

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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Dairy Crest Limited

Davidstow Creamery  
Camelford  
Cornwall  
PL32 9XW

Variation application number  
EPR/BN6137IK/V007

Permit number  
EPR/BN6137IK

# Davidstow Creamery

## Permit number EPR/BN6137IK

### Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2010 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

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

This consolidation and variation incorporates the following changes to the Permit:

The Dairy Crest site at Davidstow Creamery is upgrading the existing whey powder plant to make demineralised whey powder for use in infant formula. The current whey process will be extended to include a demineralisation process and the evaporator and dryer modified to produce demineralised whey powder.

An new activity is added to table S1.1 for a new prebiotic production plant which will process lactose derived from milk to produce a prebiotic syrup, which will be used to enhance the nutritional value of foods.

The waste water treatment plant (WWTP) will be expanded to manage the increased effluent volumes. An additional discharge pipeline will be installed connecting the demineralisation and prebiotic processes to the WWTP. A new reverse osmosis (RO) plant will be installed to enable treated water from the WWTP to be reused within the factory. There are no changes to the effluent consent limits as a result of this variation.

The site plan has been updated to include the following within the installation boundary: the effluent discharge pipelines from the factory to the WWTP and the pipeline from the WWTP to the final discharge point at the River Inny. The original site plan is also retained illustrating the emission points and a third site plan is added to the permit showing the revised WWTP layout.

The 3.1MW heavy fuel oil filtermat dryer thermo king air heater (emission point A6) has been removed from the permit.

The original introductory note is and repeated and updated below for clarity:

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

Dairy Crest produce approximately 57,000 tonnes of dairy products at their Davidstow plant, including cheese, whey powder and whey butter. Milk is received daily in bulk tankers and is pumped into insulated storage silos. The milk is then transferred from the silos to the process area where it is pasteurised using regeneration plate heat exchangers. The pasteurised milk is then pumped to vats for manufacture of cheddar cheese. The cheese manufacturing process involves the addition of bacterial starter organisms and rennet to the pasteurised milk, which develops acidity, coagulates and separates into curds and whey. The curds are physically separated from the whey and processed into cheese. The whey is stored in silos for further processing into whey butter and whey powder. Any fat remaining in the whey is separated to produce whey cream, which is then pasteurised and stored in cream ageing tanks. The whey cream is then churned to produce whey butter. The separated whey is concentrated by removal of water in multi effect evaporators. The whey concentrate is crystallised and dried in a hot air spray drier with integrated static and external vibro beds. The resulting whey powder is stored in silos before packing into bulk bags.

The installation has:

- 3 boilers that are fired on kerosene with an aggregated thermal output capacity of 30 MW;
- 2 biomass boilers with the thermal capacity of 6MW
- Whey spray dryer with fabric bag filter for particulate abatement;
- Filtermat drier with 5 cyclones for particulate abatement

Process effluent from the site is treated at an on-site effluent treatment plant prior to discharge to the River Inny. Storm water passes through oil interceptors and then into an attenuation pond prior to discharge to the River Inny.

There is one Site of Special Scientific Interest (SSSI) within 1 km and three Special Areas of Conservation (SACs) at 1 km, 2 km and 8 km of the installation; none of which are in hydraulic continuity. The Agency has undertaken an appropriate assessment of the impact of the installation on the designated sites and has concluded that the installation is unlikely to adversely impact any designated site. The operator has an Environmental Management System accredited to ISO 14001 and is in a Climate Change Levy Agreement.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application BN6137IK	Duly made 03/03/05	
Submission of supplementary information	01/05/05	
Response to request for information	28/07/05	Response received 05/08/05
Response to request for information	03/08/05	Response received 09/08/05
Permit determined BN6137IK	06/06/06	
Agency initiated variation UP3439MA determined	22/08/06	
Application WP3135XW	Duly made 16/01/08	
Variation issued	13/02/08	
Application EPR/BN6137IK/V004	Duly made 20/01/10	
Additional information received	25/06/10	Response received 01/07/10
Additional information received	16/07/10	Response received 19/07/10
Additional information received	19/07/10	Response received 22/07/10
Variation issued	16/08/10	
Agency initiated variation EPR/BN6137IK/V005	01/07/11	Variation to introduce new phosphate limit and particulate matter limit
Variation determined EPR/BN6137IK/V005	25/08/11	Varied permit issued
Agency variation determined EPR/BN6137IK/V006	10/02/14	Agency variation to implement the changes introduced by IED
Application EPR/BN6137IK/V007 (variation and consolidation)	Duly made 03/06/14	Application to vary and update the permit to modern conditions.
Variation determined EPR/BN6137IK/V007 (PAS/billing reference: PP3936VS)	28/08/14	Varied and consolidated permit issued in modern condition format.

