

# Notice of variation and consolidation with introductory note

**The Environmental Permitting (England & Wales) Regulations 2010**

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Eco Sustainable Solutions Limited  
Parley Waste Management Facility  
Chapel Lane  
Parley  
Christchurch  
Dorset  
BH23 6BG

**Variation application number**

EPR/GP3793FY/V010

**Permit number**

EPR/GP3793FY

# Parley Waste Management Facility

## Permit number EPR/GP3793FY

### 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.

This variation relates to Eco Sustainable Solutions Limited's proposals to expand and redevelop their Parley site to include a wider range of waste management activities and waste types. Their former waste permit allowed for the activities of open windrow composting, in-vessel composting, soil recycling, wood recycling, and road sweepings recycling, involving the processing of up to 215,000 tonnes per annum of non-hazardous wastes. This variation will result in the site being permitted as an Installation as several of the activities fall under Part 2 of Schedule 1 to the Environmental Permitting (England & Wales) Regulations 2010. The following additional plant / activities are incorporated within the permit as a result of this variation:

- Anaerobic Digestion (AD) plant which will process biodegradable, non-hazardous wastes from household and commercial collections, to produce both biogas and digestate
- Biogas upgrading plant to produce biomethane so that it can be exported to the national gas grid
- Digestate treatment plant to produce agricultural fertiliser from the AD plant digestate
- Two vertical flow reedbeds for the treatment of process water prior to discharge to foul sewer
- Two vertical flow reedbeds for the treatment of surface water run-off prior to discharge to surface waters
- Bedding plant for the production of animal bedding from clean processed wood waste
- Plastics and Rejects Drying plant which will heat and dry residual waste produced on-site, prior to processing in the Solid Recovered Fuel (SRF) plant, or off-site disposal
- SRF plant for shredding and baling various non-recyclable materials to produce a solid fuel for transfer off-site
- The bulking up, storage and subsequent transfer off-site of ABPR (Animal By-Product Regulations) waste and other food wastes
- The recovery of waste for use in the construction of hardstanding on the area of the site extension.
- The treatment of hazardous waste comprising of oil contaminated drilling muds in the road sweepings plant.

This variation also extends the permit boundary to include an additional area of land to the east of the existing boundary. The area of the site extension will principally be used for the relocated soils yard, a primary silt lagoon and the reedbeds for the treatment of process water and surface water run-off.

The total amount of waste that the installation can process each year will also increase to approximately 306,100 tonnes per annum.

The operator has confirmed that they no longer undertake in-vessel composting at the site and have agreed that this activity can be removed from the permit.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Variation determined Consolidated permit number EPR/GP3793FY	08/10/2010	Consolidation of permits EPR/GP3793FY EPR/KP3293FE EPR/WP3797HQ Issued to Eco Sustainable Solutions Limited.
Application received EPR/GP3793FY/V007	Duly Made 26/04/2012	Application to add wood processing activity.
Variation Determined EPR/GP3793FY/V007	31/05/2012	Varied permit issued.
Application received EPR/GP3793FY/V008	Duly Made 21/10/2013	Application to add street sweepings plant.
Application withdrawn EPR/GP3793FY/V008	24/01/2014	
Application received EPR/GP3793FY/V009	Duly made 03/09/2014	Application to add street sweepings plant and increase soil reclamation tonnage.
Schedule 5 response received	28/10/2014	Flow Chart of waste throughputs.
Schedule 5 response received	23/11/2014	Revised EMS, Odour Management Plan, Dust Management Plan and Operating Techniques Document.
Variation determined EPR/GP3793FY/V009	09/12/2014	Varied permit issued.
Application received EPR/GP3793FY/V010	Duly made 03/02/15	Application for variation including the addition of an anaerobic digestion plant, a biomethane plant, a clean biomass plant, a solid recovered fuel plant, a bedding plant and a plastics and rejects drier; to extend the site boundary and to amend permitted waste tonnages.
Schedule 5 (No1) response received	12/06/15	Including Odour Management Plan, Fire Prevention Plan, and Accident Management Plan
Schedule 5 (No2) response received	31/05/16	Further details with respect to the Waste Recovery Plan and the operation of a clean biomass plant
Additional information received	07/09/16	Updated Environmental Management System (EMS)
Variation determined EPR/GP3793FY (PAS/Billing ref: MP3838WS)	06/12/16	Varied and consolidated permit issued to Eco Sustainable Solutions Limited 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/GP3793FY**

### Issued to

**Eco Sustainable Solutions Limited** ("the operator")

whose registered office is

**Redcotts House  
1 Redcotts Lane  
Wimborne  
Dorset  
BH21 1JX**

company registration number 03119513

to operate a regulated facility at

**Parley Waste Management Facility  
Chapel Lane  
Parley  
Christchurch  
Dorset  
BH23 6BG**

to the extent set out in the schedules.

The notice shall take effect from 06/12/2016

Name	Date
M Bischer	06/12/2016

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/GP3793FY**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/GP3793FY/V010 authorising,

**Eco Sustainable Solutions Limited** (“the operator”),

whose registered office is

**Redcotts House  
1 Redcotts Lane  
Wimborne  
Dorset  
BH21 1JX**

company registration number 03119513

to operate an installation at

**Parley Waste Management Facility  
Chapel Lane  
Parley  
Christchurch  
Dorset  
BH23 6BG**

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

Name	Date
M Bischer	06/12/2016

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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR16) 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 AR16) the operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
  - (b) maintain records of raw materials and water used in the activities;
  - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
  - (d) take any further appropriate measures identified by a review.

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

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
  - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
  - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

## **2 Operations**

### **2.1 Permitted activities**

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR16) 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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR16) 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(s) S2.2 to S2.11; 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.

### **Hazardous waste storage and treatment**

- 2.3.7 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.



## **2.4 Improvement programme**

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

## **2.5 Pre-operational conditions**

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

# **3 Emissions and monitoring**

## **3.1 Emissions to water, air or land**

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 table(s) S3.1, S3.2 and S3.3.
- 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 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1, S3.2 and S3.3;
- (b) surface water monitoring specified in table S3.4;
- (c) groundwater monitoring specified in table S3.5;
- (d) leachate monitoring specified in table S3.6;
- (e) process monitoring specified in table S3.7;
- (f) bioaerosols monitoring specified in table S3.8.

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, S3.2 and S3.3 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.

