

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

South Caernarfon Creameries Limited

**South Caernarfon Creamery
Rhyd-y-Gwystl
Pwllheli
Gwynedd
LL35 6SB**

Permit number

EPR/BL9941IC

South Caernarfon Creamery

Permit number EPR/BL9941IC

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The installation processes cow milk and is designed for a throughput of up to 585,000 litres of milk a day. Cheese, cream, and whey are manufactured at the installation. The installation is operated 24 hours a day, 7 days a week throughout the year.

The main activities of the installation are:

1. Raw Milk Reception

Milk from farms is delivered pre-chilled daily to site, off loaded, and stored in insulated silos.

2. Milk Processing

All milk is processed for cheese manufacturing. Cream, a by-product of the separation of cheese processing milk prior to pasteurisation, is produced as part of the process.

3. Cheese and Whey Manufacture

A cheese starter is added to pasteurised milk, the curds and whey are separated. The whey is then also processed at the site as biproduct of cheese.

4. Packing

At the appropriate stage of maturity, the cheese blocks are cut and packaged for retail.

5. Cleaning

All process plant and filling equipment is cleansed and sterilised.

6. Storage and Handling

All raw materials are stored within containment systems to contain potential spillages.

7. Steam Generation

Steam is produced by three boiler plant for use in the process.

8. Refrigeration

An ammonia-based refrigeration system serves the cheese processing area air conditioning, the milk and cream area air conditioning, the two raw cream pasteurisers and the two milk pasteurisers.

9. Effluent Treatment Plant

All effluent produced in the process is treated at the dedicated Effluent Treatment Plant (ETP). Effluent is drained into a below ground double skinned tank with a leak detection system before being pumped to a balancing tank or running into an existing drainage system which feeds the effluent treatment plant. The ETP will consist of 2 activated sludge tanks with associated anoxic zones and lamella filtration systems. Treated effluent is then discharged into the River Erch.

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

Status log of the permit

Description	Date	Comments
Application EPR/BL9941IC	09/10/2002	
Response to request for information.	Request dated 20/01/2003	Response dated 06/03/2003
Response to request for more information.	24/04/2003	Response dated 17/12/2003
Response to request for information	Request dated 14/05/2003	Request accepted 19/05/2003
Request to extend determination	Request dated 03/10/2003	Request accepted 14/10/2003
Request to extend determination	Request dated 06/01/2004	Request accepted 07/01/2004
Response to request for information	Request dated 05/04/2004	Response dated 04/05/2004
Request to extend determination.	Request dated 21/05/2004	Request accepted 25/05/2004
Permit determined	28/05/2004	
Agency variation determined EPR/BL9941IC/V002	22/03/2013	Agency variation to implement the changes introduced by IED.
NRW initiated variation (EPR/BL9941IC/V003)	07/07/2014	NRW initiated variation to consolidate and add requirements for monitoring so that BAT standards are met.
Application for a minor technical variation (EPR/BL9941IC/V003 – combined with NRW initiated variation)	Duly Made 21/09/2015	Application to include new cheese making plant in east area of site to replace existing cheese making facilities in west area of site.
Variation application determined (EPR/BL9941IC/V003 - combined with NRW initiated variation)	22/12/2015	Permit issued to South Caernarfon Creameries Limited.
Regulation 61 Notice sent to the Operator	24/04/2020	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for the Food, Drink and Milk Industries.
Application EPR/BL9941IC/V004	Duly Made 02/07/2020	
Regulation 61 Notice response	15/10/2020	Response received from the operator.
Variation EPR/BL9941IC/V004 determined	05/11/2021	Permit issued to South Caernarfon Creameries Limited.

Status log of the permit

Description	Date	Comments
NRW initiated variation determined EPR/BL9941IC/V005	04/02/2022	Varied permit issued to Operator. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for the Food, Drink and Milk Industries.
Application EPR/BL9941IC/V006	Duly made 14/03/2022	Application to extend site boundary and add ammonia-based refrigeration system.
Variation determined EPR/BL9941IC/V006	09/06/2022	Permit issued to South Caernarfon Creameries Limited.

Superseded Licences/Authorisations/Consents relating to this installation

Operator	Reference Number	Date of Issue
South Caernarfon Creameries Limited	CG008841	14/08/1985

End of introductory note.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/BL9941IC

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BL9941IC/V006 authorising,

South Caernarfon Creameries Limited (“the operator”),
whose registered office is

Rhyd-y-Gwystl
Pwllheli
Gwynedd
LL53 6SB

company registration number **IP12227R**

to operate an installation at

South Caernarfon Creamery
Rhyd-y-Gwystl
Pwllheli
Gwynedd
LL35 6SB

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

Signed	Date
Holly Noble	09/06/2022

Authorised on behalf of Natural Resources Wales

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”).
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

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 (a) 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 Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 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.
- 2.3.4 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 Natural Resources Wales.

