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Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Biffa Leicester Limited

Wanlip Composting & Anaerobic Digestion Facility Fillingate Wanlip Leicester LE7 4PF

Variation application number

EPR/DB3806MD/V005

Permit number

EPR/DB3806MD

Wanlip Composting & Anaerobic Digestion Facility Permit number EPR/DB3806MD

Introductory note

This introductory note does not form a part of the notice

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.

Changes introduced by this variation notice/statutory review

The Industrial Emissions Directive (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.

The scope of the permit review also covers the assessment of:

- the bioaerosols monitoring and compliance with M9 bioaerosols monitoring requirements;
- the design and construction of secondary containment and storage lagoons;
- the available storage facilities and measures to reduce ammonia emissions from storage; and
- information on existing medium combustion plant and/or specified generators on site.

This variation has been issued to update some of the conditions following a statutory review of the permits in the industry sector for biowaste treatment. The opportunity has also been taken to consolidate the original permit and subsequent variations.

The following notice gives notice of the variation of environmental permits EPR/DB3806MD and EPR/ZP3537PP referred to in the status logs below and the replacement of those permits with a consolidated environmental permit.

Brief description of the process

The Wanlip Anaerobic Digestion (AD) facility accepts up to 75,000 tonnes per year of organic waste for treatment. Residual waste is delivered to a recycling plant at Hoods Close in Leicester. Extraction processes separate the organic from the inorganic waste with the various fractions sent on for further recycling and recovery. The organic waste fraction is sent to the AD facility at Wanlip.

The extracted organic waste is mixed with water to create slurry, which is screened and filtered to remove contaminants including paper, fabrics, glass and grit. The liquid fraction is discharged into digestion tanks where it is retained for 18-20 days at about 38°C in the absence of oxygen.

There are two gas engines that are fuelled by biogas generated by the composting and anaerobic degradation of municipal waste collected and utilised to generate electricity. Directly associated and technically-connected activities and infrastructure include a biogas holding tank, a flare, a HDPE knock-out pot inside a concrete manhole chamber, transformers and a substation. The flare is on automatic stand-by to combust excess gas should either of the gas engines be shut down, or to combust gas if it is not of sufficient quality for utilisation by the engines.

The digestate is dewatered and transferred to the adjacent Severn Trent facility where it is stored prior to application to land as a soil conditioner/fertiliser. The liquid fraction from the dewatering process is disposed of direct to the foul sewer at Wanlip sewage treatment works.

The installation is sited on a minor aquifer and within a Nitrate Vulnerable Zone. The nearest sensitive receptor is Severn Trent Water Waste Water Treatment Works located adjacent to the site.

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 |
| Original permit issued EAWML 43549 | 26/11/2003 | Waste management licence keeping and treatment of controlled waste on land. |
| Variation issued EPR/TP3390CW/V002 (previously EAWML 43549) | 01/04/2009 | Additional waste types added, waste throughput increased, sludge and liquid waste forms are now accepted. |
| Application EPR/TP3390CW/V003 (variation) | Duly made 15/07/2015 | Application to add waste code 19 02 10 – Glycerine. |
| Variation determined EPR/TP3390CW | 02/09/2015 | Varied permit issued. |
| Application EPR/TP3390CW/V004 (full transfer of permit to EPR/DB3806MD) | Duly made 29/09/2014 | Application to vary and update the permit to modern conditions in accordance with IED (EPR/TP3390CW/V004), in conjunction with application to transfer permit in full to Biffa Leicester Limited (EPR/DB3806MD/T001). |
| Transfer determined EPR/DB3806MD/T001 | 03/03/2016 | Full transfer of permit complete. |
| Variation determined EPR/DB3806MD | 08/03/2016 | Varied and consolidated permit issued in modern condition format. |
| Application EPR/DB3806MD/V003 | Duly made 23/03/2016 | Application to vary permit to add waste code 19 05 02, waste from anaerobic treatment of solid wastes, noncomposted fraction of animal and vegetable waste. |
| Variation determined EPR/DB3806MD | 10/06/2016 | Varied permit issued. |
| Application EPR/DB3806MD/V004 | Duly made 06/10/2017 | Application to vary permit to add waste code 16 03 05* (off specification batches and unused products – organic wastes containing hazardous substances). |
| Additional information received | 13/11/2017 | Response to Schedule 5 Notice dated 25/10/2017. |
| Additional information received | 30/11/2017 | Response to Schedule 5 Notice dated 25/10/2017. |
| Variation determined EPR/DB3806MD/V004 | 05/01/2018 | Varied permit issued to Biffa Leicester Limited. |
| (PAS Billing Ref: KP3537YA) | | |
| Regulation 61 Notice sent to Operator | 22/06/2020 | Regulation 61 Notice requiring information for statutory review of permit. |
| Regulation 61 Notice response | 05/05/2021 | Response received from the operator. |
| Application EPR/DB3806MD/V005 (variation and consolidation) | Environment Agency Initiated Variation | Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018. |

| Status log of the permit | | |
|--|------------|--|
| Description | Date | Comments |
| Environment Agency Biowaste Treatment Sector Review | 24/03/2023 | Varied and consolidated permit issued. |
| Permit reviewed | | |
| Variation determined EPR/DB3806MD | | |
| (Billing Ref: BP3501LU) | | |

| Status log of permit B: EPR/ZP3 | 537PP | |
|---|--|---|
| Description | Date | Comments |
| Application ZP3537PP | Received 09/07/2004 | |
| Response to request for information | Request dated 31/10/2004 | Response dated 25/01/2005 |
| Response to request for information | Request dated 18/02/2005 | Response dated 02/03/2005 |
| Response to request for information | Request dated 02/03/2005 | Response dated 07/03/2005 |
| Request to extend determination | Request dated 25/01/2005 | Request accepted 01/02/2005 |
| Permit determined | 21/03/2005 | |
| Agency variation determined EPR/ZP3537PP/V002 | 10/04/2013 | Agency variation to implement the changes introduced by IED. |
| Regulation 61 Notice sent to Operator | 22/06/2020 | Regulation 61 Notice requiring information for statutory review of permit. |
| Application EPR/ZP3537PP/V003 (variation and consolidation with EPR/DB3806MD) | Environment Agency Initiated Variation | Application to vary and update the permit to modern conditions and consolidation with EPR/DB3806MD. |
| Variation determined and consolidation issued. EPR/DB3806MD | 24/03/2023 | Varied and consolidated permit issued in modern format. |

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 regulations 18 and 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates environmental permits

Permit number

EPR/DB3806MD EPR/ZP3537PP

Issued to

Biffa Leicester Limited ("the operator")

whose registered office is

Coronation Road Cressex Business Park High Wycombe Buckinghamshire HP12 3TZ

company registration number 04602279

to operate a regulated facility at

Wanlip Composting & Anaerobic Digestion Facility Fillingate Wanlip Leicester LE7 4PF

to the extent set out in the schedules.

