

# Permit with introductory note

## The Environmental Permitting (England & Wales) Regulations 2016

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Whites Recycling Ltd

Thetford Waste Water Treatment and Transfer Station

Brickfields Way

Thetford

Norfolk

IP24 1HX

### **Permit number**

EPR/PP3902LU/A001

# Thetford Waste Water Treatment and Transfer Station

## Permit number EPR/PP3902LU

### Introductory note

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

The main features of the permit are as follows.

Thetford Wastewater Treatment Plant is located at Brickfields Way, Thetford, Breckland, Norfolk. The site lies in a commercial area to the north of Thetford town centre and to the east of the A1066 which connects to the A11 (National Grid Reference TL 86728 84213). The surrounding area is predominantly a commercial and industrial setting, with agricultural land further to the north and residential areas and the town centre to the south. The closest designated site is the Breckland Forest which is a Special Area of Conservation (SAC), Special Protection Area (SPA) and Sites of Special Scientific Interest (SSSI) this is located over 1km west of the site.

The installation is a wastewater treatment plant (WwTP) that falls under Section 5.4 Part A(1)(a)(ii) of the Environmental Permitting (England and Wales) Regulations 2016 - Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical treatment. The facility is engineered to treat liquid and sludgy wastes from food processing and manufacturing activities, prior to discharge to foul sewer under a trade effluent consent with Anglian Water PLC. The final receiving water for the treated effluent is the River Little Ouse approximately 861m south of the site. The facility is designed to treat approximately 400 m<sup>3</sup> of wastewater per day.

The processing building will allow internal delivery of the wastewater via road tankers. The building houses a rotary screener and a skip (that is used in storing the coarse screened material), a Dissolved Air Flotation (DAF) system, a sealed tank for the sludge and an odour control unit (carbon filter). The treatment units also include three bunded 225 m<sup>3</sup> tanks with secondary containment and reinforced concrete walls and floor that are located outside. The tanks are used for storing incoming raw effluent, screened wastewater and treated water. The clarified sub-natant liquid (after treatment in the DAF plant) is discharged to foul sewer under a trade effluent consent, and the remaining sludge is stored in a sealed tank prior to off-site disposal.

There are three-point source emissions from this facility. Emission to air from the odour control unit exhaust fan set, emission to foul sewer from the discharge of treated effluent and emission to surface water sewer for uncontaminated roof water.

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

| Status log of the permit        |                       |  |
|---------------------------------|-----------------------|--|
| Description                     | Date                  | Comments   |
| Application EPR/PP3902LU/A001   | Duly made<br>27/03/23 | Application for non-hazardous wastewater treatment facility  |
| Additional information received | 03/08/23              | First response to Schedule 5 received by email providing information detailing discharge to sewer substances and concentrations, the Anglia Water Discharge Consent, and a revised Odour Management Plan v2. |
|                                 | 23/08/23              | Second response to Schedule 5 received by email providing a revised H1 Assessment.   |
|                                 | 13/09/23              | Final response to Schedule 5 received by email providing information including design details of the abatement equipment, revised Odour Management Plan v3 and Site Layout Plan.                             |

| Status log of the permit          |          |  |
|-----------------------------------|----------|--|
| Description                       | Date     | Comments                               |
| Permit determined<br>EPR/PP3902LU | 06/12/23 | Permit issued to Whites Recycling Ltd. |

End of introductory note

# Permit

## The Environmental Permitting (England and Wales) Regulations 2016

### Permit number

**EPR/PP3902LU**

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**Whites Recycling Ltd.** ("the operator"),

whose registered office is

**The Mine Site  
Mill Lane, South Witham  
Grantham  
Lincolnshire  
NG33 5QN**

company registration number 03765361

to operate an installation at

**Thetford Wastewater Treatment and Transfer Station  
Brickfields Way  
Thetford  
Norfolk  
IP24 1HX**

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

| Name       | Date       |
|------------|------------|
| Kate Booth | 06/12/2023 |

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

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

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

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

## **2 Operations**

### **2.1 Permitted activities**

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

### **2.2 The site**

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

### **2.3 Operating techniques**

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

### **2.4 Improvement programme**

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

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

## **2.5 Pre-operational conditions**

- 2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

## **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 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Where a substance is specified in schedule 3 table S3.1 or S3.2 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.
- 3.1.4 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.
- 3.3.2 The operator shall:
  - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

### **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 and S3.2; and
- (b) process monitoring specified in table S3.3;

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.

