

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

A. E Rodda & Son Limited

The Creamery
Scorrier
Redruth
Cornwall
TR16 5BU

Variation application number

EPR/QP3638EK/V004

Permit number

EPR/QP3638EK

The Creamery

Permit number **EPR/QP3638EK**

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

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

This consolidated permit has been issued following a full review against the best available techniques (BAT) conclusions for the Food, Drink and Milk Industries published on 4th December 2019 in the official journal of the European Union.

We have implemented the requirements of the Medium Combustion Plant directive, and incorporated post-dated requirements for 2030.

The schedules specify the changes made to the permit.

The Operator, A. E. Rodda & Son Limited, manufacture dairy products including clotted cream and milk and butter on site at The Creamery, in the village of Scorrier, approximately 1.5km northeast of Redruth in Cornwall.

The Creamery is an installation that undertakes the treatment and processing of milk under Section 6.8 A(1)(e) of the Environmental Permitting (England and Wales) Regulations 2016 – Treating and processing milk, the quantity of milk received being more than 200 tonnes per day (average value on an annual basis).

The installation also operates an effluent treatment plant (ETP) under section 5.4 A(1)(a)(ii) of the Environmental Permitting (England and Wales) Regulations 2016 - Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical and biological treatment.

The manufacturing process begins with receipt of locally sourced milk, on average 200 tonnes a day. The milk is unloaded from tankers, passes through an intake chiller, and is pumped into a range of segregated raw milk storage silos. Raw milk is gravity fed from the silos to a balance tank before it passes through the regeneration section of the pasteurisers. Raw milk is separated to produce cream and skimmed milk. Skimmed milk can be pasteurised and transferred to the Reverse Osmosis plant where thick milk is retained and sold on as a commodity, the remaining water is fed back into the plant for cleaning.

Cream flows from the separator into mobile tanks that are taken to the filling machines and manually connected to a pump. Cream is then dispensed into pots and collected onto trolleys to be heat treated in ovens. The product is then lidded and packed, palletized and transferred to the warehouse for controlled refrigerated storage and freezers.

The main emissions to air arise from the natural gas fired boiler (2.8 MWth). Clean uncontaminated surface water from the site is discharged into Portreath Stream

The main emission to water arises from the effluent treatment plant on site. Trade effluent enters the site sealed drainage system and is pumped to the effluent balance tank. Effluent is pH balanced and then passed through a dissolved air flotation (DAF) plant to reduce COD and suspended solids. Secondary treatment is undertaken by the means of by activated sludge this is followed by tertiary treatment in a second DAF plant before discharge to a mineshaft eventually meeting the River Carnon.

Residential receptors are near to the site, the closest being 63m to the southeast. There are 3 Special Areas of Conservation (SAC) within the screening distance; Carrine Common (8246m), Bristol Channel Approaches (4746m – England and Wales) and Godrevy Head to St Agnes (4182m).

There are 2 Sites of Special Scientific Interest (SSSI); Wheal Gorland (1990m) and Carrick Heaths (1845m). there are also 3 local wildlife sites (ranging from 1256m to 1733m) and an Ancient Woodland (1383m).

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

Status log of the permit		
Description	Date	Comments
Application received EPR/QP3638EK/A001	Duly made 08/08/2014	Application received for the treatment and processing of milk
Response to schedule 5 request 02/10/2014	14/10/2014	Confirmation of emission points, revised emission point plans, revised waste list.
Permit determined	28/11/2014	Permit issued to A. E. Rodda & Son Limited.
Application Received EPR/QP3638EK/V002	02/02/2021	Application Withdrawn 15/04/2021
Application Received EPR/QP3638EK/V003	Duly Made 23/05/2022	Application to increase daily effluent discharge volume and effluent treatment facility update
Response to Schedule 5 request 20/12/2022	27/03/2023	All points addressed
Application Withdrawn EPR/QP3638EK/V003	05/06/2023	Application Withdrawn
Application EPR/QP3638EK/V004 (variation and consolidation)	Regulation 61 Notice response received 14/07/2022	Environment Agency initiated variation and consolidation following the Food, Drink & Milk Industries sector permit review.
Response to request for further information dated 26/04/2023	12/05/2023 12/06/2023	Further information in relation to BAT 2, 3, 7, 8, 9 and 12, AEPL information and MCPDs.
Variation determined and consolidation issued EPR/QP3638EK/V004 (Billing ref. GP3343QR).	09/08/2023	Varied and consolidated permit issued in modern format

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EPR/QP3638EK

Issued to

A. E Rodda & Son Limited (“the operator”)

whose registered office is

The Creamery

Scorrier

Redruth

Cornwall

TR16 5BU

company registration number 03833628

to operate a regulated facility at

The Creamery

Scorrier

Redruth

Cornwall

TR16 5BU

to the extent set out in the schedules.

