

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

The First Milk Cheese Company Limited

Lake District Creamery
Station Road
Aspatria
Wigton
Cumbria
CA7 2AR

Variation application number

EPR/KP3931MS/V003

Permit number

EPR/KP3931MS

Lake District Creamery

Permit number EPR/KP3931MS

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. Only the variations specified in schedule 1 are subject to a right of appeal.

Purpose of this variation

This variation is required to include an Anaerobic Digestion (AD) treatment plant to enable liquid feed stock including waste streams generated by the installation to be converted to an energy source.

A portion of the biogas generated by the AD process will be used to directly power a new Combined Heat and Power (CHP) unit with a thermal input of 1.3MW, providing 499kW electrical power and 573kW thermal/heat to the AD plant and the existing aerobic effluent treatment plant (ETP). The remainder of the biogas generated will be conditioned for injection into the National Grid Transmission System.

Changes are also proposed to the ETP to minimise the phosphorus release to the River Ellen through meeting a lower phosphorus emission limit. This reduction in phosphorus will result in a significant improvement in water quality in the River Ellen, helping this water body to achieve the Water Framework Directive objective of Good Ecological Status as identified in the Northwest River Basin Management Plan.

Drainage and containment improvements to the existing site and to the new AD area will be completed as part of the development of the AD plant.

Purpose of original permit

The installation produces approximately 17,300 tonnes of cheddar cheese, and 8,550 tonnes of whey powder a year. Milk is received in bulk tankers, pumped into storage silos, and held until required for processing. The milk is then pasteurised prior to being processed into 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, salted and conveyed to the packing area producing 20kg blocks of cheddar cheese. The whey is pumped directly to the whey process area where fat is extracted by separation, before being concentrated using a multi-pass whey evaporator, and crystallised. After crystallisation the whey is spray dried into whey powder, stored in silos, bagged and palletised, prior to despatch.

Associated activities include operation of an Anaerobic Digestion (AD) plant and an associated Combined Heat and Power (CHP) plant; steam generation, waste handling, and aerobic effluent treatment plant (ETP). The AD plant and ETP are located approximately 0.5km to the east of the main site. Effluent generated from the process, including whey permeate, is transferred to the AD plant which converts it into biogas, which is injected in to the National Gas Transmission System. A portion of the gas produced by the AD plant is used to power the CHP unit providing power (499kW electrical) and heat (573kW thermal) to the AD plant and the existing ETP at the installation.

The AD plant has a back-up boiler, in the event that the CHP plant is not operational, and also an emergency ground flare, in the event that the biogas cannot be exported into the national transmission system.

Following anaerobic and aerobic treatment, and phosphate removal, the effluent is discharged to the River Ellen. Surface water runoff from the site is also discharged to the River Ellen via the ETP.

Drainage improvements to the existing site and to the new AD plant area; and diversion of drainage from high-risk areas to contained storage have been installed. Work has been agreed to provide an impermeable surface across the whole effluent treatment plant footprint.

The introduction of the AD plant will also result in a high-quality, dewatered sludge suitable for recycling as a fertiliser through spreading to land.

There are four European sites within 10km of the site, specifically the Clints Quarry Special Area of Conservation (SAC) (4.8km), the River Derwent & Bassenthwaite Lake SAC (7.4km), the Upper Solway Flats and Marshes Special Protection Area (SPA) (8.0km) and the Solway Firth SAC (8.7km). The Upper Solway Flats and Marshes SPA is in hydraulic continuity with discharges to the River Ellen. Emissions from the installation have been assessed and are unlikely to have a significant impact on any of the designated sites.

The operator has an Environmental Management System accredited to ISO 14001 and is in a Climate Change Levy Agreement.

The schedules specify the changes made to the permit.

