

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Albus Environmental Limited
Albus Environmental Limited
212 Kingsnorth Industrial Estate
Hoo
Rochester
Kent
ME3 9NZ

Variation application number

EPR/JB3604FF/V002

Permit number

EPR/JB3604FF

Albus Environmental Limited

Permit number EPR/JB3604FF

Introductory note

This introductory note does not form a part of the permit

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

This permit variation has also been issued to implement guidance "Healthcare waste: appropriate measures for permitted facilities" and to make changes proposed by the operator.

Changes introduced by this variation notice/statutory review

In 2020, Albus Environmental were permitted for a waste operation permit for the storage and treatment of non-hazardous waste. This variation:

- adds a treatment process – the sterilization of hazardous healthcare wastes by steam auger;
- removes non-healthcare wastes from the waste types and adds infectious wastes for storage and treatment;
- extends the permit boundary.

The addition of the hazardous waste treatment above 10 tonnes a day means that the site is now an installation in accordance with Industrial Emissions Directive (IED). The IED came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

On 13 July 2020, Healthcare waste: appropriate measures for permitted facilities guidance was published on gov.uk. The guidance explains the standards that are relevant to regulated facilities with an environmental permit to treat or transfer healthcare waste, providing indicative BAT for those sites.

This variation has also been issued to update some of the conditions following a statutory review of the permits in the healthcare waste treatment and transfer sector. The opportunity has also been taken to consolidate the original permit.

Brief description of the process

The regulated facility comprises:

- pre-shredding and steam disinfection of infectious waste, compaction and storage of treatment residues;
- repackaging of hazardous waste;
- steam generation and container washing;
- shredding, compaction and storage of non-hazardous waste;
- temporary storage of hazardous and non-hazardous waste;
- repackaging of non-hazardous waste.

The steam disinfection plant consists of a pre-shredder, a steam auger, compaction and storage of treated floc, and pollution abatement equipment. Waste is shredded under negative pressure before transfer to the

treatment chamber where a combination of heat, moisture and residence time is sufficient to disinfect the waste to produce a waste floc. Steam is supplied to the steam auger from the gas oil-fired steam raising plant.

The pre-shredder is served by a high efficiency particulate air (HEPA) filter and carbon filter. Steam released by the auger is condensed in a condenser and any remaining gases are passed through a carbon filter. These are designed to remove any infectious bio-aerosols, excess moisture and any residual organic compounds and odours from the off-gases before their release to atmosphere. The offensive waste shredder is extracted to a biofilter to remove odours.

Water removed from the condenser is discharged via interceptor to sealed drainage and tankered off site. The external yard drains to a sump from where it is periodically pumped to sewer.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Transfer and variation determined EPR/JB3604FF (new permit issued)	16/11/2020	Transfer of biological treatment activity complete. New permit issued in modern condition format.
Application (variation and consolidation) EPR/JB3604FF/V002	Duly made 05/03/2021	The variation is for the addition of a steam sterilization auger to treat healthcare wastes. It also amends waste types and extends the permit boundary.
Response to schedule 5 notice dated 08/06/2021	17/06/2021 & 01/07/2021	Information regarding carbon biofilter.
Response to request for information by email dated 07/07/2021	08/07/2021	Revised Odour Management Plan and Pest Management Plan.
Response to request for information by email dated 07/07/2021	08/07/2021	Revised Environment Management Plan (EMS).
Response to schedule 5 notice dated 30/07/2021	23/08/2021 & 07/09/2021	Documents providing information relating to the healthcare review, Site Condition Report and Environmental Risk assessment.
Response to schedule 5 notice dated 30/07/2021	28/09/2021	Clarifications to previous schedule 5 response information.
Response to request for information by email date 14/10/2021 & 18/10/2021	18/10/2021	Clarification of maximum storage capacity for hazardous and non-hazardous waste.
Response to request for information by email date 18/10/2021	19/10/2021	Clarification of maximum storage capacity for non-hazardous waste.
Variation and Environment Agency Waste Treatment Sector Review determined EPR/JB3604FF/V002 (PAS Billing Ref: MP3802MB EAWML Billing Ref. EAWML 407177).	15/12/2021	Varied and consolidated permit issued including the implementation of guidance "Healthcare waste: appropriate measures for permitted facilities".

