

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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Aspall Cyder Limited

The Cyder House

Aspall

Stowmarket

IP14 6PD

## **Variation application number**

EPR/GP3432QA/V002

## **Permit number**

EPR/GP3432QA

# The Cyder House

## Permit number EPR/GP3432QA

### Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

This variation is an administrative variation to update the permit to the latest permit template following the issuing of the Food, Drink and Milk Industries published on 4th December 2019 in the official journal of the European Union. The variation also corrects the previously included COD limit which was incorrectly added to the original permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

The main features of the permit remain unchanged and are as follows.

Aspall Cyder Limited operates a production, processing, bottling, and kegging facility for the production of vinegar, juice and cyder. The site is located at National Grid Reference TM 17115 65360, Suffolk, approximately 1km north of Debenham, in a rural setting. The site first began cyder production in 1729, Aspall Cyder began operations at the site in 2018. The processing capacity of Aspall Cyder site will exceed the 300 tonnes per day threshold for the treatment and processing of vegetable raw materials, this is as a consequence of continued business growth. The site will become subject to permitting under the following sections of the Environmental Permitting Regulations 2016:

*Section 6.8, Part A(1) (d)(ii): Treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed (where the weight of the finished product excludes packaging) - only vegetable raw materials with a finished product production capacity greater than 300 tonnes per day.*

*Section 5.4, Part A (a)(i): Disposal of non-hazardous waste involving biological treatment - with a capacity exceeding 50 tonnes per day.*

The site covers an area of approximately 3.5Ha comprising a pressing building, a tank farm, an effluent treatment plant, a packaging building, an engineering building, a vinegar production area, an office building, areas of hardstanding, access roads and soft landscaping. The processing of vegetable raw materials producing apple juice; the fermentation of apple juice producing cyder; and the blending of purchased malt, red wine and white wine vinegar as well as the acetification of cyder producing cyder vinegars; and bottling of vinegar and cyders. The processes undertaken at the site are: fermentation; flash pasteurisation; filtration and cooling via refrigeration.

The following directly associated activities also occur on site:

- Heat and Steam Generation – heat is used in the fermentation process and steam is used for pasteurisation. The site has a 3.16MWth gas-oil fired boiler and a back-up boiler with a thermal rating of 274KW which is used in emergencies or during main boiler maintenance. The main emission to air arises from this boilers
- Raw Materials Storage – raw materials are stored on site in both solid and liquid form. Liquids are primarily delivered in Intermediate Bulk Containers (IBCs) and smaller drums, some liquids are delivered to site and stored in tanks. Liquid sugar will be stored in tanks with bunded areas.
- Waste Storage – wastes are segregated at source and stored in this manner onsite until collected. All hazardous materials are stored individually in approved containers. Wastes are kept on site for minimal times before collection for recovery.

- Cleaning in Place (CIP) – CIP is a method of cleaning the interior surfaces of pipes, vessels, process equipment, and associated fittings without disassembly.
- Use of refrigerants - refrigerant gases are stored on site for use for refrigeration.

Process effluent is treated by an onsite effluent treatment plant. Liquid process waste is collected in a dedicated sump in the effluent treatment area, effluent is transferred to a drum screen to remove solids into a dolav unit – which are transferred to a dedicated waste skip for disposal. Screened effluent flows into a series of balance, divert and aeration tanks. Biological sludge from the aeration tank flows through a Membrane Bioreactor (MBR). Treated effluent discharge passes through a MCERTS flowmeter with a flow proportional 24 hour composite sampler, before discharging to a surface drain and ultimately The Gulls river leading to River Deben.

A second sump within the effluent treatment area collects high strength liquid from the fermentation filtration crossflow process including yeast material – this is then transferred by a level switch controlled pump into a tank where it is then collected and tankered offsite for landspreading.

Uncontaminated surface water runoff passes through a drainage system with hydraulic attenuation sump and an oil/water interceptors and separators with 6 discharge points to surface water/drains into The Gulls river and ultimately discharges to River Deben.

