

# **Caulmert Limited**

Engineering, Environmental & Planning  
Consultancy Services

## **Brecon Waste Transfer Station**

**Potters Waste Management**

## **Supporting Document**

**Environmental Permit Variation Application**

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## APPROVAL RECORD

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**Client:** Sundorne Products (Llanidloes) Limited  
(t/a Potters Waste Management)

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## **1. INTRODUCTION**

### **1.1 Application context**

- 1.1.1 Caulmert Limited were appointed by Sundorne Products (Llanidloes) Limited, trading as Potters Waste Management, to prepare an Application for a variation to an existing permit for the Brecon Waste Transfer Station in Powys (hereinafter called 'the site').
- 1.1.2 The site has been permitted as a transfer station and civic amenity site since 1993 (licence number 03/93 or EAWML/30106). Sundorne Products (Llanidloes) Limited has operated the site as a transfer station on behalf of Powys County Council since 2001. The latest permit variation was issued in September 2012, EPR/RP3399FC/V002.
- 1.1.3 Additional recycling is being carried out at the site in the existing waste transfer buildings, therefore additional equipment is being used to separate recyclates and as a consequence room for storage of wastes within the building is limited.
- 1.1.4 It is proposed that some waste types are stored temporarily outside the building on impermeable pavement to allow for more space within the buildings. The proposed site layout can be seen in Drawing 2778.CAU.XX.XX.DR.V.0002. Wastes to be stored outside include untreated green waste and mixed glass on a concrete slab with bay walls and treated plastics, cans, paper and cardboard which have been baled and are temporarily stored.
- 1.1.5 The main purpose of the variation is to amend Table S1.1 of the permit to account for the storage of additional waste types outside the transfer building with drainage to the existing cesspool.
- 1.1.6 Pre application discussions have been held with Natural Resources Wales regarding the scope of the application and surface water drainage.

### **1.2 Site location**

- 1.2.1 The site is located within a rural area near Llanwern, Brecon, Powys, Wales. The site location is shown on drawing 2778-CAU-XX-XX-DR-V-0001.

### **1.3 Document structure**

- 1.3.1 This Supporting Document has been prepared to provide additional information to support the information provided in the environmental permit variation application form parts C2 and C4. To aid cross-referencing between this Supporting Document and the application form, the various issues are presented in the same order as in the application form and the headings in this document include the relevant part of the application form as well as the specific question number to which the information relates.

## 2. PROPOSED CHANGES

### 2.1 Non-technical summary (Part C2 question 2b)

- 2.1.1 The site has been permitted as a transfer station and civic amenity site since 1993 (licence number 03/93). Sundorne Products (Llanidloes) Limited has operated the site as a transfer station on behalf of Powys County Council since 2001.
- 2.1.1 The site setting is within a rural area in Brecon, near Llanwern, in Powys, Wales. It is located off the A470, approximately 5 km to the north east of Brecon, and 1.5 km south of Felin Fach. There are a few domestic dwellings within 500 metres. There is a Special Area of Conservation (SAC), Drostre Bank, which at its closest point is within 500 metres of the site. The nearest residential receptors are located 120m south east and there are no schools or hospitals within 500 metres of the site.
- 2.1.2 A full environmental risk assessment has been carried out in line with the Environment Agency's H1 guidance. The risk assessment identifies the necessary control measures for the proposed operations on site. The identified control measures constitute the technical standards that will be in place.
- 2.1.3 The current activities on the site include the bulking up of wastes for disposal or recovery elsewhere. The current permit allows for sorting, separation, screen, baling, shredding, crushing, compaction, dewatering, mechanical segregation and bulking up of wastes. The total quantity of waste that can be accepted at site is less than 25,000 tonnes per year.
- 2.1.4 Potters Waste Management have their own Environmental Management System in place for Brecon Transfer Station, implemented in 2012.
- 2.1.5 The current permit places restrictions on wastes stored outside the building, however as a result of a proposed intensification of recycling activities this application has been prepared to amend the current storage arrangements.
- 2.1.6 The proposed changes to the site operations are as follows:
- 1) To vary the permit to allow for additional waste types to be accepted

