

# Notice of variation and consolidation with introductory note

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

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Yeo Valley Farms (Production) Limited

Lag Farm Dairy  
Bath Road  
Blagdon  
Bristol  
Somerset  
BS40 7SG

**Variation application number**

EPR/NP3532SU/V007

**Permit number**

EPR/NP3532SU

# Lag Farm Dairy

## Permit number EPR/NP3532SU

### 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.

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

This consolidated permit has been issued following a full review against the best available techniques (BAT) conclusions for the Food, Drink and Milk Industries published on 4<sup>th</sup> December 2019 in the official journal of the European Union.

We have implemented the requirements of the Medium Combustion Plant directive and incorporated post-dated requirements for 2030.

The schedules specify the changes made to the permit.

Lag Farm Dairy, known as the Blagdon site is situated in Blagdon, North Somerset and centred on national grid reference (NGR) ST 5155 5865. The installation is located approximately 1.6 kilometre east of Blagdon village and lies on the north side of the Mendip Hills. Immediately to the north of the site boundary lies Blagdon Lake. Blagdon Lake is a SSSI and reservoir serving the Bristol area. The surrounding land comprises a dairy farm and arable farmland.

The primary listed activity falls under Section 6.8 Part A1 (e) - Treating and processing milk with the quantity of milk received being more than 200 tonnes per day (average value on annual basis). The installation processes milk and milk powders to produce yogurt. The yogurt making process comprises: ingredient intake and storage; mix preparation; pasteurisation and homogenisation; incubation; packaging and final cooling before despatch. Natural gas fuelled boiler plant provides steam and heat for the process. Products are cooled using refrigeration plant prior to despatch. Refrigeration methods include the use of R407A which is a blended Hydrofluorocarbon (HFC) with newly installed ammonia and CO<sub>2</sub> based refrigerants. Solid waste is in the form of cardboard and plastic packaging. Cardboard, some plastics and stretch wrap are recycled and waste yogurt pots are sent to energy from waste incineration.

There is also a secondary activity that falls under Section 5.4 Part A1 (a) (i) – Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day. An on-site effluent treatment plant treats liquid waste, discharging final effluent to the River Congresbury Yeo. Yogurt unsuitable for sale is used for animal feed. Chemicals are stored on site including acids and bases used for cleaning and water and effluent treatment. Raw materials held on site include milk, skimmed concentrate, bulk cream, skimmed milk powder, sugar and whey powder. There is no connection to sewer in the vicinity of the installation.

The site receives 750 tonnes per day (t/d) of milk and operates 365 days a year. It has a current average production output of 2700 tonnes per week with peaks at 3000 tonnes per week, with the capability to produce 3200 tonnes per week. The yogurt making process comprises: ingredient intake and storage, mix preparation, pasteurisation and homogenisation, incubation, packaging and final cooling before despatch.

Natural gas fuelled boilers with a combined thermal input of 11.3 MWth provide steam and heat for the process (emission point A1). Only one boiler is used at any one-time. Boiler 3 has a thermal input of 4.9 MWth and Boiler 4 has a thermal input of 6.4 MWth. Boiler 3 is considered as an “existing” medium combustion plant (MCP) under the Medium Combustion Plant Directive (MCPD), and the associated limits for oxides of nitrogen (NO<sub>x</sub>) have been added to the permit and will come into effect from 01/01/2030 unless the boilers are replaced. Boiler 4 is considered a new MCP as operation started in July 2019.

There are 8 Natura 2000 sites within 10km of the installation. Chew Valley Lake (SPA), 4 North Somerset & Mendip Bats (SAC) sites, Mendip Woodlands and 2 Mendip Limestone Grasslands. There is also a SSSI, Blagdon Lake immediately north of the site.

