

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Muller UK & Ireland Group LLP

Bridgwater Dairy
Market Way
North Petherton
Bridgwater
Somerset
TA6 6DF

Variation application number

EPR/BP3635EF/V004

Permit number

EPR/BP3635EF

Bridgwater Dairy

Permit number EPR/BP3635EF

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 4th 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.

The main features of the permit are as follows.

Milk is received on site from tankers and pumped to storage silos after pre-chilling. It is then passed to a separator where foreign matter is removed and the milk is separated into cream and skim. The milk is then standardised to the desired fat content and the milk and cream are sent for pasteurisation. The pasteurised milk is chilled and sent to the finished milk tanks. From here it is then pumped to the filling/packaging equipment where it is filled ready for despatch. The packaged milk is kept in refrigerated storage until despatch by refrigerated transport. Heat for the processes is provided by a gas boiler of approximately 2.6MW thermal input. An additional boiler will be required early in the life of the installation. A cleaning-in-place system (CIP) is used to clean pipework, silos and storage vessels.

The daily limit for processing of raw milk is 2.88 million litres a day.

The Environmental Permit is for the main listed activity falling under Section 6.8 Part A(1)(e)(ii) of the Environmental Permitting Regulations: *Treating and processing milk, the quantity of milk received being more than 200 tonnes per day (average value on an annual basis)*.

The main emissions to air are from the two natural gas fired boilers (with a thermal input of 2 x 2.6 MWth) and a CHP plant (combined heat and power) which comprises of two natural gas generators each with a thermal input of 3.6 MWth. The boilers are considered to be existing medium combustion plant (MCP) and the CHP plant is considered to be new MCP under the medium combustion plant directive. Emission limits for the CHP were included under the previous variation (EPR/BP3635EF/V003).

All CIP effluent and washdown water is sent to an effluent treatment plant which uses physical and biological processes to reduce the levels of pollutants. The ETP effluent is sent off site to a settlement pond prior to discharge to the Huntworth Rhyne.

The installation is constructed on a greenfield site on a business park some 2 miles to the south of Bridgwater, Somerset. Underlying the site is a layer of made ground consisting mainly of weathered mudstone and clay. Beneath this is around 120m of the Mercia Mudstone formation and below that is Otter sandstone. The Mercia Mudstone is not considered to be an aquifer although there are some minor abstractions from it in this part of Somerset.

There are no SSSIs within 2km of the installation, but the Somerset Moors and Levels SAC are within 10km of the installation.

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

Status log of the permit		
Description	Date	Comments
Application received EPR/EP3538MS	Duly made 10/05/2007	Application received for the treatment and processing of milk
Additional information received	27/07/2007	Request dated: 18/07/2007
Additional information received	24/07/2007 26/07/2007	Request dated: 24/07/2007
Permit determined	24/09/2007	Permit issued to Robert Wiseman & Sons Ltd
Application EPR/EP3538MS/V002 (variation)	04/06/2013	Variation to alter some monitoring requirements and introduce a temporary relaxation of the ammonia limit.
Variation Determined	29/07/2013	Varied permit issued
Permit transfer EPR/BP3635EF/T001	10/12/2013	Permit EPR/EP3538MS transferred to Muller UK & Ireland Group LLP.
Application EPR/BP3635EF/V002 (variation)	Duly made 14/08/2015	Application to vary the effluent temperature limit.
Variation determined EPR/BP3635EF/V002	19/10/2015	Varied permit issued.
Application EPR/BP3635EF/V003	Duly made 23/11/2020	Application to vary the permit to add new CHP engines and associated emission point.
Variation determined EPR/BP3635EF	22/01/2021	Notice of variation issued.
Application EPR/BP3635EF/V004 (variation and consolidation)	Regulation 61 Notice response received 22/07/2022	Environment Agency initiated variation and consolidation following the Food, Drink & Milk Industries sector permit review.
Request for further information dated 23/03/2023	Response received 29/03/2023	Further information in relation to production capacity (average daily quantity of milk received at the site).
Variation determined and consolidation issued EPR/BP3635EF/V004 (Billing ref. GP3741QQ).	06/06/2023	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/BP3635EF

Issued to

Muller UK & Ireland Group LLP (“the operator”)

whose registered office is

**Tern Valley Business Park
Shrewsbury Road
Market Drayton
Shropshire
TF9 3SQ**

company registration number OC384928

to operate a regulated facility at

**Bridgwater Dairy
Market Way
North Petherton
Bridgwater
Somerset
TA6 6DF**

to the extent set out in the schedules.

