

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit) NOTE 1	Monitoring standard or method
A1 as shown on site plan attached	Bacillus spores	Hydroclave: abatement plant outlet	1000 cfu per cubic metre Note 2	To be agreed with the Environment Agency in compliance with EPR 5.07
B1 as shown on site plan attached	-	Boiler Plant exhaust: Thermal input: 2.8 MW	-	-

Note 1: These units relate to the overall monitoring period so the cfu benchmark applies to each individual sample of air to be taken, with a calculation made to report the results per cubic metre. These are based on a seeding dose of 1×10^6 spores per gram of waste load, and would need to be adjusted if the seed dose were higher or lower.

Note 2: These benchmarks are indicative only, and will be reviewed periodically.

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on site plan in schedule 7 emission to Thames Water sewer under consent TWWL0001	-	Condensate from treatment chamber	-	-	-	-

Table S3.3 Ambient air monitoring requirements

Location or description of point of measurement	Parameter	Limit NOTE 2	Unit	Monitoring frequency	Monitoring standard or method
Air: sample points <10 m from the treatment plant	Bacillus spores	1000	Per m ³ NOTE 1	Annually	To be agreed with the Environment Agency in compliance with EPR 5.07
Air: sample points >10 m from the treatment plant		300			
Surface: sample points <10 m from the treatment plant		20000	Per m ² per hour		
Surface: sample points >10 m from the treatment plant		5000			

Note 1

These Units relate to the overall monitoring period so the cfu benchmark applies to:

- each individual sample of air taken, with a calculation made to report the result per cubic metre.
- for each individual settle plate (this is not an average) a calculation made to adjust for surface area of a settle plate and exposure time (for example if settle plates are deployed for only 15 minutes of every hour then the result must be multiplied by 4).
- These are based on a seeding dose of 1x10⁶ spores per gram of waste load, and would need to be adjusted accordingly if the seed dose were higher or lower.

Note 2: These benchmarks are indicative only, and will be reviewed periodically.

Table S3.4 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Efficacy monitoring	Spore testing to demonstrate whether STAATT Level III Criteria for microbial inactivation has been achieved	Monthly	In accordance with 'How to comply with your environmental permit – additional guidance for Clinical waste (EPR5.07)'	Per Hydroclave unit