The nearest residential receptors lie approximately 180m of the northern site boundary. There are no SACs, SPAs or Ramsars within 10km of the installation boundary or any SSSI's within 2km. There is a Local Wildlife Site and Ancient Woodland named Aspoll Wood approximately 230m northeast of the northern site boundary.

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

The schedules specify the changes made to the permit.

We consider that in reaching our decision to vary the permit we have taken into account all relevant considerations and legal requirements. We are satisfied that the permit will ensure that a high level of protection is provided for the environment and human health and that the activities will not give rise to any significant pollution of the environment or harm to human health.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application EPR/GP3432QA/A001	Duly made 20/09/2019	Application for an Environmental Permit
Additional information received	20/03/2020	Updated BAT assessment.
	25/06/2020	Further information regarding the water quality and discharge from the ETP.
	20/11/2020	Environment Management System Noise Action Plan Updated Emissions Plan
Permit determined EPR/GP3432QA	05/03/2021	Permit issued to Aspoll Cyder Limited
Variation issued EPR/GP3432QA/V002	20/12/2024	Environment Agency initiated variation to update to the latest permit template

End of introductory note

# Notice of variation and consolidation

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

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

### Permit number

EPR/GP3432QA

### Issued to

**Aspall Cyder Limited** (“the operator”)

whose registered office is

**137 High Street  
Burton-On-Trent  
England  
DE14 1JZ**

company registration number 02032494

to operate a regulated facility at

**The Cyder House  
Aspall  
Stowmarket  
IP14 6PD**

to the extent set out in the schedules.

The notice shall take effect from 20/12/2024

Name	Date
Denise Horton	20/12/2024

Authorised on behalf of the Environment Agency

## **Schedule 1**

The following conditions were varied as a result of an Environment Agency initiated variation:

- Table S1.3 as referenced in condition 2.4.1 has been updated to include a new improvement condition (IC6). The improvement condition requires the Operator to achieve the BAT-AEL for COD emissions within 12 months of variation V002 being issued.
- Table S3.2 as referenced in conditions 3.1.1, 3.5.1(a) and, 3.5.4 has been updated to correct the COD limit from 120mg/l to 100mg/l as per Table 1 of the Food, Drink and Milk Industries best available technique (BAT) conclusions.
- Table 3.2 as referenced in conditions 3.1.1, 3.5.1(a) and, 3.5.4 has been updated to include footnotes 3, and 4. Note 3 allows the calculated mass balance limit for COD to be used until the completion of IC6, Note 4 relates to the correct COD limit and applies from the completion of IC6.
- Table S4.3 as referenced in condition 4.2.2 (c) has been updated to include two new performance parameters; 'COD loss efficiency' and 'Food Waste'.
- Table S4.4 as referenced in conditions 4.2.2 (c) and 4.2.3 (b) has been updated to include a new reporting form titled 'Food Waste'.

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

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

### Permit number

**EPR/GP3432QA**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/GP3432QA/V002 authorising,

**Aspall Cyder Limited** (“the operator”),

whose registered office is

**137 High Street  
Burton-On-Trent  
England  
DE14 1JZ**

company registration number 02032494

to operate an installation at

**The Cyder House  
Aspall  
Stowmarket  
IP14 6PD**

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

Name	Date
Denise Horton	20/12/2024

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.

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

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

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

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

## **2 Operations**

### **2.1 Permitted activities**

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

### **2.2 The site**

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

### **2.3 Operating techniques**

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

### **2.4 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.

## **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 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.

- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

## **3.6 Pests**

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
  - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

# **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.

## 4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
    - (i) inform the Environment Agency,
    - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
    - (iii) take the measures necessary to prevent further possible incidents or accidents;
  - (b) of a breach of any permit condition the operator must immediately—
    - (i) inform the Environment Agency, and
    - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
  - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and

- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

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

In any other case:

- (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.