The notice shall take effect from 09/08/2023

Name	Date
Rebecca Brough	09/08/2023

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/QP3638EK

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/QP3638EK/V004 authorising,

A. E. Rodda & Son Limited (“the operator”),

whose registered office is

The Creamery

Scorrier

Redruth

Cornwall

TR16 5BU

company registration number 03833628

to operate an installation at

The Creamery

Scorrier

Redruth

Cornwall

TR16 5BU

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

Name	Date
Rebecca Brough	09/08/2023

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

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

1.2 Energy efficiency

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

1.3 Efficient use of raw materials

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

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

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

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

2 Operations

2.1 Permitted activities

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

2.2 The site

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

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.
- 3.1.4 For the following activities referenced in schedule 1, table S1.1 (AR4) the first monitoring measurements shall be carried out within four months of 01/01/2030 or of the date when the MCP is first put into operation, whichever is later.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

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

3.4 Noise and vibration

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

3.4.2 The operator shall:

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

3.5 Monitoring

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

- (a) point source emissions specified in tables S3.1 and S3.2.

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

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

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

3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

- (i) off-site environmental effects; and
- (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

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

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

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

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

4.4 Interpretation

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

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	Section 6.8 Part A1 (e)	Treating and processing milk with the quantity of milk received being more than 200 tonnes per day (average value on annual basis)	From receipt of raw milk delivered to the site to the dispatch of Clotted cream and other dairy products. Milk intake is limited to 200 tonnes per day.
AR2	Section 5.4 Part A1 (a) (ii)	Physico-chemical Treatment of non-hazardous waste waters by pH adjustment and 2 DAF plant treatments.	From generation of wastewater to discharge to River Carnon via mineshaft.
AR3	Section 5.4 Part A1 (a) (i)	Biological treatment of non-hazardous waste waters by active sludge	From generation of wastewater to discharge to River Carnon via mineshaft.
Directly Associated Activity			
AR4	Steam supply	Medium Combustion plant: Production of steam using LPG fired steam boilers (2.8MWth input)	From receipt of fuel and storage, and emission of combustion gases up to distribution of steam.
AR5	Use of refrigerants	Use of refrigerants in cooling, chilling and/or freezing systems at the installation. In addition to the use of liquid nitrogen.	From receipt of raw materials to dispatch of final product.
AR6	Storage and use of chemicals	Storage and use of chemicals for cleaning and chemical balancing.	From receipt of chemicals to discharge via effluent treatment.
AR7	Waste storage and handling	Storage and handling of waste materials from the listed activities and directly associated activities.	From generation of waste to storage pending removal for disposal or recovery.
AR8	Surface water drainage	Collection of uncontaminated site surface waters	Handling and storage of site drainage until discharge to the site surface water system.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Regulation 61 (1) Notice – Responses to questions dated 24/03/2022	All parts	Received 14/07/2022

Table S1.2 Operating techniques		
Description	Parts	Date Received
Regulation 61(1) Notice – request for further information dated 26/04/2023	All Parts	Received 12/05/2023 & 12/06/2023

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	Completed	--
IC2	<p>The operator shall submit, for approval by Environment Agency, a report setting out progress to achieving the ‘Narrative’ BAT where BAT is currently not achieved but will be achieved before 4 December 2023. The report shall include, but not be limited to, the following:</p> <ol style="list-style-type: none"> 1) Methodology for achieving BAT 2) Associated targets /timelines for reaching compliance by 4 December 2023. 3) Associated targets/timelines, if applicable, for reaching compliance by 4 December 2023. <p>The report shall address the BAT Conclusions for Food, Drink and Milk Industries with respect to BATc 1 (xvi and xvii), BATc 2 (v), BATc 6, BATc 7, BATc 21 and BATc 22.</p> <p>Refer to BAT Conclusions for a full description of the BAT requirement.</p>	04/12/2023
IC3	<p>The operator shall use refrigerants without ozone depletion potential and with a low global warming potential (GWP) in accordance with BAT 9 from the Food, Drink and Milk Industries BATCs.</p> <p>To demonstrate compliance against BAT 9, the operator shall develop a replacement plan for the refrigerant system(s) at the installation. This shall be incorporated within the existing environmental management system by the specified date.</p> <p>The plan should include, but not be limited to, the following:</p> <ul style="list-style-type: none"> • Where practicable, retro filling systems containing high GWP refrigerants e.g. R-404A with lower GWP alternatives as soon as possible. • An action log with timescales, for replacement of end-of-life equipment using refrigerants with the lowest practicable GWP. 	04/12/2023
IC4	<p>The Operator shall undertake a survey of the primary, secondary and tertiary containment at the site and review measures against relevant standard including:</p> <ul style="list-style-type: none"> • CIRIA Containment systems for the prevention of pollution (C736) – Secondary, tertiary and other measures for industrial and commercial premises, • EEMUA 159 - Above ground flat bottomed storage tanks <p>The operator shall submit a written report to the Environment Agency approval which outlines the results of the survey and the review of standard and provide details of</p> <ul style="list-style-type: none"> • current containment measures • any deficiencies identified in comparison to relevant standards, • improvements proposed • time scale for implementation of improvements. 	12 months from date of issue

