

Notice of partial surrender, variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Bioganix Ltd

Bioganix (Bonby) Food Waste Handling Facility
Bonby Lane
Bonby
Brigg
DN20 0PJ

Surrender and Variation application numbers

EPR/FP3092NC/S009 and EPR/FP3092NC/V010

Permit number

EPR/FP3092NC

Bioganix (Bonby) Food Waste Handling Facility

Permit number EPR/FP3092NC

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.

The following notice also gives notice of the surrender in part of an environmental permit. As a result of the changes made under the partial surrender (to remove an area of land within the site boundary), the site plan in Schedule 7 has been updated.

The variation authorises:

- The addition of a scheduled activity for the recycling of animal wastes above ten tonnes per day – Section 6.8 A(1)(c);
- The addition of a waste operation for the physical treatment of non-animal by-product wastes;
- The removal of biological treatment of wastes via composting and thermophilic aerobic digestion (waste operation);
- The extension of the site boundary to the east and west of the current boundary; and
- The addition of waste streams and boiler

As a result of these changes, the facility will become a bespoke Installation regulated under Section 6.8 A(1)(c) of the Environmental Permitting Regulations 2016 and a waste operation.

The main features of the permit are as follows:

The facility is located within a rural area, approximately 1.6 km east of the village of Bonby, Lincolnshire and is bounded to the north by an anaerobic digestion facility, to the west and east by agricultural fields and to the south by Bonby Lane and further arable fields beyond this.

The facility will process up to 75,000 tonnes per annum of biodegradable wastes from food preparation facilities consisting of both animal by-products (ABP) waste and non-animal by-products waste. Once weighed and all documentation is verified, ABP waste will be directed to the reception building or to the grinding shed. Wastes will be de-packaged and treated to reduce their particle size in the reception building. The wastes will be conditioned with liquids and dispatched off-site as feedstock for anaerobic digestion. The operator will transfer feedstock to the adjacent anaerobic digestion facility (Brigg Lane Biogas AD facility) via tanker and/or a dedicated pipeline.

The grinding shed will be used for particle size reduction of waste chicken parts. Following size reduction, the chicken parts will be conditioned with water and processed through a centrifuge to extract oils. The recovered oils will be stored temporarily on site prior to despatch off-site for recovery (manufacture of biodiesel). The remaining waste biomass will be mixed with other wastes and despatched off-site as feedstock for anaerobic digestion.

Non-ABP liquid waste will be de-packaged and processed in an enclosed de-packaging building. The processed liquids will be mixed with dry bulk materials, or used to condition the ABP wastes and then despatched off-site as feedstock for anaerobic digestion. As a back-up position, some liquid wastes may be

removed from site for landspreading if waste imports give rise to an imbalance of materials. This environmental permit does not authorise the spreading of waste on any land.

Main releases to air will be odour emissions from the processing of waste, odour abatement and emissions from the combustion of fuel via a boiler. Air from the main process building is extracted and channelled through a biofilter. There will be no discharge of effluent to controlled waters or to land. Site surface water will be transferred to a sump and then removed from site.

There is one internationally designated ecological site within 10 km of the Installation (Humber Estuary). Five local wildlife sites are located within 2 km of the Installation. Assessment by the Environment Agency shows that emissions from the Installation are unlikely to have an adverse impact on interest features of the ecological sites.

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
Permit EAWML 73210	17/11/05	Permit issued to Bio Waste Solutions Limited.
Variation EPR/FP3092NC/V002	Received 05/07/10	Application returned.
Variation EPR/FP3092NC/V003	31/01/11	Variation to increase permitted site area, add additional waste codes and remove a permit condition.
Variation EPR/FP3092NC/V004	22/08/13	Application returned.
Variation EPR/FP3092NC/V005	09/04/14	Variation to add waste code EWC 16 10 02 to list of permitted wastes.
Variation EPR/FP3092NC/V006	Duly made 14/12/15	Variation to add waste code EWC 07 07 12 to list of permitted wastes.
Variation determined EPR/FP3092NC/V006	24/12/15	Varied permit issued to Bio Waste Solutions Limited.
Variation EPR/FP3092NC/V007	Duly made 14/03/17	Variation to change company name and facility name.
Variation determined EPR/FP3092NC	27/03/17	Varied permit issued to Bioganix Ltd.
Variation EPR/FP3092NC/V008	17/11/17	Application returned.
Part surrender application EPR/FP3092NC/S009	Duly made 29/03/18	Application to surrender part of the permitted area.
Application EPR/FP3092NC/V010 (variation and consolidation)	Duly made 06/06/18	Application to add a scheduled activity and a bespoke waste operation, removal of existing biological treatment waste operation and varying of the permit to modern conditions.
Additional information received	15/06/18	Change of facility name – Bioganix (Bonby) Food Waste Handling Facility.
Additional information received	18/06/18	Air quality modelling files.
Additional information received	30/07/18	Response #1 to information notice dated 06/07/18.
Additional information received	31/07/18	Removal of proposed building (Solid 1) from variation application (V010).
Additional information received	10/08/18	Response #2 to information notice dated 06/07/18.