4.3.4 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.

4.3.5 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

<b>Table 1.1 Activities</b>		
<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
Section 6.8 Part A(1)(d) (ii) Treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed (where the weight of the finished product excludes packaging) — only vegetable raw materials with a finished product production capacity greater than 300 tonnes per day	Processing, bottling and keging facility for the supply of vinegar, juice and cyder to the retail sector	From receipt of raw materials to dispatch of finished packaged products
Section 5.4 (a)(i) disposal of non-hazardous waste with the capacity exceeding 50 tonnes per day by biological treatment	Treatment by aeration followed by a Membrane Bioreactor (MBR) of collected process effluent	Collection and treatment of process effluent to discharge of treated effluent to surface water
<b>Directly Associated Activity</b>		
DAA1	Heat and Steam Generation	Operation of a 3.16MWth main boiler fired with gas-oil for the generation of heat and steam. Operation of a 274Kwth boiler as the back-up boiler in case of emergencies or main boiler maintenance.
DAA2	Raw Materials Handling and Storage	Includes receipt and storage, of bulk raw materials to be used in process.
DAA3	Waste Storage	Generation, storage and handling of liquid and solid wastes. From generation of waste to their removal off-site.
DAA4	Cleaning in Place	Dry and wet cleaning of equipment.
DAA5	Refrigerant usage	From receipt of refrigerant to use in refrigeration and air conditioning processes.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	The following application Supporting Information Report: Section iv – Non-Technical Summary Section 5 – Environmental Risks and Effects Appendix B – Site Plans Appendix C – Environment Risk Assessment Appendix D – Site Condition Report	Duly Made 20/09/2020
Response to Schedule 5 Notice dated 19/02/2020	Response to question 1, 2, 3 and 4: Updated 'Section 6' of 'supporting information report': Best Available Techniques (BAT) Assessment to include updated BAT assessment with reference to the Food and Drink Sector Guidance EPR 6.10 and the Food, Drink and Milk Industries BREF.	20/03/2020
Response to Schedule 5 Notice dated 11/08/2020	Response to question 1 – Updated Environmental Management System Response to question 4 - Appendix C (Updated Emission Point Plan Drawing EPAPPEP01)	20/11/2020

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1	The Operator shall implement the actions stated in the Noise Action Plan dated November 2020. Once these actions have been completed the Operator shall submit a comprehensive noise assessment undertaken by an experienced and suitably qualified person (i.e. a noise consultant with an appropriate qualification accredited by the Institute of Acoustics), in accordance with the procedures given in BS4142:2019 (Rating industrial noise affecting mixed residential and industrial areas) and BS7445:2003 (Description and measurement of environmental noise).  On completion of the assessment a copy of the survey shall be submitted in the form of a report with an interpretation of the results and conclusions drawn to the Environment Agency for approval.	Within 12 months of permit issue.
IC2	The operator shall undertake a comprehensive sampling programme for the detection and quantification of residual pesticides in the effluent discharge. The programme shall include but not be limited to:  <u>GCMS/LCMS scans</u>  Representative samples of the effluent should be take on 12 separate occasions, at suitable intervals at least 24 hours apart, for GCMS/LCMS scan analysis. Each sample should be analysed using GCMS/LCMS scans, ensuring that the laboratory can achieve a Limit of Qualification equivalent to or better than that achieved by the National Laboratory Service.  <u>Fully-quantitative analysis</u>  Representative samples of the effluent should be take on 12 separate occasions, at suitable intervals at least 24 hours apart, to allow fully quantitative analysis of the following substances, if there is any possibility	02/11/2021