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

| Status log of the permit | | |
|---|-----------------------|--|
| Description | Date | Comments |
| Application received BS9059IB | Duly made 20/04/05 | Application for production of cheese and whey powder. |
| Additional information | Received 05/09/05 | |
| Additional information | Received 29/09/05 | |
| Permit determined BS9059IB | 03/11/05 | Permit issued to Dairy Crest Limited. |
| Transfer determined EPR/KP3931MS/T001 | 23/01/07 | Full transfer of permit to The First Milk Cheese Company Limited |
| Application EPR/KP3931MS/V002 (variation and consolidation) | Duly made 04/09/13 | Application to replace the boilers, add a CHP plant, expand and update the whey processing system, include the surface water emissions and update the permit to modern conditions. |
| Additional information | Received 31/10/13 | Response to Schedule 5 Notice requiring further information. |
| Variation determined EPR/KP3931MS/V002 | 10/12/13 | Varied and consolidated permit issued in modern condition format. |
| Application EPR/KP3931MS/V003 (variation and consolidation) | Duly made 24/02/16 | Application to upgrade the ETP with an AD and associated CHP plant and to reduce the phosphorus limit to water. |
| Further Information request dated 26/02/16 | Received 11/03/16 | Updated dispersion modelling (VOCs) Noise survey Monitoring |
| Further Information received | 11/03/16 | ETP/AD – Containment strategy (outline design) |
| Additional Information provided in response to our email sent 08/04/16 | 13/04/16 | AD process monitoring |
| Additional Information provided | 25/04/16 | DSEAR Risk Assessment (pre-commissioning) |
| Variation determined EPR/KP3931MS/V003 (Billing ref QP3034RB) | 09/05/16 | Varied and consolidated permit issued. |

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/KP3931MS

Issued to

The First Milk Cheese Company Limited (“the operator”)

whose registered office is

The Lake District Creamery

Station Road

Wigton

Cumbria

CA7 2AR

company registration number **05893846**

to operate a regulated facility at

Lake District Creamery

Station Road

Aspatria

Wigton

Cumbria

CA7 2AR

to the extent set out in the schedules.

The notice shall take effect from 09/05/2016

| Name | Date |
|--------------------|-------------------|
| Philip Lamb | 09/05/2016 |

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator:

Condition 2.1.1 refers to Table S1.1, *Activities*, which is amended to include additional activities associated with the AD plant.

Condition 2.2.1 refers to the site plan in Schedule 7 which is updated to extend the installation boundary for the AD plant.

Condition 2.3.1 refers to Table S1.2, *Operating techniques* which is amended by the inclusion of technical standards for this variation.

Condition 2.4.1 refers to Table S1.3, *Improvement programme requirements* which is amended by the completion and addition of conditions.

Condition 2.5.1 and Table S1.4, *Pre-operational measures*, which are deleted following completion of measures.

Condition 3.1.1 refers to Table S3.1, *Point source emissions to air*, which is amended to include new emission points.

Condition 3.1.1 refers to Table S3.2, *Point source emissions to water*, which is amended to replace spot sampling with flow proportional sampling, to include the lower total phosphorus limit of 1.5mg/l and to include a limit for iron.

Condition 3.5.1 refers to Table S3.3, *Process monitoring*, which is amended to include the AD requirements.

Condition 4.2.2 refers to Table S4.3, *Performance parameters*, which is amended to include the AD requirements.

Condition 4.2.2 refers to Table S4.4, *Reporting forms*, which is amended to update form dates.

Condition 4.2.3 refers to Table S4.1, *Reporting of monitoring data*, which is amended to include A11.

Conditions 4.4.2 is amended in accordance with the requirements of the Industrial Emissions Directive.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/KP3931MS

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/KP3931MS/V003 authorising,

The First Milk Cheese Company Limited (“the operator”),

whose registered office is

**The Lake District Creamery
Station Road
Wigton
Cumbria
CA7 2AR**

company registration number **05893846**

to operate an installation at

**Lake District Creamery
Station Road
Aspatia
Wigton
Cumbria
CA7 2AR**

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

| Name | Date |
|-------------|------------|
| Philip Lamb | 09/05/2016 |

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

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

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

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

1.2 Energy efficiency

1.2.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

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

2.4 Improvement programme

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

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

3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1 and S3.2;
- (b) process monitoring specified in table S3.3.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

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.

4.3 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 "immediately", in which case it may be provided by telephone.

