



Permit with introductory note

Pollution Prevention and Control Regulations 2000

**Pwllheli Creamery
South Caernarfon Creameries Ltd
Rhyd-y-Gwystl
Pwllheli
Gwynedd
LL53 6SB**

Permit number

BL9941

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Introductory note

This introductory note does not form a part of the Permit

The following Permit is issued under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No.1973), as amended, ("the PPC Regulations") to operate an installation carrying out activities covered by the description in Section 6.8 A (1) e in Part 1 to Schedule 1 of the PPC Regulations, to the extent authorised by the Permit:

Section 6.8 A (1) e- Treating and processing milk, the quantity of milk received being more than 200 tonnes per day (average value on an annual basis)

Aspects of the operation of the installation which are not regulated by conditions of the Permit are subject to the condition implied by Regulation 12(10) of the PPC Regulations, i.e. the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

In some sections of the Permit conditions require the Operator to use Best Available Techniques (BAT), in each of the aspects of the management of the installation, to prevent and where that is not practicable to reduce emissions. The conditions do not explain what is BAT. In determining BAT, the Operator should pay particular attention to relevant sections of the IPPC Sector guidance, appropriate Horizontal guidance (H1 to H4) and other relevant guidance.

A non-technical description of the installation is given in the Application, but the main features of the installation are as follows.

The treating and processing of cows milk is carried out at the installation for distribution to retail outlets in glass, polybottles and cartons. The installation is designed for a throughput of up to 315,000 litres of milk a day. Cheese, cream, buttermilk and butter are also 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 daily to site, off loaded, chilled and stored in insulated silos.

2. Milk Processing

For cream and buttermilk manufacture the milk is separated prior to pasteurisation. The remaining milk is pasteurised and homogenised into full cream, semi skimmed and skimmed milks and for use in cheese manufacture.

3. Cheese Manufacture

A cheese starter is added to pasteurised milk, the curds and whey are separated. Whey is treated in a reverse osmosis plant to concentrate the solids prior to being sent off site. The curds are cooled and salted and formed into blocks of cheese. These are vacuum sealed and stored in refrigerators for maturing.

4. Packing

Milk is packed into polybottles, cartons and glass bottles. 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

The creamery uses R22 gas as a refrigerant. No ammonia is used which could affect surface waters. Glycol is used as an antifreeze in the chilled water to prevent the system freezing up.

9. Effluent Treatment Plant

All effluent produced in the process is treated at the dedicated effluent treatment plant. Treated effluent is then discharged into the River Erch.

Note that the Permit requires the submission of certain information to the Agency (see Sections 4 and 5). In addition, the Agency has the power to seek further information at any time under regulation 28 to the PPC Regulations provided that it acts reasonably.

Other PPC Permits relating to this installation

Permit holder	Permit Number	Date of Issue
Not Applicable		

Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of Issue
South Caernarfon Creameries Ltd	CG008841	14/08/1985

Other activities may take place on the site of this installation which are not regulated under this Permit or any other PPC Permit referred to in the Table above.

Public Registers

Considerable information relating to Permits including the Application is available on public registers in accordance with the requirements of the PPC Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security.

Variations to the Permit

This Permit may be varied in the future (by the Agency serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introductory Note to any such Variation Notice will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the Permit

Before this Permit can be wholly or partially surrendered, an Application to surrender the Permit has to be made by the Operator. For the application to be successful, the Operator must be able to demonstrate to the Agency that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit. If, however, the Permit authorises the carrying out of a specified waste management activity, the transfer will only be allowed if the proposed holder is also considered to be "a fit and proper person" as required by the PPC Regulations.

Talking to us

Please quote the Permit Number if you contact the Agency about this Permit.

To give a Notification under Condition 5.1.1, the Operator should use the Incident Hotline telephone number (0800 80 70 60) or any other number notified in writing to the Operator by the Agency for that purpose.

Status Log

Detail	Date	Comment
Application BL9941	09/10/2002	
Response to request for information	Request dated 20/01/2003	Response dated 06/03/2003
Response to request for information	Request dated 24/04/2003	Response dated 17/12/2003
Request to extend determination	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	

End of Introductory Note.

