

# Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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M D Recycling Limited

Unit 1- Crugmore Farm  
Penparc  
Cardigan  
SA43 1RD

Permit number

EPR/AB3097HG

# Unit 1- Crugmore Farm

## Permit number EPR/AB3097HG

### Introductory note

#### **This introductory note does not form a part of the permit**

The main features of the permit are as follows.

This is a Tier 3 bespoke permit for:

1. permanent deposit of waste in/on land for the purpose of construction;
2. biological treatment (open windrow composting); and
3. inert and excavation waste transfer station with treatment.

Permitted wastes are limited to inert and non-hazardous wastes, no hazardous wastes are permitted. All treatment is for the purpose of recovery only. Treatment may be by either mechanical and/or manual methods. Treatment operations at the site are set out in Table S1.1 and are suitable to each of the permitted facilities (activities).

The maximum total quantity of waste accepted on site shall not exceed 170,000 tonnes per year.

For the permanent deposit of waste in/on land activity, no more than 75,704 tonnes shall be used in total, to complete the developments detailed in the approved waste recovery plan.

Relevant storage and treatment capacity thresholds have been included in the permit to reflect the legal waste facility operational limits; above which, the site would be operating as an Industrial Emissions Directive installation. (See Table S1.1 for relevant limits.)

All non-hazardous wastes shall be stored and treated outside, on impermeable surface with sealed drainage. Inert wastes can be stored on either hardstanding or on impermeable surface with sealed drainage. The drainage from the composting area will run-off from the impermeable surface via a 3 stage class 1 oil interceptor, silt collection and separation system, to a bunded lagoon system with a reed-bed outlet on each lagoon, prior to being tankered offsite or reused in the composting process.

This permit does not allow any point source emission into surface waters or groundwater except the drainage from the aggregate processing area in line with the limits set out in Table S1.1.

All emissions from the activity which are not controlled via actual emission limits are controlled through the 'emission of substances not controlled by emission limits condition' and any all relevant process requirements set out in Tables S1.1 and S1.2.

For the composting activity there are monitoring and reporting requirements on:

- The temperature and moisture for each of the composting windrows. (See Table S3.1 for full requirements.)

- Bioaerosols (Gram-negative bacteria, Total bacteria, and Aspergillus Fumigatus). (See Table S3.2, S4.1 and S4.2 for full requirements.)

The amount of biodegradable waste that can be on site at any one time has been limited to 500 tonnes (see table S1.1). This limit may be removed once the pre-operational measures for future development (FP01) has been discharged. This would happen once the site specific bioaerosol risk assessment has been amended to demonstrate that appropriate measures are in place to control bioaerosols to an acceptable level at the nearby sensitive receptors, and agreed in writing by Natural Resources Wales.

The burning of any wastes, either in the open, inside buildings or in any form of incinerator is not permitted.

The status log of the 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>   |
| Application<br>EPR/AB3097HG/A001   | Duly made<br>22/05/15 | Application for: <ul style="list-style-type: none"> <li>- permanent deposit of waste in/on land for the purpose of construction;</li> <li>- biological treatment (open windrow composting); and</li> <li>- inert and excavation waste transfer station with treatment.</li> </ul> |
| Additional information received in response to Schedule 5 notice sent 09/07/15 | 27/07/15              | Consisting of information on: <ul style="list-style-type: none"> <li>- waste codes</li> <li>- quality protocol</li> <li>- site infrastructure and site drainage</li> <li>- disposal activities.</li> </ul>  |
| Additional information received in response to Schedule 5 notice sent 09/07/15 | 28/07/15              | Consisting of information on site infrastructure and site drainage.   |
| Additional information received in response to Schedule 5 notice sent 09/07/15 | 01/09/15              | Consisting of an amended Environment Management System.   |
| Additional information received in response to Schedule 5 notice sent 09/07/15 | 04/09/15              | Consisting of: <ul style="list-style-type: none"> <li>- odour management plan; and</li> <li>- bioaerosol management plan.</li> </ul>  |
| Additional information received in response to Schedule 5 notice sent 09/07/15 | 15/09/15              | Consisting of revised bioaerosol management plan.   |
| Permit determined<br>EPR/AB3097HG  | 30/10/15              | Permit issued to M D Recycling Limited.   |