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/JB3604FF

Issued to

Albus Environmental Limited (“the operator”)

whose registered office is

Oakwood Yard Unit 2

Watling Street

Bean

Dartford

DA2 8AH

company registration number **08070020**

to operate a regulated facility at

Albus Environmental Limited

212 Kingsnorth Industrial Estate

Hoo

Rochester

Kent

ME3 9NZ

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Helen Marston	15/12/2021

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/JB3604FF

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/JB3604FF/V002 authorising,

Albus Environmental Limited (“the operator”),

whose registered office is

Oakwood Yard Unit 2

Watling Street

Bean

Dartford

DA2 8AH

company registration number **08070020**

to operate an installation and waste operations at

Albus Environmental Limited

212 Kingsnorth Industrial Estate

Hoo

Rochester

Kent

ME3 9NZ

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Helen Marston	15/12/2021

Authorised on behalf of the Environment Agency

Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR5) the operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR5) the operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR5) waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.1, S2.2 and S2.3.
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.7 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2;
 - (b) fugitive microbial emissions specified in table S3.3;
 - (c) process monitoring specified in table S3.4.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.7 Fire prevention

- 3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.
- 3.7.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;

- (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR5) a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	<p>Section 5.3 Part A(1)(a)(ii)</p> <p>Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.</p>	<p>Treatment of infectious waste by continuous thermal treatment in a steam auger (including pre-shredding of waste and post-treatment compaction of treated floc).</p> <p>R3 Recycling / reclamation of organic substances which are not used as solvents.</p> <p>D9 Physico-chemical treatment.</p>	<p>From treatment of waste to storage of treated floc.</p> <p>No more than 22 tonnes per day of hazardous waste shall be treated in aggregate.</p> <p>The steam auger shall be operated in accordance with Note 1.</p> <p>All treatment shall take place within a building on an impermeable surface with sealed drainage.</p> <p>Treated floc shall be stored within fully enclosed, waterproof and leak-proof containers for no longer than 14 days if stored in a building or for no longer than 7 days located on impermeable surfacing in a dedicated area of the external yard prior to transfer off-site.</p> <p>No more than 56 tonnes of treated floc shall be stored on site at any one time.</p> <p>No waste types shall be submitted to this activity other than those infectious wastes specified in Schedule 2, Table S2.1.</p>
AR2	<p>Section 5.3 Part A(1)(a)(iv)</p> <p>Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving repackaging.</p>	<p>Repackaging of hazardous waste.</p> <p>R12 Exchange of waste for submission to any of the operations numbered R1 to R11.</p> <p>D14 Repackaging prior to submission to any of the operations numbered D1 to D13.</p>	<p>Repackaging is limited to:</p> <ul style="list-style-type: none"> • taking a waste package (for example a bag, drum or box) out of one cart or bulk container (for example a skip) and placing it into another cart or bulk container (for example, a skip) • taking a waste package from a cart or bulk container (for example, skip) and placing it onto a pallet or vehicle • taking a waste package from a pallet and placing it into a cart or bulk container (for example, skip) <p>Waste shall not be transferred, removed or separated from its primary packaging (for example bags, bins, boxes and blister packs).</p> <p>Repackaging of waste shall not change either the maximum storage times for waste on site or the amount that can be stored.</p> <p>No waste types shall be submitted to this activity other than those hazardous wastes specified in Schedule 2, Table S2.2.</p>

Table S1.1 activities			
<p>Note 1 - The steam auger shall only be operated:</p> <p>(i) at the treatment settings (e.g. time, temperature, pressure) the plant is currently validated for</p> <p>(ii) for a total load weight of waste no greater than that proven during validation</p> <p>(iii) for waste types and where relevant quantities of each type proven during validations</p>			
Directly Associated Activity			
AR3	Steam supply	Gas oil-fired steam-raising boiler – net thermal input approximately 0.6 MWth	Includes receipt of fuel and its storage. No fuel shall be used other than Gas Oil BS2869 Class A2 or other equivalent fuel agreed in writing by the Environment Agency.
AR4	Cleaning and disinfection of containers and carts.	Automated and contained bin wash system that washes and disinfects waste bins and carts.	Handling, cleaning and storage of containers and carts prior to dispatch. Washing and disinfection of mobile containers shall only take place in designated areas with an impermeable surface and a sealed drainage system.
AR5	Raw material handling and storage.	Raw material handling and storage.	From receipt and storage to point of use.
Waste Operations			
Activity reference	Description of activities for waste operations	Limits of activities	
AR6	<p>Repackaging of non-hazardous waste.</p> <p>R12 Exchange of waste for submission to any of the operations numbered R1 to R11.</p> <p>D14 Repackaging prior to submission to any of the operations numbered D1 to D13.</p>	<p>Repackaging is limited to:</p> <ul style="list-style-type: none"> taking a waste package (for example a bag, drum or box) out of one cart or bulk container (for example a skip) and placing it into another cart or bulk container (for example, a skip) taking a waste package from a cart or bulk container (for example, skip) and placing it onto a pallet or vehicle taking a waste package from a pallet and placing it into a cart or bulk container (for example, skip) <p>Waste shall not be transferred, removed or separated from its primary packaging (for example bags, bins, boxes and blister packs).</p> <p>Washing and disinfection of reusable sharps bins and repackaging of wastes shall take place within a building on an impermeable surface with sealed drainage.</p> <p>Repackaging shall take place on an impermeable surface with sealed drainage.</p> <p>Repackaging of waste shall not change either the maximum storage times for waste on site or the amount that can be stored.</p> <p>Washing and disinfection of mobile containers shall only take place in designated areas with an impermeable surface and a sealed drainage system.</p> <p>No waste types shall be submitted to this activity other than those non-hazardous wastes specified in Schedule 2, Table S2.2.</p>	