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.
- 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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, 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 Natural Resources Wales.
- 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 Natural Resources Wales.

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 Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural resources Wales

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

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

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, 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 (a) In the event 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 Natural Resources Wales,

- (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) in the event of a breach of any permit condition the operator must immediately—
 - (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1(a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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) Natural Resources Wales 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 Natural Resources Wales 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, Natural Resources Wales 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 and WFD Annex I and II operations	Limits of specified activity
A1	S6.8 A (1) (e)	Treating and processing milk	Raw milk processing up to 585,000 litres/day (average value on an annual basis).
A2	S5.4 A (1) (a) (i)	D8: Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by biological treatment	Primary and secondary treatment of liquid waste produced on site prior to discharge into the Afon Erch.

Directly Associated Activity

A3	Storage and handling raw materials	Milk receipt and storage	Delivery of milk, storage in six silos with a total capacity of 950,000 litres
A4	Storage and handling of waste	On-site storage, treatment and disposal of waste	Storage of waste produced on-site prior to collection for transportation off-site.
A5	Storage and handling of product	Storage of milk, cheese and cream in refrigerated areas	From production of final product to its transportation off-site.
A6	Whey Processing	Processing a bi-product of cheese production	Whey processing up to a finished capacity of less than 75 tonnes/day
A7	Steam and heat generation	1x 2.5 MWth boiler and 2x 3.2 MWth boilers, all fuelled on oil	From receipt of fuel to discharge of combustion products to air
A8	Refrigeration	Closed loop ammonia-based refrigeration system	Storage of ammonia will be limited to 830 kilograms at any one time.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2 given in section 2.1 and 2.2 of the application.	09/10/2002
Response to schedule 4 Notice dated 24/04/2003	Response to questions 2, 3, 4, 5, 6, 7,8 ,9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 and 25.	17/12/2003
Application	Response to question 3 -3a in Part C3 of the application, Table 3: Technical Standards and Best Available Techniques for Re-development section of application.	27/08/2015
Application BL9941IC/V004	Response to Part C2 and C3 and all referenced documents including Odour management plan and Accident management plan	31/12/2019 & 15/10/2020

Table S1.2 Operating techniques

Description	Parts	Date Received
Response to regulation 61(1) Notice – request for information dated 27/04/2020 detailing how the Operator will comply with the BAT conclusions for the Food, Drink and Milk Industries under Directive 2010/75/EU of the European Parliament and of the Council	All	15/10/2020
Additional information received via E-mail	All	09/11/2021
Application BL9941IC/V006	Non-technical summary: section 4 and Appendix 3 (Document ref: ED15903 SCC Permit Variation ERA_1375_GD RA Matrix revision 9 22.12.21)	07/01/2022
Additional information received via E-mail	Response to question regarding Environmental Risk Assessment for noise and associated Acoustic Assessment (Document ref: E900 R1A Acoustic Assessment)	10/03/2022
Noise Management Plan (as approved by Natural Resources Wales)	-	In line with Improvement program requirement 28
Additional information received via E-mail	All including attachments: <ul style="list-style-type: none"> Toggleblock Off Steating Valve 12-05-22 Drainage technical note – toggleblok SCC-SDA-J-XX-DR-C-0014-C0 GA Surface Water Drainage SCC-SDA-J-XX-DR-C-0018-C0 GA Trade Effluent Drainage 	12/05/2022

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1	The Operator shall submit details of proposed continuous temperature, pH, flow, rate, and dissolved oxygen equipment is to be installed on emission point W1 for agreement with Natural Resources Wales. Details of the monitoring and sampling methodologies shall also be provided. The Operator shall install the equipment agreed as a result of the above submission to emission point W1.	Completed
2	The Operator shall assess ways to provide more effective management of the effluent treatment plant ensuring 24 hour control, compliance and that adequate expertise is available at all times. The scope for this assessment shall be agreed in writing with Natural Resources Wales prior to being initiated. A report shall be produced detailing all the improvements identified with appropriate timescales. A copy of the findings shall be forwarded to Natural Resources Wales.	Completed
3	The Operator shall produce and issue an Environmental Policy to all appropriate staff, as specified in section 2.1.2 of the Application (EPR/BL9941IC).	Completed