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**  
**EPR/AB3097HG**

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

**M D Recycling Limited** (“the operator”),

whose registered office is

**Crugmore Farm**  
**Penparc**  
**Cardigan**  
**Ceredigion**  
**SA43 1RD**

company registration number **07317029**

to operate waste operations at

**Unit 1- Crugmore Farm**  
**Penparc**  
**Cardigan**  
**SA43 1RD**

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

| Name                     | Date              |
|--------------------------|-------------------|
| <b>Mutluluk Williams</b> | <b>30/10/2015</b> |

Authorised on behalf of Natural Resources Wales

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

1.2.1 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.

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

## 2 Operations

### 2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

### 2.2 The site

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

### 2.3 Operating techniques

2.3.1 (a) 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 Natural Resources Wales.

- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.

2.3.2 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2 table(s) S2.1 [, S2.2 etc.]; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

## **2.4 Pre-operational conditions**

2.4.1 The operations specified in schedule 1 table S1.3 shall not commence until the measures specified in that table have been completed.

# **3 Emissions and monitoring**

## **3.1 Emissions of substances not controlled by emission limits**

3.1.1 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.

3.1.2 The operator shall:

- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.

3.1.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

## **3.2 Odour**

3.2.1 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 Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

### **3.3 Noise and vibration**

- 3.3.1 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 Natural Resources Wales, 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.
- 3.3.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

### **3.4 Pests**

- 3.4.1 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.
- 3.4.2 The operator shall:
- (a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
  - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural resources Wales.

### **3.5 Monitoring**

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) process monitoring specified in table S3.1;
  - (b) bioaerosol monitoring specified in table S3.2.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 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 [,S3.3 etc.] unless otherwise agreed in writing by Natural Resources Wales.

## 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 Natural Resources Wales, 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 Natural Resources

### 4.2 Reporting

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

4.2.2 Within one month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, 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
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

### 4.3 Notifications

4.3.1 Natural Resources Wales shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
- (b) the breach of a limit specified in the permit; or
- (c) any significant adverse environmental effects.

- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

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

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

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

In any other case:

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

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.

## **4.4 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 "without delay", in which case it may be provided by telephone.

# Schedule 1 - Operations

| Table S1.1 activities   |  |  |
|---|--|--|
| Activity reference  | Description of activities for waste operations   | Limits of activities   |
| A1- permanent deposit of waste in/on land for the purpose of construction | <p><b>R13:</b> Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p><b>R3:</b> Recycling/ reclamation of organic substances which are not used as solvents</p> <p><b>R5:</b> Recycling/reclamation of other inorganic materials</p>  | <p>Waste shall be stored on hardstanding or on an impermeable surface with sealed drainage prior to use.</p> <p>The activities must be carried out in accordance with the approved waste recovery plan.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> <li>- screening;</li> <li>- grading;</li> <li>- crushing;</li> <li>- metal removal via metal separator magnet; and</li> <li>- the permanent deposit in or on land of waste for the purpose of recovery only.</li> </ul> <p>Waste types as specified in Table S2.1</p> |
|   | <p><b>R13:</b> Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p><b>R3:</b> Recycling/ reclamation of organic substances which are not used as solvents</p> <p><b>R5:</b> Recycling/ reclamation of other inorganic compounds</p> | <p>All non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage.</p> <p>All inert waste must be stored and treated on hardstanding or on an impermeable surface with sealed drainage.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> <li>- screening;</li> <li>- grading;</li> <li>- crushing; and</li> <li>- metal removal via metal separator magnet</li> </ul> <p>of permitted waste for the purpose of recovery only.</p> <p>Waste types as specified in Table S2.2.</p>            |
|   | <p>Discharge of integral site drainage from the emission points indicated on the plan reference "Aggregate soakaway location plan" as incorporated in Table S1.2 of this permit.</p>   | <p>Drainage consisting solely of:</p> <ul style="list-style-type: none"> <li>- clean, rainfall dependant drainage from areas of the site not used in connection with the storage and/or treatment of waste</li> <li>- from the aggregate processing area via a rubble drain, 3 stage class 1 oil interceptor, sediment and debris catchment system, and settlement lagoons prior to discharge to soakaway.</li> </ul> <p>No visible oil, grease or suspended solids shall be present in the discharge.</p> <p style="text-align: right;"><i>Table continued overleaf</i></p>                   |