Waste Operations		
Activity reference	Description of activities for waste operations	Limits of activities
AR7	<p>Storage of hazardous and non-hazardous waste.</p> <p>R13 Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>D15 Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced).</p>	<p>From receipt and storage of hazardous and non-hazardous waste on site to its treatment or repackaging on site; or its transfer off-site.</p> <p>The amount of hazardous waste stored on site at any one time shall not exceed 50 tonnes.</p> <p>The total amount of waste stored on site within a building at any one time, including both hazardous and non-hazardous waste, shall not exceed 50 tonnes.</p> <p>Waste shall be stored on impermeable surfacing with sealed drainage.</p> <p>Waste shall not be stored in vehicles or vehicle trailers, unless they are being received for immediate offloading or prepared for imminent transfer (that is, they will be removed from site within 24 hours, or 72 hours if over a weekend).</p> <p>Pharmaceutical, chemical, anatomical and palletised waste shall be stored securely within designated areas of the building.</p> <p>Infectious clinical waste and non-infectious offensive waste shall be stored for no longer than 7 days if outside, or for no longer than 14 days if stored in a building.</p> <p>Refrigerated anatomical waste shall be stored for no longer than 14 days.</p> <p>Unrefrigerated anatomical waste shall be stored for no longer than 24 hours, or up to 72 hours if over a weekend.</p> <p>Odorous or biodegradable wastes must be stored securely for no longer than 7 days.</p> <p>The following waste types shall be stored on site for no longer than 6 months:</p> <ul style="list-style-type: none"> • non-infectious medicines (including cytotoxic and cytostatic medicines) • dental amalgam • other chemicals or other wastes. <p>Notwithstanding the limits given above where a shorter storage time period is given in an agreed management plan then that time period shall take precedence.</p> <p>No waste types shall be submitted to this activity other than those non-hazardous/hazardous wastes specified in Schedule 2, Table S2.2.</p>
AR8	<p>Treatment by shredding of non-hazardous waste.</p> <p>R3 Recycling/reclamation of organic substances which are not used as solvents.</p> <p>D9 Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12.</p>	<p>From treatment of waste to storage of shredded waste.</p> <p>No more than 50 tonnes per day of non-hazardous waste shall be treated by shredding and compaction.</p> <p>No more than 50 tonnes per day of non-hazardous waste shall be treated for disposal in aggregate.</p> <p>All shredding shall take place within a building on an impermeable surface with sealed drainage.</p> <p>No more than 28 tonnes of shredded offensive waste shall be stored on site at any one time.</p> <p>Shredded and compacted waste shall be stored within fully enclosed, waterproof and leak-proof containers.</p> <p>The shredding of waste shall not change either the maximum storage times for waste on site or the amount that can be stored.</p>

Waste Operations		
Activity reference	Description of activities for waste operations	Limits of activities
		<p>Washing and disinfection of mobile containers shall only take place in designated areas with an impermeable surface and a sealed drainage system.</p> <p>No waste types shall be submitted to this activity other than those non-hazardous wastes specified in Schedule 2, Table S2.3.</p>

Table S1.2 Operating techniques		
Description	Parts	Date Received
Healthcare waste: appropriate measures for permitted facilities Version published 13 July 2020	All parts of the appropriate measures guidance shall apply.	N/A
Pest Management Plan	Approved Pest Management Plan reference PMP dated 08/07/2021, version 3.	08/07/2021