- 2) To vary the permit to allow for the storage of additional waste types outside of the building, in particular green waste and glass;
- 3) The green waste will be stored on concrete pavement within a 3m high bay with surface water from this area draining to the existing cess pool for disposal off-site;

### 3. OPERATOR ABILITY

#### 3.1 Relevant offences (Part C2 question 3a)

3.1.1 The company has one relevant conviction in relation to a conviction in January 2011. The Environment Agency already holds on file a copy of a post conviction plan. This post conviction plan was prepared and submitted to the Agency in connection with an application for Bryn Posteg Composting Site submitted in September 2011, application reference EPR/CB3834RQ/A001.

3.1.2 The relevant people of Sundorne Products (Llanidloes) Limited are detailed in the table below.

**Table 2.1: Relevant people of Sundorne Products (Llanidloes) Limited**

Name	Position	Date of Birth
James Potter	Director	29 September 1959
Jean Potter	Company Secretary	20 July 1956

#### 3.2 Technical ability (Part C2 question 3b)

3.2.1 The technically competent manager for the site holds Certificates of Technical Competence (CoTC) certificates for transfer of hazardous waste and treatment of non-hazardous waste. Copies of the CoTC certificates for the nominated technically competent manager, Mark Phillips, are supplied in Appendix 1.

#### 3.3 Management system (Part C2 question 3d)

3.3.1 The management system for the site comprises a combination of documents covering generic issues for which there are company-wide procedures and site specific issues that are addressed separately.

3.3.2 Sundorne Products (Llanidloes) Limited who operates as Potters Waste Management is part of the Potter Group, along with G.F. Potter who operates as Potters Recycling. There are management systems in place that cover the waste activities within both Potters Recycling and Potters Waste Management. The company-wide management system, which this Site Management System complements, cover generic issues such as:



- the company's environmental policy statement;
- environmental objectives and targets;
- legal compliance;
- plans for training, awareness and competence of staff;
- document management and control procedures;
- records management;
- internal audits; and
- management reviews.

3.3.3 A summary of the management system is contained within Appendix 2 of this document.

3.3.4 The management system will be amended where applicable to reflect the proposed changes.

#### 4. GENERAL SUPPORTING INFORMATION

##### 4.1 Site plans (Part C2 question 5a)

- 4.1.1 Site plans showing the site and its surroundings are presented as part of this application. A description of the relevant plans submitted as part of this application is presented in table 3.1 below.

**Table 3.1: List of submitted site plans**

Drawing No. & Title	Content
<b><i>Site plans</i></b>	
Drawing 2778.CAU.XX.XX.DR.V.0001	Site Location Plan
Drawing 2778.CAU.XX.XX.DR.V.0002	Site Layout
Drawing 2778.CAU.XX.XX.DR.V.0003	Sensitive Receptors
Drawing 2778.CAU.XX.XX.DR.V.0004	Drainage Plan

- 4.1.2 An electronic copy of the drawings is available on the submitted CD for inclusion in the permit.

##### 4.2 Environmental risk assessment (Part C2 question 6)

- 4.2.1 An environmental risk assessment produced in accordance with NRW guidance is presented separately within this application 2778-CAU-XX-XX-RP-V-0302-S0-A0-C1 to account for the changes to the permitted activities.

## 5. ACTIVITIES

### 5.1 Description of the operation (Part C4 question 1a)

5.1.1 Question 1a of application form Part C4 requires a table to be completed with details of each waste operation which will be carried out. This is to include the full Annex IIA or Annex IIB (disposal or recovery) descriptions from the Waste Framework Directive.

5.1.2 Table 1a from the application form has been replicated and completed below. The hazardous waste treatment capacity column is not included as there will be no treatment of hazardous waste.