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 NP3532SU	12/09/2005	
Additional information request	07/08/2005	Response received 12/09/2005
Additional information request	27/10/2005	Response received 31/10/2005
Additional information request	30/11/2005	Response received 02/12/2005
Additional information request	13/01/2005	Response received 19/01/2006 & 21/01/2006 & 16/02/2006
Permit NP3532SU determined	04/05/2006	Bespoke permit issued to Yeo Valley Farms (Production) Limited.
Agency Led Variation EPR/NP3532SU/V002 issued	19/03/2013	Varied permit issued.
Agency variation determined EPR/NP3532SU/V003	19/02/2014	Agency variation to implement the changes introduced by IED.
Application EPR/NP3532SU/V004	20/07/2015	Returned to applicant as not duly made.
Application EPR/NP3532SU/V005 (variation and consolidation)	Duly made 08/10/2015	Application to increase production at the dairy with a corresponding increase in the volume of treated effluent for disposal.
Additional information received	01/02/2016	Confirmation of status of hydraulic capacity assessment, cleaning in place procedures, point source emissions to air, combustion plant and steam demand.
Variation determined EPR/NP3532SU/V005	18/02/2016	Varied and consolidated permit issued in modern condition format.
Application EPR/NP3532SU/V006 (variation and consolidation)	16/08/2019 Duly made	Application to add 2 refrigeration plants, convert the boilers from using kerosene to natural gas and alter the site boundary to include a borehole.
Variation determined EPR/NP3232SU/V006 Billing reference: TP3208PF	14/08/2020	Varied permit issued.
Application EPR/NP3532SU/V007 (variation and consolidation)	Regulation 61 Notice response received 25/03/2022	Environment Agency initiated variation and consolidation following the Food, Drink & Milk Industries sector permit review.
Additional information received	26/06/2023	Information requested in relation to Reg.61 Response Tool concerning BATc 8, 9, 12, 21, Production Threshold, Hazardous Substances, and containment.
Variation determined and consolidation issued EPR/NP3532SU (Billing ref. HP3140QH).	10/08/2023	Varied and consolidated permit issued in modern format.

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/NP3532SU

### Issued to

**Yeo Valley Farms (Production) Limited** (“the operator”)

whose registered office is

**Yeo Valley HQ**

**Rhodyate**

**Blagdon**

**Somerset**

**BS40 7YE**

company registration number 01283809

to operate a regulated facility at

**Lag Farm Dairy**

**Bath Road**

**Blagdon**

**Bristol**

**Somerset**

**BS40 7SG**

to the extent set out in the schedules.

The notice shall take effect from 10/08/2023

<b>Name</b>	<b>Date</b>
<b>Rebecca Brough</b>	<b>10/08/2023</b>

Authorised on behalf of the Environment Agency

## **Schedule 1**

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

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

### Permit number

**EPR/NP3532SU**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/NP3532SU/V007 authorising,

**Yeo Valley Farms (Production) Limited** (“the operator”),

whose registered office is

**Yeo Valley Farms (Production) Limited**

**Yeo Valley HQ**

**Rhodyate**

**Blagdon**

**Somerset**

**BS40 7YE**

company registration number 01283809

to operate an installation at

**Lag Farm Dairy**

**Bath Road**

**Blagdon**

**Bristol**

**Somerset**

**BS40 7SG**

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

<b>Name</b>	<b>Date</b>
<b>Rebecca Brough</b>	<b>10/08/2023</b>

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 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.

2.3.4 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.

2.3.5 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 operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed. All pre-operational measures are carried over from the previous variation. Requests to initiate these will require separate variation application.

## **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, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.
- 3.1.4 For the following activities referenced in schedule 1, table S1.1 (AR3) the first monitoring measurements shall be carried out within four months of the date of permit issue for boiler 4 and 01/01/2030 for boiler 3; or of the date when the MCP is first put into operation, whichever is later.

### **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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR4 etc.) 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, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

## 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.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
  - (b) any change in the operator's name(s) or address(es); and
  - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) 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.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
  - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and

(c) any subsequent decision by the Secretary of State to re-certify such an agreement.