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1 Updated emissions inventory and H1 (air and water)	<p>The operator shall submit a written report to the Environment Agency for approval that proposes a monitoring programme to characterise and assess the facility's point source emissions to air and water (including sewer) in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020. The report shall detail the parameters and substances that will be tested for, the monitoring methods and equipment that will be used, and a timetable for undertaking the monitoring. The monitoring programme shall be carried out as approved by the Environment Agency.</p> <p>A written report shall submitted to the Environment Agency for approval detailing the results and conclusions of the emissions monitoring and assessment undertaken, including a completed H1 Environmental Risk Assessment and proposals for any ongoing monitoring or further assessment.</p>	<p>Submission of written report proposing monitoring programme: 15/02/2022</p> <p>Submission of subsequent written report detailing monitoring and assessment results: 15/06/2022</p>
IC2 Odour management plan	<p>The operator shall submit an odour management plan to the Environment Agency for written agreement. The plan shall take into account the appropriate measures for odour control specified in our guidance Healthcare waste: appropriate measures for permitted facilities and H4 - Odour Management.</p> <p>Once the odour management plan has been agreed with the Environment Agency, the installation must be operated in accordance with this management plan.</p>	15/03/2022

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC3 Steam vent assessment	The operator shall submit a written report to the Environment Agency for approval that reviews the performance of the steam vent abatement system for the steam auger for removing bioaerosols at point source emission to air AR3. The review shall include the potential for emissions during abnormal plant operation/failure of disinfection process. The assessment should determine whether additional abatement for bioaerosols is required and provide timescales for installation if necessary.	Submission of report 15/06/2022
IC4 Waste water management plan	The operator shall submit a waste water management plan to the Environment Agency for written agreement. The plan should include a site drainage diagram, a copy of any written agreement/consent to discharge site surface water to private sewer and written procedures for disposing of any other waste water from site.	15/03/2022

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO1	Operation of steam auger and associated activities	<p>The operator shall submit a written validation report to the Environment Agency for approval, that demonstrates and confirms:</p> <ul style="list-style-type: none"> I. the treatment efficacy of the permitted treatment plant, in accordance with the Waste treatment appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020; II. the proposals for routine monitoring of treatment efficacy comply with the Waste treatment appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020; III. the installation's emissions, in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020; and IV. the proposals for routine monitoring of emissions comply with the Emissions monitoring an limits appropriate measures of technical guidance Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020. <p>The treatment efficacy tests must take into account the range of waste types that the plant is permitted to treat.</p> <p>The operation shall not be made operational until the Environment Agency has given prior written approval under this condition.</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for thermal treatment of hazardous waste (AR1)	
Maximum quantity	The maximum annual throughput for the treatment activity is 22,995 tonnes.
Waste code	Description
18	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 03*	infectious waste, not contaminated with chemicals or medicines (Note 1)
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 02*	infectious waste, not contaminated with chemicals or medicines (Note 1)
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 99	infectious waste, not contaminated with chemicals or medicines – municipal, separately collected fractions, not from healthcare or research-related sources (Note 1)
<p>Note 1: Excluding: sharps; anatomical waste; waste known or likely to contain ACDP Hazard Group 4 biological agents; any waste from a containment level 3 laboratory; all microbiological cultures from any source; and any potentially infected waste from pathology departments and other clinical or research laboratories.</p>	

Table S2.2 Permitted waste types and quantities for repackaging (AR2 and AR6) and storage (AR7)	
Maximum quantity	The total quantity of wastes accepted at the site shall not exceed 31,000 tonnes per year.
Waste code	Description
09	Wastes from the photographic industry
09 01	wastes from the photographic industry
09 01 01*	water-based developer and activator solutions
09 01 02*	water-based offset plate developer solutions
09 01 03*	solvent based developer solutions
09 01 04*	fixer solutions
09 01 05*	bleach and bleach fixer solutions
18	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 01	non-infectious sharps, not contaminated with chemicals or medicines
18 01 01 and 18 01 09	non-infectious sharps from vaccines delivered in mass vaccination centres, in the community and in care homes
18 01 02	non-infectious anatomical waste, not chemically preserved