Waste facilities			
Name of the waste operation	Description of the waste operation	Annex IIA or IIB (disposal and recovery codes) and description	Non-hazardous waste treatment capacity
Transfer station/MRF	Storage and physical treatment consisting of manual sorting, baling, crushing or compaction of waste.	<i>R3 Recycling/reclamation of organic substances which are not used as solvents.</i> <i>R4 Recycling/reclamation of metals and metal compounds.</i> <i>R5 Recycling/reclamation of other inorganic materials.</i> <i>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).</i> <i>D15 Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).</i> <i>D14 Repackaging prior to submission to any of the operations numbered D1 to D13.</i>	200 t/d
Roadsweeping waste treatment	Storage and physical treatment consisting of dewatering and mechanical separation such as screening of roadsweeping waste and non-hazardous gully emptying to recover sand and	<i>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).</i> <i>R3 Recycling/reclamation of</i>	25 t/d

	gravel (grit) and the fine organic matter fractions from the waste.	<i>organic substances which are not used as solvents (including composting and other biological transformation processes).</i> <i>R5 Recycling/reclamation of other inorganic materials.</i>	
Food waste transfer	Storage and bulking up of segregated food waste.	<i>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).</i>	N/A
<b>For all waste operations</b>			
Total storage capacity	500 t		
Annual throughput	<25,000 t/yr		

## 5.2 Types of waste accepted (Part C4 question 1b)

5.2.1 The currently permitted waste types are shown in Table S2.1 below.

Table S2.1 Permitted Waste types and quantities for Waste Transfer Station	
<b>02</b>	<b>WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING</b>
<b>02 01 04</b>	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
<b>02 01 07</b>	Waste plastics (except packaging)
<b>02 02</b>	Wastes from forestry
<b>02 02 03</b>	Wastes from the preparation and processing of meat, fish and other foods of animal origin
<b>02 03</b>	Materials unsuitable for consumption or processing
<b>02 03 01</b>	Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extraction production, molasses preparation and fermentation
<b>02 03 04</b>	Sludges from washing, cleaning, peeling, centrifuging and separation
<b>02 06</b>	Wastes from the baking and confectionary industry
<b>02 06 01</b>	Materials unsuitable for consumption or processing
<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>
<b>17 01 01</b>	Concrete
<b>17 01 02</b>	bricks
<b>17 01 03</b>	Tiles and ceramics
<b>17 01 07</b>	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL,</b>

	<b>INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
<b>20 01</b>	<b>Separately collected fractions (except 15 01)</b>
<b>20 01 01</b>	Paper and cardboard
<b>20 01 02</b>	Glass
<b>20 01 08</b>	Biodegradable kitchen and canteen waste
<b>20 01 10</b>	Clothes
<b>20 01 11</b>	Textiles
<b>20 01 25</b>	Edible oil and fat
<b>20 01 28</b>	Paint, inks, adhesives and resins other than those mentioned in 20 01 27
<b>20 01 30</b>	Detergents other than those mentioned in 20 01 27
<b>20 01 32</b>	Medicines other than those mentioned in 20 01 27
<b>20 01 34</b>	Batteries and accumulators other than those mentioned in 20 01 33
<b>20 01 36</b>	Discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 and 20 01 35
<b>20 01 38</b>	Wood other than that mentioned in 20 01 37
<b>20 01 39</b>	Plastics
<b>20 01 40</b>	Metals
<b>20 01 41</b>	Wastes from chimney sweeping
<b>20 01 99</b>	Other fractions not otherwise specified
<b>20 02</b>	<b>Garden and park wastes (including cemetery waste)</b>
<b>20 02 01</b>	Biodegradable waste
<b>20 02 02</b>	Soil and stones
<b>20 02 03</b>	Other non-biodegradable wastes
<b>20 03</b>	<b>other municipal waste</b>
<b>20 03 01</b>	Mixed municipal waste
<b>20 03 02</b>	Waste from markets
<b>20 03 03</b>	Street-cleaning residues
<b>20 03 07</b>	Bulky waste
<b>20 03 99</b>	Municipal wastes not otherwise specified