Schedule 1 - Operations

| Table S1.1 activities | | |
|--|---|---|
| Activity listed in Schedule 1 of the EP Regulations | Description of specified activity | Limits of specified activity |
| 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). | Milk and whey processing to make cheese and whey powder. | From receipt of raw materials to dispatch of finished products and waste. |
| Section 5.4 Part A(1)(a)(i) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving biological treatment. | Treatment of process effluent on site prior to discharge to the River Ellen. | From receipt and treatment of site process effluent to discharge of effluent and transport of sludge off site. |
| Section 5.4 Part A(1)(b)(i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving biological treatment. | Anaerobic Digestion (AD) of liquid feed stock including waste streams produced by the installation | From receipt and storage of liquid waste streams to production of biogas. |
| Section 1.2 Part A(1)(a) Refining gas where this is likely to involve the use of 1,000 or more tonnes of gas in any 12-month period. | Conditioning of biogas produced by the AD plant. | From receipt and conditioning of biogas to injection into the National Grid Transmission System. |
| Directly Associated Activity | | |
| Steam and electrical power supply | 2.8MWth gas-fired CHP (CHP 1) configured not to exceed 500 mg/m ³ NO _x 7.7MWth gas/gas-oil combination boiler 2x8.4MWth gas/gas-oil boilers 1MWth biogas/diesel boiler 1.3MWth biogas fired CHP (CHP 2) configured not to exceed 500 mg/m ³ NO _x , providing electrical power and heat to the AD and ETP. | From receipt of fuel to emission of combustion gases. Including associated gas oil storage and heat and power production. |
| Refrigeration and chilling process | Chilled water plant, rapid cold store and 5 chilled storage areas. | The storage and handling of refrigerants and operation of refrigeration and chilling plant. |
| Emergency flare operation | Use of an auxiliary flare required only during periods of breakdown or maintenance or for gas returned from the Biogas Conditioning Unit due to biogas quality. D10: Incineration on land. | From the receipt of biogas to incineration with the release of combustion gases. |
| Gas storage | Storage of biogas produced from the AD of installation liquid waste. | From the storage of biogas produced from AD to despatch to the Biogas Conditioning Unit. Including storage of biogas returned from the Biogas Conditioning Unit. |

Table S1.2 Operating techniques

| Description | Parts¹ | Date Received |
|--|--|----------------------|
| Application BS9059IB | The response to questions 2.1 and 2.2 given in sections B2.1.13, B2.2.5-6, B2.2.13, B2.2.24, B2.2.46-49, B2.2.52-57 and B2.4.7 – B2.4.12 of the application. | 20/04/05 |
| Application EPR/KP3931MS/V002 | Application form Part C3 - Section 3 on Operating Techniques, Table 3 Technical Standards and document 47065378/LERP00001 – Section 4 Description of the Proposed Changes. | 04/09/13 |
| Response to Schedule 5 Notice dated 04/10/13 | Response to: question 2 regarding operation of the combination boiler; question 3 detailing updated timescales for the phased transition of the boilers; and question 7 explaining the control measures on W2. | 31/10/13 |
| Application EPR/KP3931MS/V003 | Application form Part C3 - Section 3 on Operating Techniques, Table 3 Technical Standards and document 47074323/LERP0001 – Section 4 Operating Techniques. Sections - 2 Odours, 4 Gas Flare, 5 Refining gas – document dated 22 February 2016 | 24/02/16 |
| Additional information provided in response to our email sent 08/04/16 | Response to Item 2 – AD plant - daily checks and process monitoring | 13/04/16 |
| Approved Odour Management Plan (OMP) | To be provided in response to IC10 in Table S1.3 of this permit. | - |

Note 1: 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.

Table S1.3 Improvement programme requirements

| Reference | Requirement | Date |
|-----------|--|----------|
| IC1 | <p>The operator shall undertake monitoring and a noise mapping exercise to identify areas of the site and items of plant that can be targeted for improvement with noise abatement or reduction measures. The monitoring shall attempt to quantify the impact of each item / area on the noise levels at the installation boundary to enable prioritisation of improvement measures.</p> <p>Following this, the operator shall submit a written plan to the Environment Agency for agreement. The plan must contain details of any improvements necessary to progressively reduce sources of noise and dates for the implementation of individual measures.</p> <p>The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the plan.</p> <p>The operator must implement the plan as agreed, and from the date stipulated by the Environment Agency.</p> | Complete |
| IC2 | <p>Following completion of IC1, the operator shall conduct a noise monitoring survey (having first agreed the methodology with the Environment Agency) to quantify the noise reduction and, if necessary, identify additional measure to ensure noise levels do not cause pollution outside the site boundary. The operator shall provide a report detailing noise survey results and compliance with condition 3.4.1, and include a timetable for the implementation of any recommendations made as a result of the noise survey. The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the report.</p> | Complete |
| IC3 | <p>Following commissioning of the CHP plant and new boilers, the operator shall undertake monitoring (having first agreed the methodology with the Environment Agency) to demonstrate optimisation of the combustion process and to establish normal and maximum likely concentrations of oxides of nitrogen and carbon monoxide from emission points A5, A6, A7 and A8. The operator shall submit a written report containing the monitoring results to the Environment Agency. This is to validate the emission values used in the environmental risk assessment. The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the report.</p> | Complete |
| IC4 | <p>The operator shall submit a written report to the Environment Agency. The report must contain the results of a review to quantify the effluent load and volume for each of the process areas at the installation. The review shall attempt to identify the ongoing demand on the effluent treatment plant and any opportunities for resource efficiency including water reuse and water reduction. This is to ensure the optimum operation of the effluent treatment plant and should include reference to the best available techniques (BAT) in sections 1.3 and 1.4 of EPR6.13 guidance for the dairy and milk processing sector. The results of this review will be submitted to the Environment Agency, including dates for the implementation of any individual measures identified for improvement.</p> <p>The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the report.</p> | Complete |
| IC5 | <p>The operator shall install an MCERTs flow-proportional composite sampler on the W1 discharge. The sampling point location should be agreed with the Environment Agency, documented and clearly and permanently labelled.</p> | Complete |
| IC6 | <p>The operator shall submit a written plan to the Environment Agency for approval. The plan must contain measures to reduce phosphorus emissions in line with the requirements of the Water Framework Directive (200/60/EC) and include details of the necessary improvement works and timescales for their completion. This should also include any findings from IC4.</p> <p>The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the plan.</p> | Complete |
| IC7 | <p>The operator shall survey, review and verify the accuracy of the drainage plans, updating where necessary. A copy of the updated plans shall be provided to the Environment Agency. The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the plans.</p> | Complete |