# **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 AR16) a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
  - (b) the annual production/treatment data set out in schedule 4 table S4.2; and
  - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

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

### 4.3 Notifications

4.3.1 In the event:

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

4.3.2 Any information provided under condition 4.3.1 (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 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

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

Where the operator is a registered company:

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

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

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

In any other case:

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

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

## **4.4 Interpretation**

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

## Schedule 1 – Operations

Table S1.1 Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S5.4 A(1)(b)(i)	<p>Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 100 tonnes per day involving biological treatment.</p> <p>Anaerobic digestion of permitted waste.</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents.</p>	<p>From receipt of permitted waste through to digestion and recovery of by-product (digestate).</p> <p>Anaerobic digestion of permitted waste in 6 digestion tanks.</p> <p>Waste types and quantity as specified in Table S2.2.</p>
AR2	S5.4 A(1)(b)(i)	<p>Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 75 tonnes per involving biological treatment.</p> <p>Open Windrow Compositing of permitted waste.</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents.</p>	<p>From receipt of waste through to composting and recovery of by-products.</p> <p>Composting of waste under aerobic conditions in open systems on impermeable surface with sealed drainage system.</p> <p>No more than 25,000m<sup>3</sup> of waste shall be stored on the maturation pad at any one time.</p> <p>Leachate/liquid waste may only be used to condition compost where there is a direct benefit to the composting process.</p> <p>Liquid waste shall only be added if the moisture content of the compost falls below 50% (w/w)</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
			<p>Wastes types and quantity as specified in Table S2.3.</p> <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> <li>• Consisting solely or mainly of dusts, powders or loose fibres.</li> <li>• Hazardous wastes.</li> </ul>
AR3	S5.4 A(1)(a)(i)	<p>Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by biological treatment.</p> <p>Treatment of contaminated process water and contaminated surface water run-off in 2 vertical flow reed beds prior to discharge to sewer.</p> <p>D8: Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12.</p>	<p>From receipt of process water at inlet(s) to the reed beds to discharge to foul sewer via emission point S1.</p> <p>Influent to the reed beds shall consist only of:</p> <ul style="list-style-type: none"> <li>• contaminated process water from within the AD plant bunded areas,</li> <li>• contaminated surface water run-off from the green waste composting area, via the green waste composting ('southern') lagoons</li> </ul>
<b>Directly Associated Activity</b>			
AR4	Storage of waste pending recovery or disposal (Anaerobic digestion)	R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced).	From the receipt of permitted waste to pre-treatment and despatch for anaerobic digestion on site.

**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
			<p>Storage of residual wastes from pre-treatment to despatch off-site for recovery.</p> <p>Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system.</p> <p>Waste types and quantity as specified in Table S2.2.</p>
AR5	Physical treatment for the purpose of recycling (Anaerobic digestion)	R3: Recycling/reclamation of organic substances which are not used as solvents.	<p>From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery.</p> <p>Pre-treatment of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system, including shredding, maceration, and litter and grit separation.</p> <p>Post-treatment of digestate in an enclosed building and on an impermeable surface with a sealed drainage system, including heating, addition of thickening agents and rotary drying, for use as a fertiliser.</p> <p>Heat treatment (pasteurisation) of waste in a bank of 6 tank(s) for the purpose of recovery.</p> <p>Waste types and quantity as specified in Table S2.2.</p>



<b>Table S1.1 Activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
AR6	Gas storage	Storage of biogas produced from on-site anaerobic digestion of permitted waste in 6 digester(s).	From the receipt of biogas to despatch for use within the facility.
AR7	Gas upgrading	Upgrading of biogas to biomethane (including the removal of moisture and other substances such as carbon dioxide, hydrogen sulphide, volatile organic compounds) for injection into the National Grid.	From the receipt of biogas produced by the on-site anaerobic digestion process to injection into the National Grid.
AR8	Auxiliary/emergency flare operation	Combustion of biogas D10: Incineration on land.	From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases.  Use of one auxiliary/emergency gas flare, only during periods of maintenance or breakdown of the biogas upgrading plant.
AR9	Digestate storage	Storage of liquid digestate in 6 storage tanks.	From the receipt of digestate produced from the on-site anaerobic digestion process to utilisation in the digestate treatment plant.
AR10	Storage of waste pending recovery or disposal (Open windrow composting)	R13: Storage of waste pending the R3 operation (excluding temporary storage, pending collection, on the site where it is produced).	From the receipt of waste to despatch for physical treatment prior to composting, or despatch for recovery and/or disposal.  Storage of waste on an impermeable surface with a sealed drainage system.

**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
			<p>No more than 1200m<sup>3</sup> of waste pending treatment and composting shall be stored at any one time.</p> <p>Waste pending treatment and composting shall be stored for no longer that 24 hours (Except over weekends/Bank holidays where storage can be up to 72 hours).</p> <p>Waste shall be stored no higher than 4m.</p> <p>Waste types and quantity as specified in Table S2.3.</p>
AR11	Physical treatment for the purpose of recycling (Open windrow composting)	R3: Recycling/reclamation of organic substances which are not used as solvents.	<p>From the receipt of waste to despatch for composting or despatch off site for recovery.</p> <p>Pre-treatment of waste prior to composting on an impermeable surface with a sealed drainage system, including shredding and screening.</p> <p>Post-treatment of processed compost on an impermeable surface with a sealed drainage system, including screening to remove contraries.</p> <p>Waste types and quantity as specified in Table S2.3.</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
AR12	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.
AR13	Process water collection and storage	Collection and storage of composting liquor/leachate and contaminated surface water run-off from the green waste composting area, in 2 lagoon(s).	From the receipt of composting liquor/leachate and contaminated surface water run-off from the green waste composting area, to despatch for on-site treatment prior to disposal.
AR14	Surface water collection and storage	Collection and storage of contaminated surface water run-off in primary silt lagoon.	From the collection of surface water run-off from the soils yard and the site entrance, to despatch for reuse or further treatment within the facility.
AR15	Surface water treatment	Treatment of contaminated surface water run-off in 2 vertical flow reedbeds.	From receipt of run-off to discharge to surface water via emission point SW1.
AR16	Raw material storage	Storage of raw materials including lubrication oil, antifreeze, ferric chloride, and activated carbon.	From the receipt of raw materials to despatch for use within the facility.

**Table S1.1 Activities**

Activity reference	Description of activities for waste operations	Limits of activities
<b>Waste operations</b>		
AR17	<p>Soil Recycling</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>R5: Recycling/reclamation of other inorganic materials.</p> <p>R3: Recycling or reclamation of organic substances which are not used as solvents.</p>	<p>Treatment including sorting, separation, screening, blending of compost and soils, washing of oversized gravels.</p> <p>The recirculation of UV treated sewage effluent in a closed system, for the purpose of aggregate washing; and the subsequent settlement and removal of associated solids, from concrete lined silt lagoons.</p> <p>All wastes must be treated on areas of hard standing and all drainage must fall to the primary silt lagoon or the main site lagoons.</p> <p>Waste types and quantity as specified in Table S2.4.</p> <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> <li>• Consisting solely or mainly of dusts, powders or loose fibres.</li> <li>• Hazardous wastes.</li> </ul>
AR18	<p>Wood Recycling</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>R3: Recycling or reclamation of organic substances which are not used as solvents.</p>	<p>Treatment of wood wastes consisting only of sorting, separation, cutting, pulverising, shredding, and chipping for recovery.</p> <p>Quantities of waste stored shall not exceed 2,000 tonnes in total at any one time.</p> <p>Waste types and quantity as specified in Table S2.5.</p> <p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> <li>• Consisting solely or mainly of dusts, powders or loose fibres.</li> <li>• Hazardous wastes</li> </ul>