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
4	The Operator shall produce a procedure for assessing milk wastage for all parts of the installation and to identify any possible improvements, as specified in section 2.2.2.1 of the Application (EPR/BL9941IC). The effect on the influent to the effluent treatment plant shall also be assessed. A copy of the procedure shall be forwarded to Natural Resources Wales.	Completed
5	The Operator shall install suitable bunding around the milk silos, whey silo and associated splash control system. Splash guards, crash barriers and a diversion system shall also be installed as deemed necessary (as specified in section 2.3.20 of the Application (EPR/BL9941IC)).	Completed
6	A suitable bund shall be installed around the oil storage tank, as specified in section 2.3.20 of the Application (EPR/BL9941IC).	Completed
7	The Operator shall produce a maintenance schedule and appropriate recording system for all plant and equipment within the installation, as specified in section 2.1.3 of the Application (EPR/BL9941IC). Details of the schedule shall be provided to Natural Resources Wales for agreement.	Completed
8	The Operator shall prepare a scheme for monitoring and measuring performance at the installation, as specified in section 2.1.4 of the Application (EPR/BL9941IC). Details of the scheme shall be provided to Natural Resources Wales for agreement.	Completed
9	The Operator shall write and implement a Noise Management Plan to assess all of the fixed and mobile noise sources listed in the Enviro Noise Assessment report dated September 2003 and how their potential to cause noise will be reduced. A copy of the plan shall be provided to Natural Resources Wales for agreement prior to implementation.	Completed
10	The Operator shall write and implement a Noise Management Plan to assess all of the fixed and mobile noise sources listed in the Enviro Noise Assessment report dated September 2003 and how their potential to cause noise will be reduced. A copy of the plan shall be provided to Natural Resources Wales for agreement prior to implementation.	Completed
11	The Operator shall carry out an assessment of the monitoring points on the boiler stacks to ensure compliance with the relevant standards as set out in Natural Resources Wales guidance (Sampling Requirements for monitoring stack emissions to air from industrial installations). A report shall be forwarded to Natural Resources Wales detailing whether or not the relevant standard is currently being complied with. Timescales for the installation of appropriate sample points shall be included as necessary.	Completed
12	The Operator shall implement environmental awareness training to all staff, as specified in section 2.1.5 of the Application (EPR/BL9941IC).	Completed
13	The Operator shall carry out a study into whether tertiary treatment at the effluent treatment plant is BAT. A copy of the study shall be submitted to Natural Resources Wales including timescales for its installation (if appropriate).	Completed
14	The Operator shall review the impact of the discharge from the effluent treatment plant on the Afon Erch. A copy of the findings shall be forwarded to Natural Resources Wales.	Completed
15	The Operator shall number and colour code the drains on site to easily identify whether they are surface water only or go to the effluent treatment plant (as specified in section 2.3.20 of the Application (EPR/BL9941IC)).	Completed
16	A review of the cleaning procedures in the milk reception area shall be carried out by the Operator. The review shall consider improvements required to minimise odours from the area as specified in response to question 17 of the second schedule 4 response. A report shall be forwarded to the Agency detailing any improvements highlighted with timescales for their implementation	Completed