Table S1.3 Improvement programme requirements

| Reference | Requirement | Date |
|-----------|---|---|
| IC8 | <p>A written plan shall be submitted to the Environment Agency for approval, following a review of all site drainage at the installation. The plan should take into account the appropriate measures for the management of subsurface structures (page 28) and the requirements for surfaces on your site (page 59) in 'How to comply with your environmental permit' and include a timetable for any improvements or maintenance to the drainage system. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The operator must implement the plan as approved, and from the date stipulated by the Environment Agency.</p> | Complete |
| IC9 | <p>The Operator shall submit the written protocol referenced in condition 3.1.3 for the monitoring of soil and groundwater for approval by the Environment Agency. The protocol shall demonstrate how the Operator will meet the requirements of Articles 14(1)(b), 14(1)(e) and 16(2) of the Industrial Emissions Directive.</p> <p>The procedure shall be implemented in accordance with the written approval from the Environment Agency.</p> | Complete |
| IC10 | <p>The Operator shall develop and implement an odour management plan (OMP), having regard to the Environment Agency's H4 Odour Management Guidance</p> <p>The plan shall include:</p> <ul style="list-style-type: none"> • Formal documented procedures for the preventative inspection and subsequent maintenance of all process items/sources that pose a potential odour nuisance risk to the identified receptors. • The identified receptors shall include the nearest residential properties. • Complaint investigation. • Contingency actions, with timescales, to be implemented if odour pollution is detected beyond the installation boundary. • The plan is to be reviewed annually or following any changes likely to have an impact on odour. • Following each review a copy of the revised plan shall be submitted to the Environment Agency. <p>The OMP shall be agreed in writing by the Environment Agency.</p> | 30/11/16 |
| IC11 | <p>Following commissioning and optimisation of the AD plant the Operator shall monitor and review the performance of the plant and compare against the design specification.</p> <p>A summary of the findings shall be reported to the Environment Agency.</p> | Within 9 months of the completion of commissioning of the AD plant. |
| IC12 | <p>The Operator shall review and update the site EMS to reflect the changes to the installation. This should include the inspection and maintenance of the new equipment.</p> <p>It shall also include emergency response procedures and ensure that staff receive the necessary training in accordance with conditions contained in Section 1.1 of this permit.</p> | Within 9 months of the completion of commissioning of the AD plant. |

Table S1.3 Improvement programme requirements

| Reference | Requirement | Date |
|-----------|---|--|
| IC13 | <p>The Operator shall undertake a detailed topographical survey of the site and a detailed survey of the existing site drainage systems to develop the detailed design for containment at the facility in accordance with the Effluent Treatment Plant, Containment Strategy Outline Design report dated March 2016.</p> <p>The Operator shall submit a proposal for approval for the detailed design containment measures which shall include timescales for implementation.</p> <p>The Operator shall submit reports on progress with implementation of the approved containment measures on a quarterly basis specified by this condition.</p> | <p>Detailed design proposal 31/08/16</p> <p>Progress reports by 31/12/16 31/03/17 30/06/17 30/09/17 31/12/17</p> |
| IC14 | The Operator shall update the Site Condition Report (SCR) and submit a report on the baseline conditions of soil and groundwater at the installation. The report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for in Article 22(3) of the IED. The report shall contain information, supplementary to that already provided in the application SCR, needed to meet the information requirements of Article 22(2) of the IED. | 31/12/17 |
| IC15 | Following commissioning of the CHP 2 plant, the Operator shall undertake monitoring (having first agreed the methodology with the Environment Agency) to demonstrate optimisation of the combustion process and to establish normal and maximum likely concentrations of oxides of nitrogen and carbon monoxide from emission point A9. The operator shall submit a written report containing the monitoring results to the Environment Agency. The purpose of this is to validate the emission values used in the environmental risk assessment. The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the report. | Within 9 months of the completion of commissioning of the CHP 2 plant. |
| IC16 | The Operator shall provide written confirmation of the intention for the existing whey permeate evaporator to be agreed with the Environment Agency. | 30/06/17 |