End of introductory note

## Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

**permit number**  
**EPR/BN6137IK**

**issued to**  
**Dairy Crest Limited** (“the operator”)

whose registered office is

**Claygate House**  
**Littleworth Road**  
**Esher**  
**Surrey**  
**KT10 9PN**

company registration number **02085882**

to operate a regulated facility at

**Davidstow Creamery**  
**Camelford**  
**Cornwall**  
**PL32 9XW**

to the extent set out in the schedules.

The notice shall take effect from 28/08/2014

Name

Date

<b>M Bischer</b>	<b>28/08/2014</b>
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Authorised on behalf of the Environment Agency

**Schedule 1**

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

**Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**  
**EPR/BN6137IK**

This is the consolidated permit referred to in the variation and consolidation notice for application **EPR/BN6137IK/V007** authorising,

**Dairy Crest Limited** (“the operator”),  
whose registered office is

**Claygate House**  
**Littleworth Road**  
**Esher**  
**Surrey**  
**KT10 9PN**

company registration number **02085882**  
to operate an installation at

**Davidstow Creamery**  
**Camelford**  
**Cornwall**  
**PL32 9XW**

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

Name	Date
<b>M Bischer</b>	<b>28/08/2014</b>

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

### 1.2 Energy efficiency

1.2.1 The operator shall:

- (a) take appropriate measures to ensure that energy is recovered with a high level of energy efficiency and 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 red on the site plan A 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 the Environment Agency.
- (b) If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 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 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2 and
  - (b) it conforms to the description in the documentation supplied by the producer and holder.

- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and
  - (e) the waste code of the waste.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

## **2.4 Improvement programme**

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

# **3 Emissions and monitoring**

## **3.1 Emissions to water, air or land**

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

## **3.2 Emissions of substances not controlled by emission limits**

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

### **3.3 Monitoring**

- 3.3.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2;
- 3.3.2 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.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.3.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

### **3.4 Odour**

- 3.4.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **3.5 Noise and vibration**

- 3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.5.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
  - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **3.6 Pests**

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

# **4 Information**

## **4.1 Records**

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
    - (i) off-site environmental effects; and
    - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

## 4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
  - (b) the annual production /treatment data set out in schedule 4 table S4.2; and
  - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

## 4.3 Notifications

- 4.3.1 (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 the Environment Agency,
  - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
  - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) in the event of a breach of any permit condition the operator must immediately—

- (i) inform the Environment Agency, and
    - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
  - (c) 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 the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
  - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
  - (b) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
  - (b) any change in the operator's name(s) or address(es); and
  - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

## **4.4 Interpretation**

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “without delay”, in which case it may be provided by telephone.

# Schedule 1 - Operations

<b>Table S1.1 activities</b>		
<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
Section 6.8 Part 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)	Processing of raw whole milk and production of cheese, whey powder and whey butter.	Receipt of raw materials to dispatch of finished product.
Section 6.8 Part A(1)(d)(i): Treating and processing materials intended for the production of food products from animal raw materials (other than milk) at a plant with a finished product production capacity of more than 75 tonnes per day	Processing of whey concentrate and vegetable oils and production of whey based powder and demineralised whey.  Processing lactose derived from milk with enzymes to produce a prebiotic syrup.	Receipt of raw materials to dispatch of finished product.
Section 5.4 Part A(1)(a)(i): Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by biological treatment	Effluent treatment at a plant with a capacity >300m <sup>3</sup> /day.	Receipt of effluent to discharge to River Inny.
Section 5.1 Part A(1)(b): The incineration of non-hazardous waste in a waste incineration plant or waste co-incineration plant with a capacity exceeding 3 tonnes per hour	Two boilers each of c.6MW burning biomass waste to produce steam for use in Creamery processes.	Receipt of waste wood pellet to emission of combustion gases and dispatch of waste.
<b>Directly Associated Activity</b>		
Oil-fired boilers	Three oil-fired boilers of thermal input 11.5MW, 10.5MW and 10.5MW and an integrated thermal input of 32.5MW.	Receipt of fuels to emission of combustion gases.
Waste storage and disposal	Storage and disposal of wastes.	Receipt of raw materials to disposal of waste products.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	The response to questions 2.1.13-14, 2.2.5-6, 2.2.15, 2.2.24, 2.2.46-49, 2.2.52-57, 2.10.1-5 and 2.10.7-8 of the application	03/03/05
Application	The response to Part C of the application form, Appendix 2 (specific questions for the combustion sector), Table 1.	Duly made 20/01/10
Response to Schedule 5 Notice dated 16/07/10	The response to: <ul style="list-style-type: none"> <li>Question 2 detailing how the boilers will be operated.</li> <li>Questions 7 detailing abatement equipment.</li> </ul>	19/07/10



