

Releases into the Air from the Primary & Secondary Incinerators (Release Point references A1 & A2)
Reporting of Periodic Emissions Monitoring Data for period from January - June 2021

	Primary Incinerator (Release Point reference A1)					Secondary Incinerator (Release Point reference A2)				
	Test Date	Test Method & sample time	Uncertainty (%)	Result ^[1]	ELV ^[2]	Test Date	Test Method & sample time	Uncertainty (%)	Result ^[1]	ELV ^[2]
HF ^[3] mg/m ³	4/2/21	BSISO15713 0932 – 1132	8.8	0.68	2 mg/m ³	6/2/21	BSISO15713 1023 – 1223	7.7	0.13	2 mg/m ³
Cd + Tl ^[4] mg/m ³	3/2/21	BS EN 14385 12:05 - 14:05	13.2	0.00076	0.05 mg/m ³	7/2/21	BS EN 14385 1012 - 1212	11.8	0.00085	0.05 mg/m ³
Hg ^[5] mg/m ³	3/2/21	BS EN13211 12:05 - 14:05	29.9	0.00067	0.05 mg/m ³	7/2/21	BS EN13211 1012 - 1212	22.2	0.00045	0.05 mg/m ³
Metals ^[6] mg/m ³	3/2/21	BS EN14385 12:05 - 14:05	19.4	0.036	0.5 mg/m ³	7/2/21	BS EN14385 1012 - 1212	20.8	0.024	0.5 mg/m ³
PAHs ^[7] ug/m ³	3/2/21	BSISO1133 0949 - 1149	21.4	1.4	-	7/2/21	BSISO1133 1312 - 1512	21.4	2.8	-
PCBs ^[8] ng/m ³	4/2/21	BS EN 1948 0907 – 1507	21.4	0.0007	-	6/2/21	BS EN 1948 1013 – 1613	21.1	0.00054	-
Dioxins ^[9] ng/m ³	4/2/21	BS EN 1948 0907 – 1507	21.3	0.0061	0.1 ng/m ³	6/2/21	BS EN 1948 1013 – 1613	21.1	0.0076	0.1 ng/m ³
Dioxins ^[9] ng/m ³	3/8/21	BS EN 1948 1227 - 1827	21.2	0.0104	0.1 ng/m ³	29/7/21	BS EN 1948 0954 – 1058	22.2	0.0099	0.1 ng/m ³

[1] All values are expressed at the following conditions: 273K, 101.3kPa, 11% v/v oxygen, dry gas without correction for uncertainty.

[2] ELV means Emission Limit Value.

[3] HF means hydrogen fluoride.

[4] Cd+Tl means cadmium and thallium including the gas, vapour and solid phases of the metals and their compounds, in total, expressed as the metals.

[5] Hg means mercury including the gas, vapour and solid phases of the metal and its compounds, in total, expressed as the metal.

[6] Metals means antimony, arsenic, chromium, cobalt, copper, lead, manganese, nickel & vanadium including the gas, vapour and solid phases of the metals and their compounds, in total, expressed as the metals.

[7] PAHs means polyaromatic hydrocarbons.

[8] PCBs means dioxin-like PCBs.

[9] Dioxins means dioxins and furans expressed as the TEQ based upon the I-TEF scheme for toxic equivalence.

Results of Continuous Dioxin Sampling			
Primary Incinerator (Release Point reference A1)		Secondary Incinerator (Release Point reference A2)	
Sample Period (dates)	Average Concentration (I-TEQ) ng/m ³	Sample Period (dates)	Average Concentration (I-TEQ) ng/m ³
<p>Following the issuing of License number WDL/06/2003/V6 the requirement for continuous dioxin sampling was removed. Both lines will now have quarterly periodic sampling of dioxins in place of continuous sampling.</p>		<p>Continuous Monitoring discontinued in the Secondary in agreement with EPU. Quarterly Periodic sampling will replace this.</p>	

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Reporting of Periodic Emissions Monitoring Data for period from January - June 2021 (continued)

Results of periodic emissions monitoring for dioxins and furans using different TEF-schemes									
Release Point	I-TEQ		WHO-TEQ _{human/mammals}		WHO-TEQ _{fish}		WHO-TEQ _{birds}		Sample Date
	Congeners<LoD assumed to be zero ng/m ³	Congeners<LoD assumed to be at LoD ng/m ³	Congeners<LoD assumed to be zero ng/m ³	Congeners<LoD assumed to be at LoD ng/m ³	Congeners<LoD assumed to be zero ng/m ³	Congeners<LoD assumed to be at LoD ng/m ³	Congeners<LoD assumed to be zero ng/m ³	Congeners<LoD assumed to be at LoD ng/m ³	
A1	0.0061	0.0061	0.0060	0.0060	0.0061	0.0061	0.0101	0.0101	4/2/21
A2	0.0076	0.0076	0.0074	0.0074	0.0079	0.0079	0.0131	0.0131	6/2/21
A1	0.0104	0.0104	0.0095	0.0095	0.0096	0.0096	0.0155	0.0155	3/8/21
A2	0.0099	0.0099	0.0092	0.0092	0.0100	0.0100	0.0158	0.0158	29/7/21

Results of periodic emissions monitoring for dioxin-like PCBs using different TEF-schemes									
Release Point	UK-COT		WHO-TEQ _{human/mammals}		WHO-TEQ _{fish}		WHO-TEQ _{birds}		Sample Date
	Congeners<LoD assumed to be zero ng/m ³	Congeners<LoD assumed to be at LoD ng/m ³	Congeners<LoD assumed to be zero ng/m ³	Congeners<LoD assumed to be at LoD ng/m ³	Congeners<LoD assumed to be zero ng/m ³	Congeners<LoD assumed to be at LoD ng/m ³	Congeners<LoD assumed to be zero ng/m ³	Congeners<LoD assumed to be at LoD ng/m ³	
A1	0.0007	0.0007	0.0007	0.0007	0.000034	0.000034	0.0014	0.0014	4/2/21
A2	0.0054	0.0054	0.0054	0.0054	0.00003	0.00003	0.00104	0.00104	6/2/21

Note: 'LoD' means Limit of Detection.