The notice shall take effect from 06/06/2023

Name	Date
Marcus Woodward	06/06/2023

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/BP3635EF

This is the consolidated permit referred to in the variation and consolidation notice for application

EPR/ BP3635EF/V004 authorising,

Muller UK & Ireland Group LLP (“the operator”),

whose registered office is

Tern Valley Business Park

Shrewsbury Road

Market Drayton

Shropshire

TF9 3SQ

company registration number OC384928

to operate an installation at

Bridgwater Dairy

Market Way

North Petherton

Bridgwater

Somerset

TA6 6DF

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

Name	Date
Marcus Woodward	06/06/2023

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 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.

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.
- 3.1.4 For the following activities referenced in schedule 1, table S1.1 (AR3: 2 x 2.6MWth boiler plant): The first monitoring measurements shall be carried out within four months of 01/01/2030 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.

4.3 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

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	S6.8 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 packaged milk. Volume of raw milk permitted at the site is limited to 2.88 million litres of milk per day.
AR2	S5.4 A1 (a) (i)	Biological treatment of non-hazardous waste water.	From generation of waste water to discharge to water course (via private sewer and offsite settlement pond).
Directly Associated Activity			
AR3	Steam and electrical power supply	Medium Combustion plants: 2 x 2.6 MWth gas-fired boilers 2 x 3.6 MWth gas-fired CHP	From receipt of natural gas to emissions of combustion gases and release of heat and electricity
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	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.
AR6	Cleaning in place	Use of acids and sodium hydroxide to clean pipework and vessels	From receipt of chemicals to discharge to effluent treatment plant
AR7	Waste removal	Removal of waste from site	From generation of waste to storage pending removal for disposal or recovery.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to section 2.1 and 2.2, excluding 2.2.1, 2.2.5, 2.2.20 and 2.2.21 in the Application.	10/05/2007
Additional information received	All	24/07/2007; 26/07/2007 and 27/07/2007
Application EPR/EP3538MS/V002	The responses to all questions and supporting information provided within Part C2 and Part C3 of the application.	24/04/2013
Additional information EPR/EP3538MS/V002	Document ref: WI227B Procedure for 'management of the effluent plant during high ammonia levels'.	04/06/2013

Table S1.2 Operating techniques		
Description	Parts	Date Received
Additional information EPR/EP3538MS/V002	Document ref: WI227B Procedure for 'management of the effluent plant during high ammonia levels' Version 2.0.	29/07/2013
Application EPR/BP3635EF/V003	Supporting Information in respect of application to vary environmental permit ref BP3635EF – Document ref. MUK_SID/092020, dated September 2020	23/11/2020
Regulation 61 (1) Notice – Responses to questions dated 24/03/2022	All parts	Received 22/07/2022

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC5	<p>The operator shall submit a climate change adaptation plan to the Environment Agency for approval.</p> <p>The plan shall include, but not be limited to:</p> <ul style="list-style-type: none"> • Details of how the installation has or could be affected by severe weather; • The scale of the impact of severe weather on the operations within the installation; • An action plan and timetable for any improvements to be made to minimise the impact of severe weather at the installation. <p>The Operator shall implement any necessary improvements to a timetable agreed in writing with the Environment Agency. The approved plan will form part of the EMS.</p>	06/06/2024
IC6	<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"> • current secondary/tertiary containment measures • any deficiencies identified in comparison to relevant standards • improvements proposed • time scale for implementation of improvements. <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>	06/06/2024
IC7	<p>The Operator shall undertake a comprehensive review and assessment of the management of the Effluent Treatment Plant (ETP) during elevated ammonia levels.</p> <p>The assessment shall include, but not be limited to:</p> <ul style="list-style-type: none"> • An assessment of the impact of rapid ambient temperature variations. • Detail the specific arrangements for identifying the onset of a rise in ammonia and the proposed mitigation of any rises in order to achieve compliance with the year-round emission limit for ammoniacal nitrogen. • An assessment of the impact of severe weather events associated with climate change. • An action plan and timetable for any improvements to be made to minimise the impact of rapid ambient temperature changes on the ETP at the installation. 	06/12//2023 or other date as agreed in writing with the Environment Agency

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
	Following the assessment, the operator shall submit the report to the Environment Agency for approval and implement any necessary improvements to a timetable agreed in writing with the Environment Agency.	

