

Permit Number: EP3230BW

Operator: Envirowales Limited

Facility: Rassau Recycling Facility

Form Number: Air1 / 02/11/17

Reporting of emissions to air for the period from 01/01/2017 to 31/12/2017

Emission Point	Substance / Parameter	Emission		Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value						
A1	Sulphuric acid mist	1 mg/m ³		Periodic over minimum 30 minutes, maximum 8 hour period	0.23	US EPA Method 8	13/07/17 12:46 – 13:48	13
A1	Dust	5 mg/m ³		Periodic over minimum 30 minutes, maximum 8 hour period	3.4	BS EN 13284-1	29/03/17 12:17 – 13:18	9
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	.0074	BS EN 14385	13/07/17 09:00 – 11:02	7
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	.044	BS EN 14385	13/07/17 09:00 – 11:02	9
A2	Dust	5 mg/m ³		Periodic over minimum 30 minutes, maximum 8 hour period	1.92	BS EN 13284-1	30/03/2017 12:59 – 13:59	9
A2	Dust	5 mg/m ³		Monthly average	1.01	BS EN 13284-1 and EN 14181	Continuous	

Emission Point		Substance / Parameter	Emission		Reference Period		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
			Limit Value							
A2	Dust		10 mg/m ³	Daily average		4.08	BS EN 13284-1 and EN 14181			
A2	Sulphur dioxide		500 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period		49.36	BS EN 14791	30/03/2017 11:52 – 13:21		3
A2	Sulphur dioxide		500 mg/m ³	Monthly average		17.63	BS EN 14181	Continuous		
A2	Sulphur dioxide		500 mg/m ³	Daily average		140.17	BS EN 14791	Continuous		
A2	Hydrogen chloride		10 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period		0.11	BS EN 1911	30/11/2017 12:37 – 13:37		13
A2	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		0.0043	BS EN 14385	10/07/2017 12:57 – 14:57		7
A2	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		0.0258	BS EN 14385	10/07/2017 12:57 – 14:57		9
A2	Dioxins and furans (ITEQ)		0.1 ng/m ³	Periodic over minimum 6 hours, maximum 8 hour period		0.005	BS EN 1948 Parts 1, 2 and 3	30/03/2017 09:16 – 15:16		15
A2	Oxides of nitrogen		100 mg/m ³	Periodic over minimum 6 hours, maximum 8 hour period		59.57	BS EN 14792	30/03/2017 11:52 – 13:21		3
A2	Oxides of nitrogen		100 mg/m ³	Monthly average		55.67	BS EN 14181	Continuous		
A2	Oxides of		200 mg/m ³	Daily average		172.18	BS EN 14181	Continuous		

Emission Point	Substance / Parameter	Emission		Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value						
	nitrogen							
A2	Carbon monoxide	1000 mg/m³	Periodic over minimum 6 hours, maximum 8 hour period	880.76	BS EN 15058	30/03/2017 11:52 – 13:21	2	
A2	Carbon monoxide	1000 mg/m³	Monthly average	850.09	BS EN 15267-3 and EN 14181	Continuous		
A2	Volatile organic compounds (as Carbon)	50 mg/m³	Periodic over minimum 6 hours, maximum 8 hour period	46.04	BS EN 12619	10/07/2017 17:01 – 18:00	3	
A2	Volatile organic compounds (as Carbon)	50 mg/m³	Monthly average	31.43	BS EN 12619	Continuous		
A2	Volatile organic compounds (as Carbon)	100 mg/m³	Daily average	50.23	BS EN 12619	Continuous		
A3	Dust	5 mg/m³	Periodic over minimum 30 minutes, maximum 8 hour period	0.85	BS EN 13284-1	10/07/2017 13:04 – 14:04	9	
A3	Dust	5 mg/m³	Monthly average	0.19	BS EN 13284-1 and EN 14181	Continuous		
A3	Dust	10 mg/m³	Daily average	4.96	BS EN 13284-1 and EN 14181	Continuous		
A3	Sulphur dioxide	500 mg/m³	Periodic over minimum 30 minutes, maximum 8 hour period	7.97	BS EN 14791	29/11/2017 12:30 – 13:59	3	
A3	Hydrogen chloride	10 mg/m³	Periodic over minimum 30 minutes, maximum 8 hour period	0.05	BS EN 1911	29/11/2017 13:55 – 14:55	13	
A3	Arsenic, Cadmium, Mercury, Thallium and Selenium and their compounds expressed as As,	0.5 mg/m³	Periodic over minimum 30 minutes, maximum 8 hour period	0.0029	BS EN 14385	29/11/2017 09:45 – 11:45	6	

Emission Point	Substance / Parameter	Emission		Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value						
	Cd, Hg, Tl and Se							
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	0.025	BS EN 14385	29/11/2017 09:45 – 11:45	8
A3	Dioxins and furans (ITEQ)	0.1 ng/m ³		Periodic over minimum 6 hours, maximum 8 hour period	0.002	BS EN 1948 Parts 1, 2 and 3	11/07/2017 10:18 – 16:18	27
A3	Oxides of nitrogen	100 mg/m ³		Periodic over minimum 30 minutes, maximum 8 hour period	1.72	BS EN 15267	29/11/2017 12:30– 13:59	2
A3	Carbon monoxide	150 mg/m ³		Periodic over minimum 30 minutes, maximum 8 hour period	18.11	BS EN 15058	29/11/2017 12:30– 13:59	2
A3	Volatile organic compounds (as Carbon)	50 mg/m ³		Periodic over minimum 30 minutes, maximum 8 hour period	6.46	BS EN 12619	30/11/2017 16:01 – 17:00	3
A4	Dust	5 mg/m ³		Periodic over minimum 30 minutes, maximum 8 hour period	0.75	BS EN 13284-1	12/07/2017 15:45 – 16:45	28
A4	Dust	5 mg/m ³		Monthly average	0.18	BS EN 13284-1 and EN 14181	Continuous	
A4	Dust	10 mg/m ³		Daily average	0.46	BS EN 13284-1 and EN 14181	Continuous	
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	0.0033	BS EN 14385	12/07/2017 13:15 – 15:15	6

Emission		Substance / Parameter	Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
Emission Point								
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	0.027	BS EN 14385	12/07/2017 13:15 – 15:15	9	
A5	Sulphur dioxide	50 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	6.58	BS EN 14791	28/11/2017 11:08 – 12:37	5	
A5	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	77.03	BS EN 15267	13/07/2017 08:16 – 09:15	2	
A5	Carbon monoxide	150 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	34.74	BS EN 15058	28/11/2017 11:08 – 12:37	3	
A5	Volatile organic compounds (as Carbon)	50 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	26.02	BS EN 12619	13/07/2017 13:31 – 14:30	4	
A6	Lead and its compounds expressed as Pb	2 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not operating	BS EN 14385			
A6	Dust	5 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not operating	BS EN 13284- 1			
A6	Sulphur dioxide	500 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not operating	BS EN 14791			
A6	Oxides of nitrogen	100 mg/m ³	Periodic over minimum 30 minutes, maximum 8 hour period	Not operating	BS EN 15267			
A7	Dust	No visible emission	N/A	No visible	N/A			
A8	Dust	No visible emission	N/A	No visible	N/A			

Emission Point	Substance / Parameter	Emission				Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period						
Ambient air monitor located at Garmlydan School at 316600, 212400	Particulate matter	N/A	Continuous		83.9	EN12341:2014			
Ambient air monitor located at Garmlydan School at 316600, 212400	Lead	N/A	Continuous		0.054	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

(Authorised to sign as representative of Operator)

Date: 19/01/2018

