

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

TJ Composting Services Limited

Swanley Recycling Centre
Cookham Road
Swanley
Kent
BR8 7QP

Variation application number

EPR/ZP3995HS/V006

Permit number

EPR/ZP3995HS

Swanley Recycling Centre

Permit number EPR/ZP3995HS

Introductory note

This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2010 (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 Industrial Emissions Directive (IED) was transposed in England and Wales by the Environmental Permitting (England and Wales)(Amendment) Regulations 2013 on 27 February 2013. This variation implements the changes brought about by the IED for “existing facilities operating newly prescribed activities” and completes the transition of this facility from a waste operation to an IED Installation.

The activities at the Swanley Recycling Centre include the biological treatment process of open windrow composting of non-hazardous biodegradable waste and associated physical pre-treatment such as shredding and screening. Furthermore, the site temporarily stores waste prior to treatment, and it stores the compost it produces prior to transfer off-site. The operating techniques are in accordance with the operators Integrated Management System.

This variation increases the quantity of waste stored at the site from 5,000 tonnes to 7,100 tonnes at any one time (prior to composting, composted and stored for maturation). However, pre-operational conditions are included requiring prior written permission from the Environment Agency before the quantity of waste stored can be increased. This variation does not increase the total annual tonnage accepted onto site.

The site is within a Source Protection Zone 2 and within 250m of the nearest sensitive receptor, therefore bioaerosol monitoring will be required as detailed in Table S3.2. The monitoring frequency given in Table S3.2 may be reduced to twice a year after the first year of operation if agreed in writing by the Environment Agency.

The operator also holds a standard rules permit (SR2008 No.2) for the site permitting the transfer of up to 5,000 tonnes per annum. A pre-operational condition is included requiring prior written permission from the Environment Agency before household, commercial and industrial waste can be accepted at the facility for transfer.

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 determined EAWML10086	26/07/2004	
Permit modified EAWML10086	18/04/2008	Total quantity of waste accepted increase to 28,500 tonnes per year.
Application EPR/ZP3995HS/V003	Duly made 26/11/2010	Variation for the addition of SR2008 No.2
Variation EPR/ZP3995HS/V003	Issued 21/12/2010	
Variation EPR/ZP399HS/V004	Received	Withdrawn

Status log of the permit		
Description	Date	Comments
	02/07/2013	
Variation EPR/ZP3995HS/V005	Received 20/11/2013	Withdrawn
Application EPR/ZP3995HS/V006	Duly made 18/08/2015	Application to vary and update the permit to modern conditions.
Variation EPR/ZP3995HS/V006 (Billing Ref: RP3732WW)	30/06/2016	Varied and consolidated permit issued in modern condition format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/ZP3995HS

Issued to

TJ Composting Services Limited ("the operator")

whose registered office is

**3rd Floor, 150 Waterloo Road,
London
SE1 8SB**

company registration number 04114620

to operate a regulated facility at

**Swanley Recycling Centre
Cookham Road
Swanley
Kent
BR8 7QP**

to the extent set out in the schedules.

The notice shall take effect from 30/06/2016

Name	Date
Claire Roberts	30/06/2016

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 2010

Permit number

EPR/ZP3995HS

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/ZP3995HS/V005 authorising,

TJ Composting Services Limited (“the operator”),

whose registered office is

**3rd Floor, 150 Waterloo Road,
London
SE1 8SB**

company registration number 04114620

to operate an installation at

**Swanley Recycling Centre
Cookham Road
Swanley
Kent
BR8 7QP**

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

Under regulation 27(2) of the Regulations, standard rules SR2008 No.2 are conditions of this permit.

Name	Date
Claire Roberts	30/06/2016

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 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”).

2.2 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.
- 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 activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.
- 2.5.2 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 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 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) process monitoring specified in table S3.1;
 - (b) bioaerosols monitoring specified in table S3.2
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

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

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

4 Information

4.1 Records

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

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

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

4.2 Reporting

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

4.2.2 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.

4.4 Notifications

4.4.1 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.

4.4.2 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.

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

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

Where the operator is a registered company:

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

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

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

In any other case:

- (e) the death of any of the named operators (where the operator consists of more than one named individual);
- (f) any change in the operator's name(s) or address(es); and
- (g) 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.