## 4 Information

### 4.1 Records

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

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

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

### 4.2 Reporting

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

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

## 4.3 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 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.

- 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 A1(a)(ii) Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by physico-chemical treatment. | D9 – Physico-chemical treatment of non-hazardous waste<br><br>D15 – Storage of non-hazardous waste | From receipt of non-hazardous wastewater to subsequent handling, storage and treatment involving DAF, coagulation and flocculation.<br><br>Treatment shall be carried out on an impermeable surface with sealed drainage system.<br><br>Waste types suitable for storage and treatment are limited to those wastes specified in Table S2.2. |
| <b>Directly Associated Activity</b> |   |  |   |
| AR2                                 | N/A   | Storage of raw materials for treatment process   | From receipt of raw materials to use in the treatment process.  |
| AR3                                 | N/A   | Storage of DAF screened wastewater and sludge  | From the generation of screened wastewater and sludge to storage in sealed tanks prior to dispatch.   |
| AR4                                 | N/A   | Discharge to foul sewer under trade effluent consent.  | From the discharge of treated effluent to foul sewer at point S1.<br><br>Discharge to sewer of up to 400m <sup>3</sup> of effluent per day as agreed in trade effluent consent.   |
|                                     |   | Collection and discharge of uncontaminated roof water to surface water sewer.                      | From the collection of uncontaminated roof water to discharge to surface water sewer at point S2.<br><br>There shall be no mixing of clean and contaminated waters.   |
| AR5                                 | N/A   | Control and abatement system before emission to air.   | From the buildings negative pressure via the internal rigid ductwork delivery system, ventilation extraction grilles and odour control unit to treat the air using a carbon filter and  |

| 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 |
|                       |   |   | release to the atmosphere at point A1.       |

| Table S1.2 Operating techniques              |   |               |
|--|---|---------------|
| Description                                  | Parts   | Date Received |
| Application                                  | Reference application documents provided in response to section 3a – technical standards of Part B3 form.   | 15/09/22      |
|  | Response to Not Duly Made Letter (dated 03/03/23) providing additional information on technical competence, submission of Form B6 for discharge to sewer activity and proposed list of waste codes.   | 08/03/23      |
| Response to Schedule 5 Notice dated 14/07/23 | Response to question 1 detailing discharge to sewer substances and concentrations, the Anglia Water Discharge Consent, and a revised Odour Management Plan v2.  | 03/08/23      |
|  | Final response to the Schedule 5 Notice containing the following information:<br><ul style="list-style-type: none"> <li>- Design details of the abatement equipment (carbon filter)</li> <li>- Revised Odour Management Plan v3</li> <li>- Site Layout Plan.</li> </ul> | 13/09/23      |
| Additional Information                       | Reference to the Odour Management Plan v3 – Section 3.7 Processing of Waste.  | 13/09/23      |
| Additional Information                       | Response to raw materials used for pH control, coagulant and flocculant solutions referenced in the Management Plan Section 4.4 Waste Treatment.  | 19/10/23      |

| Table S1.3 Improvement programme requirements |   |   |
|---|---|---|
| Reference                                     | Requirement   | Date  |
| IC1a  | <p>The operator shall undertake 6 months sampling and monitoring programme for the wastewater that is discharged to sewer from the emission point marked S1 in the site plan in Schedule 7 and shall submit the results to the Environment Agency for written approval.</p> <p>The monitoring programme shall fully characterise the wastewaters and shall include, but not be limited to, the parameters listed in Table S3.2.</p> <p>The sampling and monitoring programme shall be carried out in line with the Environment Agency guidance <a href="https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit">https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit</a> and at standards and frequency outlined in Table S3.2.</p> | 6 months following commissioning of the site operations |
| IC1b  | <p>Following the completion of IC1a, the operator shall submit a completed H1 risk assessment and/or modelling report (where appropriate) to the Environment Agency for written approval.</p> <p>Based on the outcome of the H1 assessment and/or modelling, the operator shall provide in the report, an assessment on whether the</p>   | 3 months following the completion of with IC1a.         |

