

Permit Number: LP3439HM
Facility: Roath Dock Wasye Treatment Centre

Operator: Castle Waste Services Ltd
Form Number: Sewer1 / 2023 Q4

Reporting of emissions to sewer for the period from 01/10/2023 to 31/12/2023

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
S1	Flow Rate	None set	None set	5 litres/sec	As agreed with Natural Resources Wales	Various	
S1	Adsorbable Organically Bound Halogens (AOX)	1 mg/l	None set	0.201	EN ISO 9562	30/11/23	
S1	Benzene, Toluene, Ethylbenzene, Xylene (BTEX)	None set	None set	<1 mg/l	EN ISO 15680	Various	
S1	Free Cyanide (CN)	0.1 mg/l	None set	<0.05 mg/l	Various EN standards available (e.g. EN ISO 14403-1 and -2)	Various	
S1	Hydrocarbon Oil Index (HOI)	10 mg/l	None set	0.891 mg/l	EN ISO 9377-2	14/12/23	
S1	Arsenic (As)	0.1 mg/l	None set	0.016 mg/l	Various EN standards available (e.g. EN ISO 11885, EN ISO 17294-2, EN ISO 15586)	19/12/23	
S1	Cadmium (Cd)	0.1 mg/l	None set	0.022 mg/l		05/10/23	
S1	Chromium (Cr)	0.3 mg/l	None set	0.388 mg/l		27/10/23	
S1	Copper (Cu)	0.5 mg/l	None set	0.896 mg/l		05/10/23	
S1	Nickel (Ni)	1 mg/l	None set	0.282 mg/l		18/12/23	
S1	Lead (Pb)	0.3 mg/l	None set	1.31 mg/l		12/10/23	
S1	Zinc (Zn)	2 mg/l	None set	1.43 mg/l		27/10/23	
S1	Manganese (Mn)	No limit set	None set	0.0426 mg/l		19/12/23	
S1	Hexavalent Chromium (Cr(VI))	0.1 mg/l	None set	0.99 mg/l	Various EN standards available (e.g. EN ISO 10304-3, EN ISO 23913)	19/12/23	
S1	Mercury (Hg)	10 µg/l	None set	<0.00205 mg/l	Various EN standards available (e.g. EN ISO 17852, EN ISO 12846)	28/12/23	
S1	PFOA	No limit set	None set	25.7 ng/l	No EN standard available	27/12/23	

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
S1	PFOS	No limit set	None set	24.1 ng/l	No EN standard available	23/10/23	

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed 

Date.....31/01/2024.....