Table S2.2 Permitted waste types and quantities for repackaging (AR2 and AR6) and storage (AR7)	
Maximum quantity	The total quantity of wastes accepted at the site shall not exceed 31,000 tonnes per year.
Waste code	Description
18 01 02 and 18 01 06*	non-infectious anatomical waste, chemically preserved, hazardous chemicals
18 01 02 and 18 01 07	non-infectious anatomical waste, chemically preserved, non-hazardous chemicals
18 01 03*	infectious waste, not contaminated with chemicals or medicines (may contain sharps) infectious anatomical waste, not chemically preserved infectious gypsum wastes (for example, plaster casts and moulds)
18 01 03* and 18 01 06* or 18 01 07	infectious waste, contaminated with chemicals infectious anatomical waste, chemically preserved
18 01 03* and 18 01 08* or 20 01 31*	infectious waste, contaminated with cytotoxic and cytostatic medicines – (may contain sharps)
18 01 03* and 18 01 09	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) – (may contain sharps) sharps from vaccinations delivered in hospitals or GP surgeries
18 01 04	non-infectious offensive waste – human healthcare non-infectious gypsum wastes (for example, plaster casts and moulds)
18 01 06*	chemicals consisting of or containing hazardous substances
18 01 07	chemicals other than those mentioned in 18 01 06
18 01 08*	cytotoxic and cytostatic medicines
18 01 09	other waste medicines, excluding cytotoxic and cytostatic medicines – human healthcare
18 01 10*	amalgam waste from dental care
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 01	non-infectious sharps, not contaminated with chemicals or medicines
18 02 02*	infectious waste, not contaminated with chemicals or medicines (may contain sharps) infectious anatomical waste, not chemically preserved infectious gypsum wastes (for example, plaster casts and moulds)
18 02 02* and 18 02 05* or 18 02 06	infectious waste, contaminated with chemicals infectious anatomical waste, chemically preserved
18 02 02* and 18 02 07* or 20 01 31*	infectious waste, contaminated with cytotoxic and cytostatic medicines (may contain sharps)
18 02 02* and 18 02 08	infectious waste, medicinally contaminated (not cytotoxic or cytostatic) (may contain sharps)
18 02 03	non-infectious anatomical waste, not chemically preserved non-infectious offensive waste non-infectious gypsum wastes (for example, plaster casts and moulds)
18 02 03 and 18 02 05*	non-infectious anatomical waste, chemically preserved, hazardous chemicals

Table S2.2 Permitted waste types and quantities for repackaging (AR2 and AR6) and storage (AR7)	
Maximum quantity	The total quantity of wastes accepted at the site shall not exceed 31,000 tonnes per year.
Waste code	Description
18 02 03 and 18 02 06	non-infectious anatomical waste, chemically preserved, non-hazardous chemicals
18 02 05*	chemicals consisting of or containing dangerous substances
18 02 06	chemicals other than those mentioned in 18 02 05
18 02 07*	cytotoxic and cytostatic medicines
18 02 08	other waste medicines, excluding cytotoxic and cytostatic
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 31*	cytotoxic and cytostatic medicines – municipal, separately collected fractions not from healthcare or research-related sources
20 01 32	other waste medicines, excluding cytotoxic and cytostatic medicines – municipal, separately collected fractions not from healthcare or research-related sources
20 01 99	non-infectious offensive waste – municipal, separately collected fractions not from healthcare or research-related sources non-infectious sharps, not contaminated with chemicals or medicines – not from healthcare or research-related sources infectious waste, not contaminated with chemicals or medicines – municipal, separately collected fractions, not from healthcare or research-related sources (may contain sharps)

Table S2.3 Permitted waste types and quantities for shredding (AR8)	
Maximum quantity	Treatment of non-hazardous waste by shredding shall not exceed 19,000 tonnes per year.
Waste code	Description
18	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 04	non-infectious offensive waste – human healthcare
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03	non-infectious offensive waste
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 99	non-infectious offensive waste – municipal, separately collected fractions not from healthcare or research-related sources

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A1 - Emissions point A1 on site plan in schedule 7	Boiler Flue stack	No parameters set	No limit set	-	-	-
A2 – Emission point A2 on site plan in Schedule 7	Emission from the abatement plant serving the shredder via HEPA filter and carbon filter	Bacillus spores	1000 cfu per cubic metre (Note 1)	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020
		Total volatile organic compounds (TVOC)	30 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 12619
		Particulate matter	5 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 13284-1
A3 – Emission point A3 on site plan in Schedule 7	Point source emission from the steam auger steam vent via condenser and carbon filter	Bacillus spores	1000 cfu per cubic metre (Note 1)	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020	Annually	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020
		Total volatile organic compounds (TVOC)	30 mg per cubic metre (Note 2)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 3)	BS EN 12619