| Table S1.3 Improvement programme requirements |  |  |
|---|--|--|
| Reference                                     | Requirement  | Date   |
|   | <p>wastewaters discharged to sewer from the site likely to have significant or adverse impact on the final receiving waters following treatment of the wastewater at the Thetford Wastewater Treatment Works.</p> <p>The H1 assessment and/or modelling shall take into consideration relevant environmental standards specified within the following guidance for the substances analysed: Specific substances and priority hazardous substances – Surface water pollution risk for your environmental permit (<a href="#">Surface water pollution risk assessment for your environmental permit - GOV.UK (www.gov.uk)</a>).</p> <p>Where the results of the H1 assessment and/or modelling indicate that significant/adverse impact is likely, the operator shall cease further discharge of wastewater to sewer. The operator then shall submit a proposal of additional measures to be implemented to prevent or minimise any significant/adverse impact on the receiving waters, along with timescales for implementation to the Environment Agency for written approval.</p> |  |
| IC1c  | The operator shall implement/install any improvements and/or additional measures approved by the Environment Agency under IC1b and shall provide a written confirmation to the Environment Agency that the improvements and/or additional measures have been implemented/installed.  | 6 months following the completion of with IC1b or at any other date agreed in writing with the Environment Agency. |

| Table S1.4 Pre-operational measures |   |
|-------------------------------------|---|
| Reference                           | Pre-operational measures  |
| PO1                                 | <p>At least 8 weeks (or any other date agreed with the Environment Agency) prior to the commencement of the waste storage and treatment operations authorised in this permit, the operator shall provide a written commissioning plan (including timescales for completion) for approval by the Environment Agency.</p> <p>The commissioning plan shall include measures to be taken to protect the environment during the different stages of commissioning and the expected durations of commissioning activities.</p> <p>The plan shall include information on the design and construction specifications of the building, impermeable concrete surfacing and associated drainage infrastructure including the above-ground storage tanks, sump, connecting pipelines, secondary containment, and perimeter walls to the Environment Agency for approval.</p> <p>The construction of the concrete surfacing and associated drainage infrastructure mentioned above shall meet standards and appropriate measures outlined in the <a href="#">Non-hazardous and inert waste: appropriate measures for permitted facilities</a> and CIRIA report C736.</p> |
| PO2                                 | Following the completion of the construction works specified under PO1, the operator shall submit a construction quality assurance (CQA) validation report confirming that the impermeable concrete surfacing and associated infrastructure and perimeter walls were constructed in accordance with the detailed designs. The CQA must be signed off by an appropriately qualified person.  |

| Table S1.4 Pre-operational measures |  |
|-------------------------------------|--|
| Reference                           | Pre-operational measures   |
|                                     | The operator shall not commence waste storage and/or treatment operations at the site until the CQA validation report is approved by the Environment Agency. |

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

| Table S2.1 Raw materials and fuels |                     |
|------------------------------------|---------------------|
| Raw materials and fuel description | Specification       |
| Caustic (Neutralac)                | 45% lime            |
| Sulphuric Acid                     | 50% sulphuric acid  |
| Coagulant                          | 40% Ferric sulphate |
| Flocculant                         | Aquatreat           |

| Table S2.2 Permitted waste types and quantities for physico-chemical treatment AR1 |   |
|--|---|
| Maximum quantity   | (Maximum total annual waste throughput – 200,000 cubic metres)  |
| 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>   | wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing   |
| 02 01 01   | sludges from washing and cleaning   |
| 02 01 06   | animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site  |
| <b>02 02</b>   | wastes from the preparation and processing of meat, fish and other foods of animal origin   |
| 02 02 01   | sludges from washing and cleaning   |
| 02 02 04   | sludges from on-site effluent treatment   |
| <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 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>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 baking and confectionary industry</b>  |
| 02 06 01   | Materials unsuitable for consumption or processing  |
| 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   |
| 02 07 02   | wastes from spirits distillation  |
| 02 07 04   | materials unsuitable for consumption or processing  |
| 02 07 05   | sludges from on-site effluent treatment   |



| <b>Table S2.2 Permitted waste types and quantities for physico-chemical treatment AR1</b> |  |
|---|--|
| <b>Maximum quantity</b>   | <b>(Maximum total annual waste throughput – 200,000 cubic metres)</b>  |
| <b>Waste code</b>   | <b>Description</b>   |
| <b>16</b>   | <b>WASTES NOT OTHERWISE SPECIFIED IN THE LIST</b>  |
| <b>16 10</b>  | <b>Aqueous liquid wastes destined for off-site treatment</b>   |
| 16 10 02  | aqueous liquid waste other than those mentioned in 16 10 01  |
| 16 10 04  | aqueous concentrates other than those mentioned in 16 10 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> |
| <b>19 05</b>  | <b>Wastes from aerobic treatment of solid wastes</b>   |
| 19 05 99  | compost leachate from composting of green waste only   |