The notice shall take effect from 24/03/2023

The number of the consolidated permit is EPR/DB3806MD.

| Name | Date |
|---------------|------------|
| Sandra Cavill | 24/03/2023 |

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/DB3806MD

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/DB3806MD/V005 authorising,

Biffa Leicester Limited ("the operator"),

whose registered office is

Coronation Road Cressex Business Park High Wycombe Buckinghamshire HP12 3TZ

company registration number 04602279

to operate an installation at

Wanlip Composting & Anaerobic Digestion Facility Fillingate Wanlip Leicester LE7 4PF

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

| Name | Date |
|---------------|------------|
| Sandra Cavill | 24/03/2023 |

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.0 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.
- 1.1.1 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.2 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.
- 1.1.3 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 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 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 The activities shall be undertaken in accordance with best available techniques.
- 2.1.3 All process plant and equipment shall be commissioned, operated and maintained and shall be fully documented and recorded in accordance with the manufacturer's recommendations.
- 2.1.4 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 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
 - (c) the facility has sufficient free capacity to store and treat the waste.
- 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 Waste pre-acceptance and acceptance procedures shall be undertaken in accordance with best available techniques.
- 2.3.8 For the following activities referenced in schedule 1, table S1.1 (AR5):
 - (a) each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this.
 - (b) the operator must keep periods of start-up and shut-down of each MCP as short as possible.
 - (c) there must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993.

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.

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.
- 3.2.4 The operator shall implement a leak detection and repair (LDAR) programme to detect and mitigate the release of volatile organic compounds, including methane from diffuse sources.

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) process monitoring specified in table S3.3.
- 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.
- 3.5.5 In the case of new medium combustion plant, the first monitoring measurements shall be carried out within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.
- 3.5.6 Monitoring shall not take place during periods of start-up or shut-down.

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.
- 3.6.2 The operator shall:
 - (a) only use approved products for pest control;
 - (b) treat pest infestations promptly;
 - (c) reject pest-infected incoming waste;
 - (d) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
 - (e) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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.
- 3.7.3 The operator shall undertake a DSEAR assessment and maintain an accident management plan.

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.

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 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.
- 4.2.6 The operator shall keep records of non-waste materials leaving the site, including the type of material, the batch number, the date of export off-site and the tonnage exported on that date. These records shall be maintained for at least 2 years.
- 4.2.7 The operator shall submit an annual report detailing the efficiency of removal of non-compostable and non-digestible materials from feedstock prior to processing and the level of contamination in the final recovered digestate and/or compost.

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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, 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 Following the detection of an issue listed in condition 4.3.1, the operator shall review and revise the management system and implement any changes as necessary to minimise the risk of reoccurrence of the issue.
- 4.3.4 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.
- 4.3.5 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.
- 4.3.6 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.
- 4.3.7 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.
- 4.3.8 The operator shall notify the Environment Agency as soon as is practicable, in writing of any change of the medium combustion plant.

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. |
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Schedule 1 – Operations

| Table S1.1 | | | |
|--------------------|---|---|---|
| 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 | S5.3 A (1) (a) (i) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment. | R3: Recycling/reclamation of organic substances which are not used as solvents | From receipt of waste through to digestion and recovery of by-products (digestate). Anaerobic digestion of waste in 3 tanks. Waste types suitable for acceptance are |
| | | | limited to those hazardous wastes specified in Table S2.2. |
| AR2 | S5.4 A (1) (b) (i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is | R3: Recycling/reclamation of organic substances which are not used as solvents | From receipt of waste through to digestion and recovery of by-products (digestate). Anaerobic digestion of waste in 3 tanks followed by burning of biogas produced from the process. |
| | anaerobic digestion) involving biological treatment. | | Waste types suitable for acceptance are limited to those specified in Table S2.2. |
| | Directly Associated Activ | ity | |
| AR3 | Storage of waste pending recovery or disposal | R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced) | From the receipt of permitted waste to pre-treatment and despatch for anaerobic digestion on site. Storage of residual wastes from pre-treatment to despatch off-site for recovery. |
| | | | Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system. |
| | | | Maximum storage of waste is 11,550 tonnes, consisting of 25 tonnes inert wastes and 11,525 tonnes other wastes. |
| | | | Waste types suitable for acceptance are limited to those specified in Table S2.2. |
| AR4 | Physical treatment for the purpose of recycling | R3: Recycling/reclamation of organic substances which are not used as solvents | From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery. |
| | | SUIVELIES | Pre-treatment of waste in enclosed building fitted with appropriate odour |

| 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 |
|--------------------|---|---|--|
| | | | abatement and on an impermeable surface with a sealed drainage system including shredding, sorting, screening, compaction, baling, mixing and maceration. |
| | | | Post-treatment of digestate in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system, including screening to remove contraries, centrifuge or pressing and addition of thickening agents (polymers) or drying for use as a fertiliser or soil conditioner (drying for the purpose of use as a fuel is not permitted). |
| | | | Heat treatment (pasteurisation) including hydrolysis of waste in 2 tanks for the purpose of recovery. |
| | | | Waste types suitable for acceptance are limited to those specified in Table S2.2. |
| AR5 | Steam and electrical power supply | R1: Use principally as a fuel to generate energy | From the receipt of biogas produced at the on-site anaerobic digestion process to combustion with the release of combustion gases. |
| | | | Combustion of biogas in two gas engines with an aggregated thermal input of 3.67 MWth. |
| AR6 | Emergency flare operation | D10: Incineration on land | From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases. |
| | | | Use of an auxiliary flare, required only during periods of breakdown or maintenance of the gas engines. |
| AR7 | Raw material storage | Storage of raw materials including lubrication oil, antifreeze, propane, ferric chloride, activated carbon, diesel. | From the receipt of raw materials to despatch for use within the facility. |
| AR8 | Gas storage | R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary | Storage of biogas produced from on-site anaerobic digestion of permitted waste in roof space of digesters and a storage gas tank. |

| 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 |
| | | storage, pending collection, on the site where it is produced) | From the receipt of biogas produced at the on-site anaerobic digestion process to despatch for use within the facility. |
| AR9 | Digestate storage | 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) | From the receipt of processed uncertified digestate produced from the on-site anaerobic digestion process to despatch for use off-site. Storage of processed uncertified liquid digestate in a storage tank. |
| | | | Storage of processed uncertified solid digestate in a covered bay or building and on an impermeable surface with a sealed drainage system. |
| AR10 | Surface water collection and storage | Collection of uncontaminated roof and site surface water in a sump. | From the collection of uncontaminated roof and site surface water from non-operational areas only to re-use within the facility or discharge off-site. |
| AR11 | Air treatment | Collection and treatment of air using abatement system (biofilter, scrubber /carbon filters) prior to release to atmosphere. | From the collection of air from site processes to treatment and release of treated air to atmosphere. |

