

Permit Number: EP3230BW

Operator: Envirowales Limited

Facility: Rassau Recycling Facility

Form Number: Air1 / 02/11/17

Reporting of emissions to air for the year 2023

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A1	Sulphuric acid mist	1 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.12	US EPA Method 8	12/09/2023 15.15-16.17	13
A1	Dust	5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	1.51	BS EN 13284-1	31/05/2023 13.00-14.02	28
A1	Arsenic, Cadmium, Mercury, Thallium and Selenium and their compounds expressed as As, Cd, Hg, Tl and Se	0.5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.00405	BS EN 14385	31/05/2023 09.30-10.32	6
A1	Antimony, Copper, Lead, Nickel, Tellurium, Tin and Zinc and their compounds expressed as Sb, Cu, Pb, Ni, Te, Sn and Zn	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.26	BS EN 14385	12/09/2023 11.45-12.47	8
A2	Dust	4 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	1.59	BS EN 13284-1	20/04/2023 16.20-17.20	29
A2	Sulphur dioxide	350 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	18.81	BS EN 14791	14/09/2023 12.40-13.40	3

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A2	Hydrogen chloride	10 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.12	BS EN 1911	20/04/2023 13.15-14.15	13
A2	Mercury and its compounds expressed as Hg	0.05 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.0039	BS EN 14385	13/09/2023 13.15-14.15	12
A2	Lead and its compounds expressed as Pb	1 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.14	BS EN 14385	13/09/2023 10.00-11.00	11
A2	Arsenic, Cadmium, Thallium and Selenium and their compounds expressed as As, Cd, Tl and Se	0.5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.0029	BS EN 14385	13/09/2023 10.00-11.00	6
A2	Antimony, Copper, Nickel, Tellurium, Tin and Zinc and their compounds expressed as Sb, Cu, Ni, Te, Sn and Zn	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.039	BS EN 14385	20/04/2023 09.30-10.30	6
A2	Dioxins and furans (ITEQ)	0.1 ng/m ³	Periodic over minimum 6 hours, maximum 8 hour period	0.00095	BS EN 1948 Parts 1, 2 and 3	12/09/2023 10.00-16.00	16
A2	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 6 hours, maximum 8 hour period	62.61	BS EN 14792	14/09/2023 12.40-13.40	2
A2	Carbon monoxide	1000 mg/m ³	Periodic over minimum 6 hours, maximum 8 hour period	144.32	BS EN 15058	19/04/2023 14.30-16.00	3
A2	Volatile organic compounds (as Carbon)	40 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	7.22	BS EN 12619	14/09/2023 12.40-14.10	2

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A3	Dust	4 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	1.34	BS EN 13284-1	19/04/2023 09.30-10.30	32
A3	Sulphur dioxide	500 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	9.83	BS EN 14791	14/09/2023 14.40-15.40	3
A3	Hydrogen chloride	10 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.36	BS EN 1911	19/04/2023 09.30-10.30	13
A3	Arsenic, Cadmium, Mercury, Thallium and Selenium and their compounds expressed as As, Cd, Hg, Tl and Se	0.5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.0028	BS EN 14385	19/04/2023 15.10-16.10	6
A3	Antimony, Copper, Lead, Nickel, Tellurium, Tin and Zinc and their compounds expressed as Sb, Cu, Pb, Ni, Te, Sn and Zn	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.18	BS EN 14385	14/09/2023 09.25-10.25	8
A3	Dioxins and furans (ITEQ)	0.1 ng/m ³	Periodic over minimum 6 hours, maximum 8 hour period	0.0012	BS EN 1948 Parts 1, 2 and 3	13/09/2023 09.35-15.35	15
A3	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	2.30	BS EN 14792	18/04/2023 15.30-17.00	2
A3	Carbon monoxide	1000 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	6.38	BS EN 15058	14/09/2023 14.40-15.40	2
A3	Volatile organic compounds (as Carbon)	40 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	15.68	BS EN 12619	18/04/2023 15.30-17.00	2

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A4	Dust	4 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	1.10	BS EN 13284-1	27/04/2023 10.25-11.25	38
A4	Arsenic, Cadmium, Mercury, Thallium and Selenium and their compounds expressed as As, Cd, Hg, Tl and Se	0.5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.0039	BS EN 14385	27/04/2023 14.40-15.40	5
A4	Antimony, Copper, Lead, Nickel, Tellurium, Tin and Zinc and their compounds expressed as Sb, Cu, Pb, Ni, Te, Sn and Zn	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	0.51	BS EN 14385	27/04/2023 14.40-15.40	12
A5	Sulphur dioxide	50 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	31.44	BS EN 14791	17/04/2023 15.30-17.00	3
A5	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	92.19	BS EN 14792	11/09/2023 13.20-14.50	2
A5	Carbon monoxide	150 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	14.19	BS EN 15058	11/09/2023 13.20-14.50	2
A5	Volatile organic compounds (as Carbon)	50 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	6.48	BS EN 12619	17/04/2023 15.30-17.00	3
A6	Lead and its compounds expressed as Pb	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not installed	BS EN 14385		
A6	Dust	5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not installed	BS EN 13284-1		

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A6	Sulphur dioxide	500 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not installed	BS EN 14791		
A6	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not installed	BS EN 14792		
A7	Dust	No visible emission	N/A	No visible emission	N/A		
A8	Dust	No visible emission	N/A	No visible emission	N/A		
Ambient air monitor located at Garnlydan School at 316600, 212400	Particulate matter	N/A	Continuous	249.3	EN12341:2014		
Ambient air monitor located at Garnlydan School at 316600, 212400	Lead	N/A	Continuous	0.060	EN12341:2014		

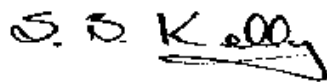
[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – 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: **12/01/2024**

(Authorised to sign as representative of Operator)