<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Additional information	Site Plan, as submitted by email.	22/07/10
Application EPR/BN6137IK/V007	Parts C2 and C3 of the application documents and all associated documents.	25/04/14
Application EPR/BN6137IK/V007	Response to not duly made letter; risk assessment, effluent site plan and answers to questions including noise levels of proposed triton blowers.	28/05/14
Application EPR/BN6137IK/V007	Updated site plan showing the revised installation boundary including effluent pipework. Submitted by email.	27/08/14

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IP1	The Operator shall provide a report in writing to the Agency detailing the monitoring method used to determine effluent flow at release point W2. The monitoring method shall be agreed in writing with the Agency.	Complete
IP2	The Operator shall review in writing the arrangements for managing surface water run-off, with particular consideration of detection of contamination with milk and other substances and preventing contaminated discharge to the River Inny via W1. The review shall identify any improvements required together with a timetable to implement any necessary changes identified.	Complete
IP3	The Operator shall assess the current method for effluent flow as agreed in IP1 with the requirements given in the MCERTS standard 'Minimum requirements for the self-monitoring of effluent flow' version 2, Aug 2004. A written report shall be provided to the Agency detailing how this standard is to be achieved and shall include time scales for implementation.	Complete
IP4	The Operator shall submit a report in writing identifying the recommendations of the investigation into high milk loss during pasteuriser start up and shut down. The report shall include any improvements identified along with a timetable for implementation.	Complete
IP5	The Operator shall submit a report in writing identifying improvements to recover residual milk in line to the pasteuriser balance tank prior to cleaning in place. The report shall include any improvements identified along with a timetable for implementation.	Complete
IP6	The Operator produce a noise management plan covering all noise emissions from the installation, having regard to the Agency Guidance Note IPPC H3 (Part 2), Appendix 4 (September 2002). The plan shall identify any improvements required together with a timetable for implementation, to be approved by the Agency.	Complete
IP7	The Operator shall carry out an assessment of the options available for reducing emissions of oxides of nitrogen, sulphur dioxide and particulate matter from emission points A1, A2 and A5. A summary of the assessment shall be sent to the Agency in writing together with a timetable to implement any necessary changes identified, for approval by the Agency.	Complete

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IP8	<p>The operator shall undertake a review of the BAT listed within 'EPR 1.01 How to comply with your environmental permit: Combustion activities' Section 3.2 for NO<sub>x</sub>, SO<sub>x</sub> and Particulate Matter. The review shall include, but not be limited to, all of the relevant techniques listed within EPR 1.01, the reduction in level of pollutants (for each option) and the costs of achieving the reduction (for each option). The report shall include a timetable to implement any proposed changes as appropriate.</p> <p>Along with the monitoring results, this will enable the operator to review with the Environment Agency the ELVs for the releases to air from all combustion activities. The operator shall implement the proposals as agreed in writing with the Environment Agency.</p>	Complete
IP9	The Operator shall submit a report, detailing the final composition and disposal of the ash produced as a result of the operation of the biomass boilers. The operator will update Section 2.6 of the original application, as required by condition 2.6.2 of the permit, and submit it to the Environment Agency.	Complete
IP10	The Operator is to conduct a noise survey of the biomass boilers and fuel handling systems to ensure the noise emissions from the facility are not exceeding those predicted and that the resultant noise levels at the installation boundary are in line with those predicted in the application documents. The operator will provide a report detailing noise survey results, and include a timetable for the implementation of any recommendations made as a result of the noise survey.	Complete
IP11	<p>The operator shall complete a commissioning report of the upgraded WWTP which should include but not be limited to:</p> <ul style="list-style-type: none"> <li>• A study of the effluent quality post treatment, demonstrating that the proposed technologies and methods are suitable for the site and continue meet the limits set within the Permit.</li> <li>• An odour impact assessment including any deviations from the predicted potential odour sources. Identifying areas of potential odour and contingencies where appropriate for prevention/mitigation of odour.</li> <li>• A noise impact assessment including any deviations from the predicted noise emissions. For any increases identified, provide proposals for improved attenuation and a timescale for their implementation.</li> </ul> <p>The operator shall provide a copy of the report to the Environment Agency.</p>	Within 6 months of completion of commissioning the WWTP