Status log of the permit		
Description	Date	Comments
Additional information received	12/09/18	Clarification of aspects of the application – list of wastes, activities on site, odour management and secondary containment.
Additional information received	02/10/18	Revised site plan.
Additional information received	04/10/18	By-products status report.
Additional information received	08/11/18	Updated site plan.
Part surrender and variation determined EPR/FP3092NC (Billing ref: QP3137JB /73210)	09/11/18	Varied and consolidated permit issued.

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
Brigg Lane Biogas Limited	EPR/WP3530JB	26/06/18

End of introductory note

Notice of partial surrender, variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 and regulation 25 of the Environmental Permitting (England and Wales) Regulations 2016 accepts the surrender in part, varies and consolidates

Permit number

EPR/FP3092NC

Issued to

Bioganix Ltd (“the operator”)

whose registered office is

**Bonby Lane
Bonby
Brigg
North Lincolnshire
DN20 0PJ**

company registration number 05240586

to operate a regulated facility at

**Bioganix (Bonby) Food Waste Handling Facility
Bonby Lane
Bonby
Brigg
DN20 0PJ**

to the extent set out in the schedules.

The notice shall take effect from 09/11/2018.

Name	Date
David Griffiths	09/11/2018

Authorised on behalf of the Environment Agency

Schedule 1

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

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/FP3092NC

This is the consolidated permit referred to in the partial surrender, variation and consolidation notice for application EPR/FP3092NC/S009 and EPR/FP3092NC/V010 authorising,

Bioganix Ltd (“the operator”),

whose registered office is

**Bonby Lane
Bonby
Brigg
North Lincolnshire
DN20 0PJ**

company registration number 05240586

to operate an installation and waste operation at

**Bioganix (Bonby) Food Waste Handling Facility
Bonby Lane
Bonby
Brigg
DN20 0PJ**

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

Name	Date
David Griffiths	09/11/2018

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

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

1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 AR1 to AR9, the operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 AR1 to AR9, 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 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

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

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.2 and S2.3; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

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

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

2.5 Pre-operational conditions

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.4 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 Bioaerosols

3.5.1 The operator shall take all appropriate measures, to prevent or where that is not practicable to minimise the release of bioaerosols. Emissions of bioaerosols from the operational activities shall not exceed the emission threshold limits specified in table S3.3.

3.5.2 The operator shall where the emission threshold limits are exceeded:

- (a) notify the Environment Agency and investigate and take remedial action;
- (b) submit to the Environment Agency for approval within the period specified, a bioaerosols management plan which identifies and minimises the risks of pollution from bioaerosols; and
- (c) implement the bioaerosols management plan from the date of approval and revise the plan periodically, unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

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

3.6.2 The operator shall:

- (a) 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;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Monitoring

3.7.1 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 table S3.1;
- (b) process monitoring specified in table S3.2;
- (c) bioaerosols monitoring specified in table S3.3.

3.7.2 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.

3.7.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.7.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

- 3.7.4 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 table S3.1 unless otherwise agreed in writing by the Environment Agency.

3.8 Fire prevention

- 3.8.1 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.

4 Information

4.1 Records

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

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 For the following activities referenced in schedule 1, table S1.1 AR1 to AR9, a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the annual production/treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 For the following activities referenced in schedule 1, table S1.1 AR1 to AR9, 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 For the following activities referenced in schedule 1, table S1.1 AR10, the Environment Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.5 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.
- 4.3.6 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.