| Table S1.2 Operating ted | hniques | |
|---|---|------------------------|
| Description | Parts | Date Received |
| Application EPR/ZP3537PP | The response to questions 2.1 and 2.2 given in Appendix 4, Appendix 7 of the application | 09/07/2004 |
| Application EPR/DB3806MD | Sections 1.2, 1.4, 1.6 and 1.8 of the application document in response to section 3a – technical standards, Part B of the application form | 29/09/2014 |
| Application EPR/DB3806MD/V003 | Supporting Statement, BF4954/03/SS (July 2017) in response to section 3a – technical standards, Part B of the application form. | 10/07/2017 |
| Response to Schedule 5 Notice dated 25/10/17 | Operating techniques described in the responses to the Notice (including accompanying information): Response 1 (systems to ensure storage of waste meets tonnage limits including Standard Operating Procedure for Feeding & Alcohol Waste Dosing [WANSOP007]), Responses 2 & 3 (justification of EWC 16 03 05*) and Response 4 (risk assessment of impact of new waste stream on emissions and digestate from site). | 13/11/2017 |
| Response to Schedule 5 Notice dated 25/10/17 | Response on management of quantities of waste in storage tank including use of SCADA control system to alarm and close input valve to prevent storage tank containing greater than 50 m³ total wastes. | 30/11/2017 |
| Response to Regulation 61 Notice dated 22/06/2020 | Annex 1 Returns Spreadsheet Compliance and operating techniques identified in response to BAT Conclusions 1 to 8, 10 to 24 and 33 to 38 in the Waste Treatment BREF published on 17 August 2018. | Received 05/05/2021 |

| Table S1.3 | Table S1.3 Improvement programme requirements | |
|------------|---|-----------|
| Reference | Requirement | Date |
| IC1 [1] | The Operator shall provide to the Agency, in writing, a report detailing proposed methods for gathering representative monitoring data for the point-source air emissions released from the two gas engines and flare. Monitoring data shall be collected for the following air emission parameters: Oxides of Nitrogen, Carbon Monoxide, Sulphur Dioxide, Total Volatile Organic Compounds, Non-Methane Volatile Organic Compounds, Hydrogen Chloride and Hydrogen Fluoride. The monitoring programme shall be designed and implemented following the Agency's technical guidance documents TGN05 Guidance for Monitoring Enclosed Landfill Gas Flare and TGN08 Guidance for Monitoring Landfill Gas Engine Emissions. The proposed methodology shall be submitted to the Agency for approval prior to its implementation. | Completed |
| IC2 [1] | The Operator shall carry out the Agency-approved monitoring programme as required through IC 1 and shall provide to the Agency, in writing, a report detailing the data, results and conclusions of the air emissions monitoring programme. The data collected from this monitoring programme shall be used by the | Completed |

| Reference | Requirement | Date |
|-----------|--|-----------|
| | Agency to set ELVs for the installation's emissions to air where deemed to be appropriate. | |
| IC3 [1] | Using the data collected from the monitoring programme described in IC 1 the Operator shall: | Completed |
| | Re-run the H1 screening tool to calculate and assess the short term and long term process contributions for the monitored emissions to air in accordance with the Agency's Horizontal Guidance Note IPPC H1 Environmental Assessment and Appraisal of BAT. | |
| | Re-run the air-dispersion modelling investigation using the same methodology as that reported in the submitted Application for the air emissions that are not screened out following the H1 methodology. | |
| | The results of both of these further studies shall be submitted in writing to the Agency and shall be used to determine the parameters and frequency of the continued monitoring programme. | |
| IC4 [1] | Following the completion of IC 3, the Operator shall investigate measures to reduce or mitigate any emissions to air that are assessed as being significant against the relevant Environmental Assessment Levels contained in the Agency's H1 Horizontal Guidance Note. This investigation shall include consideration of the techniques detailed in the Agency's technical guidance document LFGTN 06 Guidance on Gas Treatment Technologies for Landfill Gas Engines. The conclusions and recommendations made following this investigation shall be submit in writing to the Agency and any proposed improvements shall be implemented to a timetable agreed with the Agency. | Completed |
| IC5 [1] | The Operator shall implement a formal, documented procedure for the inspection and subsequent maintenance of the installation's tanks, drains, pipework and collection pits, and areas of bunding and hardstanding with the purpose of preventing fugitive releases to ground. A copy of the procedure shall be submitted in writing to the Agency. | Completed |
| IC6 [1] | The Operator shall provide to the Agency a written report detailing a proposed monitoring and reporting programme for trace components in the inlet biogas received by the gas engines and flare. The monitoring programme shall be designed and implemented having regard to the Agency's technical guidance document TGN04 Guidance for Monitoring Trace Components in Landfill Gas and shall obtain Agency approval prior to commencement. | Completed |
| | A report detailing the results of the monitoring programme shall be submitted in writing to the Agency in accordance with the monitoring and reporting periods agreed with the Agency. | |
| IC7 [1] | The Operator shall produce an Accident Management Plan identifying the potential accident scenarios posed by the installation under normal and abnormal operating conditions. For each identified accident scenario the risk posed to the environment must be assessed with regard to its probability of occurrence and severity of impact, and the corresponding prevention measures and action plans in place must also be identified and assessed. | Completed |

| Table S1.3 | Improvement programme requirements | |
|------------|---|--|
| Reference | Requirement | Date |
| | The Accident Management Plan is to be submitted in writing to the Agency so that it can be approved within the specified period. | |
| IC8 [1] | The Operator shall develop and implement a formal Environmental Management System (EMS) to monitor and record their performance in the management of the potential environmental impacts posed by the installation. | Completed |
| IC9 | The operator shall submit a revised odour management plan to the Environment Agency for written approval. The plan shall take into account the appropriate measures for odour control specified in section 2.2.6 of Sector Guidance Note IPPC S5.06 – Guidance for the Treatment of Hazardous and Non-Hazardous Waste. The plan shall also incorporate all the required detailed information as specified in the Environment Agency's Horizontal Guidance H4 – Odour Management. The plan must contain dates for implementation of individual measures. | 01/08/2018 |
| Improveme | nt condition for primary containment | |
| IC10 | The operator shall submit a written 'primary containment plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of an inspection and program of works undertaken by a qualified engineer, and shall assess the extent design specification and condition of primary containment systems where polluting liquids and solids are being stored, treated, and/or handled. The plan shall include: • an assessment of the physical condition of all primary containment systems (storage and treatment vessels) using a Written Scheme of Examination and their suitability for providing primary containment when subjected to the dynamic and static loads caused by catastrophic tank failure; • a program of works with timescales for the implementation of individual improvement measures necessary to demonstrate that the primary containment is fit for purpose or alternative appropriate measures to ensure all polluting materials will be contained on site; and • a preventative maintenance and inspection regime The plan shall be implemented in accordance with the Environment Agency's written approval. | 12 months from the issue of variation EPR/DB3806MD/V005 or other date as agreed in writing with the Environment Agency |
| Improveme | nt condition for secondary containment design | I |
| IC11 | The operator shall submit a written 'secondary and tertiary containment plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of an inspection and program of works undertaken by a competent structural engineer, in accordance with the risk assessment methodology detailed within CIRIA C736 (2014) guidance, of the condition and extent of secondary and tertiary containment systems where all polluting liquids and solids are being stored, treated, and/or handled. | 12 months from the issue of variation EPR/DB3806MD/V005 or other date as agreed in writing with the Environment Agency |