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A4 – Emission point A4 on site plan in Schedule 7	Point source emission from offensive waste shredder abatement system via biofilter	No parameters set	No limit set	-	-	-

Note 1: These units relate to the overall monitoring period so the colony-forming units (cfu) benchmark applies to each individual sample of air or water to be taken, with a calculation made to report the results per cubic metre or litre. 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. The units of the limit (per cubic metre) relate to the overall monitoring period so the limit applies to each individual sample of air, with a calculation made to report the result per cubic metre.

Note 2: This limit, or an alternative limit agreed in writing with Environment Agency following completion of IC1, is applicable from 1 September 2022.

Note 3: An alternative monitoring frequency may be agreed in writing with Environment Agency following completion of IC1.

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	Source	Parameter	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
Manhole (numbered 1 on site plan in Schedule 7) - access to underground storage tank. Off-site transfer of effluent	Site effluent (condensate from treatment chamber and bin wash) (Note 2)	Bacillus Spores (spiked organisms)	300 cfu per litre (Note 1)	-	Annually	In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020
Manholes (numbered 3 and 4 on site plan in Schedule 7) – access to underground storage tank. Emission to private sewer to treatment works for the industrial estate.	Site drainage from external yard	-	-	-	-	-

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

Note 1: These units relate to the overall monitoring period so the colony-forming units (cfu) benchmark applies to each individual sample of air or water to be taken, with a calculation made to report the results per cubic metre or litre. 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. These units relate to the overall monitoring period so the cfu limit applies to each individual sample of water taken, with a calculation made to report the result per litre.

Note 2: Condensate from the treatment process shall be sampled before mixing with other effluent for transfer off-site. Sample point to be agreed in writing by the Environment Agency.

Table S3.3 Fugitive microbial emissions monitoring (spiked organisms)

Emission point ref. & location	Parameter	Limit (incl. unit)	Monitoring frequency	Monitoring standard or method
Air – sample points <10 m from the treatment plant	Bacillus Spores	1,000 cfu per cubic metre (Note 1)	Annually	Note 2
Air – sample points >10 m from the treatment plant	Bacillus Spores	300 cfu per cubic metre (Note 1)	Annually	Note 2
Surface – sample point <10 m from the treatment plant	Bacillus Spores	20,000 cfu per square metre per hour (Note 1)	Annually	Note 2
Surface – sample point >10 m from the treatment plant	Bacillus Spores	5,000 cfu per square metre per hour (Note 1)	Annually	Note 2

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 settling plate (this is not an average) - a calculation made to adjust for surface area of settle plate and exposure time (for example if settle plates are deployed for only fifteen minutes of every hour then the result must be multiplied by four).

The limit is based on a seeding dose of 1×10^6 spores per gram of waste load. You should adjust it accordingly if you use a higher or lower seeding dose.

The units relate to the overall monitoring period so the cfu limit applies to each individual:

- sample of air – a calculation is made to report the result per cubic metre.
- settle plate (this is not an average) a calculation is made to adjust for surface area of a settle plate and exposure time (for example, if you use settle plates for only 15 minutes of every hour then you must multiply the result by 4).

Note 2: In accordance with Emissions monitoring and limits appropriate measures of Healthcare waste: appropriate measures for permitted facilities, dated 13 July 2020.

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
Steam treatment of infectious waste in steam auger	Routine efficacy monitoring	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.	-
	Repeated plant validation	Plant commissioning validation must be repeated in accordance with Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020: <ul style="list-style-type: none"> • periodically, at intervals of 4 years or less during the operational life of the plant and if: <ul style="list-style-type: none"> • any process parameters or conditions change from those assessed and approved during plant commissioning or plant validation • any changes are made to plant design or engineering • changes to the waste types accepted for treatment mean that the challenge load considered during plant commissioning or plant validation is no longer the worst case scenario • the plant fails routine treatment efficacy monitoring 	In accordance with requirements set out in Healthcare waste: appropriate measures for permitted facilities dated 13 July 2020.	Results of repeated plant validation shall be submitted to the Environment Agency for approval.
Biofilter as identified on site plan	Surface conditions (signs of vegetation and channelling or bypass)	Daily	Visual assessment	Biofilter shall be monitored as per design specifications to ensure that optimal operational parameters are met as agreed in the Odour Management Plan approved under IC2. Equipment shall be calibrated on a 4 monthly basis or as agreed in writing by the Environment Agency.
	Inlet and outlet temperature	Continuous	Temperature probe	
	Moisture	Daily	Grab test as a minimum or drying oven (Note 1)	
	Thatching/ Compaction	Weekly	Back pressure	
	pH (biofilter, drainage effluent)	Weekly	pH meter/litmus paper	