4.3.7 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.

4.3.8 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 For the following activities referenced in schedule 1, table S1.1 AR1 to AR9, 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.

4.4.3 For the following activities referenced in schedule 1, table S1.1 AR10, in this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S6.8 A(1) (c) Disposing of or recycling animal carcasses or animal waste, other than by rendering in a small waste incineration plant, at a plant with a treatment capacity exceeding 10 tonnes per day of animal carcasses or animal waste or both in aggregate.	R3: Recycling/reclamation of organic substances which are not used as solvents	<p>From receipt of permitted wastes, mixing or blending with other wastes and physical treatment to transfer of resultant liquid wastes and recovered waste oil off-site for recovery.</p> <p>Physical treatment of wastes to include extraction of oil from waste chicken parts.</p> <p>Receipt and treatment of wastes shall be carried out on an impermeable surface with a sealed drainage system.</p> <p>The biological treatment of wastes (under aerobic and/or anaerobic conditions) is not permitted.</p> <p>Waste types suitable for acceptance are limited to those specified in Tables S2.2 and S2.3.</p>
Directly Associated Activity			
AR2	Storage of waste pending recovery	R13: Storage of waste pending the R3 operation (excluding temporary storage, pending collection, on the site where it is produced)	<p>From the receipt of permitted wastes to pre-treatment and despatch off-site.</p> <p>Storage of wastes in sealed tanks and enclosed buildings fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system.</p> <p>Waste types suitable for acceptance are limited to those specified in Tables S2.2 and S2.3.</p>

AR3	Physical treatment for the purpose of recycling	R3: Recycling/reclamation of organic substances which are not used as solvents	<p>From the receipt of waste to despatch off-site for recovery.</p> <p>Pre-treatment of wastes in enclosed buildings and on an impermeable surface with sealed a drainage system including de-packaging, shredding, sorting, screening, compaction, baling, mixing, blending and maceration.</p> <p>Waste types suitable for acceptance are limited to those specified in Tables S2.2 and S2.3.</p>
AR4	Steam production	Raising of steam for oil recovery system	Combustion of fuel in one boiler with a thermal input of 2.03 MWth.
AR5	Raw material storage	Storage of raw materials including kerosene, hydraulic oil, gas oil, disinfectants, water treatment chemicals, grease remover.	From the receipt of raw materials to despatch for use within the facility.
AR6	Recovered oil 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)	<p>From the receipt of recovered waste oil derived from physical treatment of food waste at the facility to despatch for recovery off-site.</p> <p>Storage of recovered waste oil in tanks provided with secondary containment and on an impermeable surface.</p>
AR7	Surface water collection and storage	Collection and storage of site surface water in sump.	From the collection of site surface water to despatch off-site for recovery or disposal.
AR8	Temporary storage prior to transfer	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	<p>From temporary storage of liquid wastes derived from physical treatment on site to despatch off-site for recovery.</p> <p>Storage of recovered waste in tanks provided with secondary containment and on an impermeable surface.</p>
AR9	Air treatment	Collection and treatment of air from the buildings via abatement system prior to release to atmosphere.	From the collection of air from site processes to treatment via biofilter and release of treated air to atmosphere.

Activity reference	Description of activities for waste operations	Limits of activities
AR10	<p><u>Physical treatment of non-animal by-products wastes</u></p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p>	<p>From receipt of permitted wastes, mixing, blending with other wastes and physical treatment to transfer of resultant liquid wastes off-site for recovery.</p> <p>Treatment operations shall be limited to physical treatment including shredding, sorting, mixing, blending and maceration for the purpose of recovery.</p> <p>The biological treatment of wastes (under aerobic and/or anaerobic conditions) is not permitted.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.3.</p>

Description	Parts	Date Received
Variation application EPR/FP3092NC/V010	HC1557-01 v.1.1 – Measures to demonstrate BAT; HC1557-02 – Supporting statement including Appendix 1 in response to Appendix 5, Part C3 of the application form. (All parts except the inclusion of Solid 1 building); Document BBLP010 Fugitive Emissions Plan; HC1557-11a v.1 Fire Prevention Plan.	Duly made 06/06/18
Response to Schedule 5 Notice dated 06/07/18	Operating techniques described in response to the Notice: Responses 2 to 8 and 10 (site operations and infrastructure); Responses 11 to 16 (secondary containment and design); Responses 18 and 19 (raw materials); and Responses 20 to 25 (odour management). Odour management plan (v.1.2)	30/07/18
Additional information	Response detailing list of wastes to be excluded, clarification of waste streams (EWC 02 06 02 and 16 03 06), permitted activities, clarifier and mixing vessel, secondary containment and odour management proposal.	12/09/18