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
	<p>that they may be present in the effluent: Abamectin, Beta-Cyfluthrin, Cinerin II, Cyfluthrin, Cypermethrin, Deltamethrin, Lambda-Cyhalothrin, Pyrethrin I, and Pyrethrin II.</p> <p>The sampling results shall be submitted to the Environment Agency for review prior to being used to complete the requirements of IC3. Or else provide a justification why fully quantitative analysis has not been carried out?</p>	
IC3	<p>The operator shall undertake a comprehensive assessment of the impact of residual pesticides in the effluent discharge on surface and ground water, using the information collected upon completion of IC2.</p> <p>The assessments shall be undertaken in accordance with our guidance “Surface water pollution risk assessment for your environmental permit” and “Groundwater risk assessment for your environmental permit”.</p> <p>The assessments and their conclusions shall be submitted to the Environment Agency for review. Where the outcome of any assessment demonstrates an impact which is liable to cause pollution of surface or groundwater, contrary to the provisions of the Water Framework Directive and Groundwater Regulations, the operator shall provide details of an improvement programme to further mitigate against the risks, with time scales for implementation, for approval in writing by the Environment Agency.</p>	Within 3 months of completion of IC2.
IC4	<p>The operator shall update their Environmental Management System to include:</p> <ul style="list-style-type: none"> <li>• A requirement for their suppliers to notify them immediately if a new pesticide or chemical has been used in the production of the raw materials they are processing, or there is a significant increase in use of a pesticide or chemical used in the production of the raw materials they are processing and;</li> <li>• A system in place to identify if any new pesticides or chemicals are applied or a significant increase in use of a pesticide or chemical and that a risk assessment of the new chemicals is undertaken to ensure there is no negative impact on the effluent discharge quality and receiving environment.</li> </ul>	Within 1 month of permit issue.
IC5	<p>The operator shall ensure the sites protocols, procedures and management of the flow meter is fully aligned with the MCERTS scheme in line with condition 3.5.3 and table S3.2.</p> <p>The operator shall update the Environment Management System to include the relevant protocols, procedures and management of the flow meter and confirm in writing to the Environment Agency when this has been completed.</p>	Within 6 months of permit issue.

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC6	<p>The Operator shall undertake a programme of improvements to ensure that the relevant BAT-AEL “concentration in volume” limit of 100 mg/l for COD can be achieved, with the mass emission limit in place as an interim measure.</p> <p>The Operator shall submit a written report to the Environment Agency to demonstrate the feasibility of achieving the BAT-AEL.</p>	12 months from date of issue of V002 or as agreed in writing 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
Fuel oil	Less than 0.1% sulphur content.

## Schedule 3 – Emissions and monitoring

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
A1 referenced on drawing EPAPPEP01	Main boiler stack	--	No limit set	--	--	--
A3 referenced on drawing EPAPPEP01	Back up diesel generator exhaust	-	No limits set	-	-	-
A4 referenced on drawing EPAPPEP01	Lab fume cupboard	-	No limits set	-	-	-
A5 – A21 referenced on drawing EPAPPEP01	Cyder fermentation vessels	-	No limits set	-	-	-
A22 – A41 referenced on drawing EPAPPEP01	Cyder storage	-	No limits set	-	-	-
A42 – A82 referenced on drawing EPAPPEP01	Cyder process tanks	-	No limits set	-	-	-
A83 – A84 referenced on drawing EPAPPEP01	DAL storage	-	No limits set	-	-	-
A85 referenced on drawing EPAPPEP01	Nitrogen storage	-	No limits set	-	-	-
A86 – A100 referenced on drawing EPAPPEP01	Aseptic and press vessels	-	No limits set	-	-	-
A101 – A108 referenced on drawing EPAPPEP01	Vinegar packaging storage	-	No limits set	-	-	-
A109 – A111 referenced on drawing EPAPPEP01	Vinegar fermentation	-	No limits set	-	-	-
A112 – A174 referenced on drawing	Vinegar storage tanks	-	No limits set	-	-	-