## **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 S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
AR1	Section 6.8 Part A1 (e)	Treating and processing milk with the quantity of milk received being more than 200 tonnes per day (average value on annual basis)	From receipt of raw milk delivered to the site to the dispatch of processed yogurt.
AR2	Section 5.4 Part A1 (a) (i)	Biological treatment of non-hazardous waste water	From generation of wastewater to discharge to lake. From receipt of site process effluent and treatment of effluent and its sludge to discharge of effluent and transport of sludge off site.
<b>Directly Associated Activity</b>			
AR3	Steam supply	Medium Combustion plant: 2 natural gas fuelled steam-raising boilers totalling 11.3 MWth maximum input	Receipt of fuel to release of products of combustion to air.  Boilers can only be used with an average demand not exceeding 3.5 MWth.
AR4	Raw material storage and handling	Storage and handling of raw materials at the installation	From receipt of raw materials to dispatch of final product.
AR5	Waste storage and handling	Storage and handling of waste materials	From generation of waste to storage pending removal for disposal or recovery.
AR6	Use of refrigerants	Use of refrigerants in cooling, chilling and/or freezing systems at the installation	From receipt of raw materials to dispatch of final product.
AR7	Storage and use of chemicals and oils	Storage and use of chemicals and oils at the installation	From receipt of chemicals and oils to disposal of wastes arising.
AR8	Surface water drainage	Collection of uncontaminated site surface waters	Handling and storage of site drainage until discharge to the site surface water system – Blagdon lake and Congresbury River.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Response to Schedule 5 Notice dated 09/12/15	Item 2 describing the Cleaning in Place procedures and item 5 detailing the combustion plant and steam consumption (including efficiency improvements).	01/02/2016
Application NP3532SU/V003	Supporting documents: <ul style="list-style-type: none"> <li>• Hazard Risk Assessment – Environmental – dated 24/04/2019</li> <li>• Monitoring plan – Doc Ref. EPRNP3532SU_C3MON &amp; EPRNP3532SU_C3M1</li> <li>• Lag Farm discharge release points – Drawing ref. YVIPPCACAD001 rev1</li> </ul>	24/04/2019
Additional information	Ammonia Hazard Assessment for Azanechiller Ammonia Refrigeration System - Document No: T28-15-039 dated September 2015 <ul style="list-style-type: none"> <li>• Modified technical spec for Azanechiller</li> <li>• Email outlining ammonia refrigeration plant specifications</li> <li>• Ammonia plant risk assessment – Document No. 57-0621 v5.0 dated 11/08/2020</li> </ul>	11/08/2020
Regulation 61 (1) Notice – Responses to questions dated 25/03/2022	All parts	21/07/2022
Regulation 61(1) Notice – request for further information dated 12/06/2023	Further information regarding BATc 8, 9, 12, 21: Production Threshold, Hazardous Substances, and containment	26/06/2023
Request for further information dated 27/06/2023	Confirmation of IC8 completion	30/06/2023

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC12	The operator shall submit, for approval by Environment Agency, a report setting out progress to achieving the 'Narrative' BAT where BAT is currently not achieved, but will be achieved before 4 December 2023. The report shall include, but not be limited to, the following: <ol style="list-style-type: none"> <li>1. Methodology for achieving BAT</li> <li>2. Associated targets /timelines for reaching compliance by 4 December 2023</li> <li>3. Any alterations to the initial plan (in progress reports).</li> </ol> The report shall address the BAT Conclusions for Food, Drink and Milk Industries with respect to BAT 4 and 8. Refer to BAT Conclusions for a full description of the BAT requirement	04/12/2023
IC13	The operator shall produce a monitoring plan detailing	04/12/2023