|   |  |   |
|---|--|---|
| <p><b>A3 –</b><br/>Biological treatment (open windrow composting)</p> | <p><b>R13:</b> Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p><b>R3:</b> Recycling/ reclamation of organic substances which are not used as solvents</p> | <p>All non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage.</p> <p>Drainage can be treated on site, prior to being tankered offsite, or reused in the composting process.</p> <p>Treatment operations, prior to and/or post biological treatment, shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> <li>- sorting and/or separation;</li> <li>- shredding;</li> <li>- screening; and</li> <li>- metal removal via metal separator magnet</li> </ul> <p>of permitted waste for the purpose of recovery only</p> <p>Biological treatment operations shall be limited to:</p> <ul style="list-style-type: none"> <li>- aerobic composting in open windrows</li> <li>- stabilisation/maturation</li> </ul> <p>of permitted waste for the purpose of recovery only.</p> <p>The storage, physical treatment and composting of wastes under anaerobic conditions shall be prevented.</p> <p>Each composting batch shall undergo an identifiable sanitisation and stabilisation stage.</p> <p>There shall be no more than 500 tonnes of biodegradable waste on site at any one time, until a time when pre-operational measure for future development FP01 is discharged.</p> <p>The biological treatment of waste for the purpose of recovery or a mix of recovery and disposal, shall be limited to less than 75 tonnes per day in total at the site.</p> <p>Waste types as specified in Table S2.3.</p> |
|---|--|---|

**Table S1.2 Operating techniques**

| Description  | Parts                 | Date Received |
|--|-----------------------|---------------|
| Technical Guidance Document: 'How to comply with your environmental permit'                                  | All relevant sections | N/A           |
| Sector Guidance Note IPPC S5.06: Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste | All relevant sections | N/A           |
| Guidance on the evaluation of bioaerosol risk assessments for composting facilities                          | All relevant sections | N/A           |
| The Composting Industry Code of Practice (AfOR)  | All relevant sections | N/A           |

**Table S1.2 Operating techniques**

| Description   | Parts   | Date Received |
|---|---|---------------|
| Industry guide for prevention and control of odours at biowaste processing facilities (AfOR)  | All relevant sections   | N/A           |
| Quality Protocol for Composting (WRAP & Environment Agency)                                   | All relevant sections   | N/A           |
| Standardised protocol for the monitoring of bioaerosols at open composting facilities (AfOR). | All relevant sections   | N/A           |
| Application   | Waste Recovery Plan- Compost Facility October 2013. All sections  | 25/03/15      |
|   | Pollution Prevention method Statement- July 2012. Sections:<br>- Surface water protection   | 18/05/15      |
|   | Dust Suppression Method Statement- August 2015. Sections:<br>- Crushing and Screening Operation Mitigation Measures<br>- Storage Stockpile Area Mitigation Measures   |               |
| Response to Schedule 5 Notice dated 09/07/15  | Response to Question 4 on site infrastructure and drainage arrangements via email from Nicole Williams  | 27/07/15      |
|   | Aggregate soakaway location plan  | 28/07/15      |
|   | Odour Risk Assessment and Management Plan   | 04/09/15      |
|   | Bioaerosol Risk Assessment and Management Plan. Sections:<br>- 4.1.1- Receipt of Green Waste, Off Loading and Shredding<br>- 4.1.2- Windrow Composting<br>- 4.1.4- Screening, Loading and Dispatch of the Final Product<br>- 4.5 Maintenance programme<br>- 4.6 Bioaerosol monitoring<br>- 4.7 Emergencies and incidents<br>- Table 2 - Bio-aerosol Mitigation Measures | 15/09/15      |