## 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 <sup>(1)</sup> | Monitoring standard or method |
| Point marked A1 on site plan in Schedule 7  | Abatement system exhaust stack | Ammonia (NH <sub>3</sub> ) <sup>(2)</sup>           | No limit set                         | -                                | Once every 6 months                 | -                             |
|   |                                | Hydrogen sulphide (H <sub>2</sub> S)                | No limit set                         | -                                |                                     |                               |
|   |                                | Total volatile organic carbon (TVOC) <sup>(2)</sup> | 20 mg/Nm <sup>3</sup> <sup>(3)</sup> | Average over the sampling period |                                     | EN 12619                      |
| <div>(1) Monitoring frequencies may be reduced if the emission levels are proven to be sufficiently stable.</div> <div>(2) The monitoring only applies when the substance concerned is identified as relevant in the waste gas stream based on the inventory mentioned in BAT 3.</div> <div>(3) These BAT-AELs only apply when the substance concerned is identified as relevant in the waste gas stream, based on the inventory mentioned in BAT 3</div> |                                |   |                                      |                                  |                                     |                               |

| Table S3.2 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) <sup>(1)</sup> <sup>(2)</sup> | Reference period            | Monitoring frequency <sup>(4)</sup> | Monitoring standard or method                                    |
| S1 as shown on the site plan in Schedule 7  | Site effluent treatment plant | Total daily volume of discharge                                | 400 m <sup>3</sup> /day                          | 24-hour total               | Continuous                          | MCERTS self-monitoring of effluent flow scheme                   |
|   |                               | Hydrocarbon oil index (HOI) <sup>(5)</sup>                     | 10 mg/l  | Instantaneous (spot sample) | Once every day or once per batch    | EN ISO 9377-2  |
|   |                               | Free cyanide (CN-) <sup>(3) (5)</sup>                          | 0.1 mg/l   |                             |                                     | Various EN standards available (i.e. EN ISO 14403-1 and -2)      |
|   |                               | Adsorbable organically bound halogens (AOX) <sup>(3) (5)</sup> | 1 mg/l   |                             |                                     | EN ISO 9562  |
|   |                               | Arsenic (expressed as As) <sup>(3) (5)</sup>                   | 0.1 mg/l   |                             |                                     | Various EN standards available (e.g. EN ISO 11885, EN ISO 17294- |
|   |                               | Cadmium (expressed as Cd) <sup>(3) (5)</sup>                   | 0.1 mg/l   |                             |                                     |  |

| Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site–<br>emission limits and monitoring requirements  |                              |   |  |                     |   |   |
|---|------------------------------|---|--|---------------------|---|---|
| Emission point<br>ref. & location   | Source                       | Parameter   | Limit<br>(incl. Unit) <sup>(1)</sup><br><sup>(2)</sup> | Reference<br>period | Monitoring<br>frequency<br><sup>(4)</sup> | Monitoring<br>standard or<br>method   |
|   |                              | Chromium<br>(expressed<br>as Cr) <sup>(3)</sup> <sup>(5)</sup>                      | 0.3 mg/l   |                     |   | 2, EN ISO<br>15586)   |
|   |                              | Copper<br>(expressed<br>as Cu) <sup>(3)</sup> <sup>(5)</sup>                        | 0.5 mg/l   |                     |   |   |
|   |                              | Lead<br>(expressed<br>as Pb) <sup>(3)</sup> <sup>(5)</sup>                          | 0.3 mg/l   |                     |   |   |
|   |                              | Nickel<br>(expressed<br>as Ni) <sup>(3)</sup> <sup>(5)</sup>                        | 1 mg/l   |                     |   |   |
|   |                              | Zinc<br>(expressed<br>as Zn) <sup>(3)</sup> <sup>(5)</sup>                          | 2.0 mg/l   |                     |   |   |
|   |                              | Mercury<br>(expressed<br>as Hg) <sup>(3)</sup> <sup>(5)</sup>                       | 10 µg/l  |                     |   | Various EN<br>standards<br>available<br>(i.e. EN ISO<br>17852, EN<br>ISO 12846)   |
|   |                              | Hexavalent<br>chromium<br>(expressed<br>as Cr(VI)) <sup>(3)</sup><br><sup>(5)</sup> | 0.1 mg/l   |                     |   | Various EN<br>standards<br>available<br>(i.e. EN ISO<br>10304-3, EN<br>ISO 23913) |
| S2 as shown on<br>the site plan in<br>Schedule 7  | Uncontaminated<br>roof water | Oil and<br>grease   | No limit<br>set  |                     |   | Visual<br>inspection  |
| <p><sup>(1)</sup> The averaging periods are defined in the General considerations.</p> <p><sup>(2)</sup> The BAT-AELs may not apply if the downstream waste water treatment plant abates the pollutants concerned, provided this does not lead to a higher level of pollution in the environment.</p> <p><sup>(3)</sup> The monitoring and BAT-AELs only apply when the substance concerned is identified as being present on completion of IC1a and therefore considered relevant in the waste water inventory mentioned in BAT 3. Where the results of the monitoring indicate that any of the parameters in this table is not identified, the operator may cease further monitoring of such parameter(s) after the completion of the improvement conditions IC1a and IC1b.</p> <p><sup>(4)</sup> Monitoring frequencies may be reduced if the emission levels are proven to be sufficiently stable.</p> <p><sup>(5)</sup> Monitoring frequency may be reduced if the downstream waste water treatment plant abates the pollutants concerned.</p> |                              |   |  |                     |   |   |