Reference	Requirement	Date
IC 1	The operator shall submit a commissioning plan for the installation of the proposed replacement biofilter (including air extraction) for the facility. The plan shall be written to demonstrate that permit conditions will be met under all anticipated operating conditions and site odour emissions will not extend beyond the site. The operator shall also confirm the commissioning programme, details of the biofilter design specifications and monitoring protocols.	08/11/19
IC 2	The operator shall install the proposed replacement biofilter, subject to any such amendments or additions as notified by the Environment Agency.	08/05/20

Table S1.4 Pre-operational measures for future development

Reference	Operation	Pre-operational measures
POM 1	Replacement biofilter	<p>At least 8 weeks (or any other date as agreed with the Environment Agency) prior to the commissioning of the replacement biofilter, the operator shall carry out background sampling of bioaerosols upwind of the plant and submit a written report of the monitoring to the Environment Agency for approval. The sampling shall be undertaken in accordance with the Technical Guidance Note M9 – Environmental monitoring of bioaerosols at regulated facilities (January 2017).</p> <p>The operator shall obtain the Environment Agency's written approval to the report.</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel oil	Sulphur content not exceeding 0.1% by mass.

Table S2.2 Permitted waste types and quantities for recycling of animal wastes – physical treatment including oil extraction, blending and despatch off-site for recovery	
Maximum quantity	The total annual throughput of the site (Tables S2.2 and S2.3 combined) shall not exceed 75,000 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
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 02	animal tissue waste
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 02	animal tissue waste
02 02 03	materials unsuitable for consumption or processing
16	Wastes not otherwise specified in the list
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01 – oily liquids
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 08	biodegradable kitchen and canteen waste
20 01 25	edible oil and fat

Table S2.3 Permitted waste types and quantities for physical treatment, blending and despatch off-site for recovery	
Maximum quantity	The total annual throughput of the site (Tables S2.2 and S2.3 combined) shall not exceed 75,000 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
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 straw) only
02 01 07	wastes from forestry
02 01 99	residues from commercial mushroom cultivation
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
02 02 02	animal tissue waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 02 99	sludges from gelatine production, animal gut contents
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
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 03 99	sludge from production of edible fats and oils to include seasoning residues, molasses residues, residues from production of potato, corn or rice starch
02 04	wastes from sugar processing
02 04 03	sludges from on-site effluent treatment
02 04 99	other biodegradable wastes
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing

Table S2.3 Permitted waste types and quantities for physical treatment, blending and despatch off-site for recovery

Maximum quantity	The total annual throughput of the site (Tables S2.2 and S2.3 combined) shall not exceed 75,000 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	Description
02 06 02	wastes from preserving agents – vinegar only
02 06 03	sludges from on-site effluent treatment
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 04	materials unsuitable for consumption or processing
02 07 99	spent grains, hops and whisky filter sheets/cloths, yeast and yeast-like residues, sludge from production process
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 02	green liquor sludge
03 03 08	paper and cardboard – not allowed if any non biodegradable coating or preserving substance is present
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
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 01	fleshings and lime split wastes
04 01 05	tanning liquor free of chromium
04 01 07	sludges not containing chromium
04 02	wastes from the textile industry
04 02 10	organic matter from natural products, e.g. grease, wax
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging – not allowed if any non biodegradable coating or preserving substance is present. Excludes laminates such as Tetrapaks.