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	The operator shall implement the proposed improvements in line with the timescales agreed by the Environment Agency.	
IC5	<p>The operator shall review and update the H1 risk assessment for emissions to water, specifically the effect of Ferric Chloride on the discharge, at the capacity levels stated within table S1.1 of this permit. The H1 shall be submitted to the Environment Agency for review.</p> <p>If the concentration of emissions do not screen out as insignificant, then additional monitoring will be required for those parameters. Where the screening shows an impact that may exceed an EQS; the operator shall confirm the measures implemented to ensure no deterioration in water quality, including but not limited to minimisation methods, appropriate measures, and monitoring.</p>	12 months from date of issue
IC6	<p>The Operator shall review the use of the Cationic Polymer on site and implement a programme to replace them with an alternative less harmful substance or process.</p> <p>The programme shall include (but not be limited to):</p> <ul style="list-style-type: none"> • alternative chemical(s) or process • associated impact assessment(s) for the alternative chemical(s) or process. • detail any commissioning required for alternative chemical(s) or process. <p>Along with a timetable for implementing the changes and this shall be agreed in writing by the Environment Agency prior to implementation.</p>	3 months from date of issue

Schedule 2 – Waste types, raw materials and fuel

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on site plan in Schedule 7]	Boiler 1 – 2.8 MWth Natural Gas fired boiler <small>[note 1]</small>	Oxides of Nitrogen (NO and NO ₂ expressed as NO _x)	200 mg/m ³	Periodic	Every three years	BS EN 14792
		Carbon monoxide	No Limit	Periodic	Every three years	BS EN15058
A2 [Point A2 on site plan in Schedule 7]	10 natural gas ovens	No parameters set	No limit set	--	--	--

Note 1: Limits and/or monitoring requirements are effective from 01/01/2030.

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in schedule 7 emission to Sleggans Mine (Mineshaft) which meets River Carnon.	Effluent treatment plant	Total daily volume of discharge	150m ³ /day	24-hour total	Continuous	MCERTS self-monitoring of effluent flow scheme
		Biological Oxygen Demand (BOD)	20mg/l	24-hour flow proportional sample	Monthly	EN 1899-1
		Chemical Oxygen Demand (COD)	125 mg/l <small>[Note 1]</small>	24-hour flow proportional sample	Daily <small>[Note 4]</small>	
		Total suspended solids (TSS)	30 mg/l	24-hour flow proportional sample	Fortnightly <small>[Note 3]</small> Daily <small>[Note 4]</small>	BS EN 872
		Total Nitrogen	20 mg/l <small>[Note 1]</small>	24-hour flow proportional sample	Daily <small>[Note 4]</small>	EN 12260, EN ISO 11905-1.
		Ammoniacal Nitrogen as N	2 mg/l	24-hour flow proportional sample	Fortnightly	BS EN ISO 11732:1997

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
		Total Phosphorus	4 mg/l ^[Note 1]	24-hour flow proportional sample	Daily ^[Note 4]	EN ISO 6878, EN ISO 15681-1 and -2, EN ISO 11885.
		Chloride (Cl) ^[Note 2]	No limit set	Spot Sample	Monthly	EN ISO 10304-1, EN ISO 15682
		pH	6-9	In any 24-hour period	Continuous	BS ISO 10523
		No Visible Oil or Grease	No Significant Trace	Spot Sample	N/A	Visual
W2 on site plan in schedule 7 emission to Portreath Stream	Uncontaminated surface water via interceptor	No parameters set	No limit set	--	--	--
<p>Note 1: Emission limit applies from 4th December 2023, unless otherwise advised by the Environment Agency.</p> <p>Note 2: From the 4th December 2023 dependant on the outcome of IC5</p> <p>Note 3: Emission Monitoring applies until 3rd December 2023</p> <p>Note 4: Emission Monitoring applies from 4th December 2023, unless otherwise advised by the Environment Agency.</p>						

Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Point source emissions to air Parameters as required by condition 3.5.1	A1 (MCPD Boiler emission point)	First monitoring undertaken in accordance with Condition 3.1.4 to be reported within 3 months, and then every 3 years thereafter.	From first monitoring requirements in accordance with Condition 3.1.4
Point source emissions to water (other than sewer) Parameters as required by condition 3.5.1	W1	Quarterly	1 January, 1 April, 1 July & 1 October

Parameter	Units
Clotted Cream produced	Tonnes
Milk and other dairy products	Tonnes

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

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

Parameter	Reporting form	Form version number and date
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Point source emissions to water (other than sewer)	Emissions to Water Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Food Waste	Food waste Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1 06/02/2023
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

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

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

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

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

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

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

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

“Food waste” reporting: Reporting of food waste to use a methodology such as the global Food Loss and Waste Accounting and Reporting Standard (FLW standard), WRAP’s Target Measure Act initiative or similar.