| Table S3.3 Process monitoring requirements                                |                              |                                  |                               |                          |
|---|------------------------------|----------------------------------|-------------------------------|--------------------------|
| Emission point reference or source or description of point of measurement | Parameter                    | Monitoring frequency             | Monitoring standard or method | Other specifications     |
| Carbon filter in odour abatement system                                   | Gas temperature              | Every 3 months                   | -                             | -                        |
|   | Humidity                     | Every 3 months                   | -                             | -                        |
|   | Gas Flow Rate                | Every 12 months                  | -                             | -                        |
| Treated effluent  | pH                           | Once every day or once per batch | -                             | Optimum range pH 6 to 10 |
|   | Total Suspended Solids (TSS) | Once every day                   | EN 872                        | Optimum range <1500 mg/l |

## 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>Emission or monitoring point/reference</b> | <b>Reporting period</b> | <b>Period begins</b> |
| Point source emissions to air<br>Parameters as required by condition 3.5.1                 | A1  | Every 12 months         | 1 January            |
| Point source emissions to foul sewer<br>Parameters as required by condition 3.5.1          | S1  | Every 12 months         | 1 January            |
| Point source emissions to surface water sewer<br>Parameters as required by condition 3.5.1 | S2  | Every 12 months         | 1 January            |

| <b>Table S4.2: Annual production/treatment</b> |              |
|--|--------------|
| <b>Parameter</b>                               | <b>Units</b> |
| Liquid effluent treated                        | Cubic metres |
| Liquid effluent discharged to sewer            | Cubic metres |
| Dewatered sludge exported off-site             | Tonnes       |

| <b>Table S4.3 Performance parameters</b>                    |                                |                        |
|---|--------------------------------|------------------------|
| <b>Parameter</b>  | <b>Frequency of assessment</b> | <b>Units</b>           |
| Dewatered sludge exported per cubic metre of waste imported | Annually                       | Tonnes per cubic metre |
| Water usage   | Annually                       | m <sup>3</sup>         |
| Energy usage  | Annually                       | MWh                    |
| Raw materials usage   | Annually                       | m <sup>3</sup>         |

| <b>Table S4.4 Reporting forms</b> |   |                                     |
|-----------------------------------|---|-------------------------------------|
| <b>Parameter</b>                  | <b>Reporting form</b>   | <b>Form version number and date</b> |
| Point source emissions to air     | Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency   | Version 1, 08/03/2021               |
| Point source emissions to sewer   | Emissions to Sewer Reporting Form, or other form as agreed in writing by the Environment Agency | Version 1, 08/03/2021               |
| Process monitoring                | Process Monitoring Form, or other form as agreed in writing by the Environment Agency           | Version 1, 08/03/2021               |
| Water usage                       | Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency        | Version 1, 08/03/2021               |

| <b>Table S4.4 Reporting forms</b> |   |                                     |
|-----------------------------------|---|-------------------------------------|
| <b>Parameter</b>                  | <b>Reporting form</b>   | <b>Form version number and date</b> |
| Energy usage                      | Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency                 | Version 1, 08/03/2021               |
| Other performance parameters      | Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency | Version 1, 08/03/2021               |