| Table S1.3 | Improvement programme requirements | T |
|------------|---|---|
| Reference | Requirement | Date |
| | The inspection shall consider, but not be limited to, the storage vessels, bunds, loading and unloading areas, transfer pipework/pumps, temporary storage areas, and liners underlying the | |
| | site. The plan shall include: | |
| | an assessment of the physical condition of all secondary and/or tertiary containment systems, using a Written Scheme of Examination and their suitability for providing containment when subjected to the dynamic and static loads caused by catastrophic tank failure; a program of works with timescales for the implementation of individual improvement measures necessary for the secondary and/or tertiary containment systems to comply with CIRIA C736 (2014) guidance, or equivalent. | |
| | a preventative maintenance and inspection regime | |
| | The plan shall be implemented in accordance with the Environment Agency's written approval. | |
| Improveme | nt condition for review of effectiveness of abatement plant | |
| IC12 | The operator shall carry out a review of the abatement plant on site, in order to determine whether the measures have been effective and adequate to prevent and where not possible minimise emissions released to air including but not limited to odour and ammonia. | 12 months from the issue of variation EPR/DB3806MD/V005 |
| | The operator shall submit a written report to the Environment Agency following this review for assessment and approval. | or other date as agreed in writing with the Environment |
| | The report shall include but not limited to the following aspects: | Agency |
| | Full investigation and characterisation of the waste gas streams. | |
| | Abatement stack monitoring results (not limited to odour and ammonia) | |
| | Abatement process monitoring results (not limited to odour and ammonia) | |
| | Details of air quality quantitative impact assessment including modelling and a proposal for site-specific "action levels" (not limited to odour concentration, hydrogen sulphide and ammonia). | |
| | Odour monitoring results at the site boundary | |
| | Records of odour complaints and odour related incidents | |
| | Recommendations for improvement including the replacement or upgrading the abatement plant | |
| | Timescales for implementation of improvements to the abatement plant | |
| | The operator shall implement the improvements in line with the timescales as approved by the Environment Agency. | |
| Improveme | nt condition for assessment of methane slip | |

| Reference | Requirement | Date |
|-----------|--|--|
| IC13 | The operator shall establish the methane emissions in the exhaust gas from engines burning biogas and compare these to the manufacturer's specification and benchmark levels agreed in writing with the Environment Agency. The operator shall, as part of the methane leak detection and repair (LDAR) programme, develop proposals to assess the potential for methane slip and take corrective actions where emissions above the manufacturer's specification or appropriate benchmark levels are identified. | 12 months from the issue of variation EPR/DB3806MD/V005 or other date as agreed in writing with the Environment Agency |

Schedule 2 – Waste types, raw materials and fuels

| Table S2.1 Raw materials and fuels | | |
|------------------------------------|---------------|--|
| Raw materials and fuel description | Specification | |
| | | |

| Table S2.2 Permitte | d waste types and quantities for anaerobic digestion | | | |
|---------------------|---|--|--|--|
| Maximum quantity | Annual throughput shall not exceed 75,000 tonnes | | | |
| | The total quantity of hazardous waste stored at any time on its own or when mixed with /added to non-hazardous waste shall not exceed 50 tonnes. | | | |
| Exclusions | Wastes having any of the following characteristics shall not be accepted: | | | |
| | biodegradable wastes that is significantly contaminated with non-compostable or digestible contaminants, in particular plastic and litter shall be no more than 5% w/w and shall be as low as reasonably practicable by 31 December 2025. wastes containing wood-preserving agents or other biocides and post-consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste | | | |
| Waste code | Description | | | |
| 02 | Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing | | | |
| 02 01 | wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing | | | |
| 02 01 01 | sludges from washing and cleaning – vegetables, fruit and other crops | | | |
| 02 01 02 | animal tissue waste | | | |
| 02 01 03 | plant tissue waste | | | |
| 02 01 06 | animal faeces, urine and manure (including spoiled fully biodegradable animal bedding) | | | |
| 02 01 07 | wastes from forestry | | | |
| 02 02 | wastes from the preparation and processing of meat, fish and other foods of animal origin | | | |
| 02 02 01 | sludges from washing and cleaning, peeling, centrifuging and separation including wash waters and sludges from secondary food processing or the cook chill sector | | | |
| 02 02 02 | animal tissue waste | | | |
| 02 02 03 | materials unsuitable for consumption or processing including animal gut contents | | | |
| | | | | |
| 02 02 04 | sludges from on-site effluent treatment including sludges from gelatine production | | | |

| 02 03 | wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation |
|--|---|
| 02 03 01 | sludges from washing, cleaning peeling, centrifuging and separation (including sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only) |
| 02 03 02 | wastes from preserving agents |
| 02 03 03 | wastes from solvent extraction |
| 02 03 04 | materials unsuitable for consumption or processing (including waste from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only) |
| 02 03 05 | sludges from on-site effluent treatment (including sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only) |
| 02 04 | wastes from sugar processing |
| 02 04 01 | soils from washing and cleaning beet |
| 02 04 03 | sludges from on-site effluent treatment – sludges from the processing of sugar |
| 02 05 | wastes from the dairy products industry |
| 02 05 01 | materials unsuitable for consumption or processing – biodegradable wastes derived from the processing of dairy products only |
| 02 05 02 | sludges from on-site effluent treatment |
| 02 06 | wastes from the baking and confectionery industry |
| 02 00 | nacios from the baking and confectionery made y |
| 02 06 01 | materials unsuitable for consumption or processing – biodegradable wastes from the processing of materials used in bakery and confectionery |
| 0_00 | materials unsuitable for consumption or processing – biodegradable wastes from |
| 02 06 01 | materials unsuitable for consumption or processing – biodegradable wastes from the processing of materials used in bakery and confectionery |
| 02 06 01 02 06 02 | materials unsuitable for consumption or processing – biodegradable wastes from the processing of materials used in bakery and confectionery wastes from preserving agents sludges from on-site effluent treatment – sludges from the processing of materials |
| 02 06 01 02 06 02 02 06 03 | materials unsuitable for consumption or processing – biodegradable wastes from the processing of materials used in bakery and confectionery wastes from preserving agents sludges from on-site effluent treatment – sludges from the processing of materials used in baking and confectionery wastes from the production of alcoholic and non-alcoholic beverages (except |
| 02 06 01 02 06 02 02 06 03 02 07 | materials unsuitable for consumption or processing – biodegradable wastes from the processing of materials used in bakery and confectionery wastes from preserving agents sludges from on-site effluent treatment – sludges from the processing of materials used in baking and confectionery wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa) wastes from washing, cleaning and mechanical reduction of raw materials – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and |
| 02 06 01 02 06 02 02 06 03 02 07 02 07 01 | materials unsuitable for consumption or processing – biodegradable wastes from the processing of materials used in bakery and confectionery wastes from preserving agents sludges from on-site effluent treatment – sludges from the processing of materials used in baking and confectionery wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa) wastes from washing, cleaning and mechanical reduction of raw materials – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)) wastes from spirits distillation – spent grains, hops and whisky filter sheets and cloths, yeast and yeast like residues, sludge from production process, or malt |
| 02 06 01 02 06 02 02 06 03 02 07 02 07 01 | materials unsuitable for consumption or processing – biodegradable wastes from the processing of materials used in bakery and confectionery wastes from preserving agents sludges from on-site effluent treatment – sludges from the processing of materials used in baking and confectionery wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa) wastes from washing, cleaning and mechanical reduction of raw materials – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)) wastes from spirits distillation – spent grains, hops and whisky filter sheets and cloths, yeast and yeast like residues, sludge from production process, or malt husks, malt sprouts, yeasts and yeast-like residues only |