<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
	<p>how the management of relevant hazardous substances which did not screen out as low risk, based on the RHS baseline assessment, will be maintained and monitored to mitigate the risks of pollution. The plan shall be submitted for approval. The plan shall be implemented in accordance with the Environment Agency's written approval.</p>	
IC14	<p>The Operator shall undertake a comprehensive review and assessment of the primary containment provisions onsite for tanks, pipework and associated primary containment infrastructure, by a suitably qualified person, against the relevant standards (such as EEMUA 159).</p> <p>The operator shall submit a written report to the Environment Agency for approval which outlines the results of the review and provides details of:</p> <ul style="list-style-type: none"> <li>• current primary containment measures</li> <li>• any deficiencies identified in comparison to relevant standards</li> <li>• improvements proposed</li> <li>• time scale for implementation of improvements.</li> </ul> <p>The operator shall implement the proposed improvements in line with the timescales agreed by the Environment Agency, and incorporate an ongoing routine inspection and maintenance programme as part the EMS.</p>	12 months from permit issue (10/08/2023)
IC15	<p>The Operator shall undertake a comprehensive review and assessment of the secondary and tertiary containment provisions onsite, by a suitably qualified person, against the relevant standards (such as CIRIA C736).</p> <p>The operator shall submit a written report to the Environment Agency for approval which outlines the results of the review and provides details of:</p> <ul style="list-style-type: none"> <li>• current secondary/tertiary containment measures</li> <li>• any deficiencies identified in comparison to relevant standards</li> <li>• improvements proposed</li> <li>• time scale for implementation of improvements.</li> </ul> <p>The operator shall implement the proposed improvements in line with the timescales agreed by the Environment Agency, and incorporate an ongoing routine inspection and maintenance programme as part the EMS.</p>	12 months from permit issue (10/08/2023)

<b>Table S1.4 Pre-operational measures for future development</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO1	The use of wastewater for the purpose of irrigation.	A system to remove the domestic element of the site effluent from that which will be used for irrigation must be in place. The design specifications of the system and subsequent proposals for monitoring of the domestic aspect of the effluent must be submitted to the Environment Agency for approval at least 4 weeks prior to commissioning.
PO2	The use of wastewater for the purpose of irrigation.	A Wastewater Irrigation Management Plan that has been approved by the Environment Agency must be in place.
PO3	The operation of the effluent treatment plant with a total daily discharge volume of greater than 648 m <sup>3</sup> /day.	The operator shall make any updates to the Environmental Management System and associated documents (emergency plans, accident plans, planned preventative maintenance), which shall be made available to the Environment Agency for inspection.
PO4	The operation of the effluent treatment plant with a total daily discharge volume of greater than 648 m <sup>3</sup> /day.	The operator shall submit a written report to the Environment Agency with an assessment (carried out in conjunction with Wessex Water) of the hydraulic capacity of the final effluent disposal main (FEDM) and the environmental impacts from the proposed increases in discharge volume from Lag Farm Dairy. The report shall include confirmation that there will be no greater risk of spills from the FEDM (in particular, to Blagdon Lake SSSI) and/or details of any upgrading works required to accommodate the increase in discharge volume.  Following submission of the report, the operator must gain approval in writing from the Environment Agency prior to increasing their daily discharge volume above 648 m <sup>3</sup> /day.
PO5	Each staged increase in production that leads to a greater volume of effluent being produced.	The operator shall provide the Environment Agency with at least 4 weeks' notice prior to each planned increase in production that will lead to a greater volume of effluent being produced. This notice will include confirmation of the new maximum daily volume of discharge.

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

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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## 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 as shown on Discharge Release Points plan (drawing ref: YVIPPCACAD001 rev1) of application EPR/NP3532SU/V006	Boiler 3 4.9MWth Natural gas fuelled steam-raising boiler	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>x</sub> )	250 mg/m <sup>3</sup> [Note 2]	Periodic	Every three years [Note 4]	BS EN 15267-3 [Note 1]
		Carbon monoxide	No Limit			MCERTS BS EN15058
	Boiler 4 6.4MWth Natural gas fuelled steam-raising boiler	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>x</sub> )	100 mg/m <sup>3</sup> [Note 3]	Periodic	Every three years [Note 5]	BS EN 15267-3 [Note 1]
		Carbon monoxide	No Limit			MCERTS BS EN15058
<p>Note 1: Certification to the MCERTS performance standards indicates compliance with BS EN 15267-3.</p> <p>Note 2: The limits shall only apply from 01/01/2030 (unless the boiler is replaced).</p> <p>Note 3: The limits shall apply from date of permit issue.</p> <p>Note 4: The monitoring requirements shall only apply from 01/01/2030 (unless the boiler is replaced).</p> <p>Note 5: The monitoring requirements shall apply from date of permit issue.</p>						