Permit

Pollution Prevention and Control
Regulations 2000



**ENVIRONMENT
AGENCY**

Permit

Permit number

BL9941

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations (SI 2000 No 1973), hereby authorises ***South Caernarfon Creameries Ltd*** ("the Operator"),

Of/ whose Registered Office (or principal place of business) is

Rhyd y Gwystl

Pwllheli

Gwynedd

LL53 6SB

Company registration number 12227R.CARN

to operate an Installation(s) at

Rhyd y Gwystl

Pwllheli

Gwynedd

LL53 6SB

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

Signed	Date

Alan Winstone

Authorised to sign on behalf of the Agency

Conditions

1 General

1.1 Permitted Activities

- 1.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.1.1.

Table 1.1.1

Activity listed in Schedule 1 of the PPC Regulations / Associated Activity	Description of specified activity	Limits of specified activity
Section 6.8 A(1) e	Treating and Processing Milk	Raw milk processing up to 315,000 litres / day
Storage and Handling Raw Materials	Milk receipt and storage	Delivery of milk, storage in six silos total capacity 600,944 litres
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
Storage and Handling of Product	Storage of milk, cheese, cream, buttermilk and butter in refrigerated areas	From production of final product to its transportation off site
Effluent Treatment Plant (Directly Associated Activity)	Primary and secondary treatment of liquid waste produced on site	Treat liquid waste prior to discharge into the Afon Erch

- 1.1.2 Where waste on site is subjected to activities that are exempt from control under the Waste Management Licensing Regulations 1994, then the wastes controlled under condition 1.1.1, above, shall be clearly identified and kept separate from such exempt waste activities and a record shall be kept of where such exempt activities are conducted.

1.2 Site

- 1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, being the land shown edged in pink on the Site Plan at Schedule 5 to this Permit.

1.3 Overarching Management Condition

- 1.3.1 Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain a management system, organisational structure and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.

1.4 Improvement Programme

- 1.4.1 The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the Agency within 14 days of the completion of each such requirement.

Table 1.4.1: Improvement programme

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 Agency. Details of the monitoring and sampling methodologies shall also be provided.	30 th June 2004
	The Operator shall install the equipment agreed as a result of the above submission to emission point W1.	31 st August 2004
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 the Agency prior to being initiated.	30 th June 2004
	A report shall be produced detailing all the improvements identified with appropriate timescales. A copy of the findings shall be forwarded to the Agency.	31 st August 2004
3	The Operator shall produce and issue an Environmental Policy to all appropriate staff, as specified in section 2.1.2 of the Application.	31 st July 2004
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. The effect on the influent to the effluent treatment plant shall also be assessed. A copy of the procedure shall be forwarded to the Agency.	31 st July 2004
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).	31 st August 2004
6	A suitable bund shall be installed around the oil storage tank, as specified in section 2.3.20 of the Application	31 st August 2004
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. Details of the schedule shall be provided to the Agency for agreement.	31 st August 2004
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. Details of the scheme shall be provided to the Agency for agreement.	31 st August 2004
9	The Works Instruction for reporting and recording accidents shall be updated by the Operator to include environmental issues, as specified in section 2.1.6 of the Application.	31 st August 2004
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 the Agency for agreement prior to implementation.	30 th September 2004

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 Agency guidance M1 (Sampling Requirements for monitoring stack emissions to air from industrial installations). A report shall be forwarded to the Agency 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.	30 th September 2004
12	The Operator shall implement environmental awareness training to all staff, as specified in section 2.1.5 of the Application.	30 th September 2004
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 the Agency including timescales for its installation (if appropriate).	30 th September 2004
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 the Agency.	30 th September 2004
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).	30 th September 2004
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.	30 th September 2004
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 the Agency detailing the findings and including timescales for implementation of any improvements identified.	31 st October 2004
18	Details of the proposed replacement boilers shall be forwarded to the Agency. 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.	31 st October 2004
	The replacement boilers shall be installed.	31 st December 2005
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 the Agency.	30 th November 2004
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.	30 th November 2004

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 the Agency 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 the Agency.	30 th November 2004
22	The Operator shall implement an independently audited environmental management system equivalent to ISO14001.	30 th June 2005

- 1.4.2 Where the Operator fails to comply with any requirement by the date specified in Table 1.4.1 the Operator shall send written notification of such failure to the Agency within 14 days of such date.