4.4.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

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

4.5 Interpretation

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

4.5.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	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 involving biological treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents	<p>From receipt of waste through to composting and recovery of by-products.</p> <p>Composting of waste under aerobic conditions in outdoor turned windrows on impermeable surface with sealed drainage system.</p> <p>The maximum quantity of waste being</p> <ul style="list-style-type: none"> • Stored prior to composting (including pre-shred waste), • Composted (sanitising and stabilising waste), and • Stored for maturation (including pre-screened compost), <p>shall not exceed a total of 5,000 tonnes at any one time until such time that pre-operational conditions Pre-Op1 and Pre-Op2 in Table S1.4 have been complied with, at which point storage shall not exceed 7,100 tonnes at any one time in accordance with Pre-Op1 and Pre-Op2.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>
Directly Associated Activity			
A2 (DAA to A1)	Storage of waste pending recovery or disposal	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 waste to despatch for composting or despatch off site for recovery and/or disposal.</p> <p>The storage of waste shall be on an impermeable surface with sealed drainage.</p> <p>Waste types suitable for acceptance are limited to those specified in Table</p>

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
			S2.2. No waste shall be stored on site prior to composting for longer than 5 days. Other than during the period from 1 st November until 31 st March each year when, no waste shall be stored on site prior to composting for longer than 7 days, or if it amounts to more than 400 tonnes of unshredded waste at any one time, or it produces emissions of odours from the site that are non compliant with condition 3.3.
A3 (DAA to A1)	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 composting or despatch off site for recovery. The pre-treatment of waste including shredding and screening prior to composting shall be on an impermeable surface with sealed drainage system. The post-treatment of processed compost including screening to remove contraries shall be on an impermeable surface with sealed drainage system. Waste types suitable for acceptance are limited to those specified in Table S2.2.
A4 (DAA to A1)	Raw material storage	Storage of raw materials including lubrication oil, antifreeze.	From the receipt of raw materials to despatch for use within the facility.
A5 (DAA to A1)	Compost storage	Storage of processed compost on an impermeable surface.	From the receipt of processed compost produced at the facility to despatch for use off-site. All processed compost shall be stored on an impermeable surface with sealed drainage system
A6 (DAA to A1)	Process water collection and storage	Collection and storage of compost liquor/leachate in storage lagoon.	From the receipt of compost leachate produced at the facility to despatch off site for recovery or disposal.

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
			Leachate arising from the sanitisation of waste shall not be added to stabilising/maturing compost
A7 (DAA to A1)	Surface water collection and storage	Collection and storage of uncontaminated roof and site surface water in storage lagoon.	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.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/ZP3995HS/V006	All parts of the Swanley Operating techniques and Monitoring Plan, Odour Management Plan, and in accordance with the Integrated Safety, Health, Environment and Quality Management System submitted as part of the application document in response to section 3 – operating techniques, Part C of the application form	01/09/2015
Integrated Management System Procedures April 2014	All parts of the Integrated Management System Procedures 3.1, 3.2, 3.3, 3.4, 3.5, 3.6 and 3.7 in response for Part C3 sections 3, 4 and Appendix 5 of the application form	Received 01/09/2015
Swanley Operating Techniques and Monitoring Plan July 2015	All parts of the Swanley Operating Techniques and Monitoring Plan in response to Part C3, of the application form	Dated July 2015 Received 01/09/2015
Odour Management Plan	All Parts of Odour Management Plan	Dated 14/12/2015 Received 17/12/2015
Integrated Safety, Health, Environment and Quality Management System (SHEQMS)	In accordance with accredited SHEQMS Summary of system and accreditation certificated submitted in the application form	Date Received 01/09/2015

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	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 – <i>Guidance for the Treatment of Hazardous and Non Hazardous Waste</i> . The plan shall also incorporate all the required detailed information as specified in the Environment Agency's Horizontal Guidance H4 – <i>Odour Management</i> . The plan must contain dates for implementation of individual measures	30/09/2016