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
-	-

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on site plan in Schedule 7]	2.6 MWth natural gas fired Boiler Plant (Boiler 1)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³ [Note 1,2]	Periodic	Every three years	MCERTS BS EN 14792
		Carbon monoxide	No Limit	Periodic	Every three years	MCERTS BS EN15058
A2 [Point A2 on site plan in Schedule 7]	2.6 MWth natural gas fired Boiler Plant (Boiler 2)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³ [Note 1,2]	Periodic	Every three years	MCERTS BS EN 14792
		Carbon monoxide	No Limit	Periodic	Every three years	MCERTS BS EN15058
A3 [Point A3 on site plan in Schedule 7]	3.6 MWth natural gas fired CHP (CHP 1)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	95 mg/m ³ [Note 3]	Periodic	Every 3 years	MCERTS BS EN 14792
		Carbon monoxide	No Limit	Periodic	Every three years	MCERTS BS EN15058
<p>Note 1 - emission limit and/or monitoring requirements apply from 1 January 2030, unless otherwise advised by the Environment Agency or the boiler is replaced.</p> <p>Note 2: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O₂ content of 3% O₂</p> <p>Note 3: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O₂ content of 6% for solid fuels, 15% for engines and gas turbines and 3% all other MCPs</p>						

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in schedule 7 emission Huntworth Rhyne via private surface water sewer and Regional Rural Business Park settlement pond	Effluent Treatment plant	Total daily volume of discharge	850 m ³ /day	24-hour total	Continuous	MCERTS self-monitoring of effluent flow scheme
		Biological Oxygen Demand (BOD)	15 mg/l	24-hour flow proportional sample	Monthly	BS EN 1899-1
		Chemical Oxygen Demand (COD) ^{Note1}	125 mg/l ^[Note 2]	24-hour flow proportional sample	Daily ^[Note 3]	BS EN ISO 15705
		Total suspended solids (TSS)	15 mg/l	24-hour flow proportional sample	Daily ^[Note 3]	BS EN 872
		Ammoniacal nitrogen, as N	5 mg/l	24-hour flow proportional sample	Daily	BS EN ISO 11732:2005
			15 mg/l ^[Note 4]			
		Total Nitrogen	20 mg/l ^[Note 2]	24-hour flow proportional sample	Daily ^[Note 3]	BS EN 12260
		Total Phosphorus	4 mg/l ^[Note 2]	24-hour flow proportional sample	Daily ^[Note 3]	EN ISO 6878
		pH	6-9	Instantaneous	Continuous	As agreed with the Environment Agency
Temperature	≤35°C	Instantaneous	Continuous	As agreed with the Environment Agency		

Note 1: TOC and COD are alternatives. TOC is the preferred option because it does not rely upon the use of very toxic chemicals.

Note 2: Emission limit applies from 4 December 2023, unless otherwise advised by the Environment Agency.

Note 3: if the emission levels are proven to be sufficiently stable, a lower monitoring frequency can be adopted, but in any case at least every month.

Note 4: The temporary limit of 15mg/l can be applied for one period of up to a maximum of 96 hours at a frequency of once per year to accommodate for rapid temperature fluctuations during springtime, which shock the nitrifying organisms. The overall loading within each 24-hour period will not exceed existing permitted limits. This will be achieved by an equivalent volume flow reduction. The temporary limit is applicable until the completion of the agreed timetable of improvements arising from IC7.

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
Point source emissions to air Parameters as required by condition 3.5.1	A1, A2	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
	A3	Every three years	Every three years
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

Parameter	Units
Pasteurised milk produced.	tonnes

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Waste	Annually	tonnes
COD efficiency	Annually*	COD te/te product
Food waste	Annually	Tonnes

*COD efficiency to be calculated on a weekly frequency, reported annually

Parameter	Reporting form	Form version number and date
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
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	

(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	
To be notified within 24 hours of detection	
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) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
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.	

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

Part B – to be submitted as soon as practicable

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

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.

“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.

“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, 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.