1.5 Minor Operational Changes

- 1.5.1 The Operator shall seek the Agency's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the Agency: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.
- 1.5.2 Any such change shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.
- 1.5.3 When the qualification "unless otherwise agreed in writing" is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the Agency written notice of the details of the proposed method(s) or techniques.
- 1.5.4 Any such method(s) or techniques shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation using that method or technique, and relevant provisions in the Application shall be deemed to be amended.

1.6 Pre-Operational Conditions

- 1.6.1 There are no pre-operational conditions

1.7 Off-site Conditions

1.7.1 There are no off-site conditions

2 Operating conditions

2.1 In-Process Controls

- 2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency in accordance with conditions 1.5.1 and 1.5.2 of this Permit.

Table 2.1.1: 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	9/10/2002
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, 25	17/12/2003

2.2 Emissions

2.2.1 Emissions to Air, (including heat, but excluding Odour, Noise or Vibration) from Specified Points

- 2.2.1.1 This Part 2.2.1 of this Permit shall not apply to releases of odour, noise or vibration.
- 2.2.1.2 Emissions to air from the emission points in Table 2.2.1 shall only arise from the source(s) specified in that Table.

Table 2.2.1 : Emission points to air

Emission point reference or description	Source	Location of emission point
A1	Boiler 1	Point 54 on site plan
A2	Boilers 2 + 3	Point 55 on site plan
A3	Aeration Tank	Point 78 on site plan

- 2.2.1.3 The limits for emissions to air for the parameter(s) and emission point(s) set out in Table 2.2.2 shall not be exceeded.

Table 2.2.2 : Emission limits to air and monitoring

Emission point reference	Parameter	Limit (including Reference Period) ¹	Monitoring frequency	Monitoring method
A1	Oxides of Nitrogen	²	annual	As agreed in writing with the Agency
A2	Oxides of Nitrogen	²	annual	As agreed in writing with the Agency

Note 1: See Section 6 for reference conditions

Note 2: Emission limit values may be set following completion of improvement condition 18

2.2.2 Emissions to water (other than groundwater), including heat, from specified points

2.2.2.1 This Part 2.2.2 of this Permit shall not apply to releases of odour, noise or vibration or to releases to groundwater.

Emissions to Water (other than to Sewer)

2.2.2.2 Conditions 2.2.2.3 - 2.2.2.4 shall not apply to emissions to sewer.

2.2.2.3 Emissions to water from the emission point(s) specified in Table 2.2.4 shall only arise from the source(s) specified in that Table

Table 2.2.4: Emission point to water

Emission Point Reference or description	Source	Receiving Water
W1	<i>Effluent Treatment Plant (NGR SH40630 38900)</i>	<i>Afon Erch</i>
W2	<i>Surface water via interceptor (north of diesel tank)</i>	<i>Afon Erch</i>
W3	<i>Surface water via interceptor (near foot bridge)</i>	<i>Afon Erch</i>
W4	<i>Surface water via interceptor (north of River)</i>	<i>Afon Erch</i>

2.2.2.4 The limits for the emissions to water for the parameter(s) and emission point(s) set out in Table 2.2.5 shall not be exceeded.