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

<b>Table S2.1 Raw materials and fuels</b>	
<b>Raw materials and fuel description</b>	<b>Specification</b>
Processed Fuel Oil (PFO) compliant with the Quality Protocol developed by the Environment Agency and WRAP	Less than 0.1% or 0.1% w/w sulphur content for Heavy Fuel Oil or Gas Oil substitutes respectively.
Kerosene	Less than 0.1% w/w sulphur content

<b>Table S2.2 Permitted waste types and quantities for burning in biomass boilers</b>	
Maximum quantity	18,000 tonnes per annum
<b>Waste code</b>	<b>Description</b>
<b>03</b>	<b>WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD</b>
<b>03 01</b>	<b>wastes from wood processing and the production of panels and furniture</b>
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
<b>15</b>	<b>WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
15 01 03	wooden packaging

## Schedule 3 – Emissions and monitoring

<b>Table 3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method<sup>1</sup></b>
A1 [Point A1 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	Boiler S1 for steam generation	1000 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Every 6 months	BS EN 14792
A1 [Point A1 on site plan in Schedule 7]	Particulate matter	Boiler S1 for steam generation	100 mg/m <sup>3</sup>	Mean over minimum of 30 minute period	Every 6 months	BS EN 13284-1
A1 [Point A1 on site plan in Schedule 7]	Sulphur dioxide	Boiler S1 for steam generation	1000 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Every 6 months	BS EN 14791
A2 [Point A2 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	Boiler S2 for steam generation, dual flue	1000 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Every 6 months	BS EN 14792
A2 [Point A2 on site plan in Schedule 7]	Particulate matter	Boiler S2 for steam generation, dual flue	200 mg/m <sup>3</sup>	Mean over minimum of 30 minute period	Every 6 months	BS EN 13284-1
A2 [Point A2 on site plan in Schedule 7]	Sulphur dioxide	Boiler S2 for steam generation, dual flue	1000 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Every 6 months	BS EN 14791
A3 [Point A3 on site plan in Schedule 7]	Particulate matter	Spray drier for drying of concentrated whey	50 mg/m <sup>3</sup>	Spot sample	Annually	BS EN 13284-1
			-	-	Continuous	CEM <sup>3</sup>
A5 [Point A5 on site plan in Schedule 7]	N/A	Filtermat spray drier for drying of whey based products	N/A	N/A	N/A	N/A
A7 [Point A7 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	Boiler S3 for steam generation, dual flue	1000 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Every 6 months	BS EN 14792
A7 [Point A7 on site plan in Schedule 7]	Particulate matter	Boiler S3 for steam generation, dual flue	200 mg/m <sup>3</sup>	Mean over minimum of 30 minute period	Every 6 months	BS EN 13284-1
A7 [Point A7 on site plan in Schedule 7]	Sulphur dioxide	Boiler S3 for steam generation, dual flue	1000 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Every 6 months	BS EN 14791

**Table 3.1 Point source emissions to air – emission limits and monitoring requirements**

<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method<sup>1</sup></b>
A8 [Point A8 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	Boiler N1 for steam generation	1000 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Quarterly during the first year of operation then every 6 months	BS EN 14792
A8 [Point A8 on site plan in Schedule 7]	Particulate matter	Boiler N1 for steam generation	200 mg/m <sup>3</sup>	Mean over minimum of 30 minute period	Quarterly during the first year of operation then every 6 months	BS EN 13284-1
A8 [Point A8 on site plan in Schedule 7]	Sulphur dioxide	Boiler N1 for steam generation	300 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Quarterly during the first year of operation then every 6 months	BS EN 14791
A9 [Point A9 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	Boiler N2 for steam generation	1000 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Quarterly during the first year of operation then every 6 months	BS EN 14792
A9 [Point A9 on site plan in Schedule 7]	Particulate matter	Boiler N2 for steam generation	200 mg/m <sup>3</sup>	Mean over minimum of 30 minute period	Quarterly during the first year of operation then every 6 months	BS EN 13284-1
A9 [Point A9 on site plan in Schedule 7]	Sulphur dioxide	Boiler N2 for steam generation	300 mg/m <sup>3</sup>	Mean over minimum of 1 hour period	Quarterly during the first year of operation then every 6 months	BS EN 14791

Note 1: method as stated or as otherwise indicated by MCERTS and Environment Agency M2 monitoring guidance.

Note 2: From 01/01/2012.

Note 3: CEM is Continuous Emission Monitor to MCERTS standard.