**Table S1.3 Pre-operational measures for future development**

| <b>Reference</b> | <b>Operation</b>        | <b>Pre-operational measures</b>  |
|------------------|-------------------------|--|
| FPO1             | Open windrow composting | <p>The operator shall submit, for written approval, a revised site specific bioaerosols risk assessment demonstrating that appropriate measures will be used on site to control bioaerosols to an acceptable level at the nearby sensitive receptors, where the amount of biodegradable waste on site exceeds 500 tonnes at any one time. The measures identified in the amended risk assessment should be in line with relevant, current guidance for the control of bioaerosols (at the time of producing the amended risk assessment).</p> <p>Once approved in writing by Natural Resources Wales, the limit of 500 tonnes of biodegradable waste set out in Table S1.1 will be superseded and the operator may store biodegradable waste in line with the total tonnages supported in the amended bioaerosols risk assessment.</p> |

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

**Table S2.1 Permitted waste types and quantities for permanent deposit of waste in/on land for the purpose of construction**

|                         |  |
|-------------------------|--|
| <b>Maximum quantity</b> | The maximum total quantity of waste to be accepted on site shall not exceed 170,000 tonnes per year.<br>In any case, no more than 75,704 tonnes shall be used in total, to complete the developments detailed in the approved waste recovery plan.   |
| <b>Exclusions</b>       | Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>• consisting solely or mainly of dusts, powders or loose fibres;</li> <li>• hazardous waste or waste whose permanent deposit in or on land will cause pollution;</li> <li>• waste in sludge or liquid form; or</li> <li>• waste consisting of or contaminated with Japanese Knotweed or other invasive species.</li> </ul> |
| <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 01                | concrete   |
| 17 01 02                | bricks   |
| 17 01 03                | tiles and ceramics   |
| 17 01 07                | mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06  |
| <b>17 03</b>            | <b>bituminous mixtures, coal tar and tarred products</b>   |
| 17 03 02                | bituminous mixtures other than those mentioned in 17 03 01 (consisting only of road base and road plannings (other than those containing coal tar))  |
| <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 (consisting only of uncontaminated wastes)  |
| <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 09                | minerals (for example sand, stones)  |

**Table S2.2 Permitted waste types and quantities for inert and excavation waste transfer station with treatment**

|                         |   |
|-------------------------|---|
| <b>Maximum quantity</b> | The maximum quantity of waste to be accepted on site shall not exceed 170,000 tonnes per year.  |
| <b>Exclusions</b>       | Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>• consisting solely or mainly of dusts, powders or loose fibres;</li> <li>• sludges; or</li> <li>• odorous or odour producing.</li> </ul> |
| <b>Waste code</b>       | <b>Description</b>  |
| <b>17</b>               | <b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>  |
| 17 01                   | concrete, bricks, tiles and ceramics  |
| 17 01 01                | concrete  |
| 17 01 02                | bricks  |
| 17 01 03                | tiles and ceramics  |
| 17 01 07                | mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06   |
| 17 02                   | wood, glass and plastic   |
| 17 02 02                | glass (consisting only of clean glass)  |
| 17 03                   | bituminous mixtures, coal tar and tarred products   |
| 17 03 02                | bituminous mixtures other than those mentioned in 17 03 01  |
| 17 05                   | soil (including excavated soil from contaminated sites), stones and dredging spoil  |
| 17 05 04                | soil and stones other than those mentioned in 17 05 03 (consisting only of uncontaminated wastes)   |
| 17 05 08                | track ballast other than those mentioned in 17 05 07  |
| <b>20</b>               | <b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>  |
| 20 02                   | garden and park wastes (including cemetery waste)   |
| 20 02 02                | soil and stones   |