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.

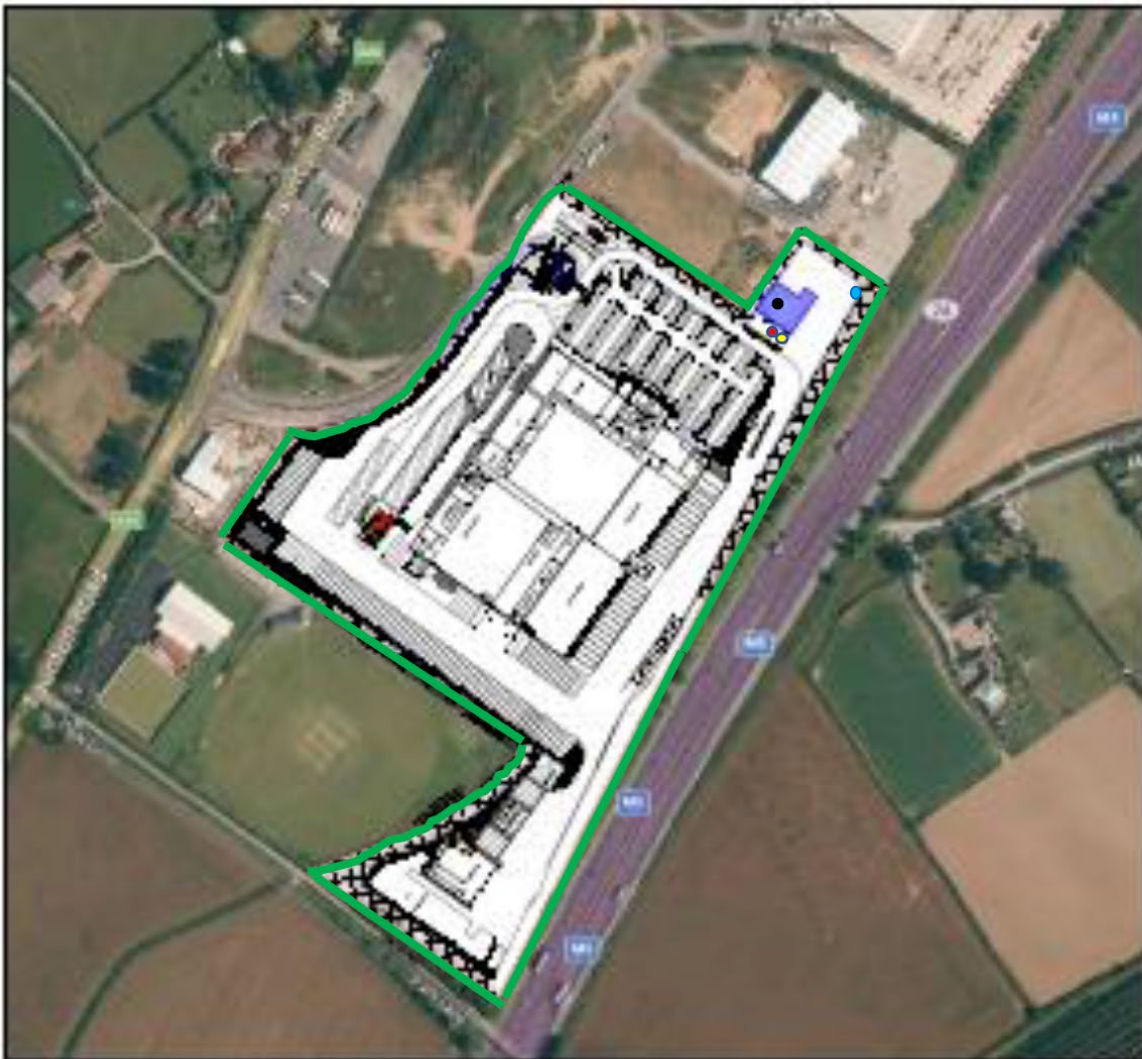
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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 gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous 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

Site Location Plan showing Boundary (in Green) and CHP Plant (in blue)



SITE LOCATION PLAN SCALE 1:2500

-  W1 emission point
-  A1 emission point
-  A2 emission point
-  A3 emission point

©Crown Copyright. All rights reserved. Environment Agency, 100024198, 2023.

END OF PERMIT