<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 as shown on Discharge Release Points plan (Drawing ref: YVIPPCACAD001 rev 1) of application EPR/NP3532SU/V006 emission to River Congresbury Yeo via Wessex Water's final effluent disposal main.	Effluent treatment plant	Total daily volume of discharge	648 m <sup>3</sup> /day	24-hour total	Continuous	MCERTS self-monitoring of effluent flow scheme
			960 m <sup>3</sup> /day following completion of PO4			
		Biological Oxygen Demand (BOD)	10 mg/l	Spot sample	Monthly	SCA blue book 130 [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> [Note 1]	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
		Chemical Oxygen Demand (COD)	125 mg/l [Note 3]	Spot sample	Daily	ISO 15705 [Note 2]
		Total suspended solids (TSS)	20 mg/l	Instantaneous	Continuous	MCERTS
		Ammoniacal Nitrogen expressed as N	2 mg/l	For 95% of all measured values of periodic samples taken over a quarter	Daily	ISO 7150-1 [Note 2]
			5 mg/l	Spot sample		
		Total Nitrogen	20 mg/l [Note 3]	Average	Daily	EN 12260, EN ISO 11905-1.
		Total Phosphorus	4 mg/l [Note 3]	Average	Daily	EN ISO 6878, EN ISO 15681-1 and -2, ENISO 11885.
		Orthophosphate	1 mg/l	Annual Average	Daily	ISO 6878 [Note 2]
		pH	6 - 9	Instantaneous	Continuous	SCA blue book 14 [Note 2]
		Temperature	No limit set	Instantaneous	Continuous	SCA blue book 112 [Note 2]
		Oil and grease	No visible trace	Spot sample	Daily	Visual check
W2 as shown on Discharge Release Points plan (drawing ref: YVIPPCACAD001 rev 1) of application EPR/NP3532SU/V006 emission to open agricultural ditch	Uncontaminated surface water via lagoons	No parameters set	No limit set	---	---	---

<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> [Note 1]	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
leading to Blagdon lake						
<p>Note 1: These emission limit values will be subject to review by the Environment Agency following the findings of the Blagdon Study and may be updated accordingly. (See IC8)</p> <p>Note 2: or other EN, ISO, BS or national standard as agreed with the Agency.</p> <p>Note 3: Emission limit applies from 4 December 2023, unless otherwise advised by the Environment Agency.</p>						

## 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 Parameters as required by condition 3.5.1	A1	First monitoring undertaken in accordance with Condition 3.1.4 to be reported within 3 months, and then every 3 years thereafter.	From first monitoring requirements in accordance with Condition 3.1.4
Point source emissions to water (other than sewer) Parameters as required by condition 3.5.1	W1	Quarterly	1 January, 1 April, 1 July & 1 October

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Production of Cultured Products (Packaged Yogurt)	Tonnes

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Water usage	Annually	m <sup>3</sup> per tonne of cultured product

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Energy usage	Annually	MWh
Waste disposal and/or recovery	Annually	tonnes
COD efficiency	Annually*	COD te/te product
Food waste	Annually	Tonnes
BOD	Annually	BOD per tonne of cultured product
Wastewater used for irrigation	Annually	m <sup>3</sup>
Refrigerant usage	Annually	kg
*COD efficiency to be calculated on a weekly frequency, reported annually		

<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 water (other than sewer)	Emissions to Water Reporting 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
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Food Waste	Food waste Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1 06/02/2023
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.

“Blagdon Study” refers to the ‘Blagdon Reservoir and River Yeo (Congresbury) Environmental Assessment’ initiated by Bristol Water, Wessex Water, the Environment Agency and Yeo Valley in order to improve understanding of the complex nature of issues (water quality, flow, sediment dynamics, ecology and regulatory pressures) associated with the River Yeo downstream of Blagdon Reservoir. The Phase 3 impact assessment was documented in a Final Report in April 2017.

“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 limit.

“Food waste” reporting: Reporting of food waste to use a methodology such as the global Food Loss and Waste Accounting and Reporting Standard (FLW standard) , WRAP’s Target Measure Act initiative or similar.

“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.

“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. An “existing medium combustion plant” is combustion plant operating before 20 December 2018.

“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, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Pests” means Birds, Vermin and Insects.