<b>Table S3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
EPAPPEP01						

<b>Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W1 on Drawing EPAPPEP01 emission to a drain [Note1]	Waste water treatment plant	Total daily volume of discharge	210 m <sup>3</sup> /day	24 hour total	Continuous	MCERTS self-monitoring of flow scheme (in accordance with IC5)
		Total suspended solids	20 mg/l	24 hour flow proportional composite sample	Daily	BS EN 872
		Biological Oxygen Demand	10 mg/l	24 hour flow proportional composite sample	Monthly	BS EN 1899-1
		Ammonia (as N)	3 mg/l	24 hour flow proportional composite sample	Daily	BS EN ISO 11732
		Total Phosphorus	1 mg/l	24 hour flow proportional composite sample	Daily	BS EN ISO 15681-1
		Total Nitrogen	20 mg/l	24 hour flow proportional composite sample	Daily	BS EN 12260
		pH	6.0 – 9.0	Instantaneous	Continuous	BS ISO 10523
		Chemical Oxygen Demand <sup>[Note 3]</sup>	21kg/day	24 hour flow proportional composite sample	Daily	BS ISO 15705
		Chemical Oxygen Demand <sup>[Note 4]</sup>	100 mg/l	24 hour flow proportional composite sample	Daily	BS ISO 15705
		Total pesticides	Requirements to be determined on the basis of outcome of IC2 & IC3			
W2 on Drawing EPAPPEP01 emission to a drain [Note1]	Uncontaminated surface water runoff.	Oil and grease	None visible	Instantaneous	Weekly	Visual inspection [Note 2]
W3 on Drawing EPAPPEP01 emission to a drain [Note1]	Uncontaminated surface water runoff.	Oil and grease	None visible	Instantaneous	Weekly	Visual inspection [Note 2]

<b>Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W4 on Drawing EPAPPEP01 emission to horse pond	Uncontaminated surface water runoff.	Oil and grease	None visible	Instantaneous	Weekly	Visual inspection [Note 2]
W5 on Drawing EPAPPEP01 emission to horse pond	Uncontaminated surface water runoff.	Oil and grease	None visible	Instantaneous	Weekly	Visual inspection [Note 2]
W6 on Drawing EPAPPEP01 emission to the moat	Uncontaminated surface water runoff.	Oil and grease	None visible	Instantaneous	Weekly	Visual inspection [Note 2]
W6 on Drawing EPAPPEP01 emission to a drain [Note1]	Uncontaminated surface water runoff.	Oil and grease	None visible	Instantaneous	Weekly	Visual inspection [Note 2]
W7 on drawing EPAPPEP01 emission to a drain [Note1]	Uncontaminated surface water runoff.	Oil and grease	None visible	Instantaneous	Weekly	Visual inspection [Note 2]

Note 1 – drain flows approximately southwest leading to river The Gulls.  
Note 2 – Records to be retained for inspection by the Environment Agency, as required.  
**Note 3 – The mass balance calculation of 124kg/day is an interim limit until the completion of IC6 and no later than 12 months from the date of variation (V002) issue.**  
Note 4 – The limit applies upon the completion of IC6

## Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1	Every 3 years	1 January
Emissions to water Parameters as required by condition 3.5.1	W1	Monthly	1 <sup>st</sup> of each month

Parameter	Units
Total production	tonnes

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Refrigerant usage	Annually	tonnes

Media/parameter	Reporting format	Date of form
Air	Form Air1 or other form as agreed in writing by the Environment Agency	05/03/2021
Water and Land	Form Water1 or other form as agreed in writing by the Environment Agency	05/03/2021
Water usage	Form WaterUsage1 or other form as agreed in writing by the Environment Agency	05/03/2021
Energy usage	Form Energy1 or other form as agreed in writing by the Environment Agency	05/03/2021
Other performance indicators	Form Performance1 or other form as agreed in writing by the Environment Agency	05/03/2021

## 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	
Measures taken, or intended to be	

<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>	
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 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.

“disposal”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“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 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.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

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

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

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

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

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

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

# Schedule 7 – Site plan



# Aspall Cyder - Site Boundary



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END OF PERMIT