**Table S2.3 Permitted waste types and quantities for biological treatment (open windrow composting)**

|                         |   |
|-------------------------|---|
| <b>Maximum quantity</b> | The maximum quantity of waste to be accepted on site shall not exceed 170,000 tonnes per year.  |
| <b>Exclusions</b>       | Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>• consisting solely or mainly of dusts (except sawdust), powders or loose fibres;</li> <li>• catering waste and other wastes containing animal by-products covered by the Animal By-Products Regulations;</li> <li>• waste in sludge or liquid form;</li> <li>• hazardous wastes;</li> <li>• wastes containing treated wood;</li> <li>• wastes containing wood-preserving agents or other biocides;</li> <li>• wastes containing persistent organic pollutants; or</li> <li>• wastes containing Japanese Knotweed.</li> </ul> |
| <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 06                | animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site (consisting only of animal faeces, urine and manure (including spoiled straw))   |
| 02 01 07                | wastes from forestry (consisting only of 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 04                | materials unsuitable for consumption or processing (consisting only of biodegradable wastes)  |
| <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 (consisting only of spent grains or hops)   |
| 02 07 02                | wastes from spirits distillation (consisting only of whisky filter sheets or cloths)  |
| 02 07 04                | materials unsuitable for consumption or processing (consisting only of biodegradable wastes)  |
| 02 07 99                | wastes not otherwise specified (consisting only of malt husks, malt sprouts, yeasts and yeast like residues)  |
| <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 (excluding wastes containing veneers or preservatives)  |
| <b>03 03</b>            | <b>wastes from pulp, paper and cardboard production and processing</b>  |
| 03 03 01                | waste bark and wood   |
| 03 03 10                | fibre rejects, fibre-, filler- and coating-sludges from mechanical separation (consisting only of fibre rejects)  |
| <b>04</b>               | <b>WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES</b>  |
| <b>04 02</b>            | <b>wastes from the textile industry</b>   |
| 04 02 10                | organic matter from natural products (for example grease, wax) (consisting only of undyed and untreated wastes)   |
| <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>   |

**Table S2.3 Permitted waste types and quantities for biological treatment (open windrow composting)**

|                         |   |
|-------------------------|---|
| <b>Maximum quantity</b> | The maximum quantity of waste to be accepted on site shall not exceed 170,000 tonnes per year.  |
| <b>Exclusions</b>       | Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>• consisting solely or mainly of dusts (except sawdust), powders or loose fibres;</li> <li>• catering waste and other wastes containing animal by-products covered by the Animal By-Products Regulations;</li> <li>• waste in sludge or liquid form;</li> <li>• hazardous wastes;</li> <li>• wastes containing treated wood;</li> <li>• wastes containing wood-preserving agents or other biocides;</li> <li>• wastes containing persistent organic pollutants; or</li> <li>• wastes containing Japanese Knotweed.</li> </ul> |
| <b>Waste code</b>       | <b>Description</b>  |
| 15 01 01                | paper and cardboard packaging (excluding wastes containing veneers, plastic coating or laminates)   |
| 15 01 03                | wooden packaging (consisting only untreated waste)  |
| 15 01 05                | composite packaging (consisting only of biodegradable organic packaging)  |
| 15 01 09                | textile packaging (consisting only of packaging made entirely from natural biodegradable fibres)  |
| <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 (consisting only untreated waste)  |
| <b>17 05</b>            | <b>soil (including excavated soil from contaminated sites), stones and dredging spoil</b>   |
| 17 05 06                | dredging spoil other than those mentioned in 17 05 05 (consisting only of dewatered dredging spoil and plant tissue waste from inland waters, not containing Japanese Knotweed)   |
| <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 (consisting only of wastes listed in this table (S2.3))   |
| <b>19 05</b>            | <b>wastes from aerobic treatment of solid wastes</b>  |
| 19 05 03                | off-specification compost (consisting only from a process operated according to PAS 100 and QP requirements or another approved standard)   |
| <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 (consisting only of wastes listed in this table (S2.3))   |
| <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 (excluding wastes containing veneers, plastic coating or laminates)   |
| 20 01 38                | wood other than that mentioned in 20 01 37  |
| 20 01 39                | plastics (consisting only of compostable plastics)  |
| <b>20 02</b>            | <b>garden and park wastes (including cemetery waste)</b>  |
| 20 02 01                | biodegradable waste (consisting only of biodegradable plant matter)   |
| <b>20 03</b>            | <b>other municipal wastes</b>   |
| 20 03 02                | waste from markets (consisting only of biodegradable wastes)  |