**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 [Point W1 on site plan in Schedule 7] discharge to River Inny	Uncontaminated surface water drainage from interceptor and attenuation pond	pH	6 – 9		Monthly	BS 6068-2.50:1995 ISO 10523:1994 <sup>1</sup>
W2 [Point W2 on site plan in Schedule 7] discharge to River Inny	Effluent Treatment Plant	Flow	2,600 m <sup>3</sup> /day		Continuous	EN 50 081-2:1993; EN50 082-1:1992; and EN61 010:1993 <sup>1</sup>
		pH	6 – 9		Continuous	No standard method is available <sup>3</sup>
		Ammoniacal nitrogen as N	5 mg/l		Continuous	BS EN ISO 11732:1997 <sup>1</sup>
		BOD <sub>5</sub>	13 mg/l		Daily	ISO 5815:1989 <sup>1</sup>
		Suspended solids	20 mg/l		Daily	ISO 11923:1997 EN872 <sup>1</sup>
		Mercury and its compounds	0.6 µg/l		Annual	Compliance based on Mass Balance Calculation <sup>2</sup>
		Cadmium and its compounds	0.01 mg/l		Annual	Compliance based on mass balance calculation <sup>2</sup>
	Total Phosphorous	1 mg/l <sup>4</sup>		Weekly	BS EN ISO15681 <sup>1</sup>	
<p>Note 1 Or to an EN, BS, ISO or SCA blue book standard as agreed in writing with the Agency.                      Note 2 See condition 6.1.1, Interpretation.                      Note 3 The Operator shall provide a procedure / work instruction that shall be approved by the Agency for the operation of the continuous pH meter having regard to the calibration requirements given in BS6068-2.50:1995, ISO 10523:1984.                      Note 4 From 01/01/2012</p>						

**Table S3.3 Annual limits**

Substance	Medium	Limit (including unit)
Mercury and its components	Water	0.33 kg (compliance based on mass balance calculator)
Cadmium and its components	Water	0.33 kg (compliance based on mass balance calculator)

## Schedule 4 - Reporting

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

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Sulphur dioxide (mg/m <sup>3</sup> )	A1, A2, A7, A8, A9	Every 6 months*	1 January, 1 July
Oxides of nitrogen as NO <sub>2</sub> (mg/m <sup>3</sup> )	A1, A2, A7, A8, A9	Every 6 months*	1 January, 1 July
Total particulates (mg/m <sup>3</sup> )	A1, A2, A5, A7, A8, A9	Every 6 months*	1 January, 1 July
	A3	Annually	1 January
pH	W1, W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Flow (m <sup>3</sup> /day)	W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Ammoniacal nitrogen as N (mg/l)	W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Biochemical oxygen demand (BOD <sub>5</sub> ) (mg/l)	W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Suspended solids (mg/l)	W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Total Phosphorous (mg/l)	W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Cadmium and its compounds (kg/year)	W2	Annually	1 January
Mercury and its compounds (kg/year)	W2	Annually	1 January
Cadmium and its compounds (mg/l)	W2	Annually	1 January
Mercury and its compounds (µg/l)	W2	Annually	1 January
Water usage (m <sup>3</sup> /year)	N/A	Annually	1 January
Energy consumption (MWh/year)	N/A	Annually	1 January
Waste disposal and/or recovery (t/year)	N/A	Annually	1 January
Ammonia refrigerant consumption (kg/year)	N/A	Annually	1 January
R22 refrigerant consumption (kg/year)	N/A	Annually	1 January
R404A refrigerant consumption (kg/year)	N/A	Annually	1 January

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Total product	Tonnes
Production of cheese	Tonnes
Production of whey powder	Tonnes
Production of whey butter	Tonnes
Production of demineralised whey powder	Tonnes
Production of prebiotic syrup	Tonnes

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Mains water usage for total production	Annually	m <sup>3</sup> water / tonnes of total product
Energy usage for total production	Annually	MWh energy / tonnes of total product
Mass of ash produced	Annually	Kg ash / tonne of biomass waste incinerated (dry basis)
All other waste disposal for total production	Annually	Tonnes of waste / tonnes of product

<b>Table S4.4 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Air	Form air 1 (A1) or other form as agreed in writing by the Environment Agency	25/08/2011
Water and Land	Form water 1 (W1) or other form as agreed in writing by the Environment Agency	25/08/2011
Energy usage	Form energy 1 (E1) or other form as agreed in writing by the Environment Agency	08/2010
Waste return	Form R1 or other form as agreed in writing by the Environment Agency	09/2005
Water usage	Form water usage 1 (WU1) or other form as agreed in writing by the Environment Agency	09/2005
Mass release	Form mass release 1 (MR1) or other form as agreed in writing by the Environment Agency	09/2005
Other performance indicators	Form performance 1 (P11) or other form as agreed in writing by the Environment Agency	08/2014
Waste accepted	Form waste accepted 1 (WA1) or other form as agreed in writing by the Environment Agency	08/2010