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

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW. An “existing medium combustion plant” is combustion plant operating before 20 December 2018.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Pests” means Birds, Vermin and Insects.

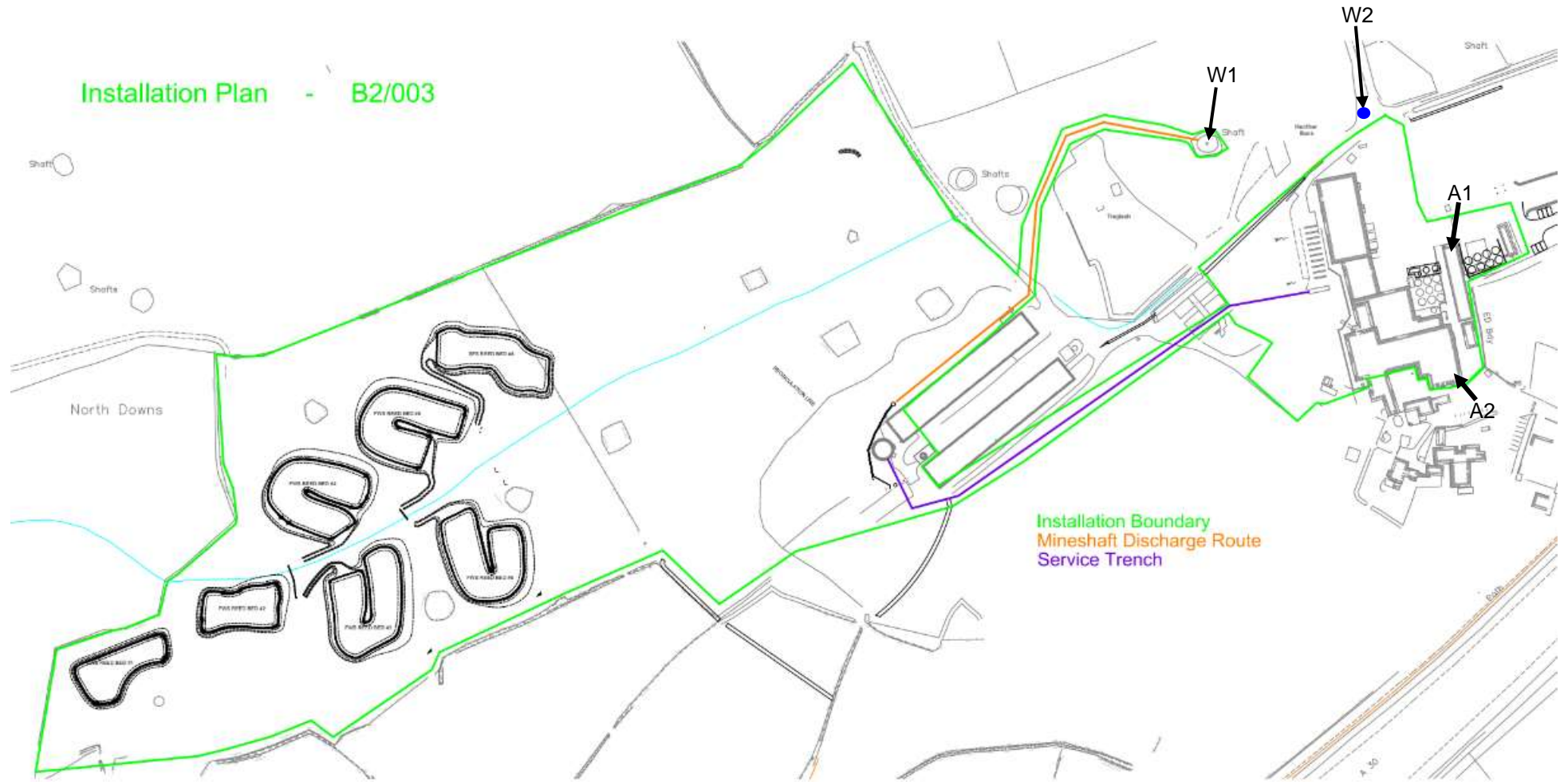
“year” means calendar year ending 31 December.

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:

- 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
- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

Schedule 7 – Site plan



END OF PERMIT