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

| Raw materials and fuel description | Specification |
|------------------------------------|---------------|
| - | - |

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

| Emission point ref. & location | Parameter | Source | Limit (including unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|--------------------------------|--------------------|----------------------------------|------------------------|------------------|----------------------|-------------------------------|
| A1 A2 A3 | -- | Emission points no longer in use | -- | -- | -- | -- |
| A4 ^{Note 1} | Particulate matter | Spray Dryer Exhaust Stack | 50mg/m ³ | Instantaneous | Continuous | BS EN 15267-3 |
| A5 ^{Note 1} | No parameters set | Replacement Boiler 3 – Boiler A | No limits set | -- | -- | -- |
| A6 ^{Note 1} | No parameters set | Replacement Boiler 2 – Boiler B | No limits set | -- | -- | -- |
| A7 ^{Note 1} | No parameters set | CHP – CHP 1 stack | No limits set | -- | -- | -- |
| A8 ^{Note 1} | No parameters set | Combination Boiler – Boiler C | No limits set | -- | -- | -- |
| A9 ^{Note 2} | No parameters set | CHP – CHP 2 stack | No limits set | -- | -- | -- |
| A10 ^{Note 2} | No parameters set | CHP 2 back-up boiler | No limits set | -- | -- | -- |

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

| Emission point ref. & location | Parameter | Source | Limit (including unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|---|---------------------------------------|---|-------------------------------|-------------------------|--|--------------------------------------|
| A11 Note 2 | Oxides of nitrogen (NO _x) | Emergency flare Note 3 | No limits set | -- | Monitoring to be undertaken in the event the flare has been operational for more than 10% of a year (876 hours). | BS EN 14792 and MID |
| | Carbon monoxide (CO) | | | | | BS EN 15058 |
| A12 Note 2 | No parameters set | Gas Conditioning Unit | No limits set | -- | -- | -- |
| A13/A14 | No parameters set | Pressure Relief Valve (PRV) on each Digester tank | No limits set | -- | -- | -- |

Note 1: Emission Points identified on Point Source Emission Point Plan Figure A2 in application EPR/KP3931MS/V002.

Note 2: Emission Points identified on ETP Site Layout and Emission Points Plan Figure 4 in application EPR/KP3931MS/V003.

Note 3: See schedule 6 of this permit for reference conditions and uncertainty.

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

| Emission point ref. & location (measured at v-notch at ETP) | Parameter | Source | Limit (incl. unit) | Reference Period | Monitoring frequency | Monitoring standard or method |
|--|--|--------------------------|---------------------------|--|-----------------------------|--|
| W1 on site plan in schedule 7 emission to River Ellen | Total daily volume of discharge | Effluent treatment plant | 1800 m ³ /day | 24-hour total | Continuous | MCERTS self-monitoring of effluent flow scheme |
| W1 on site plan in schedule 7 emission to River Ellen | BOD ₅ | Effluent Treatment plant | 20 mg/l | 24 hour flow proportional composite sample | Note 2 | BS EN 1899-1 |
| W1 on site plan in schedule 7 emission to River Ellen | Total suspended solids | Effluent Treatment plant | 25 mg/l | 24 hour flow proportional composite sample | Note 2 | BS EN 872 |
| W1 on site plan in schedule 7 emission to River Ellen | pH | Effluent Treatment plant | 6-9 | Instantaneous | Continuous | BS ISO 10523 |
| W1 on site plan in schedule 7 emission to River Ellen | Ammoniacal nitrogen (expressed as N) | Effluent Treatment Plant | 2 mg/l | 24 hour flow proportional composite sample | Note 3 | BS EN ISO 11732 |
| W1 on site plan in schedule 7 emission to River Ellen | Iron (Fe) | Effluent Treatment Plant | 5 mg/l | 24 hour flow proportional composite sample | Note 3 | BS EN ISO 15586 |
| W1 on site plan in schedule 7 emission to River Ellen | Total Phosphorus expressed as P | Effluent Treatment Plant | 1.5 mg/l Note 1 | 24 hour flow proportional composite sample | Note 3 | BS ISO 15681-1 |
| W1 on site plan in schedule 7 emission to River Ellen | Chloride | Effluent treatment plant | 750 mg/l | 24 hour flow proportional composite sample | Note 2 | SCA Blue Book 51 |
| W1 on site plan in schedule 7 emission to River Ellen | Surface active anionic detergents | Effluent treatment plant | 2 mg/l | 24 hour flow proportional composite sample | Note 3 | SCA Analysis of surfactants ISBN 01176058 |
| W1 on site plan in schedule 7 emission to River Ellen | Mercury and its compounds, expressed as mercury (Total Hg) | Effluent Treatment Plant | No limit set | 24 hour flow proportional composite sample | Note 4 | BS EN ISO 17852 OR BS EN ISO 12846 |