## 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/BN6137IK
Name of operator	Dairy Crest Limited
Location of Facility	Davidstow Creamery, Camelford, Cornwall, PL32 9XW
Time and date of the detection	

**(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution**

<b>To be notified within 24 hours of detection</b>	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

**(b) Notification requirements for the breach of a limit**

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

*Drafting Note: The time periods for notification should be based on the site-specific risk and deviations from 24 hours should be justified.*

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

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

**Part B - to be submitted as soon as practicable**

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

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator

## Schedule 6 - Interpretation

*“abatement equipment”* means that equipment dedicated to the removal of polluting substances from releases from the installation to air or water media.

*“accident”* means an accident that may result in pollution.

*“application”* means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

*“authorised officer”* means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

*“biomass”* means:

- a) vegetable matter from agriculture and forestry;
- b) vegetable waste from the food processing industry, if the heat generated is recovered;
- c) fibrous vegetable waste from virgin pulp production and from production of paper from pulp, if it is co-incinerated at the place of production and the heat generated is recovered;
- d) cork waste;
- e) wood waste with the exception of wood waste which may contain halogenated organic compounds or heavy metals as a result of treatment with wood preservatives or coating, and which includes in particular such wood waste originating from construction and demolition waste.

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

*“emissions to land”* includes emissions to groundwater.

*“EP Regulations”* means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

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

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

*“ISO”* means International Standards Organisation.

*“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.

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

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

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

“year” means calendar year ending 31 December.

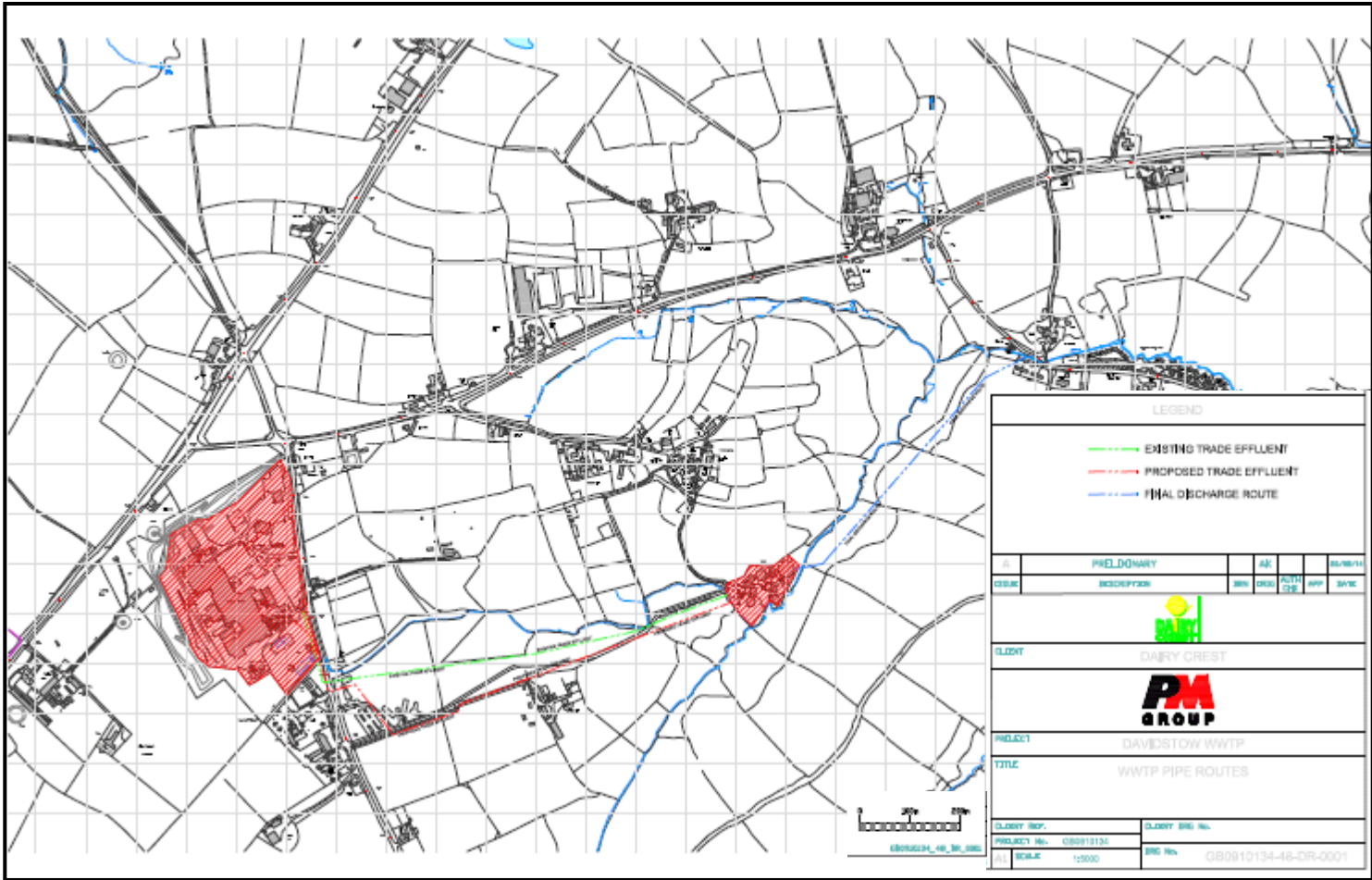
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