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
17	The Operator shall investigate the feasibility of more frequent monitoring and maintenance to ensure operational and combustion efficiency of the boilers. A report shall be submitted to Natural Resources Wales detailing the findings and including timescales for implementation of any improvements identified.	Completed
18	Details of the proposed replacement boilers shall be forwarded to Natural Resources Wales. Information on the emissions from these boilers and environmental impact of the change shall be included within the report. Justification on why these boilers represent BAT and details of commissioning shall also be included. The replacement boilers shall be installed.	Completed
19	The Operator shall undertake fortnightly monitoring of the borehole water for iron (dissolved and total) for the first six months following the issuing of this permit. The analysis shall be carried out by a suitably accredited lab using analytical methods as specified in the Dairy and Milk Processing guidance, section 2.10.4 and appendix 1. The results shall be submitted to Natural Resources Wales.	Completed
20	The Operator shall provide a report detailing how the VOCs from the aeration tank will be monitored to assess the possible odour impact of the releases from this tank.	Completed
21	For the first six months following the issue of this permit the Operator shall carry out daily monitoring of the discharge from emission point W1. The determinands to be analysed for shall include BOD, ammonia, ortho phosphate, total phosphorus, total aluminium, chloride and dissolved oxygen. The analysis shall be carried out by a suitably accredited lab using analytical methods as specified in the Dairy and Milk Processing guidance, section 2.10.4 and appendix 1. The results shall be submitted to Natural Resources Wales monthly. Details of the lab and analytical methods used shall be included. Subject to the results of this investigation, appropriate monitoring frequencies will be set by Natural Resources Wales.	Completed
22	The Operator shall implement an independently audited environmental management system equivalent to ISO14001.	Completed
23	The operator shall install an auto sampler certified to MCERT's to enable flow weighted sampling and weekly analysis of the discharge of process effluent from W1 in accordance with BAT. The operator shall install a turbidity monitoring system certified to MCERT's to enable continuous analysis of process effluent discharge W1 in accordance with BAT. The operator shall ensure equipment for continuously monitoring the effluent quality is linked to automatic process controls so as to prevent effluent exceeding permitted limits from being discharged via W1 into the Afon Erch. The operator shall submit details and process drawings of the above required installations, together with working procedures for their effective operation and maintenance in writing to Natural Resources Wales.	Completed
24	The operator shall conduct a BAT assessment on the Effluent Treatment Plant having regard to current Environmental Permitting Guidance. This must not only include the treatment technology employed but also the associated risks and process controls and procedures in place to manage such risks. Such a review should include any proposals with timescales for improvements required to meet any departures from BAT that are identified. The review must be submitted in writing to Natural Resources Wales by the date specified or otherwise in writing.	Completed

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
25	The operator shall submit a written 'secondary and tertiary containment plan' for the upgraded Effluent Treatment Plant and shall obtain the Natural Resources Wales written approval to it. The plan shall contain the results of a review conducted, by a competent person, in accordance with the risk assessment methodology detailed within CIRIA C736 (2014) guidance, of the condition and extent of secondary and tertiary containment systems where all potentially polluting liquids and relevant solids are being stored, treated, and/or handled within the Effluent Treatment Plant. The review shall consider, but not limited to, the effluent storage and treatment vessels, chemical reagent storage vessels, bunds and transfer pipework/pumps. The plan must contain dates for the implementation of individual improvement measures necessary for the secondary and tertiary containment systems to adhere to the standards detailed/referenced within CIRIA C736 (2014) guidance and How to comply with your environmental permit (2014) guidance, or equivalent. The plan shall be implemented in accordance with the Natural Resources Wales written approval.	1 year from issue date of permit V004
26	<p>The Operator shall submit to Natural Resources Wales an updated written procedure following additional investigatory work describing how they intend to meet the following BAT requirements in accordance with the requirements specified within:</p> <ul style="list-style-type: none"> BAT Conclusion 9 of the Food, Drink and Milk Industries BRef Document (EU 2019) – In order to prevent emissions of ozone depleting substances and of substances with a high global warming potential from cooling and freezing, BAT is to use refrigerants without ozone depletion potential and with a low global warming potential <p>The report should include but not limited to</p> <ul style="list-style-type: none"> a review of the use of the current refrigerant(s) as to whether it meets the BAT requirements as specified above and; a feasibility study regarding the replacement of the current refrigerant(s) with one with a lower global warming potential and no ozone depletion potential. Suitable alternatives include but not limited to ammonia, water and carbon dioxide. <p>The report shall be submitted to Natural Resources Wales by the date specified for review. Natural Resources Wales will review the report to determine if the above BAT requirements have been achieved.</p>	4 June 2023 or otherwise agreed in writing with Natural Resources Wales
27a	<p>Following successful commissioning of the new ammonia-based refrigeration system, the Operator shall undertake noise monitoring at the nearest local receptors. An addendum to the existing noise impact assessment for the site shall be submitted to Natural Resources Wales for approval. This shall:</p> <ul style="list-style-type: none"> Meet BS4142:2014 standards Reference to the Welsh Government Noise and soundscape action plan 2018-2023 <p>The Operator shall submit the revised noise impact assessment to Natural Resources Wales for approval.</p>	Within 6 months of commissioning of the new ammonia-based refrigeration system or as otherwise agreed in writing with Natural Resources Wales