5.2.2 Waste types to be stored temporarily outside the waste transfer station on existing impermeable pavement are:

<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>
<b>17 01</b>	Concrete, bricks, tiles and ceramics
<b>17 01 01</b>	Concrete
<b>17 01 02</b>	bricks
<b>17 01 03</b>	Tiles and ceramics
<b>17 01 07</b>	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 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>
<b>20 01 01</b>	Paper and cardboard
<b>20 01 02</b>	Glass
<b>20 01 39</b>	Plastics
<b>20 01 40</b>	Metals
<b>20 02</b>	<b>Garden and park wastes (including cemetery waste)</b>
<b>20 02 01</b>	Biodegradable waste

20 02 02	Soil and stones
20 02 03	Other non-biodegradable wastes
20 03	other municipal waste
20 03 03	Street-cleaning residues
20 03 07	Bulky waste

## 5. EMISSIONS

### 5.3 Point-source emissions (Part C4 question 2)

5.3.1 Some waste types as described in section 5.2.2 will be stored outside the recycling building in bays. Emissions from the site relating to the proposed activity are outlined below.

#### ***Point source emissions to water (other than sewers)***

5.3.2 Runoff from the green waste bay will drain to the existing cess pool for disposal off site. The cess pool is alarmed to monitor the level of liquid in the tank.

5.3.3 Runoff from wastes stored outside on impermeable pavement will drain to the cesspool for offsite disposal.

#### Domestic sewage

5.3.4 No runoff from areas intended for waste handling will be directed to the septic tank and the emission therefore does not need regulating through the permit.

#### Runoff from waste handling areas

5.3.5 Runoff from wastes stored outside on impermeable pavement drains to the cesspool for offsite disposal.

5.3.6 Runoff from the waste storage area will drain to the on-site cess pool which already captures runoff from the glass bay and the front of the building.

#### ***Point source emissions to land***

5.3.7 There are no point source emissions to land.

## 6. OPERATING TECHNIQUES

### 6.1 Technical standards (Part C4 question 3a)

- 6.1.1 Question 3a of Part C4 asks for a description of the proposed technical standards which are described below and process descriptions which are presented in section 7.2.
- 6.1.2 There is no sector specific Technical Guidance Note which sets out indicative best practice standards for waste operations.
- 6.1.3 References to the relevant technical guidance and the specific technical standards documents for the waste operations at this site are summarised in the table below.

Description of waste operation	Relevant technical guidance note	Reference to document setting out technical standards for each activity
<b>Waste operation: Brecon transfer station</b>		
Transfer and treatment of non-hazardous waste.	How to comply	Tables 1, 2, 3 and 4 of the <i>Amenity and Accident Risk Assessment</i> .

### 6.2 Operations description (Part C4 question 3a)

- 6.2.1 With regards to the proposed changes, the control measures identified within the Amenity and Accident Risk Assessment will form the technical standards for the activities proposed.

### 6.3 General requirements – amenity and accidents (Part C4 question 3b)

- 6.3.1 It is a general requirement for all applications to consider the risk of emissions in relation to possible accidents, fugitive emissions, odour and noise and vibration. Risk assessments were carried out using the Environment Agency's H1 Guidance and templates for amenity and accident risk assessment and is provided as part of this application. A specific Odour Management Plan has been produced as part of this permit application, document reference 2778-CAU-XX-XX-RP-V-0302-A0-C1.
- 6.3.2 The risk assessments do not indicate that any of these potential issues are significant for this operation. Management plans for accidents, fugitive emissions, odour and noise and

vibration are contained within the relevant risk assessment matrices (tables 1 to 4) of the Amenity and Accident Risk Assessment.

