Monthly	12	<2	1100	N/A	N/A	200	11	N/A	N/A	500	1100	Yes
Nitrogen (ammonia)	milligrams per litre	Monthly	12	0.19	3.12	N/A	N/A	3	1.7	N/A	N/A	5	3.1	Yes
Nitrogen (Total)	milligrams per litre	Monthly	12	3.1	16.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phosphorus (Total)	milligrams per litre	Monthly	12	0.2	2.27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Monthly	12	1	9	N/A	N/A	20	5	N/A	N/A	30	9	Yes
pH	pH	Monthly	12	6.98	7.20	N/A	N/A	N/A	N/A	N/A	N/A	6.5 - 8.5	6.98 - 7.20	Yes

VOLUME MONITORING

Annual Summary 1 October 2021 - 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 - Effluent Irrigation	kilolitres per day	Daily	365	0	238	2,534	3,000	Yes	
Point 2 - Overflow Discharge	kilolitres per day	Daily	365	0	644	28,687	N/A	N/A	