| 03 | Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard |
|-----------|--|
| 03 03 | wastes from pulp, paper and cardboard production and processing |
| 03 03 02 | green liquor sludge (from recovery of cooking liquor) |
| 03 03 05 | de-inking sludges from paper recycling |
| 03 03 11 | sludges from on-site effluent treatment other than those mentioned in 03 03 10 |
| 04 | Wastes from the leather, fur and textile industries |
| 04 01 | wastes from the leather and fur industry |
| 04 01 07 | sludges, in particular from on-site effluent treatment not containing chromium |
| 04 02 | wastes from the textile industry |
| 04 02 10 | organic matter from natural products, e.g. grease, wax |
| 04 02 21 | wastes from unprocessed textile fibres |
| 04 02 22 | wastes from processed textile fibres |
| 16 | Wastes not otherwise specified in the list |
| 16 03 | off-specification batches and unused products |
| 16 03 05* | organic wastes containing hazardous substances |
| 16 03 06 | organic wastes other than those mentioned in 16 03 05 |
| 16 10 | aqueous liquid wastes destined for off-site treatment |
| 16 10 02 | untreated wash waters from cleaning fruit and vegetables on farm only |
| 16 10 02 | milk and dairy waste milk from agricultural premises only |
| 16 10 02 | liquor/leachate from a composting process that accepts waste input types listed in this table only and in compliance with Animal By-Products Regulations |
| 16 10 04 | aqueous concentrates other than those mentioned in 16 10 03 |
| 19 | Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use |
| 19 02 | wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation) |
| 19 02 10 | glycerol not designated as hazardous i.e. excludes EWC code 19 02 08 |
| 19 05 | wastes from aerobic treatment of solid wastes |
| 19 05 02 | non-composted fraction of animal and vegetable waste |
| 19 06 | wastes from anaerobic treatment of waste |
| 19 06 03 | liquor from anaerobic treatment of municipal waste (from a process that accepts wastes which are listed in this table only) and made up of previously pasteurised and stabilised batches only |
| 19 06 04 | digestate from anaerobic treatment of source segregated biodegradable waste (from a process that accepts wastes which are listed in this table only) and made up of previously pasteurised and stabilised batches only |

| 19 06 05 | liquor from anaerobic treatment of animal and vegetable waste (from a process that accepts wastes which are listed in this table only) and made up of previously pasteurised and stabilised batches only |
|--|---|
| 19 06 06 | digestate from anaerobic treatment of animal and vegetable waste (previously digested sewage sludge only) |
| 19 08 | wastes from waste water treatment plants not otherwise specified |
| 19 08 05 | sludges from treatment of urban waste water |
| 19 08 09 | grease and oil mixture from oil/water separation containing only edible oil and fats |
| 19 09 | wastes from the preparation of water intended for human consumption or water for industrial use |
| 19 09 02 | sludges from water clarification |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |
| 19 12 12 | waste types listed in this table, Table S2.2, that have been subjected to mechanical treatment only (from a process that treats wastes which are listed in this table only). |
| 20 | Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions |
| 22.24 | separately collected fractions (except 15 01) |
| 20 01 | Separately consider nuclions (except to 01) |
| 20 01 20 01 08 | biodegradable kitchen and canteen waste containing compostable plastics meeting EN 13432 or equivalent certified compostable or digestible packaging (Category 3 ABPR waste only) |
| | biodegradable kitchen and canteen waste containing compostable plastics meeting EN 13432 or equivalent certified compostable or digestible packaging (Category 3 |
| 20 01 08 | biodegradable kitchen and canteen waste containing compostable plastics meeting EN 13432 or equivalent certified compostable or digestible packaging (Category 3 ABPR waste only) |
| 20 01 08 | biodegradable kitchen and canteen waste containing compostable plastics meeting EN 13432 or equivalent certified compostable or digestible packaging (Category 3 ABPR waste only) edible oil and fat |
| 20 01 08 20 01 25 20 02 | biodegradable kitchen and canteen waste containing compostable plastics meeting EN 13432 or equivalent certified compostable or digestible packaging (Category 3 ABPR waste only) edible oil and fat garden and park wastes (including cemetery waste) |
| 20 01 08 20 01 25 20 02 20 02 01 | biodegradable kitchen and canteen waste containing compostable plastics meeting EN 13432 or equivalent certified compostable or digestible packaging (Category 3 ABPR waste only) edible oil and fat garden and park wastes (including cemetery waste) biodegradable waste |
| 20 01 08 20 01 25 20 02 20 02 01 20 03 | biodegradable kitchen and canteen waste containing compostable plastics meeting EN 13432 or equivalent certified compostable or digestible packaging (Category 3 ABPR waste only) edible oil and fat garden and park wastes (including cemetery waste) biodegradable waste other municipal wastes mixed municipal waste – only separately collected biodegradable wastes of types |

Schedule 3 – Emissions and monitoring

| Emission point ref. & location | Source | Parameter | Limit (including unit) | Reference period | Monitoring frequency | Monitoring standard or method | |
|--|--------------------------------|---|-----------------------------------|-----------------------------------|----------------------|---|-----------------------|
| | dium combustion pl | ant which are e | , | ed on biogas (| ⊔ 1 MW to 5 MW | | |
| A1 [Point A1 on site plan in Schedule 7] | Gas engine 1 stack [note 1] | Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂) | 500 mg/m ³ | Average over sample period | Annual | BS EN 14792 | |
| | | Sulphur dioxide | 350 mg/m ³ [note 2] | | | BS EN 14791 | |
| | | Sulphur dioxide | 162 mg/m ³ [note 3] | | | or CEN TS 17021 | |
| | | | | | | or by calculation based on fuel sulphur | |
| | | Carbon monoxide | 1400 mg/m ³ | | | BS EN 15058 | |
| | | Total VOCs | No limit set | | | BS EN 12619 | |
| A2 [Point A2 on site plan in Schedule 7] | Gas engine 2 stack [note 1] | Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂) | 500 mg/m ³ | Average over sample period | Annual | BS EN 14792 | |
| | | Sulphur dioxide | 350 mg/m ³ [note 2] | | | BS EN 14791 | |
| | | Sulphur dioxide | | 162 mg/m ³ [note 3] | | | or CEN TS 17021 |
| | | | | | | or by calculation based on fuel sulphur | |
| | | Carbon monoxide | 1400 mg/m ³ | | | BS EN 15058 | |
| | | Total VOCs | No limit set | | | BS EN 12619 | |
| A3 [Point A3 on site plan in Schedule 7] | Emergency flare stack [note 4] | Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂) | 150 mg/m ³ | Average over sample period | [note 5] | BS EN 14792 | |