## Schedule 3 – Emissions and monitoring

**Table S3.1 Process monitoring requirements**

| Monitoring point   | Substance or parameter | Monitoring frequency | Monitoring method                     | Other specifications   |
|--|------------------------|----------------------|---------------------------------------|--|
| Internal for each windrow and for any sample of waste or compost | Temperature            | None specified       | Thermocouple probe                    | Monitoring equipment shall be available on-site and used as required to ensure compliance with this permit. Equipment shall be calibrated on a 4 monthly basis or as agreed in writing by Natural Resources Wales. |
|  | Moisture               | None specified       | Moisture meter or moisture touch test |  |

**Table S3.2 Bioaerosol monitoring requirements**

| Location or description of point of measurement   | Parameter              | Bioaerosol threshold limits CFU m <sup>-3</sup> | Monitoring frequency | Monitoring standard or method  | Other specifications  |
|---|------------------------|---|----------------------|--|---|
| Bioaerosols shall be monitored at:<br>- nearest sensitive receptor;<br>- upwind of the site; and<br>- downwind of the site;<br>in accordance with the Industry Standard Protocol. | Gram-negative bacteria | 300   | 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. |
|   | Total bacteria         | 1000  |                      |  |   |
|   | Aspergillus Fumigatus  | 500   |                      |  |   |

## Schedule 4 - Reporting

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

| <b>Table S4.1 Reporting of monitoring data</b>          |   |                               |
|---|---|-------------------------------|
| <b>Parameter</b>  | <b>Reporting period</b>   | <b>Period begins</b>          |
| Bioaerosol monitoring as required by condition 3.5.1(b) | Every 4 months or as agreed in writing by Natural Resources Wales | 1 January, 1 May, 1 September |

| <b>Table S4.2 Reporting forms</b> |  |
|-----------------------------------|--|
| <b>Media/parameter</b>            | <b>Reporting format</b>  |
| Bioaerosol monitoring             | As specified in the Industry Standard Protocol or other form as agreed in writing by Natural Resources Wales |

# 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   |  |
| Measures taken, or intended to be taken, to stop the emission                       |  |

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

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

**Part B - to be submitted as soon as practicable**

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

|                  |  |
|------------------|--|
| <b>Name*</b>     |  |
| <b>Post</b>      |  |
| <b>Signature</b> |  |
| <b>Date</b>      |  |

\* authorised to sign on behalf of the operator

## Schedule 6 - Interpretation

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

“*Annex II*” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council of on waste.

“*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 Natural Resources Wales 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*.

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

“*composting*” means the biological decomposition of organic materials, under conditions that are predominantly aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat.

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

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

“*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

“*maturation*” means a stage when by agitating and turning the compost it no longer results in reheating and the monitored temperature falls to ambient without the compost being too dry or anaerobic. Phytotoxins that are formed during the 'active' composting phase are metabolised by micro-organisms, which will result in the final material not being harmful to plants. This usually

coincides with drop in pH toward neutral, and the conversion of ammonia into nitrates and recolonisation of beneficial micro-organisms. The maturation phase may need active management by turning to prevent the material becoming anaerobic.

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

“*nearest sensitive receptor*” means the nearest place to the permitted activities where people are likely to be for prolonged or frequent periods. This term would therefore apply to dwellings (including any associated gardens) and to workplaces where workers would frequently be present. We would not normally regard a place where people are likely to be present for less than 6 hours at one time as being a sensitive receptor. The term does not apply to those controlling the permitted facility, their staff when they are at work or to visitors to the facility as their health is covered by Health and Safety at Work legislation. NB The term would apply to dwellings occupied by the family of those controlling the permitted facility.