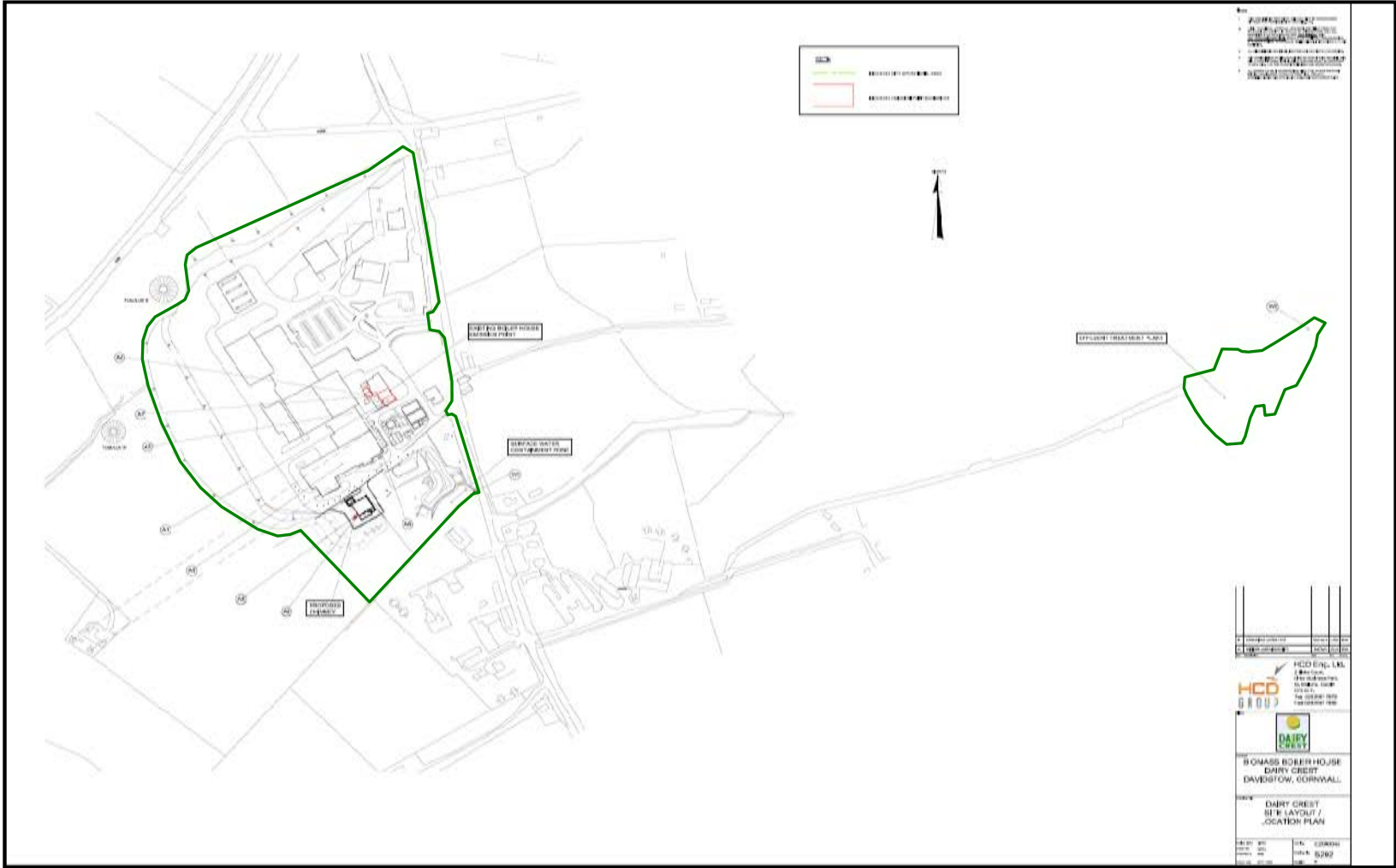
- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the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