<b>Table S1.1 Activities</b>		
<b>Activity reference</b>	<b>Description of activities for waste operations</b>	<b>Limits of activities</b>
AR19	<p>Road Sweepings Recycling Plant</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>R5: Recycling or reclamation of other organic materials.</p> <p>R4: Recycling or reclamation of metals and metal components.</p> <p>R3: Recycling or reclamation of organic substances which are not used as solvents.</p> <p>D9: Physico-chemical treatment resulting in final compounds or mixtures which are discarded by any of the operations numbered D1 to D12, e.g. evaporation, drying, calcinations.</p> <p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)</p>	<p>Treatment of non-hazardous waste (road sweepings and freshwater drilling muds) and hazardous waste (oil contaminated drilling muds) for the purpose of recovery.</p> <p>Physico-chemical treatment of non-hazardous and hazardous waste including washing, flocculation, shredding, screening, crushing, baling, and pelletising.</p> <p>Biological treatment of non-hazardous waste consisting of aerobic composting or bio-drying (no more than 75 tonnes per day).</p> <p>Compost like output (CLO) produced from the activity shall not be spread to agricultural land.</p> <p>Temporary storage of hazardous waste (filter cake resulting from the treatment of oil contaminated drilling muds) pending off-site transfer.</p> <p>Temporary storage of process water arising from hazardous waste treatment pending off-site transfer.</p> <p>All wastes must be stored and treated on an impermeable surface with a sealed drainage system.</p> <p>Hazardous and non-hazardous wastes must not be mixed.</p> <p>Waste types and quantities as specified in Table S2.6.</p>
AR20	<p>Solid Recovered Fuel (SRF) Plant</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p>	<p>Treatment operations shall be limited to:</p> <p>Physical treatment consisting of shredding, removal of recyclates, and baling for the purpose of recovery (no more than 75 tonnes per day.)</p>

**Table S1.1 Activities**

Activity reference	Description of activities for waste operations	Limits of activities
	<p>R5: Recycling/reclamation of other inorganic materials.</p> <p>R3: Recycling or reclamation of organic substances which are not used as solvents.</p>	<p>Waste types and quantity as specified in Table S2.7.</p>
AR21	<p>Bedding Plant</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>R3: Recycling or reclamation of organic substances which are not used as solvents.</p>	<p>Treatment operations shall be limited to:</p> <p>Physical treatment including shredding, screening, and bagging for the purpose of recovery.</p> <p>Waste types and quantity as specified in Table S2.8.</p> <p>Wastes containing resins and/or adhesives shall not be accepted.</p>
AR22	<p>Plastics and Rejects Drier</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>R5: Recycling/reclamation of other inorganic materials.</p> <p>R3: Recycling or reclamation of organic substances which are not used as solvents.</p> <p>D9: Physico-chemical treatment resulting in final compounds or mixtures which are discarded by any of the operations numbered D1 to D12</p>	<p>Treatment operations shall be limited to:</p> <p>Heat treatment of waste for the purpose of recovery via the SRF plant, or disposal off-site as CLO (compost like output).</p> <p>Waste types and quantity as specified in Table S2.9.</p>

<b>Table S1.1 Activities</b>		
<b>Activity reference</b>	<b>Description of activities for waste operations</b>	<b>Limits of activities</b>
AR23	<p>ABPR and Food Waste Bulking and Transfer</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p>	<p>From the receipt of waste to despatch off-site for recovery.</p> <p>Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system.</p> <p>All discharge, storage and reloading activities to take place within the reception building, behind closed doors.</p> <p>Loading bays to be filled and emptied alternately to ensure a first in first out (FiFo) policy of stock rotation.</p> <p>No more than 200 tonnes of ABPR and food waste to be stored in the reception building at any one time.</p> <p>Activity to take place within the former IVC barn until the new AD facility is commissioned, whereupon the activity will take place within the confines of the new AD / ABPR reception building.</p> <p>Waste types and quantity as specified in Table S2.10.</p>
AR24	<p>Construction of engineered surfacing on area of site extension</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p>R5: Recycling/reclamation of other inorganic materials</p> <p>R3: Recycling or reclamation of organic substances which are not used as solvents</p>	<p>Secure storage of wastes for the purpose of recovery.</p> <p>Storage of wastes shall be limited to three years.</p> <p>Use of waste types for the purposes of construction work as detailed in the approved waste recovery plan.</p> <p>Waste types and quantity as specified in Table S2.11.</p>

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
EMS (formerly Working plan)	All	N/A
Parley Odour Management Plan	All	N/A
Technical Guidance note	'How to comply with your permit' ('Getting the basics right')	N/A
Application for variation EPR/GP3793FY/V009	Document provided in response to section 3d – technical standards, Part C4 of the application form.	03/09/14
Response to Schedule 5 Notice dated 07/10/14	Response to questions 2-6.	28/10/14
Response to Schedule 5 Notice Dated 10/11/14	Response to questions 1-5 and revised Odour Management Plan, Operating Techniques document (407.03407.00003/OT) and Dust and Litter Plan (Version 3).	23/11/14
Application for variation EPR/GP3793FY/V010	Applications forms C2, C3 & C4 and relevant supporting information, including Dust and Bioaerosol Management and Monitoring Plan (dated January 2015)	03/02/15
Responses to Schedule 5 Notice dated 18/05/15	Q1. Fire Prevention Plan (approved by Environment Agency on 23/06/16)	12/06/15
	Q2. Odour Management Plan (approved by Environment Agency on 08/01/16)	
	Q4. Main bunded area for the AD facility	
	Q6. Hazardous waste management following processing in the road sweepings plant	
	Q7. Monitoring of outputs from the road sweepings plant	
	Q8. Accident Management Plan	
	Q9. Optimisation and control of the AD facility	
	Q11. SRF plant, bedding plant, digestate plant, biogas safety flare and vertical flow reedbeds	
Response to Schedule 5 Notice Dated 04/03/16	Q1&2. Operation of the clean biomass plant	31/03/16
	Q3. Waste Recovery Plan (approved as a 'recovery' operation by Environment Agency on 27/05/16)	
Final response to Environment Agency email dated 04/07/16	Environmental Management System (EMS) (approved by Environment Agency on 07/09/16)	07/09/16
Response to Environment Agency email dated 30/09/16	Confirmation of the size of the biogas auxiliary/emergency flare, rated at 6MW thermal input	03/10/16



<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1	<p>The operator shall submit a written report to the Environment Agency on the commissioning of the anaerobic digestion facility and biogas upgrading plant. The report shall be written by an appropriately qualified person and summarise the environmental performance of the plant as installed against the design parameters set out in application for variation EPR/GP3793FY/V010. The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions.</p>	<p>Within 6 months of the completion of commissioning</p>
IC2	<p>The operator shall carry out a monitoring study to quantify the emissions in relation to the releases of pollutants to air from the installation. The study shall include the monitoring of point source releases to air from the biogas upgrading plant (emission point A6) during normal operation, having regard to the Environment Agency technical guidance M2 and to MCERTS standards.</p> <p>Two separate monitoring campaigns in a year shall be completed as follows:</p> <ul style="list-style-type: none"> <li>• one monitoring campaign 6 months following operation of the biogas upgrading plant; and</li> <li>• one monitoring campaign 12 months following operation of the biogas upgrading plant.</li> </ul> <p>The pollutants to be monitored shall include: Total Volatile Organic Compounds (VOCs); and Hydrogen sulphide.</p>	<p>Within 12 months following the operation of the biogas upgrading plant</p>
IC3	<p>Following the completion of IC2, the operator shall assess the impact of point source releases to air from the biogas upgrading plant, using the information obtained through the emissions monitoring. The assessment and all associated monitoring reports shall be submitted in writing to the Environment Agency for review.</p> <p>The assessment shall include:</p> <ul style="list-style-type: none"> <li>• details of the monitoring undertaken and the results obtained;</li> <li>• results of the assessment of long and short term impacts from the emissions in accordance with Environment Agency Guidance on undertaking risks assessments for environmental permits</li> <li>• a completed H1 assessment software tool</li> </ul> <p>If the H1 assessment shows that long or short term impacts from the emissions are not insignificant, the operator shall propose an action plan to reduce the impacts of the substances identified.</p> <p>Following the submission of the documentation, the Environment Agency shall assess whether setting of emission limits or routine monitoring is required.</p>	<p>Within 1 month following the completion of IC2</p>
IC4	<p>The operator shall submit a written report to the Environment Agency on the commissioning of the road sweepings plant with hazardous waste. The report shall be written by an appropriately qualified person and shall summarise the commissioning process undertaken and clearly demonstrate with appropriate evidence, e.g. monitoring data, how effectively hazardous waste residues have been removed from the plant prior to treatment of non-hazardous waste.</p>	<p>Within 1 month following the completion of commissioning</p>

