

## Releases into the Air from the Primary &amp; Secondary Incinerators (Release Point references A1 &amp; A2)

Reporting of Periodic Emissions Monitoring Data for period from July - December 2023

		Primary Incinerator (Release Point reference A1)					Secondary Incinerator (Release Point reference A2)				
		Test Date	Test Method & sample time	Uncertainty (%)	Result <sup>[1]</sup>	ELV <sup>[2]</sup>	Test Date	Test Method & sample time	Uncertainty (%)	Result <sup>[1]</sup>	ELV <sup>[2]</sup>
HF <sup>[3]</sup> mg/m <sup>3</sup>		13/08/2023	BS ISO15713 12:39 – 14:39	10.0	0.1	2 mg/m <sup>3</sup>	12/08/2023	BS ISO15713 10:36 – 12:36	14.3	< 0.084	2 mg/m <sup>3</sup>
Cd + Tl <sup>[4]</sup> mg/m <sup>3</sup>		08/08/2023	BS EN 14385 12:26 – 14:26	17.2	0.00087	0.05 mg/m <sup>3</sup>	11/08/2023	BS EN 14385 09:01 – 11:01	18.0	0.001	0.05 mg/m <sup>3</sup>
Hg <sup>[5]</sup> mg/m <sup>3</sup>		08/08/2023	BS EN13211 14:51 – 16:51	21.4	0.0014	0.05 mg/m <sup>3</sup>	11/08/2023	BS EN13211 11:11 – 13:11	25.0	0.00048	0.05 mg/m <sup>3</sup>
Metals <sup>[6]</sup> mg/m <sup>3</sup>		08/08/2023	BS EN14385 12:26 – 14:26	20.5	0.044	0.5 mg/m <sup>3</sup>	11/08/2023	BS EN14385 09:01 – 11:01	21.8	0.22	0.5 mg/m <sup>3</sup>
PAHs <sup>[7]</sup> ug/m <sup>3</sup>		08/08/2023	BS ISO1133 17:10 – 19:10	21.3	< 2.4	-	11/08/2023	BS ISO1133 13:20 – 15:20	22.1	< 3.26	-
PCBs <sup>[8]</sup> ng/m <sup>3</sup>	Q3	09/08/2023	BS EN 1948 10:59 – 16:59	20.0	0.0025	-	10/08/2023	BS EN 1948 10:16 – 16:16	21.8	0.0022	-
	Q4	09/11/2023	BS EN 1948 10:33 – 16:33	21.7	0.00083	-		BS EN 1948	Secondary not operational during Q4 period		-
Dioxins <sup>[9]</sup> ng/m <sup>3</sup>	Q3	09/08/2023	BS EN 1948 10:59 – 16:59	21.6	0.0171	0.1 ng/m <sup>3</sup>	10/08/2023	BS EN 1948 10:16 – 16:16	21.7	0.023	0.1 ng/m <sup>3</sup>
	Q4	09/11/2023	BS EN 1948 10:33 – 16:33	20.7	0.014	0.1 ng/m <sup>3</sup>		BS EN 1948	Secondary not operational during Q4 period		0.1 ng/m <sup>3</sup>

[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.

Signed: 

Authorised to sign on behalf of SITA Waste (Isle of Man) Limited

Date of Issue: 14<sup>th</sup> November 2003

Form Reference Number: **S3/A/3**

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Releases into the Air from the Primary & Secondary Incinerators (Release Point references A1 & A2)

Reporting of Periodic Emissions Monitoring Data for period from July - December 2023 (continued)

Results of periodic emissions monitoring for dioxins and furans using different TEF-schemes									
Release Point	I-TEQ		WHO-TEQ <sub>human/mammals</sub>		WHO-TEQ <sub>fish</sub>		WHO-TEQ <sub>birds</sub>		Sample Date
	Congeners<LoD assumed to be zero ng/m <sup>3</sup>	Congeners<LoD assumed to be at LoD ng/m <sup>3</sup>	Congeners<LoD assumed to be zero ng/m <sup>3</sup>	Congeners<LoD assumed to be at LoD ng/m <sup>3</sup>	Congeners<LoD assumed to be zero ng/m <sup>3</sup>	Congeners<LoD assumed to be at LoD ng/m <sup>3</sup>	Congeners<LoD assumed to be zero ng/m <sup>3</sup>	Congeners<LoD assumed to be at LoD ng/m <sup>3</sup>	
A1	0.0171	0.0171	0.0176	0.0176	0.0196	0.0196	0.0270	0.0270	09/08/2023
A2	0.023	0.023	0.025	0.025	0.026	0.026	0.036	0.036	10/08/2023
A1	0.012	0.014	0.013	0.015	0.013	0.016	0.021	0.023	09/11/2023
A2	Secondary did not operate during this period.								

Results of periodic emissions monitoring for dioxin-like PCBs using different TEF-schemes									
Release Point	UK-COT		WHO-TEQ <sub>human/mammals</sub>		WHO-TEQ <sub>fish</sub>		WHO-TEQ <sub>birds</sub>		Sample Date
	Congeners<LoD assumed to be zero ng/m <sup>3</sup>	Congeners<LoD assumed to be at LoD ng/m <sup>3</sup>	Congeners<LoD assumed to be zero ng/m <sup>3</sup>	Congeners<LoD assumed to be at LoD ng/m <sup>3</sup>	Congeners<LoD assumed to be zero ng/m <sup>3</sup>	Congeners<LoD assumed to be at LoD ng/m <sup>3</sup>	Congeners<LoD assumed to be zero ng/m <sup>3</sup>	Congeners<LoD assumed to be at LoD ng/m <sup>3</sup>	
A1	0.0025	0.0025	0.0025	0.0025	0.00011	0.00011	0.0051	0.0051	09/08/2023
A2	0.0022	0.0022	0.0022	0.0022	0.00010	0.00010	0.0045	0.0045	10/08/2023
A1	0.00083	0.00083	0.00083	0.00083	0.000041	0.000041	0.0017	0.0017	09/11/2023
A2	Secondary did not operate during this period.								

Note: 'LoD' means Limit of Detection.

Signed:   
 Authorised to sign on behalf of SITA Waste (Isle of Man) Limited

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