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC2	<p>The operator shall develop and submit a fire prevention plan to the Environment Agency in writing. The plan shall take into account the required information as specified in the Environment Agency's technical guidance, Fire prevention plans (version 2, dated March 2015). The appropriate measures for fire prevention shall include:</p> <ul style="list-style-type: none"> • the management of storage of feedstock, product and/or waste piles • measures to prevent, detect and contain fires; and • the management of firewaters. <p>The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the written proposals.</p> <p>The operator shall implement the procedures and measures in accordance with the Environment Agency's written approval.</p>	30/09/2016
IC3	<p>The operator shall submit a Site Specific Bioaerosol Risk Assessment (SSBRA) for approval to the Environment Agency. The risk assessment shall be undertaken in accordance with the Environment Agency's "Guidance on the evaluation of bioaerosol risk assessments for composting facilities", and any other relevant Environment Agency and industry guidance.</p> <p>The risk assessment shall include an evaluation of the control measures in place to minimise the release of bioaerosols against Best Available Techniques (BAT).</p> <p>The evaluation of control measures against BAT shall identify where improvements may be required and a proposal for the implementation of revised techniques to comply with BAT shall be included.</p> <p>The SSBRA shall include and take account of all site specific bioaerosol monitoring data that is currently available.</p> <p>The approved control measures shall form part of the Operating Techniques specified in table S1.2</p>	30/09/2016

Table S1.4 Pre-operational requirements	
Reference	Requirement
Pre-Op 1	<p>Prior to any increase of waste stored at the site above 5,000 tonnes at any one time (stored prior to composting, composted and stored for maturation), the operator shall submit the following documents to the Environment Agency for written approval:</p> <ul style="list-style-type: none"> • Revised Operating Techniques and Management System that demonstrate all activities are undertaken in accordance with BAT/Best Practice; • A revised risk assessment to assess and mitigate the potential environmental impacts of the proposed operations and operational changes; • A detailed Site Specific Bioaerosol Risk Assessment; and • A revised Odour Management Plan. <p>The waste being stored prior to composting (including pre-shred waste), composted (sanitising and stabilising waste) and stored for maturation (including pre-screened compost) at the site shall not exceed 5,000 tonnes at any one time unless the Environment Agency has given prior written permission under this condition.</p>
Pre-Op 2	<p>Prior to any increase of waste stored at the site above 5,000 tonnes at any one time (stored prior to composting, composted and stored for maturation), the operator shall develop and submit a fire prevention plan to the Environment Agency in writing.</p> <p>The plan shall take into account the required information as specified in the Environment Agency's technical guidance, Fire prevention plans (version 2, dated March 2015). The</p>

Table S1.4 Pre-operational requirements	
Reference	Requirement
	<p>appropriate measures for fire prevention shall, as a minimum, include:</p> <ul style="list-style-type: none"> • the management of storage of feedstock, product and/or waste piles; • the measures to prevent, detect and contain fires; and • the management of fire-waters. <p>The fire prevention plan shall be subject to a written approval by the Environment Agency. The operator shall implement the procedures and measures as approved, and from the date stipulated by the Environment Agency.</p> <p>The waste being stored prior to composting (including pre-shred waste), composted (sanitising and stabilising waste) and stored for maturation (including pre-screened compost) at the site shall not exceed 5,000 tonnes at any one time unless the Environment Agency has given prior written permission under this condition.</p>
Pre-Op 3	<p>Prior to accepting waste for transfer under Standard Rules Permit SR2008N02_5kte, the operator shall submit the following revised documents to the Environment Agency for written approval:</p> <ul style="list-style-type: none"> • Revised Operating Techniques and • Revised risk assessment to assess and mitigate the potential environmental impacts of the proposed operations. <p>No household, commercial and industrial waste be shall be accepted at the facility for transfer unless the Environment Agency has given prior written permission under this condition.</p>

Schedule 2 – Waste types, raw materials and fuels

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

Maximum quantity	Annual throughput shall not exceed 28,500 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; - catering waste or other wastes containing animal by-products covered by the Animal By-Products Regulations Except EWC 02 01 06); - wastes that are in a form which is liquid; - 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 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw) only
02 01 07	wastes from forestry (biodegradable only)
02 01 99	wastes not otherwise specified (spent mushroom compost and fully biodegradable bedding only)
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 04	materials unsuitable for consumption or processing (biodegradable only)
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 (biodegradable only)
02 07 02	wastes from spirits distillation (biodegradable only)
02 07 04	materials unsuitable for consumption or processing (biodegradable only)
02 07 99	wastes not otherwise specified (malt husks, malt sprouts, yeast and yeast-like residues only)
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 and particle board other than those mentioned in 03 01 04 only