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC5	The operator shall submit to the Environment Agency an updated Site Condition Report (SCR) which references the additional ground investigation(s) required under pre-operational condition PO1, and which contains a full list of permitted activities at Section 3 of the SCR.	Within 3 months following the submission of the PO1 report
IC6	The operator shall submit to the Environment Agency a report on the construction of the engineered surfacing on the area of the site extension. The report shall be written by an appropriately qualified person and shall include, but not be limited to, details of the method of construction and photographic evidence of the work taken at key steps in the construction process.	Within 1 month following the completion of construction

<b>Table S1.4 Pre-operational measures for future development</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO1	All proposed additional activities contained in variation application EPR/GP3793FY/V010	<p>The operator shall submit to the Environment Agency an updated report on the baseline conditions of soil and groundwater at the Installation. The report shall be written by an appropriately qualified person and shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for in Article 22(3) of the Industrial Emissions Directive.</p> <p>The report shall contain information, supplementary to that already referenced in the Site Condition Report (SCR) dated October 2014, accompanying variation application EPR/GP3793FY/V010, such that the full extent of the installation is characterised in order to meet the information requirements of Article 22(2) of the Industrial Emissions Directive.</p>
PO2	All proposed additional activities contained in variation application EPR/GP3793FY/V010	<p>The operator shall submit to the Environment Agency for approval a Site Closure Plan which shall describe the techniques that the operator will rely upon to manage the decommissioning and closure of the site following the cessation of operations. The plan shall include (but not be limited to) those measures specified in variation application EPR/GP3793FY/V010 (within BATOT document, v2, Jan 2015).</p>
PO3	Anaerobic digestion plant	<p>At least 8 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning, the operator shall ensure that a review of the design, method of construction and integrity of the proposed site secondary containment is carried out by a qualified structural engineer. The review shall compare the constructed secondary containment against the standards set out in section 7.9.1 of the Environment Agency Draft Technical Guidance for Anaerobic Digestion (Reference LIT 8737, November 2013) and CIRIA C736 - Containment Systems for the Prevention of Pollution - secondary, tertiary and other measures for industrial and commercial premises.</p> <p>The review shall include consideration of:</p> <ul style="list-style-type: none"> <li>• physical condition of the secondary containment</li> <li>• the suitability for providing containment when subjected to the dynamic and static loads caused by catastrophic tank failure;</li> <li>• any work required to ensure compliance with the standards set out in CIRIA C736; and</li> <li>• a preventative maintenance and inspection regime.</li> </ul> <p>A written report of the review shall be submitted to the Environment Agency detailing the review's findings and recommendations. Remedial action shall be taken to ensure that the secondary containment meets the standards set out in the guidance documents and implement the maintenance and inspection regime.</p> <p>No operations shall commence or waste accepted unless the Environment Agency has given prior written approval under this condition.</p>

<b>Table S1.4 Pre-operational measures for future development</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO4	Anaerobic digestion plant and ABPR/food waste bulking and transfer	<p>At least 4 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning, the operator shall submit to the Environment Agency for approval an addendum to their existing Waste Acceptance Procedure confirming the specific details of their waste pre-acceptance and acceptance procedures, which shall take into account the indicative BAT in section 3.1.4 and 3.2.2 respectively of the Environment Agency Draft Technical Guidance for Anaerobic Digestion (Reference LIT 8737, November 2013).</p> <p>No operations shall commence or waste accepted unless the Environment Agency has given prior written approval under this condition.</p>
PO5	Anaerobic digestion plant and biogas upgrading plant	<p>At least 4 weeks (or any other date as agreed with the Environment Agency) prior to commissioning, the operator shall submit to the Environment Agency for approval a written copy of the site Environmental Management System (EMS) and make available for inspection all documents and procedures which form part of the site EMS.</p> <p>The EMS shall cover all activities at the installation and shall be in accordance with the Environment Agency Guidance – How to develop a management system: environmental permits, and section 8.2.1 of the Environment Agency Draft Technical Guidance for Anaerobic Digestion (Reference LIT 8737, November 2013). The EMS shall include the techniques the operator relies upon to manage the operation, accidents (including flooding), closure and decommissioning of the site. The documents and procedures set out in the EMS shall form the written management system referenced in condition 1.1.1 (a) of the permit.</p> <p>The operator shall clearly indicate via accompanying cover letter any updates to their EMS since the issue of variation notice EPR/GP3793FY/V010.</p> <p>No operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written approval under this condition.</p>
PO6	Anaerobic digestion plant and biogas upgrading plant	<p>Within 4 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning, the operator shall provide written evidence to the Environment Agency of the Technically Competent Manager (TCM) at the proposed installation. The written evidence shall include that the person(s):</p> <ul style="list-style-type: none"> <li>• hold the relevant qualifications under the CIWM/WAMITAB scheme or other equivalent qualifications for the operation of the anaerobic digestion plant, and</li> <li>• have appropriate competence for operating the biogas upgrading plant (including the injection of biomethane into the National Grid).</li> </ul> <p>No operations shall commence or waste accepted unless the Environment Agency has given prior written approval under this condition.</p>

<b>Table S1.4 Pre-operational measures for future development</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO7	Anaerobic digestion plant and biogas upgrading plant	<p>At least 8 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning, the operator shall provide a written commissioning plan, including timelines for completion, for approval by the Environment Agency.</p> <p>The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions.</p> <p>Commissioning shall be carried out in accordance with the commissioning plan as approved by the Environment Agency.</p>
PO8	Road sweepings plant (hazardous waste treatment)	<p>At least 4 weeks (or any other date as agreed with the Environment Agency) prior to commissioning of the road sweepings plant with hazardous waste (oil contaminated drilling muds), the operator shall provide a written commissioning plan, including timelines for completion, for approval by the Environment Agency.</p> <p>The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions.</p> <p>The commissioning plan must also include a method statement (including monitoring proposals) for ensuring that hazardous waste residues are effectively removed from the plant prior to the treatment of non-hazardous waste.</p> <p>Commissioning of the plant with hazardous waste shall be carried out in accordance with the commissioning plan as approved by the Environment Agency.</p> <p>Commissioning shall not commence unless the Environment Agency has given prior written permission under this condition.</p>
PO9	SRF plant, Bedding plant and Plastics and Rejects dryer	<p>At least 4 weeks (or any other date as agreed with the Environment Agency) prior to commissioning, the operator shall provide a written commissioning plan, including timelines for completion, for approval by the Environment Agency.</p> <p>The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions.</p> <p>Commissioning shall be carried out in accordance with the commissioning plan as approved by the Environment Agency.</p>