Table 2.2.5 : Emission limits to water and monitoring

Emission point reference	Parameter	Limit (including Reference Period)	Monitoring frequency	Monitoring method
W1	BOD	20 mg/l	¹	Dairy and Milk Processing Sector Guidance – Appendix 1
W1	Ammonia	6 mg/l	¹	Dairy and Milk Processing Sector Guidance – Appendix 1
W1	Total Suspended Solids	30 mg/l	Weekly	Dairy and Milk Processing Sector Guidance – Appendix 1
W1	Ortho-Phosphate	1.5 mg/l	¹	Dairy and Milk Processing Sector Guidance – Appendix 1
W1	Total Phosphorus	-	¹	Dairy and Milk Processing Sector Guidance – Appendix 1
W1	Total Aluminium	2.5 mg/l	¹	As agreed in writing with the Agency
W1	Chloride	520 mg/l	¹	As agreed in writing with the Agency
W1	Dissolved Oxygen	-	Continuous ²	As agreed in writing with the Agency
W1	Dissolved Iron	- ³	Fortnightly	As agreed in writing with the Agency
W1	Total Iron	- ³	Fortnightly	As agreed in writing with the Agency
W1	Flow	700 m ³ /day	Continuous ²	As agreed in writing with the Agency
W1	Instantaneous Rate	9.72 l/s	Continuous ²	As agreed in writing with the Agency
W1	Temperature	25 °C	Continuous ²	As agreed in writing with the Agency
W1	pH	> 6 and < 9	Continuous ²	Dairy and Milk Processing Sector Guidance – Appendix 1
W2	Oil & Grease	No visible	Monthly	
W3	Oil & Grease	No visible	Monthly	
W4	Oil & Grease	No visible	Monthly	

Note 1- See improvement condition 21

Note 2- See improvement condition 1

Note 3- See improvement condition 19

Emissions to sewer

2.2.2.21 There shall be no emission to sewer from the Permitted Installation.

2.2.3 Emissions to groundwater

- 2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).
- 2.2.3.2 No emission from within the Permitted Installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)) so as to cause pollution (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).
- 2.2.3.3 For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (SI 1998 No.2746)), the Operator shall use BAT to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.4 Fugitive emissions of substances to air

- 2.2.4.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation in particular from:
- storage areas
 - buildings
 - pipes, valves and other transfer systems
 - open surfaces
- provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.
- 2.2.4.2 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of litter from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5 Fugitive emissions of substances to water and sewer

- 2.2.5.1 Subject to condition 2.2.5.2 below, the Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to water (other than Groundwater) and sewer from the Permitted Installation in particular from:
- all structures under or over ground
 - surfacing
 - bunding
 - storage areas
- provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

- 2.2.5.2 There shall be no release to water that would cause a breach of an EQS established by the UK Government to implement the Dangerous Substances Directive 76/464/EEC.

2.2.6 Odour

- 2.2.6.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- limiting the use of odorous materials
- restricting odorous activities
- controlling the storage conditions of odorous materials
- controlling processing parameters to minimise the generation of odour
- optimising the performance of abatement systems
- timely monitoring, inspection and maintenance
- employing, where appropriate, an approved odour management plan

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.7 Emissions to Land

- 2.2.7.1 This Part 2.2.7 of this Permit shall not apply to emissions to groundwater.
- 2.2.7.2 No emission from the Permitted installation shall be made to land.

2.2.8 Equivalent Parameters or Technical Measures

- 2.2.8.1 The Operator shall comply with the requirements specified in Table 2.2.11, which supplement or replace emission limit values in accordance with Regulation 12(8) of the PPC Regulations.

Table 2.2.11 Equivalent parameters and technical measures

Parameter or measure	Requirement or description of measure, and frequency if relevant
Maximum Sulphur Content of Fuel Oil	In accordance with current Regulations

2.3 Management

- 2.3.1 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

Training

- 2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.
- 2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.

- 2.3.4 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep records of all relevant training.

Maintenance

- 2.3.5 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment, shall be maintained in good operating condition.
- 2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment:
- 2.3.6.1 a written or electronic maintenance programme; and
 - 2.3.6.2 records of its maintenance.

Incidents and Complaints

- 2.3.7 The Operator shall maintain and implement written procedures for:
- 2.3.7.1 taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits and if such event occur;
 - 2.3.7.2 investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and
 - 2.3.7.3 ensuring that detailed records are made of all such actions and investigations.
- 2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions taken.