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

| Emission point ref. & location (measured at v-notch at ETP) | Parameter | Source | Limit (incl. unit) | Reference Period | Monitoring frequency | Monitoring standard or method |
|--|--|------------------------------|---------------------------|--|-----------------------------|--------------------------------------|
| W1 on site plan in schedule 7 emission to River Ellen | Cadmium and its compounds, expressed as cadmium (Total Cd) | Effluent Treatment Plant | No limit set | 24 hour flow proportional composite sample | Note 4 | BS EN ISO 5961 |
| W2 on site plan in schedule 7 emission to River Ellen | No parameters set | Uncontaminated surface water | No limits set | -- | -- | -- |
| W3 on site plan in schedule 7 emission to surface water culvert containing unnamed tributary of river Ellen at NGR NY14382 41240 | No parameters set | Uncontaminated surface water | No limits set | -- | -- | -- |

Note 1: A limit of 10 mg/l shall apply until 01/11/16.

Note 2: A schedule for the collection of weekly samples shall be agreed in writing with the Environment Agency.

Note 3: A schedule for the collection of monthly samples shall be agreed in writing with the Environment Agency.

Note 4: A schedule for the collection of annual samples shall be agreed in writing with the Environment Agency.

Table S3.3 Process monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|--|--|-----------------------------|--|--|
| W1 on site plan in schedule 7 emission to River Ellen | Turbidity | Continuous | BS EN ISO 7027 | At 24ppm the effluent is directed back through the effluent treatment plant to prevent the release of contaminating matter to the River Ellen. |
| Refrigeration equipment | Ammonia | Annual | From stock and purchase records | |
| Biogas initial gas conditioner unit ^{Note 1} | Methane, Hydrogen sulphide | Continuous | -- | Gas monitors calibrated to manufacturers requirements |
| A13/A14 Pressure relief valves (PRVs) ^{Note 1} | Methane | During venting | - | -- |
| Digester and Storage tanks associated with AD/ETP ^{Note 1} | Integrity checks | Weekly | Visual assessment | -- |
| Propane addition to biogas ^{Note 1} | Propane | Weekly | From stock and purchase records | -- |
| AD process parameters ^{Note 1} | pH COD Volatile Fatty Acids Total Suspended Solids Volatile Suspended Solids Ammonia Phosphate Total Nitrogen Iron Alkalinity | Daily | To be agreed with the Environment Agency | -- |

Note 1: Process monitoring data shall be available for inspection by the Environment Agency.

Schedule 4 - Reporting

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

| Table S4.1 Reporting of monitoring data | | | |
|---|---|-------------------------|---------------------------------------|
| Parameter | Emission or monitoring point/reference | Reporting period | Period begins |
| Emissions to air Parameters as required by condition 3.5.1. | A4, (A11) | Every 12 months | 1 January |
| Emissions to water Parameters as required by condition 3.5.1 | W1 | Every 3 months | 1 January, 1 April, 1 July, 1 October |
| Process monitoring Parameters as required by condition 3.5.1 | W1 Refrigeration equipment | Every 12 months | 1 January |

| Table S4.2: Annual production/treatment | |
|--|--------------|
| Parameter | Units |
| - | - |

| Table S4.3 Performance parameters | | |
|---|--------------------------------|--------------|
| Parameter | Frequency of assessment | Units |
| Ammonia usage | Annually | kg/year |
| Emergency Flare operation (A11) | Annually | hours/year |
| Digester Pressure Relief Valves operation (PRV) (A13/A14) | Annually | hours/year |

| Table S4.4 Reporting forms | | |
|-----------------------------------|---|---------------------|
| Media/parameter | Reporting format | Date of form |
| Air | Form air 1 or other form as agreed in writing by the Environment Agency | 2016 |
| Water | Form water 1 or other form as agreed in writing by the Environment Agency | 2016 |
| Other performance indicators | Form performance 1 or other form as agreed in writing by the Environment Agency | 2016 |

Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

| | |
|--------------------------------|--|
| Permit Number | |
| Name of operator | |
| Location of Facility | |
| Time and date of the detection | |

| | |
|---|--|
| (a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution | |
| To be notified within 24 hours of detection | |
| Date and time of the event | |
| Reference or description of the location of the event | |
| Description of where any release into the environment took place | |
| Substances(s) potentially released | |
| Best estimate of the quantity or rate of release of substances | |
| Measures taken, or intended to be taken, to stop any emission | |
| Description of the failure or accident. | |

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

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

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

Part B – to be submitted as soon as practicable

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

| | |
|-----------|--|
| Name* | |
| Post | |
| Signature | |
| Date | |

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

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

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

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

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

“*EP Regulations*” means The Environmental Permitting (England and Wales) Regulations SI 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

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

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

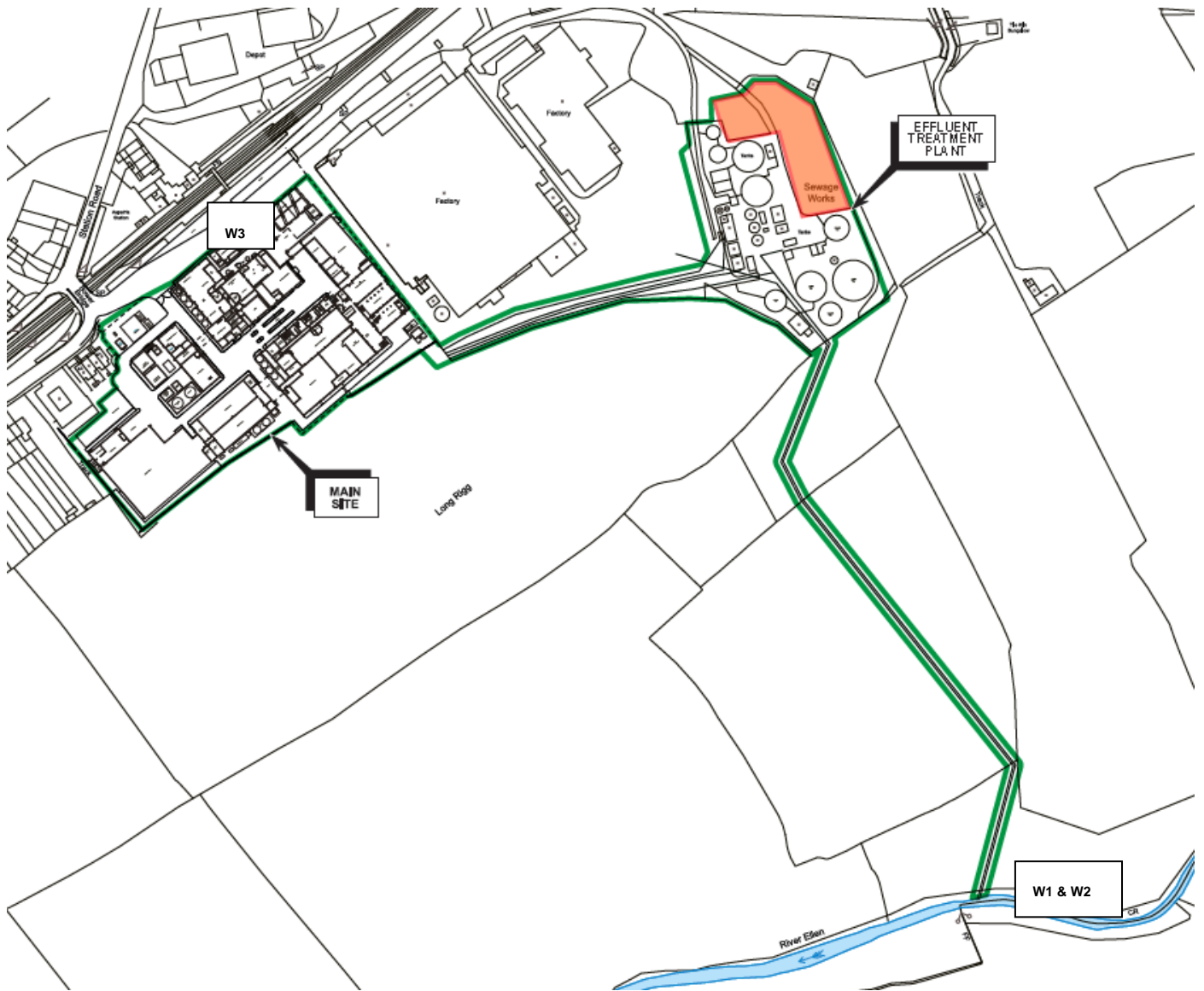
“*year*” means calendar year ending 31 December.