Table S2.3 Permitted waste types and quantities for physical treatment, blending and despatch off-site for recovery

Maximum quantity	The total annual throughput of the site (Tables S2.2 and S2.3 combined) shall not exceed 75,000 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	Description
15 01 02	biodegradable plastic packaging – must be independently certified to BS EN 13432
15 01 03	untreated wooden packaging – not allowed if any non biodegradable coating or preserving substance is present
15 01 05	composite packaging – must conform to BS EN 13432 and not allowed if any non biodegradable coating or preserving substance is present
16	Wastes not otherwise specified in the list
16 03	off-specification batches and unused products
16 03 06	organic wastes other than those mentioned in 16 03 05 – out of specification beverages including carbonated or soft drinks, tea, coffee, alcoholic beverages below the hazardous threshold.
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01 – oily liquids and liquor/leachate from a composting process that accepts waste input types listed in this table only
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 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludge types from waste listed within this table, Table S2.3, that have been heat treated only
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 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 06	wastes from anaerobic treatment of waste
19 06 03	liquor from anaerobic treatment of municipal waste
19 06 04	digestate from anaerobic treatment of source segregated biodegradable waste
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard

Table S2.3 Permitted waste types and quantities for physical treatment, blending and despatch off-site for recovery

Maximum quantity	The total annual throughput of the site (Tables S2.2 and S2.3 combined) shall not exceed 75,000 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: - consisting solely or mainly of dusts (except sawdust), powders, or loose fibres; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	Description
20 01 08	biodegradable kitchen and canteen waste
20 01 25	edible oil and fat
20 01 38	untreated wood where no non-biodegradable coating or preserving substance is present
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on site plan in schedule 7]	Boiler stack	No parameter set	No limit set	--	--	--
A2A [Point A2A on site plan in schedule 7]	Biofilter stack	No parameter set	No limit set	--	--	--
A2B [Point A2B on site plan in schedule 7]	Biofilter stack	No parameter set	No limit set	--	--	--
A3 [Point A3 on site plan in schedule 7]	Tank A	No parameter set	No limit set	--	--	--
A4 [Point A4 on site plan in schedule 7]	Tank B	No parameter set	No limit set	--	--	--
A5 [Point A5 on site plan in schedule 7]	Tank C	No parameter set	No limit set	--	--	--
A6 [Point A6 on site plan in schedule 7]	Tank 1	No parameter set	No limit set	--	--	--
A7 [Point A7 on site plan in schedule 7]	Tank 2	No parameter set	No limit set	--	--	--
A8 [Point A8 on site plan in schedule 7]	Tank 5	No parameter set	No limit set	--	--	--
V1 [Point V1 on site plan in schedule 7]	Kerosene tank	No parameter set	No limit set	--	--	--
V2 [Point V2 on site plan in schedule 7]	Gas oil tank	No parameter set	No limit set	--	--	--
V3 [Point V3 on site plan in schedule 7]	Tank 4	No parameter set	No limit set	--	--	--
V4 [Point V4 on site plan in schedule 7]	Tank 3	No parameter set	No limit set	--	--	--

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Waste reception buildings and all storage tanks	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.
All storage tanks	Integrity checks	Weekly	Visual assessment	--
Biofilter (existing and replacement)	Temperature	As required	Temperature probe	Biofilter shall be regularly checked and maintained to ensure appropriate temperature and moisture content.
	Moisture	As required	None specified	
	Thatching/compaction	As required	None specified	

Location or description of point of measurement	Parameter	Bioaerosols threshold limits (CFU m⁻³)	Monitoring frequency	Monitoring standard or method	Other specifications
Upwind of the operational area, as described in the Technical Guidance Note M9	Total bacteria	1000 ^{Note 1}	Quarterly for the first year of operation and twice a year thereafter, unless another frequency is agreed in writing by the Environment Agency	In accordance with Technical Guidance Note M9 – Environmental monitoring of bioaerosols at regulated facilities.	As described in the Technical Guidance Note M9, including all the additional data requirements specified therein.
Downwind of the operational area, as described in the Technical Guidance Note M9	Aspergillus Fumigatus	500 ^{Note 1}			
Note 1 – The bioaerosols threshold limits are only applicable at downwind sampling locations.					

Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Bioaerosols monitoring Parameters as required by condition 3.7.1	As specified in schedule 3 table S3.3	Every 3 months or as agreed in writing by the Environment Agency	1 January, 1 April, 1 July, 1 October

Parameter	Units
Waste feedstock transferred off-site	Tonnes or m ³
Recovered waste oil	Tonnes or m ³

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Raw material usage	Annually	Tonnes or m ³
Boiler usage	Annually	Hours

Media/parameter	Reporting format	Date of form
Bioaerosols	As specified in the Technical Guidance Note M9 or other form as agreed in writing by the Environment Agency	09/11/18
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	09/11/18
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	09/11/18
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	09/11/18
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	

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

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

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

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

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

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

“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 methane-rich 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.

