

## Schedule 1 • Notification of abnormal emissions

### Part A

Permit Number		EPR/WP3836ZF	
Name of Operator		Tradebe Healthcare National Ltd	
Location of Installation		Wrexham Clinical Waste Incinerator, Marlborough Road, Wrexham Industrial Estate, Wrexham LL13 9RJ	
Location of the emission		A1	
Time and date of the emission		8/4/15 & 9/4/15, times as below (Report Received 14 May 2015)	
Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place
Mercury	Air	0.28 mg/m <sup>3</sup>	15:55 - 16:25, 16:27 - 16:57 8/4/15
Particulate Matter	Air	24.1 mg/m <sup>3</sup>	16:00 - 16:30, 16:31 - 17:01 9/4/15
Dioxin I-TEQ	Air	0.615 ng/m <sup>3</sup>	09:40 - 12:40, 12:43 - 15:42 8/4/15
Measures taken, or Intended to be taken, to stop the emission		<p>Improvements have been made to the carbon abatement system used to abate mercury and dioxins and a sample taken 28/4/15 for mercury was 0.02mg/m<sup>3</sup>.</p> <p>Investigation into the condition of the filter bags is being carried out with regard to particulate matter.</p>	

### Part B

Any more accurate information on the matters for notification under Part A.	<p>The analysis of the mercury indicated 9.63% of the mercury concentration being in the gaseous state and therefore there is no indication that the cause is to do with any significant issue with the filter bag house.</p> <p>The particulate matter sample was 24.1, or 21.8 mg/m<sup>3</sup> when considering measurement uncertainty. Both are below the 30mg/m<sup>3</sup> ½ hr average limit</p> <p>The mean and maximum ½ hour average for particulate matter recorded by the CEMS on the day of the test 9/4/15 were 5 and 14 mg/m<sup>3</sup>. The maximum was elevated compared to typical concentrations but well below the 30mg/m<sup>3</sup> Emission Limit Value. The mean and maximum ½ hour average for particulate matter recorded by the CEMS on the day after the test 10/4/15 were 7 and 28mg/m<sup>3</sup> respectively before tailing off after a few days to typical levels. This suggests there was possibly a process disruption causing increased particulate matter but the system returned to typical conditions although no specific issue has been determined. This coincided with the sample being taken and the elevated particulate readings on the CEMS.</p> <p>There have been no reports of any conditions on the plant that could have resulted in increased particulate matter.</p>
Measures taken, or intended to be taken, to prevent a recurrence of the incident	<p>Please reference Part B for the mercury sample taken 13/3/15. The actions listed have resulted in subsequent mercury test being in consent.</p> <p>With the plant shut down a test was carried out on the filter bag house 16/5/15 by introducing detectable colour dust and no failure of any part of the filter bag system was found. A filter bag was exchanged and has been sent away for analysis to help determine any issues with the filter bags. The analysis has not been received yet.</p>

	As dioxins are abated by carbon, the improvements made to the carbon system that resulted in the mercury test sampled 28/4/15 being in consent at 0.02mg/m <sup>3</sup> indicate that dioxin concentrations should also be adequately abated and future dioxin samples be in consent.
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission	Retests for dioxin and particulate matter are being arranged
The dates of any unauthorised emissions from the Installation in the preceding 24 months.	<div>2/4/15</div> <div>13/3/15</div> <div>8/3/15</div> <div>12/11/14</div> <div>23/8/14</div> <div>30/6/14</div> <div>10/4/14</div> <div>10/11/14</div> <div>1/5/13</div> <div>24/12/13</div> <div>14/11/13</div>

Name*	Toby Hudson
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Signature	T Hudson
Date	Resubmitted 15/1/16

• authorised to sign on behalf of Tradebe Healthcare National Limited