Table S2.2 Permitted waste types and quantities for composting in open systems	
Maximum quantity	Annual throughput shall not exceed 28,500 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; - catering waste or other wastes containing animal by-products covered by the Animal By-Products Regulations Except EWC 02 01 06); - wastes that are in a form which is liquid; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	Description
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 10	fibre rejects only
04	Wastes from the leather, fur and textile industries
04 02	wastes from the textile industry
04 02 10	organic matter from natural products (un-dyed and untreated only)
07	Wastes from organic chemical processes
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	waste plastic (compostable plastics only, unused and uncontaminated excess production only)
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 (excluding veneers, plastic coatings or laminates)
15 01 02	plastic packaging (compostable plastics only)
15 01 03	wooden packaging
15 01 05	composite packaging (only biodegradable organic packaging)
15 01 09	textile packaging (made entirely from biodegradable fibres only)
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 02	wood, glass and plastic
17 02 01	Wood
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 06	dredging spoil other than those mentioned in 17 05 05 (from inland waters 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 (waste types listed in this table only)
19 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost (from a composting process that accepts waste input types

Table S2.2 Permitted waste types and quantities for composting in open systems	
Maximum quantity	Annual throughput shall not exceed 28,500 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; - catering waste or other wastes containing animal by-products covered by the Animal By-Products Regulations Except EWC 02 01 06); - wastes that are in a form which is liquid; - wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed; - hazardous wastes
Waste code	Description
	listed in this table only)
19 08	wastes from waste water treatment plants not otherwise specified
19 08 05	sludges from treatment of urban waste water
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard (excluding veneers or plastic coatings)
19 12 07	wood other than that mentioned in 19 12 06
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (and only including waste types listed in this table)
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 (excluding veneers, plastic coatings or laminates)
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics (compostable plastics only)
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste (plant matter only)
20 03	other municipal wastes
20 03 02	waste from markets (biodegradable only)

Schedule 3 – Emissions and monitoring

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Internal for each composting batch during sanitisation stage	Temperature	At least daily	Temperature probe	Monitoring equipment shall be available on site and used as required to maintain aerobic conditions and ensure compliance with this permit. Equipment shall be calibrated on a 4 monthly basis or as agreed in writing by the Environment Agency.
	Moisture	None specified	--	
Internal for each composting batch during stabilisation stage	Temperature	At least weekly	Temperature probe	
	Moisture	None specified	--	
Waste reception area; Liquid storage lagoon(s); Stabilisation/Maturation area and additional points identified within the Odour Management Plan.	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.
Storage lagoon	Integrity checks	Weekly	Visual assessment	--

Emission point ref. & location	Parameter	Bioaerosol threshold limits (CFU m⁻³)	Monitoring frequency	Monitoring standard or method	Other specifications
At a minimum of three separate locations, as described in the Industry Standard Protocol	Total bacteria	1000	Quarterly	In accordance with the Industry Standard Protocol or agreed (with EA) standard thereafter.	As described in the Industry Standard Protocol, including all the additional data requirements specified therein.
	Aspergillus Fumigatus	500			

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Bioaerosol monitoring Parameters as required by condition 3.5.1	As specified in the Standardised Protocol and in agreement with the Environment Agency	Every 3 months or as agreed in writing by the Environment Agency	1 January, 1 April, 1 July, 1 October

Table S4.2 Annual production/treatment	
Parameter	Units
Processed compost	Tonnes

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

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	30/06/16
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	30/06/16
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	30/06/16
Waste Returns	E-waste Returns Form	--

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	
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.

“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.

“bioaerosol threshold limits” means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the composting operations, which are attributable to the composting 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.

“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 plastics that are certified to meet the standards of EN 13432, EN 14995 or equivalent.

“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 a plug-flow basis, batches will be taken to mean a series of “portions of production”.

“composting” means the biological decomposition of 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.

“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 2010 No.675 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.

“Industry Standard Protocol” means “A standardised protocol for the monitoring of bioaerosols at open composting facilities” published by the Association for Organics Recycling and developed in conjunction with the Environment Agency.

“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.

“sanitisation stage” means the actively managed and intensive stage of composting lasting for at least five 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.

“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 liquid will run off the surface otherwise than via the system;
- (b) except where they may be lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump.

“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).

“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.