2.4 Efficient use of raw materials

- 2.4.1 The Operator shall -
- 2.4.1.1 maintain the raw materials table or description submitted in response to Section 2.4 of the Application and in particular consider on a periodic basis whether there are suitable alternative materials to reduce environmental impact;
 - 2.4.1.2 carry out periodic waste minimisation audits and water use efficiency audits. If such an audit has not been carried out in the 2 years prior to the issue of this Permit, then the first such audit shall take place within 2 years of its issue. The methodology used and an action plan for increasing the efficiency of the use of raw materials or water shall be submitted to the Agency within 2 months of completion of each such audit and a review of the audit and a description of progress made against the action plan shall be submitted to the Agency at least every 4 years thereafter; and
 - 2.4.1.3 ensure that incoming water use is directly measured and recorded.

2.5 Waste Storage and Handling

- 2.5.1 The Operator shall design, maintain and operate all facilities for the storage and handling of waste on site such that there are no releases to water or land during normal operation and that emissions to air and the risk of accidental release to water or land are minimised.

2.6 Waste recovery or disposal

- 2.6.1 Waste produced at the Permitted Installation shall be recycled or recovered unless technically and/or economically impossible.
- 2.6.2 The Operator shall maintain the waste recovery or disposal table or description submitted in response to Section 2.6 of the Application and in particular identify the best practicable environmental options for waste disposal.
- 2.6.3 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where relevant removal date of any waste that is produced at the Permitted Installation.

2.7 Energy Efficiency

- 2.7.1 The Operator shall produce a report on the energy consumed at the Permitted Installation over the previous calendar year, by 31 January each year, providing the information required by condition 4.1.2.
- 2.7.2 The Operator shall maintain and update annually an energy management system which shall include, in particular, the monitoring of energy flows and targeting of areas for improving energy efficiency.
- 2.7.3 The Operator shall design, maintain and operate the Permitted Installation so as to secure energy efficiency, taking into account relevant guidance including the Agency's Energy Efficiency Horizontal Guidance Note H2 as from time to time amended. Energy efficiency shall be secured in particular by:
- ensuring that the appropriate operating and maintenance systems are in place;
 - ensuring that all plant is adequately insulated to minimise energy loss or gain;
 - ensuring that all appropriate containment methods, (e.g. seals and self-closing doors) are employed and maintained to minimise energy loss;
 - employing appropriate basic controls, such as simple sensors and timers, to avoid unnecessary discharge of heated water or air;
 - where building services constitute more than 5% of the total energy consumption of the installation, identifying and employing the appropriate energy efficiency techniques for building services, having regard in particular to the Building services part of the Agency's Energy Efficiency Horizontal Guidance Note H2; and
 - maintaining and implementing an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them, having regard to the appraisal method in the Agency's Energy Efficiency Horizontal Guidance Note H2.

2.8 Accident prevention and control

- 2.8.1 The Operator shall maintain and implement when necessary the accident management plan submitted or described in response to Section 2.8 of the Application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Agency notified of the results of the review within 2 months of its completion.

2.9 Noise and Vibration

- 2.9.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of noise and vibration from the Permitted Installation, in particular by:
- equipment maintenance, eg. of fans, pumps, motors, conveyors and mobile plant;
 - use and maintenance of appropriate attenuation, eg. silencers, barriers, enclosures;
 - timing and location of noisy activities and vehicle movements;
 - periodic checking of noise emissions, either qualitatively or quantitatively; and
 - maintenance of building fabric,
- provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.
- 2.9.2 Emergency generators/ alarms/ sirens/ relief valves shall only be tested between the hours of 10.00 and 17.00 Monday to Friday and not on any Public Holiday.
- 2.9.3 The Operator shall implement and maintain the noise management strategy for the installation.

2.10 On-site Monitoring

- 2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Tables 2.2.2 and 2.2.5, unless otherwise agreed in writing, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions.
- 2.10.2 No condition
- 2.10.3 No condition
- 2.10.4 No condition
- 2.10.5 The Operator shall notify the Agency at least 14 days in advance of undertaking monitoring and/ or spot sampling, where such notification has been requested in writing by the Agency.
- 2.10.6 The Operator shall maintain records of all monitoring taken or carried out (this includes 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.