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
				Records will be made available on request. Emission assessment may be more frequent to ensure optimum emission abatement. (Note 1)
<p>Note 1: The frequency of odour abatement efficiency testing as agreed with the Environment Agency in writing. If there are significant substantiated odour complaints the operator may be required to investigate the cause of these and the frequency of monitoring may be increased.</p>				

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	First period begins
Emissions to air Parameters as required by condition 3.5.1.	A1, A2, A3, A4	Every 6 months or as agreed in accordance with IC1	1 January
Emissions for offsite tankering Parameters as required by condition 3.5.1	S1	Annually	1 January
Fugitive microbial emissions Parameters as required by condition 3.5.1	Air and surface monitoring points as detailed in table S3.2	Annually	1 January
Routine efficacy monitoring Parameters as required by condition 3.5.1	Steam treatment of waste in steam auger	Weekly for the first six months, then monthly	1 January
Repeated plant validation Parameters as required by condition 3.5.1	Steam treatment of waste in steam auger	Every 4 years or less, as required by table 3.5	1 January
Biofilter efficacy monitoring data. Parameters as required by condition 3.5.1	Biofilter operation	Annually	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Hazardous waste thermally treated	tonnes
Treated floc produced	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	cubic metres
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Emissions to air	Emissions to Air Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Fugitive microbial emissions	Fugitive Microbial Emissions Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	17/06/2021
Emissions for offsite tankering	Emissions for offsite tankering Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Water usage	Water Usage Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Energy usage	Energy Usage Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Other performance indicators	Other Performance Parameters Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Routine efficacy monitoring	Monitoring report submitted in writing to the Environment Agency	-
Repeated plant validation	Validation report submitted in writing to the Environment Agency	-
Biofilter monitoring	Format to be agreed in writing by the Environment Agency	-

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“building” is a covered structure enclosed on all vertical sides that provides sheltered cover and contains emissions of, for example, noise, particulate matter, odour and litter.

“clinical” waste means waste from a healthcare activity (including veterinary healthcare) that:

- a) contains viable micro-organisms or their toxins which are known or reliably believed to cause disease in humans or other living organisms
- b) contains or is contaminated with a medicine that contains a biologically active pharmaceutical agent
- c) is a sharp, or a body fluid or other biological material (including human and animal tissue) containing or contaminated with a hazardous substance

and waste of a similar nature from a non-healthcare activity.

“container” is a receptacle for waste for example bags, bins, boxes, drums, IBCs and blister packs. Wastes may be packaged in more than one receptacle for example a bag in a box.

“cytotoxic and cytostatic medicines” are medicinal products that possess one or more of the hazardous properties acutely toxic, carcinogenic, mutagenic or toxic for reproduction.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in these standard rules or from other localised or diffuse sources, which are not controlled by an emission or background concentration limits.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“fugitive emission” means an emission to air, water or land from the activities which is not controlled by an emission limit.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

“healthcare waste” means waste produced during human or animal healthcare, or related research activities. It covers both clinical and offensive waste. Wastes produced by healthcare in the community, and similar types of waste produced by non-healthcare activities are included, for example:

- cosmetic body piercing and body art
- non-medicinal procedures in the hair and beauty sector
- substance abuse
- crime scene clean-up.

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“Industrial Emissions Directive” means Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“medicines” are “medicinal products” as defined in Regulation 130 of Part VIII of the Medicines Act 1968. Waste medicines (or pharmaceutical waste) include:

- expired, unused, spilt and contaminated medical products that are no longer required and need to be disposed of appropriately;
- discarded items contaminated with medicines such as bottles or boxes with residues, gloves, masks, connecting tubing, syringe bodies and drug vials.

“mixing of hazardous waste” means mixing hazardous waste as defined by Regulation 18 of the Hazardous Waste (England and Wales) Regulations 2005.

“offensive waste” is waste that:

- is not clinical waste
- contains body fluids, secretions or excretions
- falls within waste codes 18 01 04, 18 02 03 or 20 01 99.

“pests” means birds, vermin and insects.