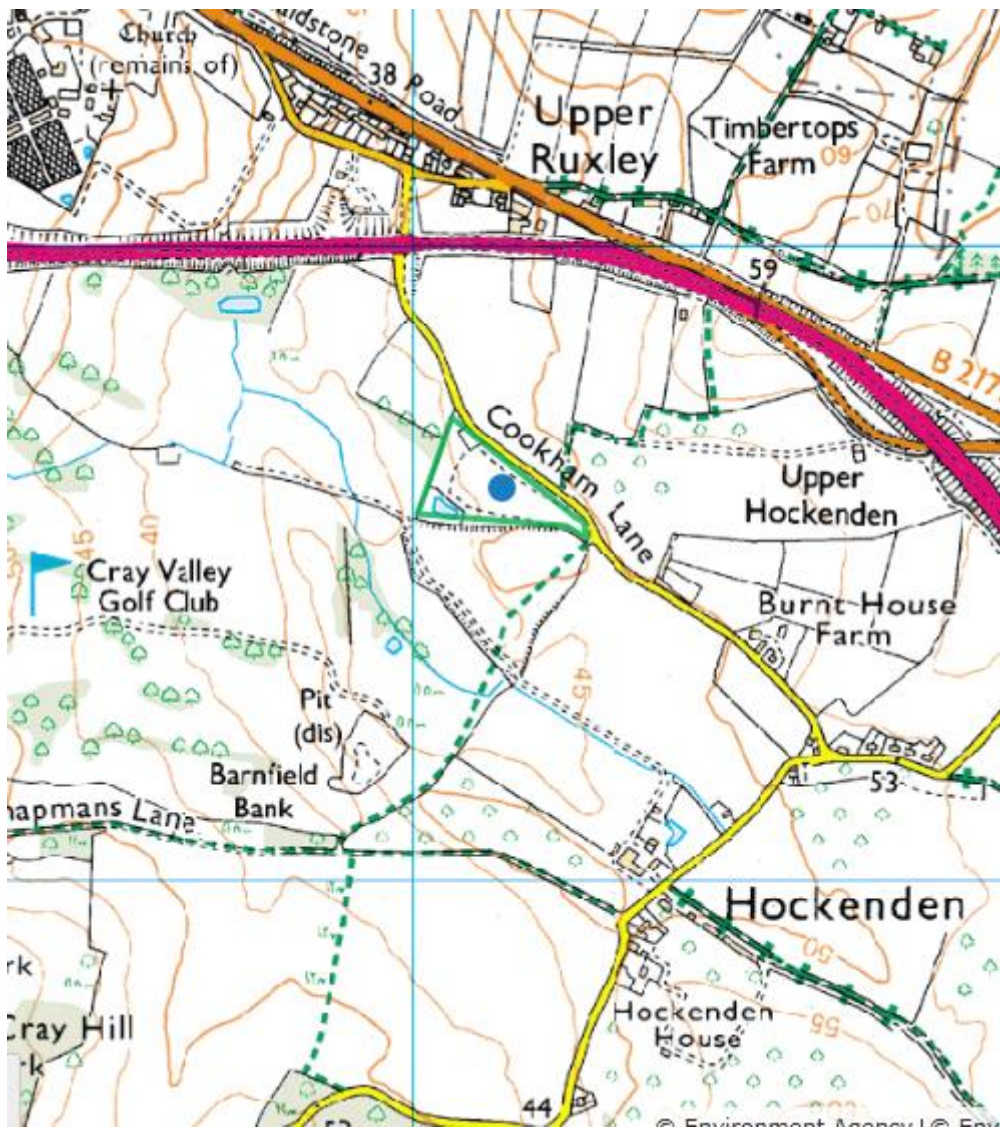
“year” means calendar year ending 31 December.

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.