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

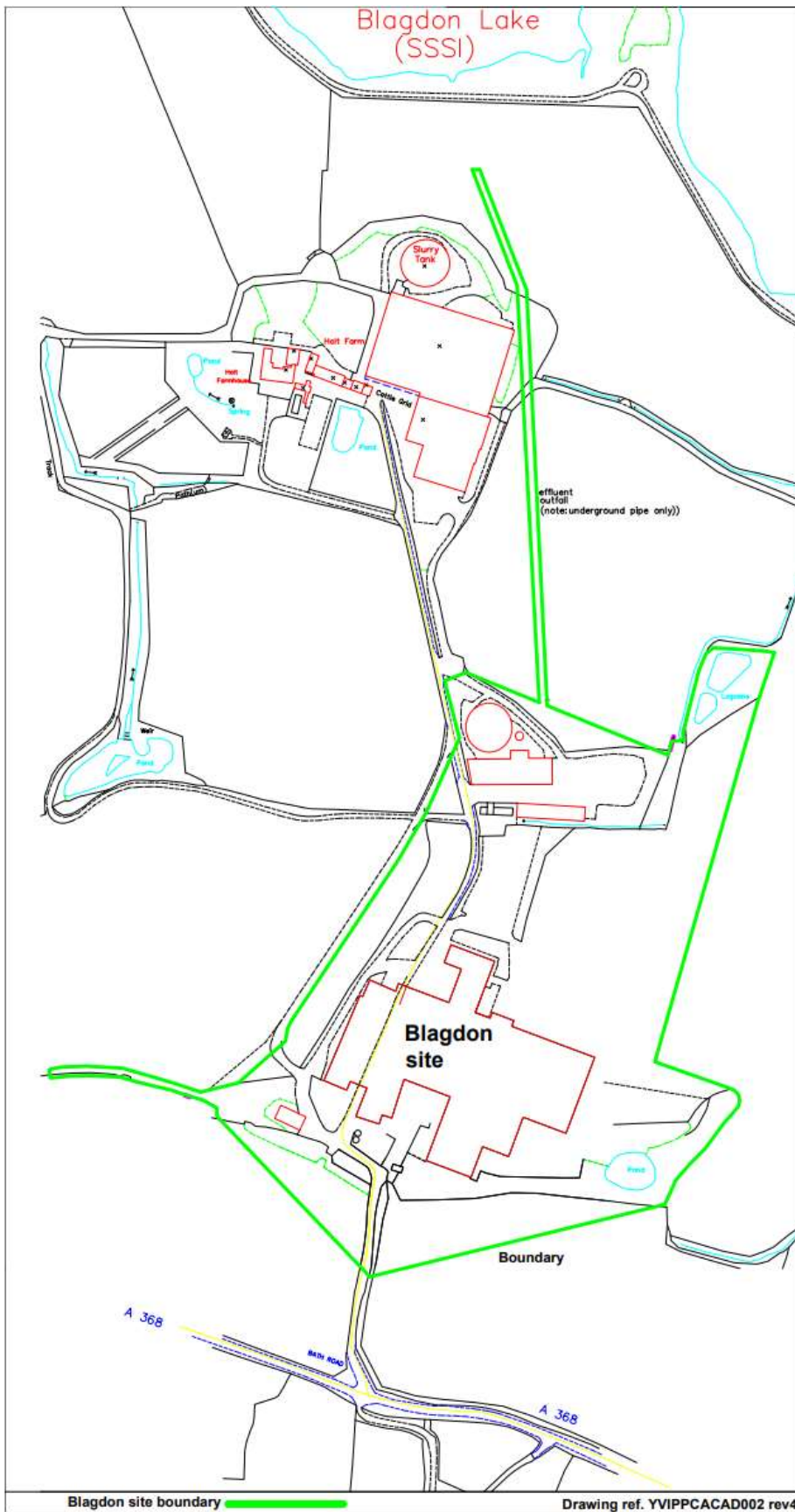
“year” means calendar year ending 31 December.

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

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

- 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 other than gas engines or gas turbines, 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

# Schedule 7 – Site plan



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END OF PERMIT

Permit number  
EPR/NP3532SU/V007