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

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

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.
- (c) In relation to gases from gas engines (emission point A9), the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 5% dry.
- (d) In relation to the emergency flare, the concentration at a temperature of 273K and at a pressure of 101.3 kPa and with an oxygen content of 3% (dry gas). The measurement uncertainty specified in LFTGN05 v2 2010 shall apply.

Schedule 7 - Site plan



END OF PERMIT

Permit Number: EPR/KP3931MS Operator: The First Milk Cheese Company Limited
 Facility: Lake District Creamery Form Number: Air1 / 2016

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

| Emission Point | Substance / Parameter | Emission | | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times ^[3] | Uncertainty ^[4] |
|----------------|-----------------------|-------------|-------------------|------------------|-----------------------|----------------------------|--------------------------------------|----------------------------|
| | | Limit Value | mg/m ³ | | | | | |
| A4 | Particulate matter | 50 | | | | BS EN 13284-1 | | |

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed
 (Authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/KP3931MS Operator: The First Milk Cheese Company Limited
 Facility: Lake District Creamery Form Number: Water1 / 2016
Reporting of emissions to water (other than to sewer) and land for the period from DD/MM/YYYY to DD/MM/YYYY

| Emission Point | Substance / Parameter | Emission Limit Value | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times ^[3] | Uncertainty ^[4] |
|----------------|--------------------------------------|--------------------------|--|-----------------------|--|--------------------------------------|----------------------------|
| W1 | Total daily volume of discharge | 1800 m ³ /day | 24-hour total | | MCERTS self-monitoring of effluent flow scheme | | |
| W1 | BOD ₅ | 20 mg/l | 24 hour flow proportional composite sample | | BS EN 1899-1 | | |
| W1 | Total suspended solids | 25 mg/l | 24 hour flow proportional composite sample | | BS EN 872 | | |
| W1 | pH | 6-9 | Instantaneous | | BS ISO 10523 | | |
| W1 | Ammoniacal nitrogen (expressed as N) | 2 mg/l | 24 hour flow proportional composite sample | | BS EN ISO 11732 | | |
| W1 | Iron (Fe) | 5 mg/l | 24 hour flow proportional composite sample | | BS EN ISO 15586 | | |
| W1 | Total Phosphorus as P | 1.5 mg/l ^[5] | 24 hour flow proportional composite sample | | BS ISO 15681-1 | | |
| W1 | Chloride | 750 mg/l | 24 hour flow proportional composite sample | | SCA Blue Book 51 | | |

| Emission Point | Substance / Parameter | Emission Limit Value | Reference Period | Result ^[1] | Test Method ^[2] | Sample Date and Times ^[3] | Uncertainty ^[4] |
|----------------|--|----------------------|--|-----------------------|---|--------------------------------------|----------------------------|
| W1 | Surface active anionic detergents | 2 mg/l | 24 hour flow proportional composite sample | | SCA Analysis of surfactants ISBN 01176058 | | |
| W1 | Mercury and its compounds, expressed as mercury (Total Hg) | No limit set | 24 hour flow proportional composite sample | | BS EN ISO 17852 OR BS EN ISO 12846 | | |
| W1 | Cadmium and its compounds, expressed as cadmium (Total Cd) | No limit set | 24 hour flow proportional composite sample | | BS EN ISO 5961 | | |

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [5] A limit of 10 mg/l shall apply until 01/11/16.

Signed
 (Authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/KP3931MS Operator: The First Milk Cheese Company Limited
 Facility: Lake District Creamery Form Number: Performance1 / 2016
Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

| Parameter | Units |
|---|------------|
| Ammonia usage | kg/year |
| Emergency Flare operation (A11) | hours/year |
| Digestor Pressure Relief Valves operation (PRV) (A13/A14) | hours/year |
| | |
| | |
| | |
| | |

Operator's comments:

Signed
 (Authorised to sign as representative of Operator)

Date.....