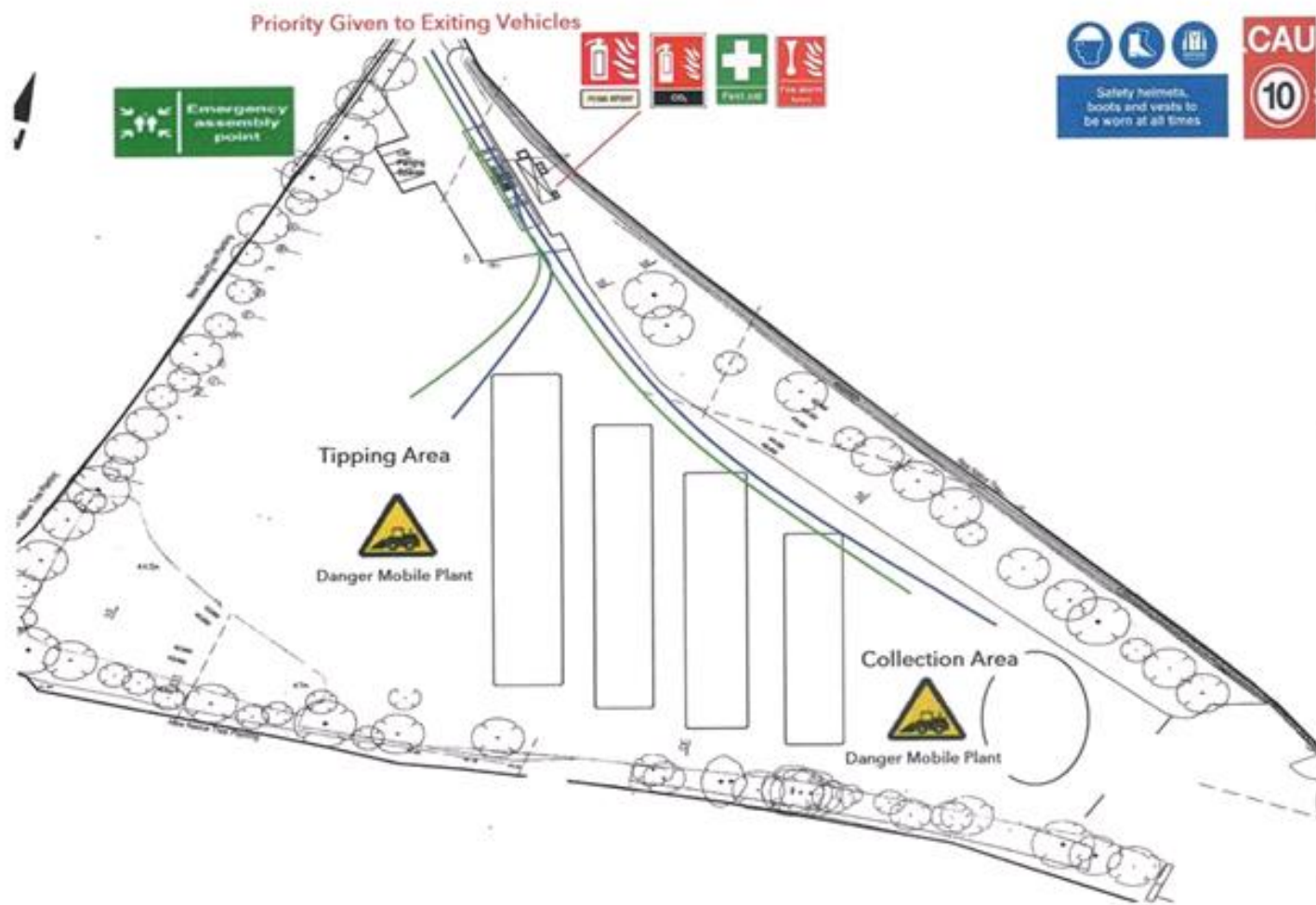
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

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

Schedule 7 – Site plan



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END OF PERMIT

Permit Number: ZP3995HS
Facility: Swanley Recycling Centre

Operator: TJ Composting Service Limited
Form Number: WaterUsage1 / 30/06/16

Reporting of Water Usage for the year

Water Source	Usage (m3/year)	Specific Usage (m3/unit output)
Mains water		
Site borehole		
River abstraction		
TOTAL WATER USAGE		

Operator's comments:

Signed
(authorised to sign as representative of Operator)

Date.....

Permit Number: ZP3995HS
Facility: Swanley Recycling Centre

Operator: TJ Composting Service Limited
Form Number: Energy Usage/ 30/06/16

Reporting of Energy Usage for the year

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: ZP3995HS **Operator: TJ Composting Service Limited**
Facility: Swanley Recycling Centre **Form Number: Performance1 / 30/06/16**

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Units
Total raw material used	tonnes

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)