“*Pests*” means Birds, Vermin and Insects.

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

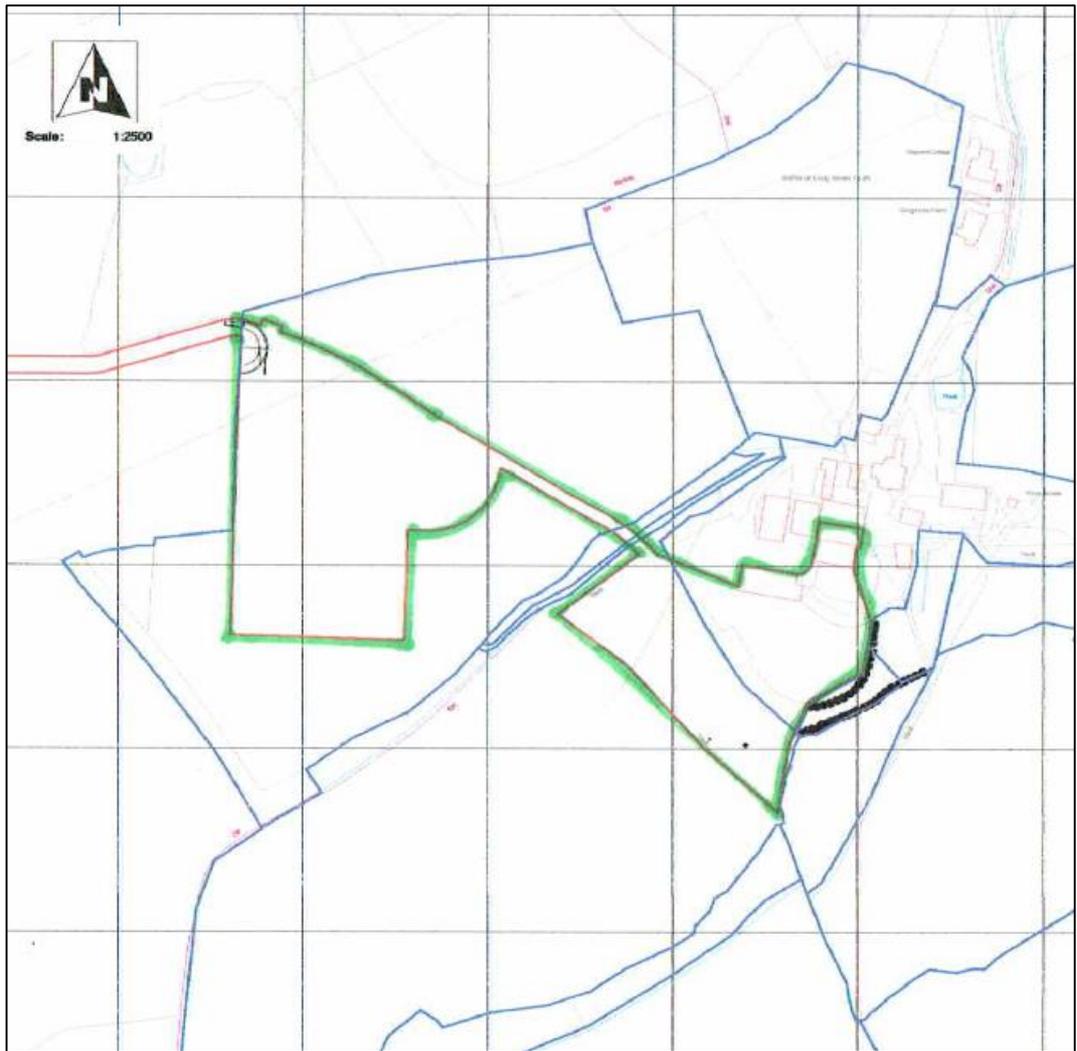
“*R*” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council of on Waste.

“*waste code*” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) 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.

# Schedule 7 - Site plan



END OF PERMIT