| Emission point ref. & location | Source | Parameter | Limit (including unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|--|-------------------------------------|--|------------------------------|---------------------------------------|------------------------|--|
| | | Carbon monoxide | 50 mg/m ³ | | | BS EN 15058 |
| | | Total VOCs | 10 mg/m ³ | | | BS EN 12619 |
| A4 [Point A4 on site plan in Schedule 7] | Biofilter outlet stack | Hydrogen sulphide | No limit set | Average over sample period | Once every 6 months | CEN TS 13649 for sampling NIOSH 6013 for analysis |
| | | Ammonia | 20 mg/m ³ | Average over sample period | Once every 6 months | EN ISO 21877 |
| | | Odour concentration | No limit set | | Once every 6 months | BS EN 13725 |
| A5 [Point A5 on site plan in Schedule 7] | Auxiliary boiler | No parameter set | No limit set | | | |
| Pressure relief valves | Digesters/Digestate storage tank(s) | Biogas release and operational events | No limit set | Recorded duration and frequency | Daily inspection | |
| Vents from tank(s) | Oil/Fuel Storage tank(s) | No parameter set | No limit set | | | |

Note 1 - These emission limits are based on normal operating conditions and load - temperature 0°C (273 K); pressure 101.3 kPa and oxygen 5% (for gas engines burning biogas) and oxygen 3% (for medium combustion plants other than engines and gas turbines burning biogas).

Note 2 – This emission limit applies until 31 December 2029, unless the gas engine is replaced.

Note 3 – This emission limit applies from 1 January 2030, unless otherwise advised by the Environment Agency.

Note 4 – These emission limits are based on normal operating conditions and load - temperature 0°C (273K); pressure 101.3 kPa and oxygen 3%.

Note 5 – Following commissioning, monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours). Record of operating hours to be submitted annually to the Environment Agency.

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 |
|--|---|------------------------|--------------------------|---------------------|----------------------|-------------------------------|
| S1 on site plan in schedule 7 emission to Severn Trent WWTW foul sewer | Process water | No parameter set | No limit set | | | |
| S2 on site plan in schedule 7 emission to Severn Trent WWTW surface water sewer | Uncontaminated surface water from roofs and non-operational areas | No parameter set | No limit set | | | |

| Table S3.3 Process m | Table S3.3 Process monitoring requirements | | | | | | |
|---|--|---------------------------|--|---|--|--|--|
| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications | | | |
| Digester feed | рН | As described in | As described in | Process monitoring to | | | |
| (digestion process) | Alkalinity | site operating techniques | site operating techniques | be recorded using a SCADA system where | | | |
| | Temperature | ' | ' | relevant. | | | |
| | Hydraulic loading rate | | | | | | |
| | Organic loading rate | | | | | | |
| | Volatile fatty acids concentration | | | | | | |
| | Ammonia | | | | | | |
| | Liquid /foam level | | | | | | |
| Biogas in digester | Flow | Continuous | In accordance with EU weights and measures Regulations | Process monitoring to be recorded using a SCADA system where relevant. | | | |
| | Methane | Continuous | None specified | Gas monitors to be | | | |
| | CO ₂ | Continuous | None specified | calibrated every 6 months or in | | | |
| | O ₂ | Continuous | None specified | accordance with the | | | |
| | Hydrogen sulphide | Daily | None specified | manufacturer's recommendations | | | |
| | Pressure | Continuous | None specified | | | | |

| Table S3.3 Process monitoring requirements | | | | |
|---|---|--|--|---|
| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| Digestate batch | Volatile fatty acids concentration Ammonia | One sample at the end of each batch (hydraulic retention time) cycle. | As described in site operating techniques | |
| Digester(s) and storage tank(s) | Integrity checks | Weekly | Visual assessment | In accordance with design specification and tank integrity checks. |
| Digester(s) | Agitation /mixing | Continuous | Systems controls | Records maintained in daily operational records. |
| | Tank capacity and sediment assessment | Once every 5 years from date of commission | Non- destructive pressure testing integrity assessment every 5 years or as specified by manufacturers technical specification. | In accordance with design specification and tank integrity checks. |
| Waste reception building or area; Digester(s) and storage tank(s) | Odour | Daily | Olfactory monitoring | Odour detection at the site boundary. |
| Diffuse emissions from all sources identified in the Leak Detection and Repair (LDAR) programme | VOCs including methane | Every 6 months or otherwise agreed in accordance with the LDAR programme | BS EN 15446 In accordance with the LDAR programme | Monitoring points as specified in a DSEAR risk assessment and LDAR programme. Limit as agreed with the Environment Agency as a percentage of the overall gas production. |
| Engine stacks | VOCs including methane | Annually | BS EN 12619 | Total annual VOCs emissions from the CHP engine(s) to be calculated and |

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|---|---|----------------------|--|---|
| | | | | submitted to the Environment Agency. |
| | Exhaust gas temperature | | Traceable to National Standards | |
| | Exhaust gas pressure | | Traceable to National Standards | |
| | Exhaust gas water vapour content | | BS EN 14790- 1 | Unless gas is dried before analysis of emissions. |
| | Exhaust gas oxygen | | BS EN 14789 | |
| | Exhaust gas flow | | BS EN 16911- 1 | |
| Meteorological conditions | Wind speed, air temperature, wind direction | Continuous | Method as specified in management system | Conditions to be recorded in operational diary and records. Equipment shall be calibrated on a 4 monthly basis, in accordance with manufacturer's recommendations or as agreed in writing by the Environment Agency. |
| Emergency flare | Operating hours | Continuous | Recorded duration and frequency. Recording using a | Date, time and duration of use of auxiliary flare shall be recorded. |
| | Quantity of gas sent to emergency flare | | SCADA system or similar system | Quantity can be estimated from gas flow composition, heat content, ratio of assistance, velocity, purge gas flow rate, pollutant emissions. |
| Pressure relief valves and vacuum systems | Gas pressure | Continuous | Recording using a | Continuous gas pressure shall be monitored. |

