

Permit Reference Number: EPR/MP3239FQ  
Operator: SITA UK  
Installation: Wrexham Clinical Waste Incinerator

Variation Reference Number: EPR/MP3239FQ V002  
Form Number: Agency Form / A1/ AP3538SM/ Form Dated 20 October 2011

# Reporting of Emissions to Air for the period from January 2013 to June 2013

Emission Point	Substance / Parameter	Emission Limit Value	Result	Test Method	Sample Date and Times	Accreditation/ Certification	Uncertainty
A1	Particulate Matter mg/m <sup>3</sup>	20 mg/m <sup>3</sup> periodic over minimum 1-hour period	3.3	BS EN 13284-1	11.48-12.50 07/05/13	UKAS & MCERTS	+/-21.3%
A1	Total Organic Carbon (TOC) mg/m <sup>3</sup>	20 mg/m <sup>3</sup> periodic over minimum 1-hour period	01.1	BS EN 12619	08.30-09.30 09/05/13	UKAS & MCERTS	+/-27.3%
A1	Oxides of Nitrogen (as NO2) mg/m <sup>3</sup>	400 mg/m <sup>3</sup> periodic over minimum 4-hour period	231	BS EN 14792	08.30-09.30 09/05/13	UKAS & MCERTS	+/-2.6%
A1	Carbon Monoxide mg/m <sup>3</sup>	100 mg/m <sup>3</sup> periodic over minimum 4-hour period	6.24	BS EN 15058	08.30-09.30 09/05/13	UKAS & MCERTS	+/-11.3%
A1	Sulphur Dioxide mg/m <sup>3</sup>	200 mg/m <sup>3</sup> periodic over minimum 4-hour period	0.10	BS EN 14791	08.30-09.30 08/05/13	UKAS & MCERTS	+/-57.9%
A1	Hydrogen chloride mg/m <sup>3</sup>	30 mg/m <sup>3</sup> periodic over minimum 1-hour period	2.7	BS EN 1911	14.34-15.34 08/05/13	UKAS & MCERTS	+/-14.7%
A1	Hydrogen fluoride mg/m <sup>3</sup>	2 mg/m <sup>3</sup> periodic over minimum 1-hour period	0.10	BS ISO 15713	14.34-15.34 08/05/13	UKAS & MCERTS	+/-12.5%
A1	Cadmium & thallium and their compounds (total) mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup> periodic over minimum 30 minute, maximum 8 hour period	<0.006	BS EN 14385	13.51-14.57 07/05/13	UKAS & MCERTS	+/-16.7%
A1	Mercury and its compounds mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup> periodic over minimum 30 minute, maximum 8 hour period	0.009	BS EN 13211	13.51-14.57 07/05/13	UKAS & MCERTS	+/-16.7%
A1	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total) mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup> periodic over minimum 30 minute, maximum 8 hour period	0.48	BS EN 14385	13.51-14.57 07/05/13	UKAS & MCERTS	+/-17.5%
A1	Dioxins / furans (I-TEQ) <sup>6</sup> ng/m <sup>3</sup>	0.1 ng/m <sup>3</sup> periodic over minimum 6 hours, maximum 8 hour period	0.098	BS EN 1948	07.56-14.00 08/05/13	UKAS & MCERTS	+/-20%
A1	Dioxin-like PCBs (WHO-TEQ Humans / Mammals) <sup>6</sup> ng/m <sup>3</sup>	No limit applies	0.0116	BS EN 1948	07.56-14.00 08/05/13	UKAS & MCERTS	+/-25% DATE

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Emission Point	Substance / Parameter	Emission Limit Value	Result <small>Note 1</small>	Test Method <small>Note 2</small>	Sample Date and Times <small>Note 3</small>	Accreditation / Certification <small>Note 4</small>	Uncertainty <small>Note 5</small>
A1	Dioxin-like PCBs (WHO-TEQ Fish) <sup>6</sup> ng/m <sup>3</sup>	No limit applies	0.0006	BS EN 1948	07.56 -14.00 08/05/13	UKAS & MCERTS	+/- 30%
A1	Dioxin-like PCBs (WHO-TEQ Birds) <sup>6</sup> ng/m <sup>3</sup>	No limit applies	0.0257	BS EN 1948	07.56 -14.00 08/05/13	UKAS & MCERTS	+/- 16.7%
A1	poly-cyclic aromatic hydrocarbons (PAHs) ug/m <sup>3</sup>	No limit applies	1.40	BS ISO 11338	07.56 -14.00 08/05/13	UKAS & MCERTS	+/- 20.5%
A1	Dioxins / furans (WHO-TEQ Humans / Mammals) <sup>6</sup> ng/m <sup>3</sup>	No limit applies	0.80	BS EN 1948	07.56 -14.00 08/05/13	UKAS & MCERTS	+/- 20%
A1	Dioxins / furans (WHO-TEQ Fish) <sup>6</sup> ng/m <sup>3</sup>	No limit applies	0.099	BS EN 1948	07.56 -14.00 08/05/13	UKAS & MCERTS	+/- 20%
A1	Dioxins / furans (WHO-TEQ Birds) <sup>6</sup> ng/m <sup>3</sup>	No limit applies	0.242	BS EN 1948	07.56 -14.00 08/05/13	UKAS & MCERTS	+/- 16%
A1	Anthracene ug/m <sup>3</sup>	No limit applies	<0.001	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Benzo(a)anthracene ug/m <sup>3</sup>	No limit applies	0.003	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Benzo(b)fluoranthene ug/m <sup>3</sup>	No limit applies	0.001	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Benzo(k)fluoranthene ug/m <sup>3</sup>	No limit applies	<0.001	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Benzo(b)fluoranthene ug/m <sup>3</sup>	No limit applies	<0.001	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Benzo(a)anthracene ug/m <sup>3</sup>	No limit applies	<0.001	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Benzo(c)phenanthrene ug/m <sup>3</sup>	No limit applies	0.007	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Benzo(g,h,i)perylene ug/m <sup>3</sup>	No limit applies	0.002	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Benzo(a)pyrene ug/m <sup>3</sup>	No limit applies	<0.001	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Cholanthrene ug/m <sup>3</sup>	No limit applies	<0.001	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Chrysene ug/m <sup>3</sup>	No limit applies	0.006	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Cyclopenta(c,d)pyrene ug/m <sup>3</sup>	No limit applies	0.002	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Dibenzo(a,h)anthracene ug/m <sup>3</sup>	No limit applies	<0.001	BS ISO 11338	07.56 -14.00 09/05/13	UKAS & MCERTS	+/- 30%

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A1	Dibenz[a,h]pyrene µg/m <sup>3</sup>	No limit applies	<0.001	BS ISO 11338	07.56 –14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Fluoranthene µg/m <sup>3</sup>	No limit applies	0.12	BS ISO 11338	07.56 –14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Indol[1,2,3-cd]pyrene µg/m <sup>3</sup>	No limit applies	0.002	BS ISO 11338	07.56 –14.00 09/05/13	UKAS & MCERTS	+/- 30%
A1	Naphthalene µg/m <sup>3</sup>	No limit applies	1.2	BS ISO 11338	07.56 –14.00 09/05/13	UKAS & MCERTS	+/- 30%

Note 1

Note 2

Note 3

Note 4

Note 5

Note 6

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.

Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

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.

The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

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

The result to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum

Signed .....

(Authorised to sign as representative of SITA UK)

Date .....