## 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                       |  |

|   |                            |
|---|----------------------------|
| <b>Time periods for notification following detection of a breach of a limit</b> |                            |
| <b>Parameter</b>  | <b>Notification period</b> |
|   |                            |
|   |                            |
|   |                            |

|  |  |
|--|--|
| <b>(c) Notification requirements for the breach of permit conditions not related to limits</b> |  |
| <b>To be notified within 24 hours of detection</b>   |  |
| Condition breached   |  |
| Date, time and duration of breach  |  |
| Details of the permit breach i.e. what happened including impacts observed.                    |  |
| Measures taken, or intended to be taken, to restore permit compliance.                         |  |

|  |  |
|--|--|
| <b>(d) 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.

“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.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“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.

“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.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“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.

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

“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 the Waste Framework Directive.

“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.

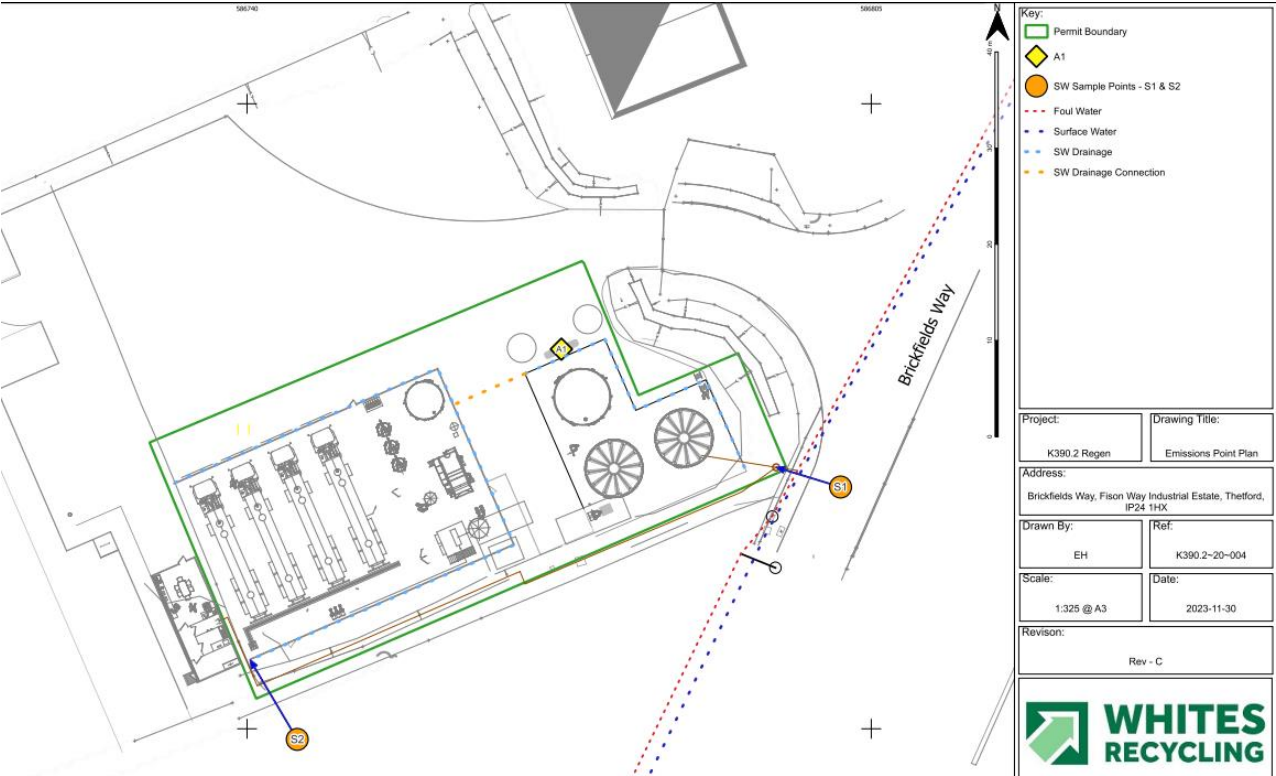
“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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

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

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

# Schedule 7 – Site plan



END OF PERMIT