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
27b	<p>Following completion of Improvement program requirement 27a, if the noise impact assessment demonstrates that the new ammonia-based refrigeration system is causing an exceedance of noise level limit recommendations outlined in 'E900 R1A Acoustic Assessment', the Operator shall:</p> <ul style="list-style-type: none">• Implement suitable mitigation measures to ensure noise is not exceeding the noise limit recommendations• Complete a revised noise impact assessment following implementation of the mitigation measures to demonstrate the measures are effective <p>The Operator shall submit the revised noise impact assessment to Natural Resources Wales for approval.</p>	Within 9 months of commissioning of the new ammonia-based refrigeration system or as otherwise agreed in writing with Natural Resources Wales
28	<p>The Operator shall update their existing noise management plan following completion of Improvement program requirement 27a and 27b (if applicable). This shall be completed in line with the current relevant guidance.</p> <p>The Operator shall submit the updated noise management plan to Natural Resources Wales for approval.</p>	Within 9 months of commissioning of the new ammonia-based refrigeration system or as otherwise agreed in writing with Natural Resources Wales

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 54 on site plan)	Boiler 1	Oxides of Nitrogen (NO and NO2 expressed as NO2)	No limit set ¹	-	-	-
A2 (Point 55 on site plan)	Boilers 2 & 3	Oxides of Nitrogen (NO and NO2 expressed as NO2)	No limit set ¹	-	-	-
A3 (Point 78 on site plan)	Aeration Tank	VOCs	No limit set	-	-	-

Note 1: Emission limit values were not set by Natural Resources Wales following completion of improvement condition 18 due to the size of the boilers and insignificant emissions.

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 (NGR: SH40630 38900 into Afon Erch)	Effluent treatment plant	Biochemical Oxygen Demand (BOD)	20 mg/l	24-hour flow proportional composite	Weekly	BS EN 1899-1
		Total Organic Carbon (TOC)	125 mg/l	24-hour flow proportional composite	Weekly	EN 1484
		Ammonia	6 mg/l	24-hour flow proportional composite	Weekly	BS EN ISO 11732
		Total nitrogen as N	20 mg/l	24-hour flow proportional composite	Weekly	BS EN 12260 or BS EN ISO 11905-1
		Total suspended solids	30 mg/l	24-hour flow proportional composite	Weekly	BS EN 872

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
		Orthophosphate	1.5 mg/l	24-hour flow proportional composite	Weekly	BS EN ISO 15681-1
		Total phosphorus as P	4 mg/l	24-hour flow proportional composite	Weekly	BS EN ISO 156811
		Total aluminium	1 mg/l	Instantaneous (spot sample)	Weekly	BS EN ISO 11885
		Chloride	520 mg/l	24-hour flow proportional composite	Weekly	Various EN standards available including ES ISO 10304-1 and EN ISO 15682
		Dissolved oxygen	-	24-hour flow proportional composite	Continuous	As agreed in writing with Natural Resources Wales
		Dissolved iron	-	24-hour flow proportional composite	Weekly	BS EN ISO 11885
		Total iron	-	24-hour flow proportional composite	Weekly	BS EN ISO 11885
		Flow	1000 m ³ /day	Instantaneous (continuous)	Continuous	MCERTS flowmeter
		Instantaneous Rate	13.92 l/s	Instantaneous (continuous)	Continuous	MCERTS flowmeter
		Temperature	25°C	Instantaneous (continuous)	Continuous	As agreed in writing with Natural Resources Wales
		pH	>6 and >9	Instantaneous (continuous)	Continuous	BS ISO 10523
		Turbidity	No limit set	Instantaneous (spot sample)	Weekly	Turbidity monitoring system certified to MCERTS

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
W2 (receiving water is the Afon Erch)	Surface water via interceptor (near footbridge)	Oil and grease	None visible	-	Monthly	Visual check
W3 (receiving water is the Afon Erch)	Surface water via interceptor (north of river)	Oil and grease	None visible	-	Monthly	Visual check
W4 (receiving water is the Afon Erch)	Surface water via interceptor (north of river)	Oil and grease	None visible	-	Monthly	Visual check

Schedule 4 - Reporting

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

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to water Parameters as required by condition 3.5.1	W1, W2	Every month	1 January, 1 February, 1 March, 1 April, 1 June, 1 July, 1 August, 1 September, 1 October, 1 November, 1 December

Table S4.2: Annual production

Parameter	Units
Production of cheese, buttermilk and cream	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Energy usage	Annually	MWh
Potable water usage	Annually	tonnes
Non potable water usage	Annually	tonnes
BOD	Annually	BOD/tonne
Maximum sulphur content of fuel oil	In accordance with current Regulations	%
Quantity of sludge from the ETP sent for landspreading / Anaerobic Digestion Plant	Annually	tonnes
Waste disposal and/or recovery	Annually	tonnes

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Water	Form water 1 or other form as agreed in writing by Natural Resources Wales	05/11/2021
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	25/05/2004
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	25/05/2004
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	05/11/2021

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	EPR/BL9941IC
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
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 permit condition	
To be notified immediately within 24 hours of detection unless otherwise specified above	
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

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(c) In the event 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:	
To be notified 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 Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

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

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

“emissions to land” includes emissions to groundwater.