| Table S3.3 Process m | Table S3.3 Process monitoring requirements | | | |
|---|---|--|---|--|
| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| | | | SCADA system | |
| | Re-seating | Weekly inspection | Visual | Operator must ensure that valves are reseated after release in accordance with the manufacturer's design. |
| | Inspection, maintenance, calibration, repair and validation | Following foaming or overtopping or at 3 yearly intervals whichever is sooner | Written scheme of examination in accordance with condition 1.1.1 | After a foaming event or sticking, build-up of debris, obstructions or damage, operator must ensure that pressure relief valve function remains within designed gas pressure in accordance with the manufacturer's design by suitably trained and qualified personnel. |
| | Inspection, calibration and validation report | In accordance with design and construction specifications or after over topping or foaming event | Written scheme of examination in accordance with condition 1.1.1 | Operator must ensure that valves are reseated after release, after a foaming event or sticking, build-up of debris, obstructions or damage. Operator must ensure that PRV function remains within designed operation gas pressure in accordance with the |
| | | | | manufacturer's design by suitably trained/qualified personnel. Inspection, calibration and validation report. In accordance with industry Approved Code of Practice |

| Table S3.3 Process monitoring requirements | | | | |
|---|---|---|--|---|
| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| storage tanks | Volume | Daily | Visual or flow metre measurement | Records of volume must be maintained. |
| Odour abatement pla | int | | | |
| Biofilter 1 | | | | |
| Biofilter 1 | Biofilter media moisture | Daily | Moisture meter, Grab test, oven drying or recognised industry method | Odour abatement plant shall be regularly checked and maintained to ensure appropriate temperature and moisture content. |
| | Thatching /compaction | Weekly | Back pressure | Odour abatement plant shall be managed in |
| | Gas flow rate – inlet and outlet | Continuous | Gas flow meter / EN 16911-1 and MID for EN 16911-1 | accordance with permicondition 3.3, the odour management plan and |
| | pH (biofilter drainage effluent) | Daily | pH metre or litmus paper | manufacturer's recommendations. |
| | Efficiency assessment | Annual | Media health, air-flow distribution and emission removal efficiency (BS EN 13725 for odour removal) | Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency. |
| | Hydrogen sulphide – inlet and outlet gas stream | Every 6 months or as agreed in writing by the Environment Agency. | CEN TS 13649 for sampling NIOSH 6013 for analysis | |
| | Ammonia – inlet | Every 6 months or as agreed in writing by the | EN ISO 21877 | Action levels to be agreed on completion of IC12 as approved in |

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|---|--|--|-------------------------------------|--|
| | | Environment Agency. | | writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan. |
| | Odour concentration – inlet and outlet gas stream | Every 6 months or as agreed in writing by the Environment Agency. | BS EN 13725 | Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan. |
| | Odour concentration – inlet and outlet gas stream | Every 6 months or as agreed in writing by the Environment Agency. | BS EN 13725 | Action levels to be agreed on completion of IC12 as approved in writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan. |

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 | Table S4.1 Reporting of monitoring data | | | |
|--|---|---|----------------------|--|
| Parameter | Emission or monitoring point/reference | Reporting period | Period begins | |
| Emissions to air from engines Parameters as required by condition 3.5.1. | A1, A2 | Every 12 months | 1 January | |
| Emissions to air from odour abatement plant Parameters as required by condition 3.5.1. | A4 | Every 6 months | 1 January, 1 July | |
| Process monitoring – digester tank integrity Parameters as required by condition 3.5.1 | As specified in schedule 3 table S3.3 | Every 5 years from the date of commissioning or as per the manufacturer's recommendation, whichever is sooner | 1 January | |
| Process monitoring – under and over pressure relief systems Parameters as required by condition 3.5.1 | As specified in schedule 3 table S3.3 | Every 12 months Yearly summary report of over-pressure and under-pressure events detailing mass balance release | 1 January | |
| Process monitoring – leak detection and repair (inspection, calibration and maintenance) Parameters as required by condition 3.5.1 | As specified in schedule 3 table S3.3 | Every 3 years | 1 January | |
| Process monitoring – use of emergency flare Parameters as required by condition 3.5.1 | As specified in schedule 3 table S3.3 | Every 12 months | 1 January | |
| Non-compostable contamination removal efficiency Parameters as required by conditions 2.3.4 and 2.3.7 | | Every 12 months Yearly report of detailing contamination removal efficiency and progress with plastic reduction contamination | 1 January | |
| Total annual VOCs emissions from gas engines (calculated) | As specified in schedule 3 table S3.3 | Every 12 months | 1 January | |

| Table S4.2 Annual production/treatment | | |
|--|--------------------------|--|
| Parameter | Units | |
| Electricity generated | MWh | |
| Biomethane generated | tonnes or m ³ | |
| Liquid digestate | tonnes or m ³ | |
| Solid digestate | tonnes | |
| Whole digestate | tonnes | |
| Recovered outputs | tonnes | |

| Table S4.3 Performance parameters | | | |
|-----------------------------------|-------------------------|--------------------------|--|
| Parameter | Frequency of assessment | Units | |
| Water usage | Annually | tonnes or m ³ | |
| Energy usage | Annually | MWh | |
| Raw material usage | Annually | tonnes or m ³ | |
| Emergency flare operation | Annually | hours | |
| Electricity exported | Annually | MWh | |
| Biomethane exported | Annually | tonnes or m ³ | |
| Auxiliary boiler usage | Annually | hours | |

| Table S4.4 Reporting forms | | | |
|------------------------------|--|--------------|--|
| Media/parameter | Reporting format | Date of form | |
| Air | Form air 1 or other form as agreed in writing by the Environment Agency | 24/03/2023 | |
| Process monitoring | Form process 1 or other form as agreed in writing by the Environment Agency | 24/03/2023 | |
| Water usage | Form water usage 1 or other form as agreed in writing by the Environment Agency | 24/03/2023 | |
| Energy usage | Form energy 1 or other form as agreed in writing by the Environment Agency | 24/03/2023 | |
| Other performance indicators | Form performance 1 or other form as agreed in writing by the Environment Agency | 24/03/2023 | |
| Waste returns | E-waste Return Form or other form as 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 | |
| | |
| | any malfunction, breakdown or failure of equipment or techniques, nce not controlled by an emission limit which has caused, is 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 t | he breach of a limit |
| To be notified within 24 hours of | detection unless otherwise specified below |
| Emission point reference/ source | |

Parameter(s)

Measured value and uncertainty

Date and time of monitoring

Limit

| (b) Notification requirements for the breach of a li | imit |
|--|--|
| To be notified within 24 hours of detection unless | s otherwise specified below |
| Measures taken, or intended to be taken, to stop the emission | |
| Time periods for natification following detection | of a broach of a limit |
| Time periods for notification following detection of Parameter | Notification period |
| raiametei | Notification period |
| | |
| | |
| | |
| (c) 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 soo | n 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.

"ADQP" means Anaerobic Digestion Quality Protocol

"anaerobic digestion" means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobes and facultative anaerobe bacteria species, which convert the inputs to a methanerich biogas and whole digestate.

"animal waste" means any waste consisting of animal matter that has not been processed into food for human consumption.

"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.