- 2.10.7 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 of this Permit and the environmental or other monitoring specified in condition 2.10.2 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing.
- 2.10.8 There shall be provided:
- 2.10.8.1 safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 to this Permit, unless otherwise specified in that Schedule; and
 - 2.10.8.2 safe means of access to other sampling/monitoring points when required by the Agency.
- 2.10.9 The Operator shall carry out the on-going monitoring identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, unless otherwise agreed in writing by the Agency.
- 2.10.10 The Operator shall, within 6 months of the issue of this Permit, in accordance with and using the format given in the Land Protection Guidance:
- 2.10.10.1 collect the site reference data identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, and
 - 2.10.10.2 report that site reference data to the Agency,
- unless otherwise agreed in writing by the Agency.

2.11 Closure and Decommissioning

- 2.11.1 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:-
- 2.11.1.1 attention to the design of new plant or equipment;
 - 2.11.1.2 the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out; and
 - 2.11.1.3 the maintenance of a site closure plan to demonstrate that the installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.
- 2.11.2 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.
- 2.11.3 The site closure plan shall be implemented on final cessation or decommissioning of the Permitted activities or part thereof.
- 2.11.4 The Operator shall give at least 30 days written notice to the Agency before implementing the site closure plan.

2.12 Multiple Operator installations

2.12.1 This is not a multi-Operator installation

2.13 Transfer to effluent treatment plant

2.13.1 No transfers to effluent treatment plant are controlled under this part of this Permit.

3 Records

- 3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:-
- 3.1.1 be made available for inspection by the Agency at any reasonable time;
 - 3.1.2 be supplied to the Agency on demand and without charge;
 - 3.1.3 be legible;
 - 3.1.4 be made as soon as reasonably practicable;
 - 3.1.5 indicate any amendments which have been made and shall include the original record wherever possible;
 - 3.1.6 be retained at the Permitted Installation, or other location agreed by the Agency in writing, for a minimum period of 4 years from the date when the records were made, unless otherwise agreed in writing; and
 - 3.1.7 where they concern the condition of the site of the Installation be kept at the Permitted Installation, or other location agreed by the Agency in writing, until all parts of the Permit have been surrendered.

4 Reporting

- 4.1.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 16 of the PPC Regulations shall be made or sent to the Agency using the contact details notified in writing to the Operator by the Agency.
- 4.1.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:-
 - 4.1.2.1 in respect of the parameters and emission points specified in Table S2 to Schedule 2;
 - 4.1.2.2 for the reporting periods specified in Table S2 to Schedule 2 and using the forms specified in Table S3 to Schedule 3;
 - 4.1.2.3 giving the information from such results and assessments as may be required by the forms specified in those Tables; and
 - 4.1.2.4 to the Agency within 28 days of the end of the reporting period.
- 4.1.3 The Operator shall submit to the Agency a report on the performance of the Permitted Installation over the previous year, by 31 January each year, providing the information listed in Tables S4.1 and S4.2 of Schedule 4, assessed at any frequency specified therein, and using the form specified in Table S3 to Schedule 3.
- 4.1.4 The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis, or such other period as shall be agreed in writing by the Agency, and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period.
- 4.1.5 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.
- 4.1.6 The Operator shall, within 6 months of receipt of written notice from the Agency, submit to the Agency a report assessing whether all appropriate preventive measures continue to be taken against pollution, in particular through the application of the best available techniques, at the installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement.
- 4.1.7 The Operator shall, within two months of the date of this permit, submit a detailed Site Protection and Monitoring Programme, in accordance with and using the appropriate template format given in the Land Protection Guidance.
- 4.1.8 The Operator shall maintain the Site Protection and Monitoring Programme (SPMP) submitted under condition 4.1.7, and shall carry out regular reviews of it. The results of such reviews and any changes made to the SPMP shall be reported to the Agency within [1 month] of the review or change.

5 Notifications

5.1.1 The Operator shall notify the Agency **without delay** of:-

- 5.1.1.1 the detection of an emission of any substance which exceeds any limit or criterion in this Permit specified in relation to the substance;
- 5.1.1.2 the detection of any fugitive emission which has caused, is causing or may cause significant pollution unless the quantity emitted is so trivial that it would be incapable of causing significant pollution;
- 5.1.1.3 the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution; and
- 5.1.1.4 any accident which has caused, is causing or has the potential to cause significant pollution.