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

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit..

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

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

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

“Pests” means Birds, Vermin and Insects.

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

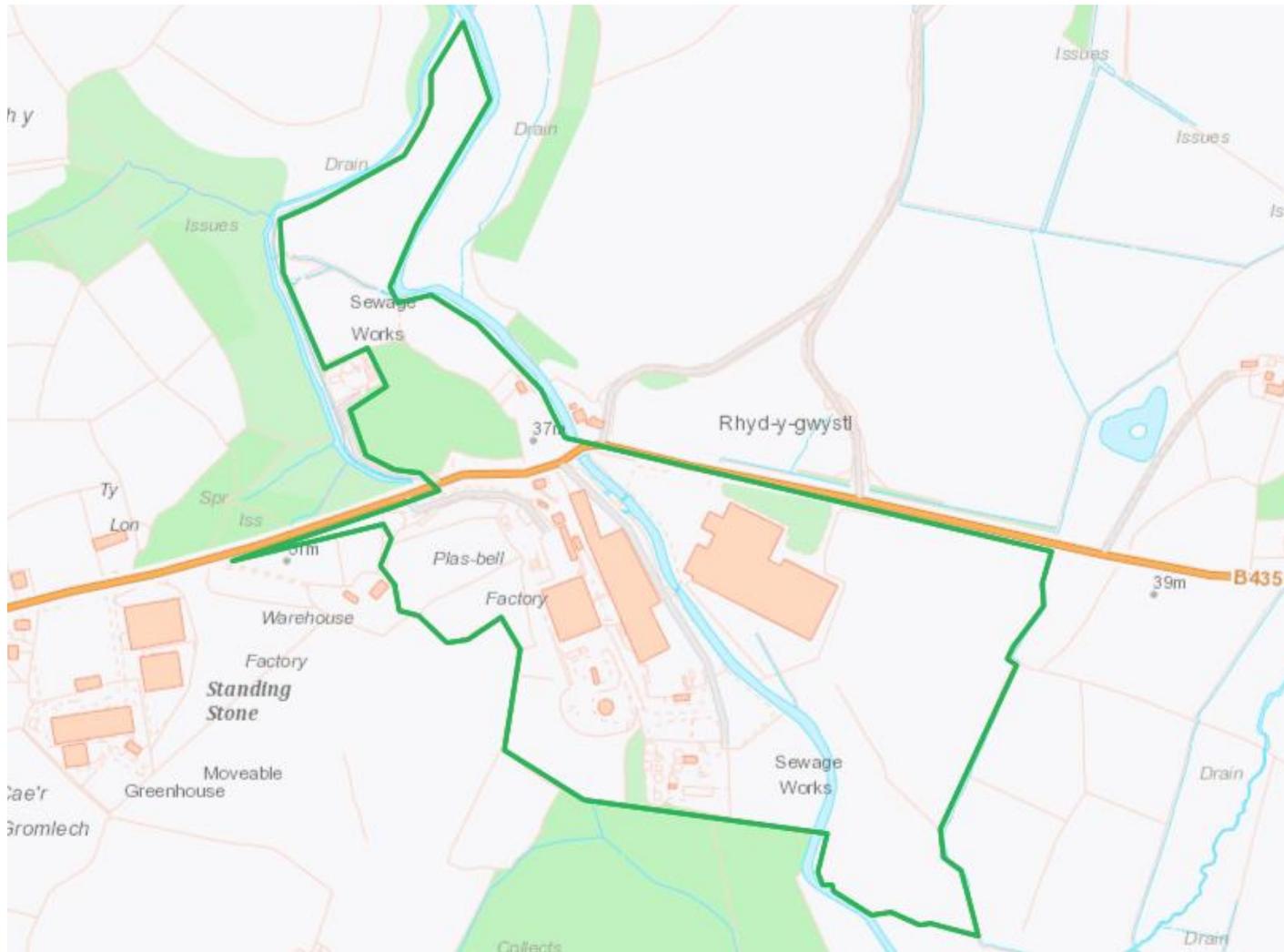
“year” means calendar year ending 31 December.

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:

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