“bioaerosols threshold limits” means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the biowaste treatment operations, which are attributable to the biowaste treatment operations. The maximum acceptable concentrations are respectively 1000 and 500 CFU m⁻³ for total bacteria and *Aspergillus fumigatus*.

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

“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.

“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

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

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

“pests” means Birds, Vermin and Insects.

“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.

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

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

“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 veneer).

“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.

“year” means calendar year ending 31 December.

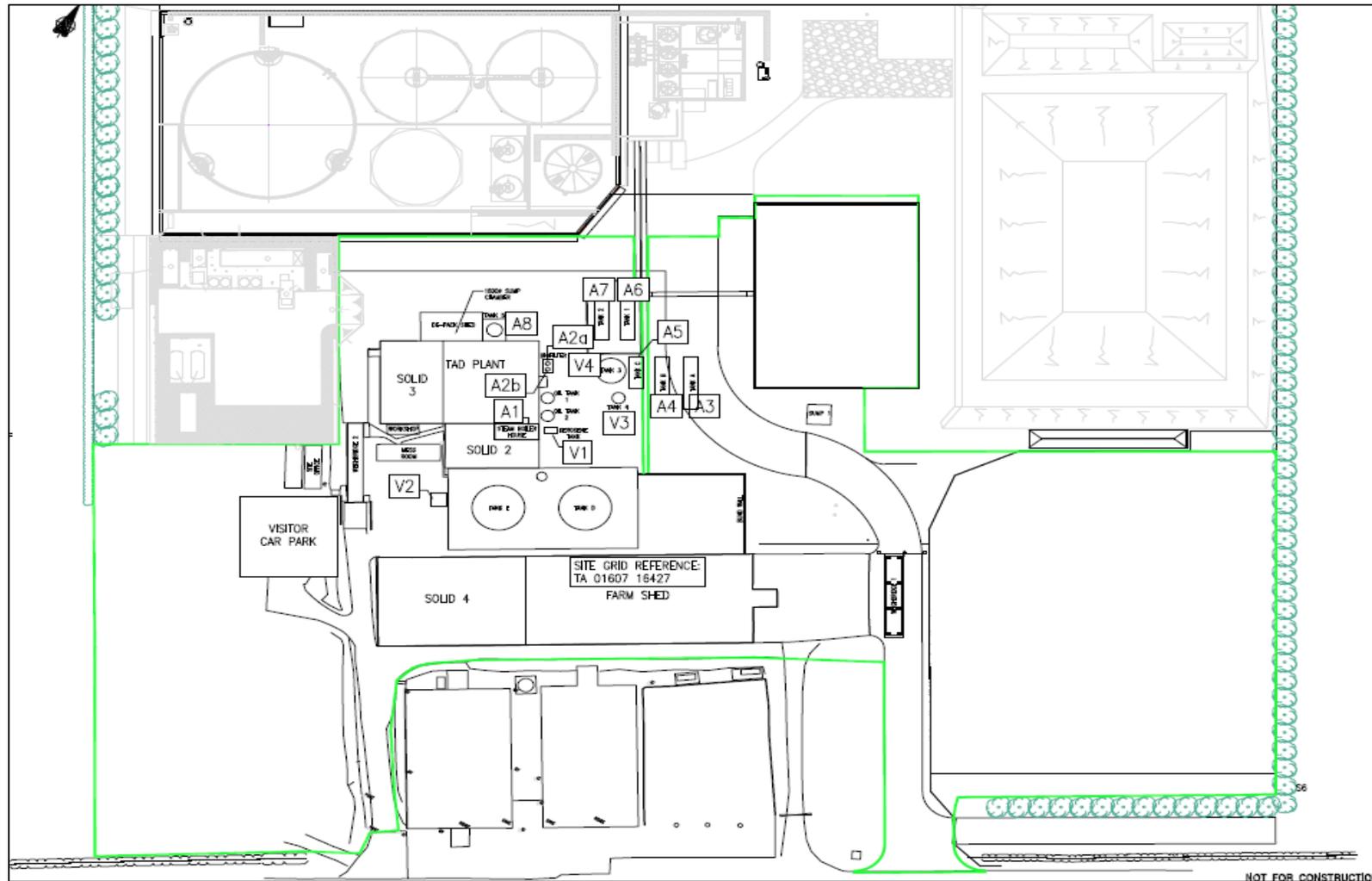
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