<b>Table S1.4 Pre-operational measures for future development</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO10	Waste recovery (site extension)	<p>At least 4 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of construction of the engineered surfacing, the operator shall submit a written report to the Environment Agency for its approval. The report shall detail the waste pre-acceptance and/or acceptance procedure to be applied to EWC 17 05 04 waste and the procedures for ensuring that only inert, non-hazardous waste is used during construction, including details of the sampling and analysis undertaken to prove that the waste is not contaminated.</p> <p>The procedure(s) shall be implemented in accordance with the report as approved by the Environment Agency.</p>

## Schedule 2 – Waste types, raw materials and fuels

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

Table S2.2 Permitted waste types and quantities for anaerobic digestion	
Maximum quantity	Throughput shall not exceed 33,000 tonnes per annum
Exclusions	<p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> <li>• consisting solely or mainly of dusts (except sawdust), powders, or loose fibres</li> <li>• wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed</li> </ul>
Waste code	Description
<b>02</b>	<b>Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing</b>
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>
02 01 01	sludges from washing and cleaning - food processing waste, food washing waste
02 01 02	animal-tissue waste including blood, animal flesh, fish processing waste, fish carcasses, poultry waste
02 01 03	plant-tissue waste including husks, cereal dust, waste animal feeds, off-cuts from vegetable and fruit and other vegetation waste
02 01 06	animal faeces, urine and manure including spoiled straw, effluent collected separately and treated off-site
02 01 07	wastes from forestry
02 01 99	wastes not otherwise specified (residues from commercial mushroom cultivation)
<b>02 02</b>	<b>wastes from the preparation and processing of meat, fish and other foods of animal origin</b>
02 02 01	sludges from washing and cleaning, process water, food washing waste
02 02 02	animal-tissue waste including blood, animal flesh, fish processing waste, fish carcasses, poultry waste
02 02 03	materials unsuitable for consumption or processing
02 02 99	wastes not otherwise specified (sludges from gelatine production, animal gut contents)
<b>02 03</b>	<b>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</b>
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
<b>02 04</b>	<b>wastes from sugar processing</b>
02 04 03	sludges from on-site effluent treatment

<b>Table S2.2 Permitted waste types and quantities for anaerobic digestion</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 33,000 tonnes per annum</b>
<b>Exclusions</b>	<b>Wastes having any of the following characteristics shall not be accepted:</b> <ul style="list-style-type: none"> <li>• <b>consisting solely or mainly of dusts (except sawdust), powders, or loose fibres</b></li> <li>• <b>wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed</b></li> </ul>
<b>Waste code</b>	<b>Description</b>
02 04 99	wastes not otherwise specified (allowed only if no chemical agents added and no toxin residues)
<b>02 05</b>	<b>wastes from the dairy products industry</b>
02 05 01	materials unsuitable for consumption or processing including solid and liquid dairy products, milk, food processing wastes, yoghurt, whey
02 05 02	sludges from on-site effluent treatment
<b>02 06</b>	<b>wastes from the baking and confectionery industry</b>
02 06 01	materials unsuitable for consumption or processing including condemned food, food processing wastes, biscuits, chocolate, yeast, bread, bakery wastes
02 06 03	sludges from on-site effluent treatment
<b>02 07</b>	<b>wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)</b>
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials including brewing waste, food processing waste, fermentation waste
02 07 02	wastes from spirits distillation including spent grains, fruit and potato pulp, sludge from distilleries
02 07 04	materials unsuitable for consumption or processing including brewing waste, food processing waste, fermentation waste, beer, alcoholic drinks, fruit juice
02 07 99	wastes not otherwise specified (malt husks, malt sprouts, malt dust, spent grains, hops, yeast and yeast-like residues, sludge from production process, allowed if biodegradable material only, and no chemicals added)
<b>03</b>	<b>Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard</b>
<b>03 03</b>	<b>wastes from pulp, paper and cardboard production and processing</b>
03 03 02	green liquor sludge
03 03 10	fibre rejects and sludges, i.e. paper pulp (de-inked only), paper fibre
<b>04</b>	<b>Wastes from the leather, fur and textile industries</b>
<b>04 01</b>	<b>wastes from the leather and fur industry</b>
04 01 01	fleshings and lime split wastes
04 01 05	tanning liquor free of chromium
04 01 07	sludges not containing chromium
<b>04 02</b>	<b>wastes from the textile industry</b>
04 02 10	organic matter from natural products, e.g. grease, wax
<b>15</b>	<b>Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>



<b>Table S2.2 Permitted waste types and quantities for anaerobic digestion</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 33,000 tonnes per annum</b>
<b>Exclusions</b>	<b>Wastes having any of the following characteristics shall not be accepted:</b> <ul style="list-style-type: none"> <li>• <b>consisting solely or mainly of dusts (except sawdust), powders, or loose fibres</b></li> <li>• <b>wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed</b></li> </ul>
<b>Waste code</b>	<b>Description</b>
15 01 01	paper and cardboard packaging - not allowed if any non biodegradable coating or preserving substance is present
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
<b>19</b>	<b>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</b>
<b>19 02</b>	<b>wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</b>
19 02 03	waste types listed in this table, Table S2.2, that have been mixed together only
19 02 06	sludge types from waste listed in this table, Table S2.2, that have been heat treated only
19 02 10	glycerol not designated as hazardous i.e. excludes EWC code 19 02 08
<b>19 05</b>	<b>wastes from aerobic treatment of solid wastes</b>
19 05 01	non-composted fraction of municipal and similar wastes – acceptable only if derived solely from input types allowed by the AD Quality Protocol and remains segregated from, and uncontaminated by, any other waste type
19 05 02	non-composted fraction of animal and vegetable waste – acceptable only if derived solely from input types allowed by the AD Quality Protocol and remains segregated from, and uncontaminated by, any other waste type
19 05 03	off-specification compost – acceptable only if derived solely from input types allowed by the AD Quality Protocol and remains segregated from, and uncontaminated by, any other waste type
<b>19 06</b>	<b>wastes from anaerobic treatment of waste</b>
19 06 03	liquor from anaerobic treatment of municipal waste (from a process that treats wastes which are listed in this table only)
19 06 04	digestate from anaerobic treatment of source segregated biodegradable waste (from a process that treats wastes which are listed in this table only)
19 06 05	liquor from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table only)
19 06 06	digestate from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table only)
<b>19 08</b>	<b>wastes from waste water treatment plants not otherwise specified</b>
19 08 09	grease and oil mixture containing edible oils and fats
19 08 12	sludges from industrial biological treatment

<b>Table S2.2 Permitted waste types and quantities for anaerobic digestion</b>	
<b>Maximum quantity</b>	Throughput shall not exceed 33,000 tonnes per annum
<b>Exclusions</b>	<p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> <li>• consisting solely or mainly of dusts (except sawdust), powders, or loose fibres</li> <li>• wastes containing treated wood, wood-preserving agents or other biocides, persistent organic pollutants, Japanese Knotweed</li> </ul>
<b>Waste code</b>	<b>Description</b>
<b>20</b>	<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 01	paper and cardboard – not allowed if any non biodegradable coating or preserving substance is present. Excludes laminates such as Tetrapaks.
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
<b>20 02</b>	<b>garden and park wastes (including cemetery waste)</b>
20 02 01	biodegradable waste
<b>20 03</b>	<b>other municipal wastes</b>
20 03 01	mixed municipal waste – separately collected biowastes
20 03 02	waste from markets – allowed only if source segregated biodegradable fractions e.g. plant material, fruit and vegetables