5.1.2 The Operator shall submit written confirmation to the Agency of any notification under condition 5.1.1, by sending:-

- 5.1.2.1 the information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and
- 5.1.2.2 the more detailed information listed in Part B of that Schedule as soon as practicable thereafter;

and such information shall be in accordance with that Schedule.

5.1.3 The Operator shall give written notification as soon as practicable prior to any of the following:-

- 5.1.3.1 permanent cessation of the operation of part or all of the Permitted Installation;
- 5.1.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
- 5.1.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.1.4.2.

5.1.4 The Operator shall notify the Agency, as soon as reasonably practicable, of any information concerning the state of the Site which adds to that provided to the Agency as part of the Application.

5.1.5 The Operator shall notify the following matters to the Agency in writing within 14 days of their occurrence:-

- 5.1.5.1 where the Operator is a registered company:-
 - any change in the Operator's trading name, registered name or registered office address;
 - any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary)
 - any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;
- 5.1.5.2 where the Operator is a corporate body other than a registered company:
 - any change in the Operator's name or address;
 - any steps taken with a view to the dissolution of the Operator.
- 5.1.5.3 In any other case: -
 - the death of any of the named Operators (where the Operator consists of more than one named individual);

4BNotifications

- any change in the Operator's name(s) or address(es);
- 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 them being in a partnership, dissolving the partnership;

5.1.6 Where the Operator has entered into a Climate Change Agreement with the Government, the Operator shall notify the Agency within one month of:-

5.1.6.1 a decision by the Secretary of State not to re-certify that Agreement.

5.1.6.2 a decision by either the Operator or the Secretary of State to terminate that agreement.

5.1.6.3 any subsequent decision by the Secretary of State to re-certify such an Agreement.

5.1.7 Where the Operator has entered into a Direct Participant Agreement in the Emissions Trading Scheme which covers emissions relating to the energy consumption of the activities, the Operator shall notify the Agency within one month of:-

5.1.7.1 a decision by the Operator to withdraw from or the Secretary of State to terminate that agreement.

5.1.7.2 a failure to comply with an annual target under that Agreement at the end of the trading compliance period.

6 Interpretation

6.1.1 In this Permit, the following expressions shall have the following meanings:-

"Application" means the application for this Permit, together with any response to a notice served under Schedule 4 to the PPC Regulations and any operational change agreed under the conditions of this Permit.

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

- water supplied to the site; or
- where more than 50% of the water used at the site is directly abstracted from ground or surface water on site, the abstracted water; or
- where the Permitted Installation uses no significant amount of supplied or abstracted water, the precipitation on to the site.

"BAT" means best available techniques means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: "available techniques" means "those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the operator"; "best" means "in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole" and "techniques" "includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned." . In addition, Schedule 2 of the PPC Regulations has effect in relation to the determination of BAT.

"Fugitive emission" means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under conditions 2.2.1.3, 2.2.2.4, 2.2.2.5, 2.2.2.8 or 2.2.2.9 of this Permit.

"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.

"Land Protection Guidance" means the version of the Agency guidance note "H7 - Guidance on the Protection of Land under the PPC Regime: Application Site Report and Site Protection and Monitoring Programme", including its appended templates for data reporting, which is current at the time of issue of the Permit.

" $L_{Aeq,T}$ " means the equivalent continuous A-weighted sound pressure level in dB determined over time period, T.

" $L_{A90,T}$ " means the A-weighted sound pressure level in dB exceeded for 90% of the time period, T.

" L_{AFmax} " means the maximum A weighted sound level measurement in dB measured with a fast time weighting.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"Monitoring" includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

"Permitted Installation" means the activities and the limits to those activities described in Table 1.1.1 of this Permit.

5B Interpretation

"PPC Regulations" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 (as amended) and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit save to the extent they are specifically defined in this Permit.