“pollution” includes pollution of the environment, harm to human health and serious detriment to the amenities of the locality, resulting from the permitted activities.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

“repackaging” is:

- taking a waste package for example a bag, drum or box out of one cart or bulk container for example, skip and placing it into another cart or bulk container for example, skip
- taking a waste package from a cart or bulk container for example, skip and placing it onto a pallet or vehicle
- taking a waste package from a pallet and placing it into a cart or bulk container for example, skip
- transferring, removing or separating waste from its primary packaging into another container.

“sealed container” for the purposes of this permit, means a container which is fully enclosed, weather proof, does not allow any solid or liquid content to escape and is lockable.

“sealed drainage system” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquid will run off the surface otherwise than via the system
- except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump.

“sharps” means items that could cause cuts or puncture wounds. They include needles, hypodermic needles, scalpels and other blades, knives, infusion sets, saws, broken glass, and nails.

“waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“year” means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

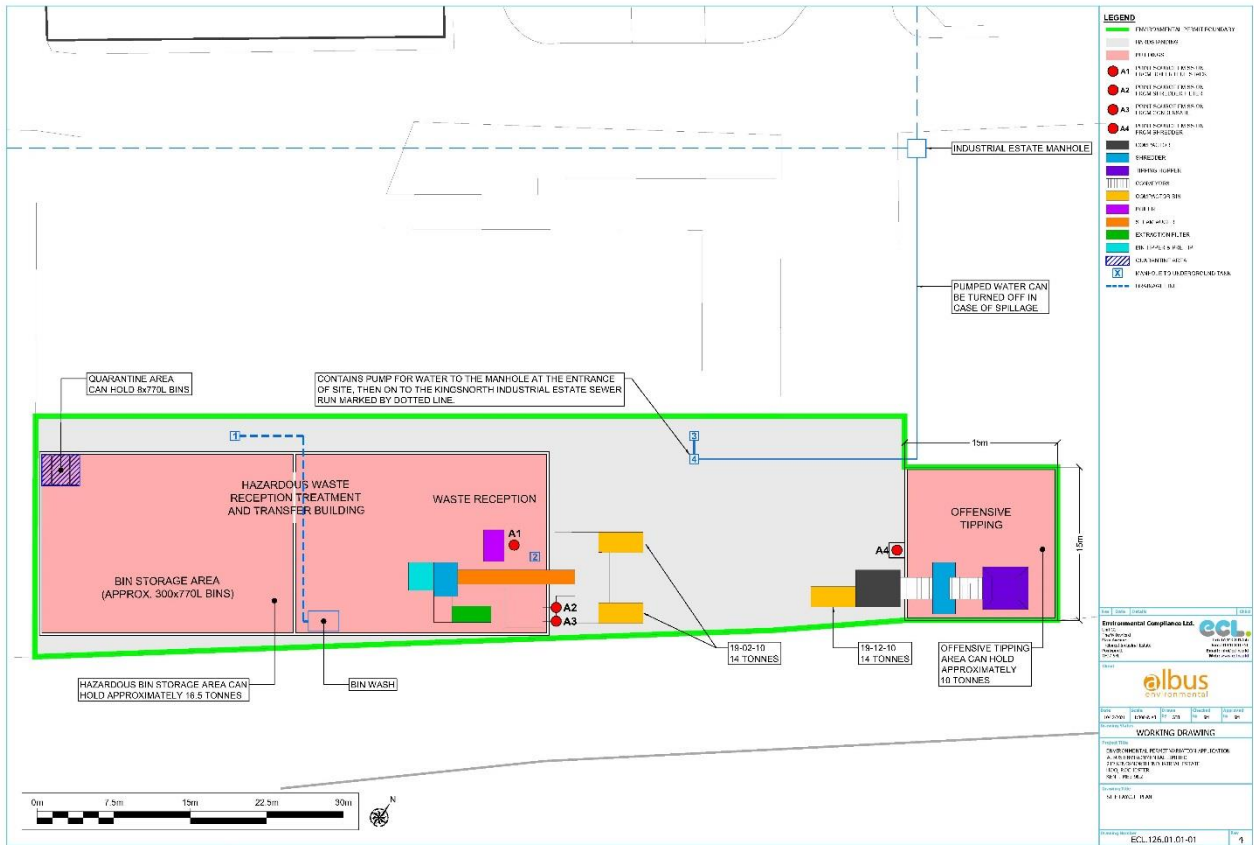
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7 – Site plan

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