<b>Table S2.3 Permitted waste types and quantities for open windrow composting</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 50,000 tonnes per annum</b>
<b>Waste code</b>	<b>Description</b>
<b>02</b>	<b>Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing</b>
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>
02 01 01	sludges from washing and cleaning
02 01 03	plant-tissue waste
02 01 07	wastes from forestry (comprising wood and plant tissue)
<b>02 03</b>	<b>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</b>
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 04	biodegradable materials unsuitable for consumption or processing (other than those containing dangerous substances)
<b>02 07</b>	<b>wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)</b>
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
<b>03</b>	<b>Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard</b>
<b>03 01</b>	<b>wastes from wood processing and the production of panels and furniture</b>
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
<b>03 03</b>	<b>wastes from pulp, paper and cardboard production and processing</b>
03 03 01	waste bark and wood
<b>17</b>	<b>Construction and demolition wastes (including excavated soil from contaminated sites)</b>
<b>17 02</b>	<b>wood, glass and plastic</b>
17 02 01	wood (untreated)
<b>20</b>	<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 01	paper and cardboard
<b>20 02</b>	<b>garden and park wastes (including cemetery waste)</b>
20 02 01	biodegradable waste (plant matter only)

<b>Table S2.4 Permitted waste types and quantities for soils recycling</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 100,000 tonnes per annum</b>
<b>Waste code</b>	<b>Description</b>
<b>17</b>	<b>Construction and demolition wastes (including excavated soil from contaminated sites)</b>
<b>17 01</b>	<b>concrete, bricks, tiles and ceramics</b>
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
<b>17 05</b>	<b>soil (including excavated soil from contaminated sites), stones and dredging spoil</b>
17 05 04	soil and stones other than those mentioned in 17 05 03
<b>19</b>	<b>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</b>
19 08 99	wastes not otherwise specified (UV treated sewage effluent only)
<b>20</b>	<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>
<b>20 02</b>	<b>garden and park wastes (including cemetery waste)</b>
20 02 02	soil and stones

<b>Table S2.5 Permitted waste types and quantities for wood recycling</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 33,000 tonnes per annum</b>
<b>Waste code</b>	<b>Description</b>
<b>03</b>	<b>Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard</b>
<b>03 01</b>	<b>wastes from wood processing and the production of panels and furniture</b>
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
<b>17</b>	<b>Construction and demolition wastes (including excavated soil from contaminated sites)</b>
<b>17 02</b>	<b>wood, glass and plastic</b>
17 02 01	wood
<b>19</b>	<b>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</b>
<b>19 12</b>	<b>wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>
19 12 07	wood other than that mentioned in 19 12 06
<b>20</b>	<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 38	wood other than that mentioned in 20 01 37

<b>Table S2.6 Permitted waste types and quantities for road sweepings recycling</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 42,000 tonnes per annum, including up to 2,000 tonnes per annum of hazardous waste 01 01 05*</b>
<b>Waste code</b>	<b>Description</b>
<b>01</b>	<b>Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals</b>
<b>01 05</b>	<b>drilling muds and other drilling wastes</b>
01 05 04	freshwater drilling muds and wastes
01 05 05*	oil-containing drilling muds and wastes
<b>20</b>	<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>
<b>20 03</b>	<b>other municipal wastes</b>
20 03 03	street-cleaning residues

<b>Table S2.7 Permitted waste types and quantities for SRF plant</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 9,798 tonnes per annum</b>
<b>Waste code</b>	<b>Description</b>
<b>15</b>	<b>Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 09	textile packaging
<b>17</b>	<b>Construction and demolition wastes (including excavated soil from contaminated sites)</b>
<b>17 02</b>	<b>wood, glass and plastic</b>
17 02 01	wood
17 02 03	plastic
<b>19</b>	<b>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</b>
<b>19 02</b>	<b>wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</b>
19 02 03	premixed wastes composed only of non-hazardous wastes
<b>19 05</b>	<b>wastes from aerobic treatment of solid wastes</b>
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 05 99	wastes not otherwise specified ( <i>compost oversize rejects, reject plastic contamination</i> )
<b>19 06</b>	<b>wastes from anaerobic treatment of waste</b>
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 06 99	wastes not otherwise specified (dried and sanitised screenings from Eco Sustainable Solutions Limited's anaerobic digestion facility at Piddlehinton, Dorset)
<b>19 12</b>	<b>wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>
19 12 01	paper and cardboard
19 12 04	plastic and rubber
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

<b>Table S2.7 Permitted waste types and quantities for SRF plant</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 9,798 tonnes per annum</b>
<b>Waste code</b>	<b>Description</b>
<b>20</b>	<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 01	paper and cardboard
20 01 10	clothes
20 01 11	textiles
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
<b>20 02</b>	<b>garden and park wastes (including cemetery waste)</b>
20 02 01	biodegradable waste
20 02 03	other non-biodegradable wastes
<b>20 03</b>	<b>other municipal wastes</b>
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues



<b>Table S2.8 Permitted waste types and quantities for bedding plant</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 13,300 tonnes per annum, including up to 10,000 tonnes of imported clean wood and up to 3,300 tonnes of clean wood from the wood recycling reception area</b>
<b>Waste code</b>	<b>Description</b>
<b>02</b>	<b>Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing</b>
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>
02 01 03	plant-tissue waste
02 01 07	wastes from forestry
<b>03</b>	<b>Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard</b>
<b>03 01</b>	<b>wastes from wood processing and the production of panels and furniture</b>
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04

<b>Table S2.9 Permitted waste types and quantities for plastics and rejects drier</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 10,000 tonnes per annum</b>
<b>Waste code</b>	<b>Description</b>
<b>15</b>	<b>Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 09	textile packaging
<b>17</b>	<b>Construction and demolition wastes (including excavated soil from contaminated sites)</b>
<b>17 02</b>	<b>wood, glass and plastic</b>
17 02 01	wood
17 02 03	plastic
<b>19</b>	<b>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</b>
<b>19 02</b>	<b>wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</b>
19 02 03	premixed wastes composed only of non-hazardous wastes
<b>19 05</b>	<b>wastes from aerobic treatment of solid wastes</b>
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 05 99	wastes not otherwise specified (compost oversize rejects, reject plastic contamination)
<b>19 06</b>	<b>wastes from anaerobic treatment of waste</b>
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 06 99	wastes not otherwise specified (dried and sanitised screenings from Eco Sustainable Solutions Limited's anaerobic digestion facility at Piddlehinton, Dorset)
<b>19 12</b>	<b>wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>
19 12 01	paper and cardboard
19 12 04	plastic and rubber
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

<b>Table S2.9 Permitted waste types and quantities for plastics and rejects drier</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 10,000 tonnes per annum</b>
<b>Waste code</b>	<b>Description</b>
<b>20</b>	<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 01	paper and cardboard
20 01 10	clothes
20 01 11	textiles
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
<b>20 02</b>	<b>garden and park wastes (including cemetery waste)</b>
20 02 01	biodegradable waste
20 02 03	other non-biodegradable wastes
<b>20 03</b>	<b>other municipal wastes</b>
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues

<b>Table S2.10 Permitted waste types and quantities for ABPR and food waste bulking and transfer</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 15,000 tonnes per annum</b>
<b>Waste code</b>	<b>Description</b>
<b>02</b>	<b>Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing</b>
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>
02 01 01	sludges from washing and cleaning
02 01 02	animal-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
<b>02 02</b>	<b>wastes from the preparation and processing of meat, fish and other foods of animal origin</b>
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	wastes not otherwise specified (sludges from gelatine production and animal gut contents)
<b>02 05</b>	<b>wastes from the dairy products industry</b>
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
<b>02 06</b>	<b>wastes from the baking and confectionery industry</b>
02 06 01	materials unsuitable for consumption or processing
02 06 03	sludges from on-site effluent treatment
<b>04</b>	<b>Wastes from the leather, fur and textile industries</b>
<b>04 01</b>	<b>wastes from the leather and fur industry</b>
04 01 01	fleshings and lime split wastes
04 01 07	sludges, in particular from on-site effluent treatment free of chromium
04 01 09	wastes from dressing and finishing
<b>04 02</b>	<b>wastes from the textile industry</b>
04 02 10	organic matter from natural products (for example grease, wax)
<b>19</b>	<b>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</b>
<b>19 05</b>	<b>wastes from aerobic treatment of solid wastes</b>
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
<b>19 06</b>	<b>wastes from anaerobic treatment of waste</b>
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
<b>20</b>	<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>

<b>Table S2.10 Permitted waste types and quantities for ABPR and food waste bulking and transfer</b>	
<b>Maximum quantity</b>	<b>Throughput shall not exceed 15,000 tonnes per annum</b>
<b>Waste code</b>	<b>Description</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 08	biodegradable kitchen and canteen waste
20 01 25	edible oil and fat
<b>20 03</b>	<b>other municipal wastes</b>
20 03 02	waste from markets

<b>Table S2.11 Permitted waste types and quantities for use of waste in deposit for recovery</b>	
<b>Maximum quantity</b>	<b>The total quantity of waste accepted at the site shall not exceed 42,200 tonnes</b>
<b>Waste code</b>	<b>Description</b>
<b>17</b>	<b>Construction and demolition wastes (including excavated soil from contaminated sites)</b>
<b>17 01</b>	<b>concrete, bricks, tiles and ceramics</b>
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
<b>17 05</b>	<b>soil (including excavated soil from contaminated sites), stones and dredging spoil</b>
17 05 04	soil and stones other than those mentioned in 17 05 03
<b>19 12</b>	<b>wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

## 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]	Biofilter unit serving the former IVC barn	No parameter set	No limit set	--	--	--
A2 [Point A2 on site plan in schedule 7]	Biofilter unit serving AD / ABPR waste reception barn	No parameter set	No limit set	--	--	--
A3 [Point A3 on site plan in schedule 7]	Biofilter unit serving AD / ABPR waste reception barn	No parameter set	No limit set	--	--	--
A4 [Point A4 on site plan in schedule 7]	Biofilter unit serving the drying plant and digestate treatment plant building	No parameter set	No limit set	--	--	--
A5 [Point A5 on site plan in schedule 7]	Auxiliary / emergency flare [note 1]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	150 mg/m <sup>3</sup>	Hourly average	[note 2]	BS EN 14792
		Carbon monoxide	50 mg/m <sup>3</sup>			BS EN 15058
		Total VOCs	10 mg/m <sup>3</sup>			BS EN 12619:2013
A6 [Point A6 on site plan in schedule 7]	Biogas upgrade plant off-gas stack	No parameter set	No limit set	--	--	--
Pressure relief valves	Digesters	No parameter set	No limit set	--	Record of operating hours	--
Vents from tank(s)	Oil/Fuel Storage tank(s)	No parameter set	No limit set	--	--	--
<p>Note 1 - These limits are based on normal operating conditions and load - temperature 0°C (273K); pressure: 101.3 kPa and oxygen: 3 per cent (dry gas). The measurement uncertainty specified in LFTGN05 v2 2010 shall apply.</p> <p>Note 2 - Monitoring to be undertaken 12 months after commissioning of the emergency flare. Following commissioning, monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours).</p>						

**Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements**

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 [Point SW1 on site plan in schedule 7] emission to a tributary of the Moors River	Surface water run-off from soils yard and site entrance, via surface water reed beds	Suspended solids	50 mg/l	Instantaneous (spot sample)	Monthly	BS EN 872;  SCA Blue book 105, ISBN 011751957X
		Visible oil or grease	No significant trace present	Instantaneous (spot sample)	Daily	Visual inspection

**Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements**

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 [Point S1 on site plan in schedule 7] emission to Wessex Water's Palmersford STW	Composting liquor/ leachate and contaminated surface water run-off from green waste composting area, via process water reed beds	No parameter set	No limit set	--	--	--



<b>Location or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
ECBW/D [Point ECBW/D on the Site Plan in variation notice EPR/GP3793FY/V006 dated 08/10/10]	Water level (cm)	Monthly	As agreed by the Environment Agency	Report to be submitted to the Environment Agency within one month of monitoring being carried out
	pH			
	Temperature (°C)			
	Electrical conductivity (µs/cm)			
	BOD atu (mg/l)			
	Ammoniacal nitrogen (mg/l)			
	Nitrate (mg/l)			
	Nitrite (mg/l)			
	Soluble reactive phosphorus (+/- 0.05mg/l)			
	Potassium (mg/l)			

<b>Location or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
EC/BH1-8 [Points BH1-BH8 on drawing 03407.00003.22.BH 1.0, received on 30/09/14 in support of application for variation EPR/GP3793FY/V009]	Water level (cm)	Monthly	As agreed by the Environment Agency	Report to be submitted to the Environment Agency within one month of monitoring being carried out
	pH			
	Temperature (°C)			
	Electrical conductivity (µs/cm)			
	BOD atu (mg/l)			
	Ammoniacal nitrogen (mg/l)			
	Nitrate (mg/l)			
	Nitrite (mg/l)			
	Soluble reactive phosphorus (+/- 0.05mg/l)			
	Potassium (mg/l)			

**Table S3.6 Leachate monitoring requirements - open windrow composting**

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
LMGW [Point LMGW on the Site Plan in variation notice EPR/GP3793FY/V006 dated 08/10/10]	Freeboard on lagoons	Daily	As agreed by the Environment Agency	Freeboard in lagoons to be no less than 0.75m measured vertically from the top of the southern wall  Report on chemical determinands to be submitted to the Environment Agency within one month of monitoring being carried out
	Depth of contained liquid (within 0.1m)	Daily		
	Simazine (ng/l) (+/- 10ng)	Annually		
	Atrazine (ng/l)	Annually		
	Malathion (ng/l)	Annually		
	Endosulphan (ng/l)	Annually		
	Hexachlorobenzene (ng/l)	Annually		
	Zinc (mg/l)	Annually		
	Copper (mg/l)	Annually		
	Nickel (mg/l)	Annually		
	Boron (mg/l)	Monthly		
	pH	Monthly		
	Temperature (°C)	Monthly		
	Electrical conductivity (20 deg µs/cm)	Monthly		
	Ammoniacal nitrogen (mg/l)	Monthly		
	Nitrate (mg/l)	Monthly		
	Nitrite (mg/l)	Monthly		
Soluble reactive phosphorus (mg/l)	Monthly			
Potassium (mg/l)	Monthly			