"Sewer" means sewer within the meaning of section 219(1) of the Water Industry Act 1991.

"Staff" includes employees, directors or other officers of the Operator, and any other person under the Operator's direct or indirect control, including contractors.

"Year" means calendar year ending 31 December.

- 6.1.2 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.
- 6.1.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means:-
 - 6.1.3.1 in relation to gases 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
 - 6.1.3.2 in relation to gases 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.
- 6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

Schedule 1 - Notification of abnormal emissions

This page outlines the information that the Operator must provide to satisfy conditions 5.1.1 and 5.1.2 of this Permit.

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 PPC Regulations.

Part A

Permit Number	
Name of Operator	
Location of Installation	
Location of the emission	
Time and date of the emission	

Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place
	<i>eg air</i>		
	<i>eg groundwater</i>		

Measures taken, or intended to be taken, to stop the emission	
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Part B

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 or harm which has been or may be caused by the emission	
The dates of any unauthorised emissions from the installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of South Caernarfon Creameries Ltd

Schedule 2 - Reporting of monitoring data

Parameters for which reports shall be made, in accordance with conditions 4.1.2 and 4.1.3 of this Permit, are listed below.

Table S2: Reporting of monitoring data			
Parameter	Emission point	Reporting period	Period begins
Oxides of nitrogen mg m ⁻³	A1, A2	Every 12 months	01/01/2004
Biochemical oxygen demand mg l ⁻¹	W1	Every month	01/06/2004
Suspended solids mg l ⁻¹	W1	Every month	01/06/2004
pH	W1	Every month	01/06/2004
Temperature	W1	Every month	01/06/2004
Ammonia (mg/l)	W1	Every month	01/06/2004
Orthophosphate (mg/l)	W1	Every month	01/06/2004
Total Phosphorus (mg/l)	W1	Every month	01/06/2004
Total Aluminium (ug/l)	W1	Every month	01/06/2004
Dissolved Iron (ug/l)	W1	Every month	01/06/2004
Total Iron (ug/l)	W1	Every month	01/06/2004
Flow	W1	Every month	01/06/2004
Rate	W1	Every month	01/06/2004
Chloride	W1	Every month	01/06/2004
Water usage		Every 12 months	01/01/2004
Energy usage		Every 12 months	01/01/2004
Quantity of sludge from the ETP sent for landspreading (tonnes)		Every 12 months	01/01/2004

Schedule 3 - Forms to be used

Table S3: Reporting Forms		
Media / parameter	Form Number	Date of Form
Air	A1	25/05/2004
Water (excluding sewer)	W1	25/05/2004
Water (excluding sewer)	W2	25/05/2004
Water (excluding sewer)	W3	25/05/2004
Water (excluding sewer)	W4	25/05/2004
Water (excluding sewer)	W5	25/05/2004
Water (excluding sewer)	W6	25/05/2004
Water (excluding sewer)	W7	25/05/2004
Water (excluding sewer)	W8	25/05/2004
Water (excluding sewer)	W9	25/05/2004
Water (excluding sewer)	W10	25/05/2004
Water (excluding sewer)	W11	25/05/2004
Water (excluding sewer)	W12	25/05/2004
Water (excluding sewer)	W13	25/05/2004
Water (excluding sewer)	W14	25/05/2004
Energy	E1	25/05/2004
Waste Return	R1	25/05/2004
Water usage	WU1	25/05/2004
Performance indicators	PI1	25/05/2004

Schedule 4 - Reporting of performance data

Data required to be recorded and reported by Condition 4.1.3. The data should be assessed at the frequency given and reported annually to the Agency.

Table S4.1: Annual Production/Treatment	
Production of milk	(tonnes)
Production of cheese	(tonnes)
Production of buttermilk	(tonnes)
Production of cream	(tonnes)

Table S4.2: Performance parameters			
Parameter		Frequency of assessment	Performance indicator
BOD		Annually	BOD/tonne
Potable water use		Annually	m ³ /tonne
Non potable water use		Annually	m ³ /tonne
Energy Usage		Annually	MJ/ tonne

Schedule 5 - Site Plan



END OF PERMIT