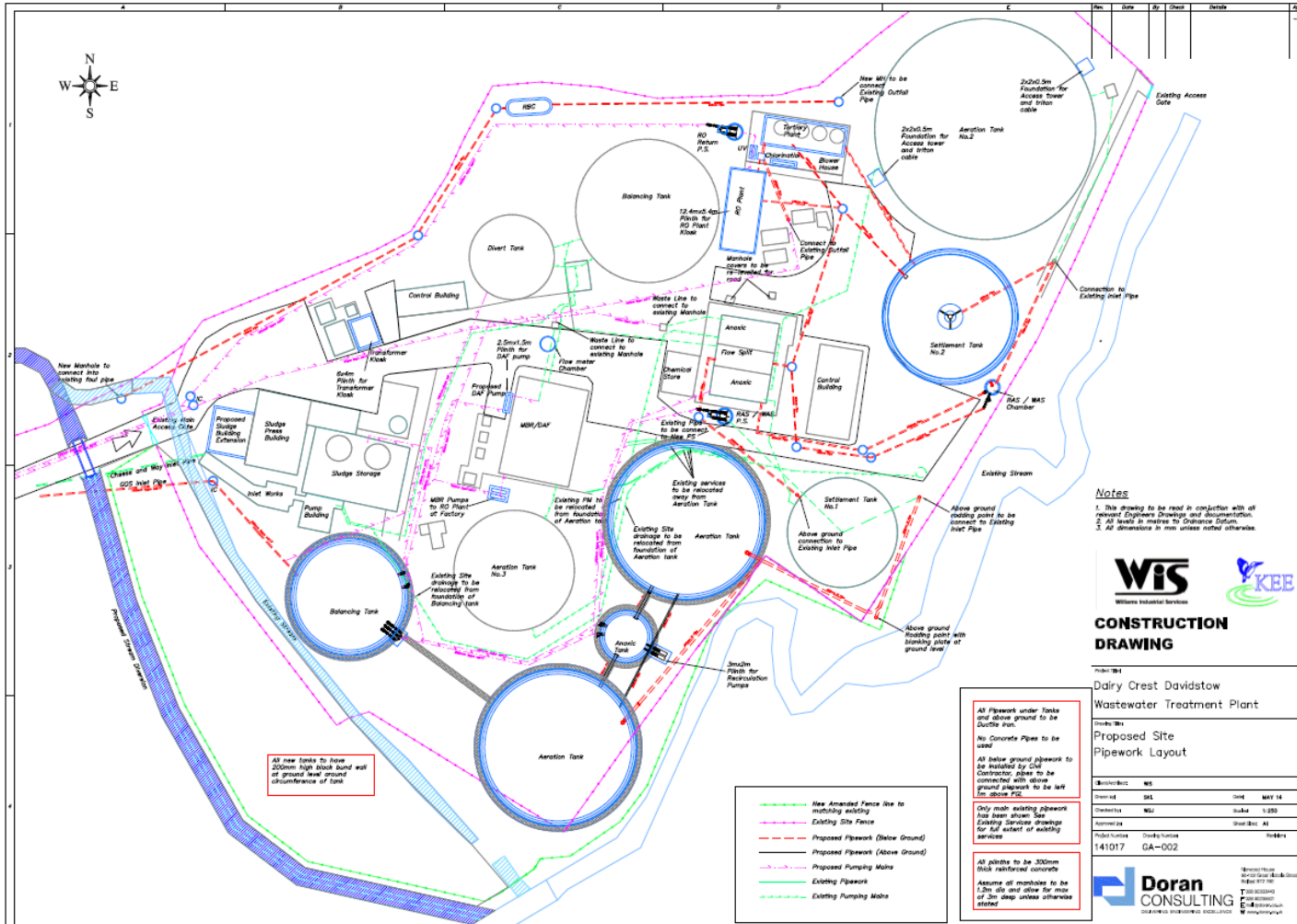
## Site Plan A – Installation Boundary



**Site Plan B – Site Layout with emission points**



# Site Plan C – Effluent Treatment Plant Layout



END OF PERMIT