<b>Table S3.7 Process monitoring requirements</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Biogas from Digester(s)	Flow	Continuous	In accordance with EU weights and measures Regulations	--
	Methane	Continuous	None specified	Gas monitors to be calibrated every 6 months to manufacturer's recommendations
	Hydrogen sulphide	Daily	None specified	--
Biofilters	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	
Waste reception buildings; Digester(s); Storage tank(s); Maturation area	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary
Digesters and storage tanks	Integrity checks	Weekly	Visual assessment	--
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.
	Moisture	None specified	--	
Internal for each composting batch during stabilisation stage	Temperature	At least weekly	Temperature probe	Equipment shall be calibrated on a 4 monthly basis or as agreed in writing by the Environment Agency
	Moisture	None specified	--	

<b>Table S3.8 Bioaerosol monitoring requirements</b>					
<b>Location or description of point of measurement</b>	<b>Parameter</b>	<b>Bioaerosol threshold limits (CFU m<sup>-3</sup>)</b>	<b>Monitoring frequency [note 1]</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
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, and, for gram-negative bacteria, together with the Environment Agency's "Guidance on the evaluation of bioaerosol risk assessments for composting facilities"	As described in the Industry Standard Protocol, including all the additional data requirements specified therein
	Aspergillus Fumigatus	500			
Note 1 - Monitoring frequency may be reduced to twice a year after the first year of operation if agreed in writing by the Environment Agency.					

## Schedule 4 – Reporting

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

<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Emissions to air Parameters as required by condition 3.5.1	A6	Every 12 months	1 January, 1 April, 1 July, 1 October
Emissions to water Parameters as required by condition 3.5.1	W1	Every 6 months	1 January, 1 July
Surface water monitoring Parameters as required by condition 3.5.1	ECBW/D	Monthly	From date of permit issue
Groundwater monitoring Parameters as required by condition 3.5.1	EC/BH 1-8	Monthly	From date of permit issue
Leachate monitoring Parameters as required by condition 3.5.1	LMGW	Monthly	From date of permit issue
Process monitoring Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.7	To be provided electronically upon request by the Environment Agency	From date of permit issue
Bioaerosols monitoring Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.8	Every 4 months	--

<b>Parameter</b>	<b>Units</b>
Electricity generated	MWh
Biomethane generated	tonnes or m <sup>3</sup>
Liquid digestate	tonnes or m <sup>3</sup>
Solid digestate	tonnes
Processed compost	tonnes

<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Water usage	Annually	tonnes or m <sup>3</sup>
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes or m <sup>3</sup>
Emergency flare operation	Annually	hours
Biomethane exported	Annually	tonnes or m <sup>3</sup>

<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Air	Form air 1 or other form as agreed in writing by the Environment Agency	05/12/2016
Water	Form water 1 or other form as agreed in writing by the Environment Agency	05/12/2016
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	05/12/2016
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	05/12/2016
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	05/12/2016
Waste returns	E-waste Return Form	05/12/2016

# 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	

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

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
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

<b>(c) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</b>	
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.

“ADQP” means Anaerobic Digestion Quality Protocol

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

“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 300, 1000 and 500 CFU m<sup>-3</sup> for gram-negative bacteria, 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 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.

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

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

“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.

“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 varnish).

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

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

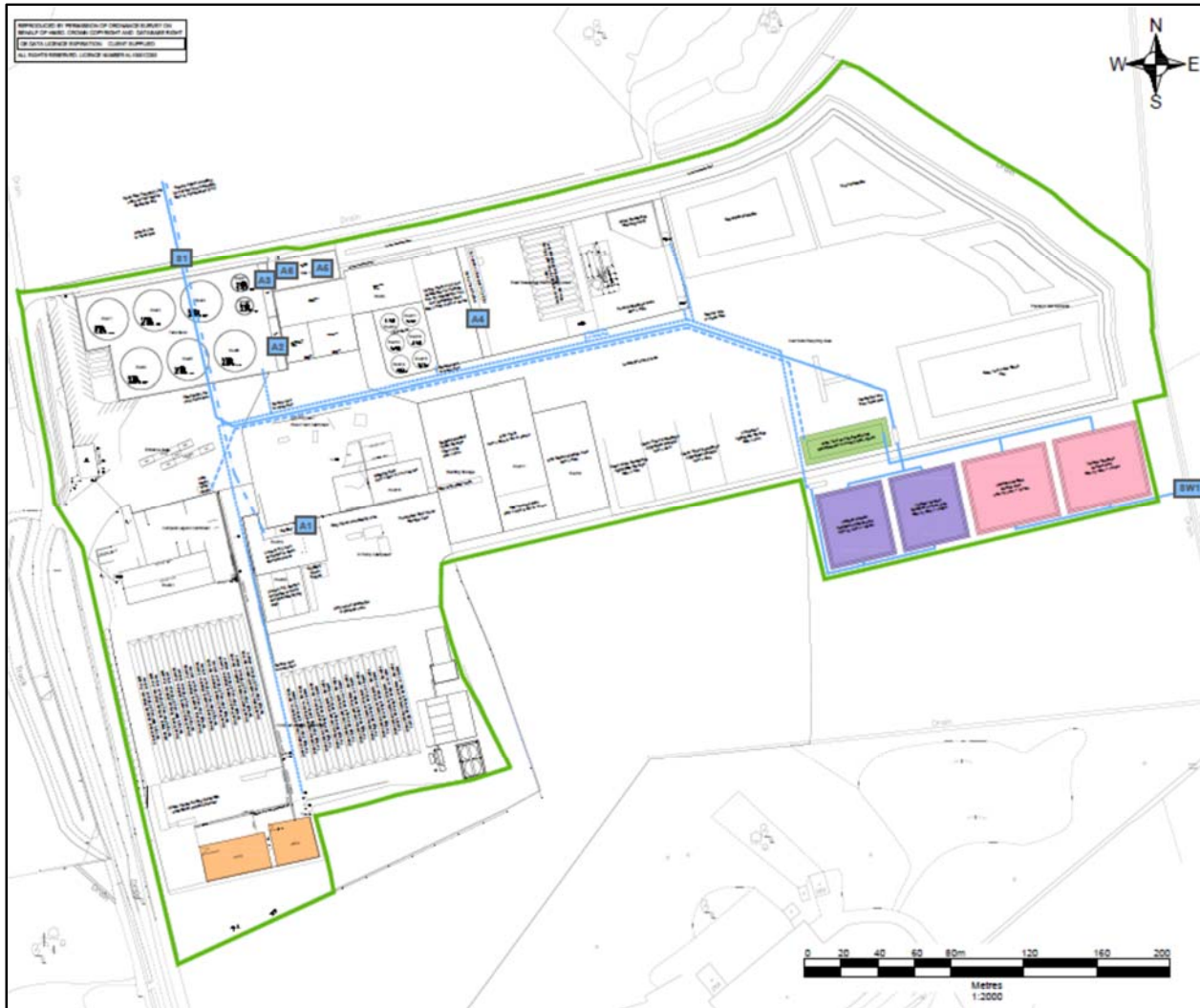
“year” means calendar year ending 31 December.

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:

1. 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, 3% or 5% for gaseous fuels, 6% dry for solid fuels; and/or
2. 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  
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