"Best available techniques" means the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing the basis for emission limit values and other permit conditions designed to prevent and, where that is not practicable, to reduce emissions and the impact on the environment as a whole:

- (a) 'techniques' includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned;
- (b) 'available techniques' means those developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the costs and advantages, whether or not the techniques are used or produced inside the Member State in question, as long as they are reasonably accessible to the operator;
- (c) 'best' means most effective in achieving a high general level of protection of the environment as a whole.

"Biodegradable" means a material is capable of undergoing biological anaerobic or aerobic degradation leading to the production of CO₂, H₂O, methane, biomass, and mineral salts, depending on the environmental conditions of the process.

"building" means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

"Capacity" means the potential capacity and not historical or actual production levels or throughput. This means that the designed capacity is the maximum rate at which the site can operate. Biological treatment of waste usually takes place over more than one day, so the physical daily capacity can be calculated by dividing the maximum quantity of waste that could be subject to biological treatment at any one time by the minimum residence time. For in-vessel composting, the residence time for sanitisation should be calculated separately and then aggregated to the complete composting time. Further guidance 'RGN2: Understanding the meaning of regulated facility Definition of regulated facility' is available.

"channelled emissions" means the emissions of pollutants into the environment through any kind of duct, pipe, stack, etc. This also includes emissions from open top biofilters.

"combined heat and power" (CHP) or Cogeneration means the simultaneous generation in one process of thermal energy and electrical or mechanical energy.

"competent persons and resources" means that a technically competent person accredited to a relevant scheme must attend site and record their attendance, and that all roles and responsibilities are clearly stated in the management systems along with records of operatives' training. See the guidance on the <u>level of competence and duration of attendance</u>

"compost" means solid particulate material that is the result of composting, which has been sanitised and stabilised, and which confers beneficial effects when added to soil, used as a component of growing media or used in another way in conjunction with plants.

'compostable plastics' means waste containing packaging or non-packaging items (or both) with a valid certificate of conformity to EN 13432 or an equivalent standard for compostable and digestible items, the certificate issued by an independent certification body capable of fully biodegrading by a biological process to create compost or digest.

"composting" means the managed biological decomposition of biodegradable waste organic materials, under conditions that are predominantly aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat and that result in compost.

"composting batch" means an identifiable quantity of material that progresses through the composting system and when fully processed has similar characteristics throughout. For composting systems that operate on a continuous- or plug-flow basis, batches will be taken to mean a series of "portions of production".

'direct discharge' means discharge to a receiving water body

"diffuse emissions" mean non-channelled emissions (e.g. of dust, organic compounds, odour) which can result in 'area' sources (e.g. tanks) or 'point' sources (e.g. pipe flanges). This also includes emissions from open-air windrow composting.

"digestate" means material resulting from an anaerobic digestion process.

"disposal" means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"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 schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

"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.

"existing medium combustion plant" means an MCP which was put into operation before 20 December 2018.

"generator" means any combustion plant which is used to generate electricity, excluding mobile, unless it is connected to the national grid.

"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.

"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.

"Leak detection and repair (LDAR) programme" means a structured approach to reduce fugitive emissions of organic compounds by detection and subsequent repair or replacement of leaking components. Currently, sniffing (described by EN 15446) and optical gas imaging methods are available for the identification of leaks as set out in BAT 14 and section 6.6.2 of the Waste Treatment BAT Conclusions.

"maturation" means optional period of treatment or storage of separated fibre digestate under predominantly aerobic conditions.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"medium combustion plant" or "MCP" means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

"Medium Combustion Plant Directive" or "MCPD" means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

"new medium combustion plant" means an MCP which was put into operation after 20 December 2018. This includes replacement MCP and Generators.

"operational area" means any part of a facility used for the handling, storing and treatment of waste.

"operator" means in relation to a regulated facility:

- a) the person who has control over the operation of the regulated facility,
- b) if the regulated facility has not yet been put into operation, the person who will have control over the regulated facility when it is put into operation, or
- c) if a regulated facility authorised by an environmental permit ceases to be in operation, the person who holds the environmental permit

"pests" means Birds, Vermin and Insects.

"pollution" means emissions as a result of human activity which may—

- (a) be harmful to human health or the quality of the environment,
- (b) cause offence to a human sense,
- (c) result in damage to material property, or
- (d) impair or interfere with amenities and other legitimate uses of the environment.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October. "recovery" means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Representative internal" – means representative monitoring at a point internally of the windrows that will give a representative assessment of temperature. Note: Larger windrows will require more bespoke temperature equipment to adequate assess temperature profiles accurately.

"sanitisation" means the actively managed and intensive stage of composting, lasting for at least 5 days, characterised by high oxygen demand and temperatures of over 55°C, during which biological processes, together with conditions in the composting mass, eradicate human and animal pathogens or reduce them to acceptably low levels. The operator also needs to meet ABPR requirements.

"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:

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

"specified generator" means a group of generators other than excluded between 1 and 50 megawatts or less than 50 megawatts as defined in Schedule 25B(2) of SI 2018 No.110 of the EPR.

"stable, stabilised" means the degree of processing and biodegradation at which the rate of biological activity has slowed to an acceptably low and consistent level and will not significantly increase under favourable, altered conditions.

"stabilisation stage" means the stage of composting following sanitisation, during which biological conditions in the composting mass, give rise to compost that is nominally stable.

"treated wood" means any wood that has been chemically treated (e.g. to enhance or alter the performance of the original wood). Treatments may include penetrating oils, tar oil preservatives, water-borne

preservatives, organic-based preservatives, boron and organo-metallic based preservatives, boron and halogenated flame retardants and surface treatments (including paint and venner).

"VOC" means Volatile organic compounds as defined in Article 3(45) of Directive 2010/75/EU – 'volatile organic compound' means any organic compound as well as the fraction of creosote, having at 293.15K a vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.

"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes (England)Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, 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.

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:

- a) 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 fuels and gaseous fuels, 6% dry for solid fuels; and/or
- b) 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.

"year" means calendar year ending 31 December.

Schedule 7 – Site plan



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Annex 1 of MCP

| Rated thermal input (MW) of the medium combustion plant. | Engine 1 – 1.835 MWth |
|--|---|
| 1. Nated thermal input (MW) of the medium combustion plant. | |
| | Engine 2 – 1.835 MWth |
| 2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant). | Gas engine |
| 3. Type and share of fuels used according to the fuel categories laid down in Annex II. | Biogas |
| 4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018. | Existing - 2003 |
| 5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code. | 35.11 |
| 6. Expected number of annual operating hours of the medium combustion plant and average load in use. | 8760 |
| 7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs. | NA |
| 8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant | Biffa Leicester Limited ("the operator") whose registered office is |
| is located. | Coronation Road Cressex Business Park High Wycombe Buckinghamshire HP12 3TZ |
| | Wanlip Composting & Anaerobic Digestion Facility: |
| | Fillingate Wanlip Leicester LE7 4PF |

END OF PERMIT