#### **6.4 Monitoring (Part C4 question 4a)**

7.4.1 There are no emission limits or associated monitoring requirements.



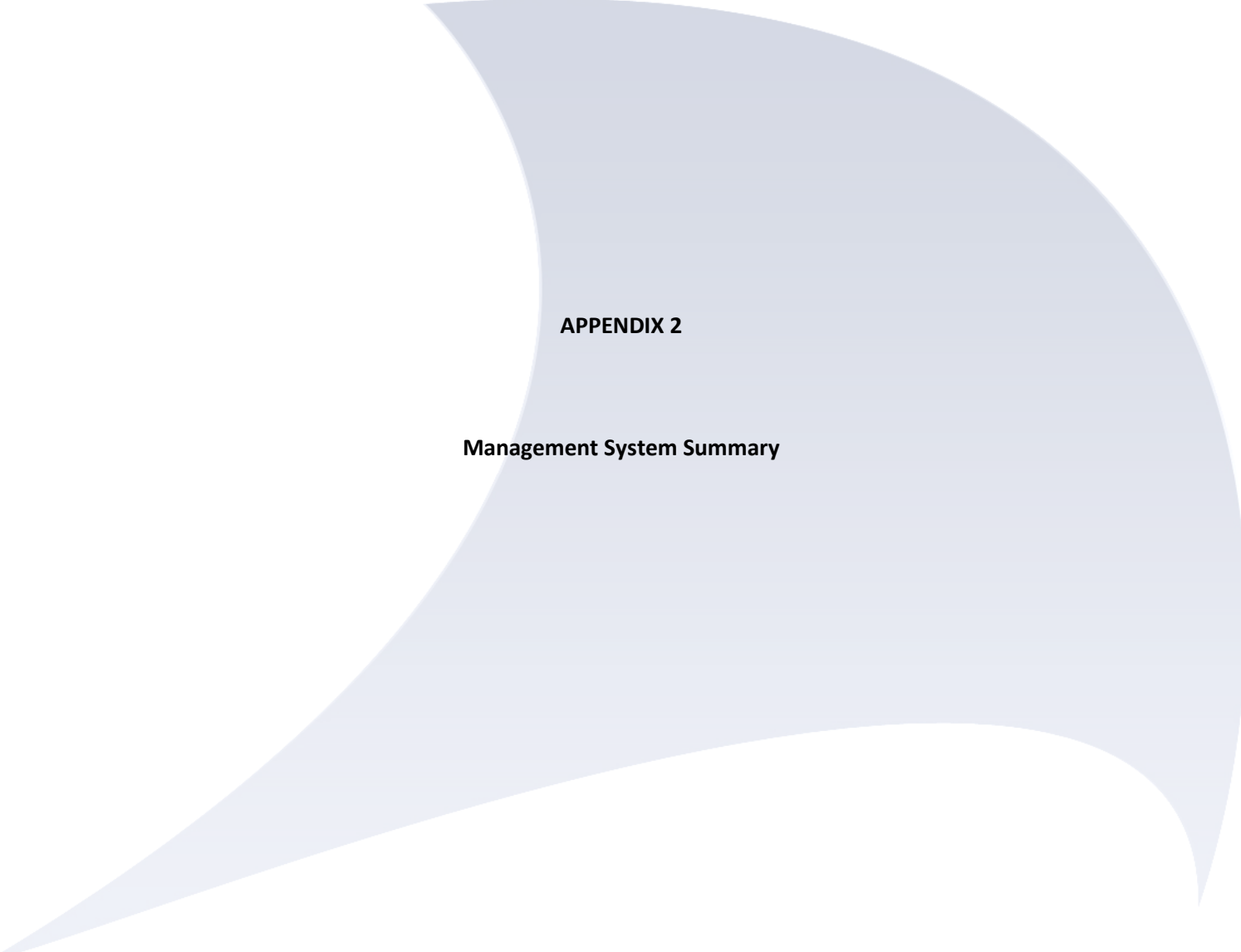
## 7. REFERENCES

1. Natural Resources Wales (2016): Application for an environmental permit: Part C2 - General: Varying a bespoke permit. Version 1.
2. Natural Resources Wales (2016): Application for an environmental permit: Part C4 – Varying a bespoke waste operation permit. Version 1.
3. Natural Resources Wales (2014): How to comply with your environmental permit. Version 8.



## **APPENDIX 1**

### **WAMITAB certificates**



## **APPENDIX 2**

### **Management System Summary**



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