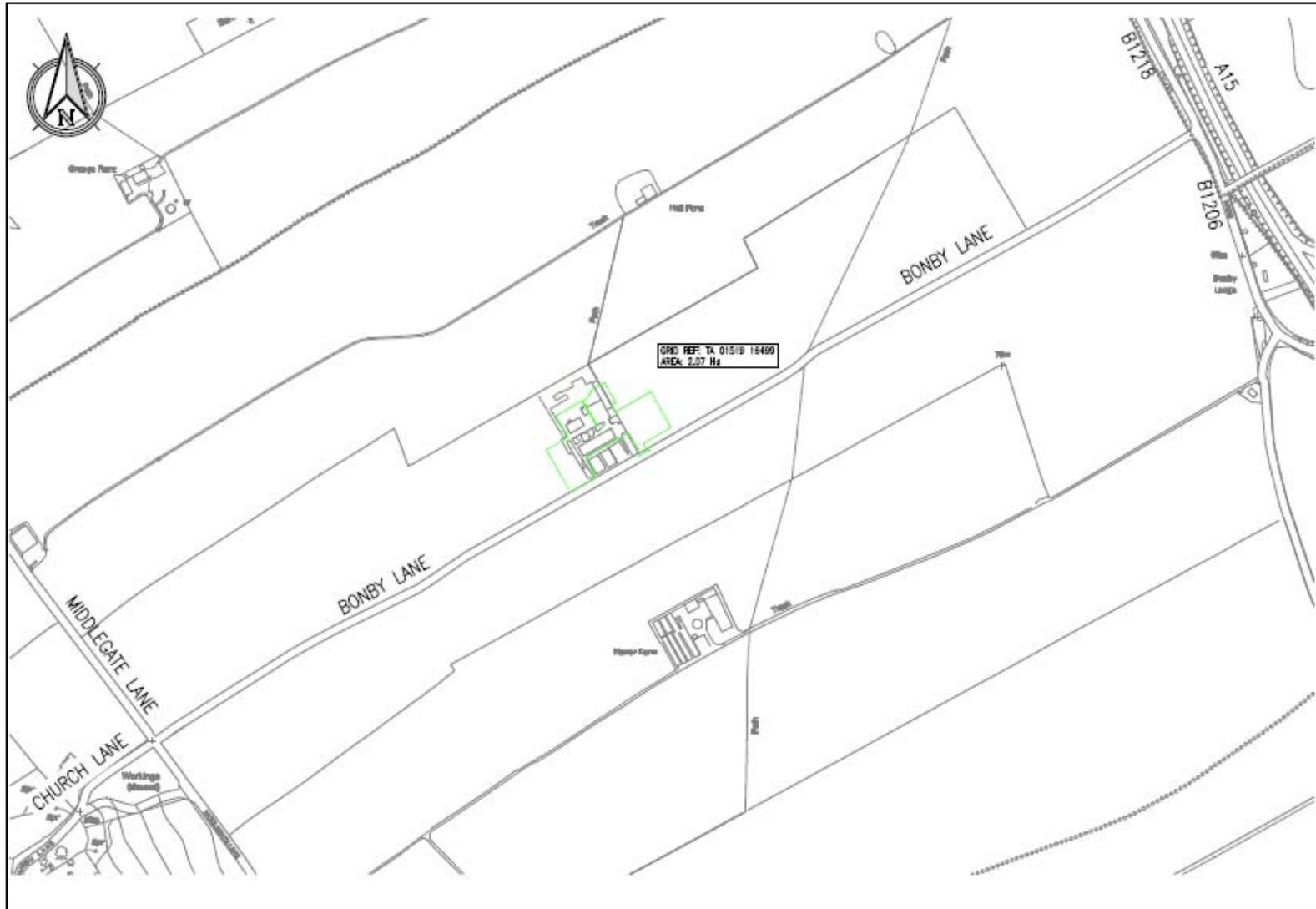
- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid fuels, 5% for gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7 – Site plan

Site plan



Site location plan



END OF PERMIT

Permit number
EPR/FP3092NC