

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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R&R Ice Cream UK Limited

Leeming Bar Ice Cream Factory  
Leeming Bar Industrial Estate  
Plews Way  
Northallerton  
North Yorkshire  
DL7 9UL

Variation application number  
EPR/BP4062IB/V011

Permit number  
EPR/BP4062IB

# Leeming Bar Ice Cream Factory

## Permit number EPR/BP4062IB

### 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.

The variation is to incorporate the following changes into the Permit:

- An increase to the installation boundary.
- Addition of emission points to air.
- Addition of 7 new production lines.
- Expansion of the existing effluent treatment capacity from 400,000 l/day to 1,500,000 l/day.
- Addition of 2 natural gas fired CHP gas engines to supply heat and electricity to the installation.
- Inclusion of conditions relating to periodic monitoring of groundwater and soils; and revised notification conditions. Included as a requirement of the updated Environmental Permitting (England and Wales) (Amendment) Regulations 2013.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application BP4062IB (EPR/BP4062IB/A001)	Duly made 04/08/04	
Request for Information	01/02/05	Information Received on 11/02/05
Permit determined BP4062IB (EPR/BP4062IB/A001)	17/03/05	
Variation application UP3636SJ (EPR/BP4062IB/V002)	Duly made 10/05/05	
Variation determined UP3636SJ (EPR/BP4062IB/V002)	15/06/05	
Variation application AP3437SP (EPR/BP4062IB/V003)	Duly made 02/09/05	
Variation determined AP3437SP	15/12/05	

<b>Status log of the permit</b>		
(EPR/BP4062IB/V003)		
Variation application JP3535LP (EPR/BP4062IB/V004)	Duly made 09/02/06	
Request for Information	22/03/06	19/04/06
Request for Information	27/04/06	28/04/06
Variation determined JP3535LP (EPR/BP4062IB/V004)	25/05/06	
Administrative variation determined (EPR/BP4062IB/V005)	25/06/07	Name change from Richmond Ice Cream Limited to R&R Ice Cream UK Limited.
Partial surrender application RP3932UR (EPR/BP4062IB/S006)	Duly made 21/06/07	
Partial surrender determined RP3932UR (EPR/BP4062IB/S006)	15/11/07	
Variation application DP3832UL (EPR/BP4062IB/V007)	Duly made 21/06/07	
Variation determined DP3832UL (EPR/BP4062IB/V007)	15/11/07	
Variation application EPR/BP4062IB/V008	Duly made 28/05/09	
Variation determined EPR/BP4062IB/V008	24/03/10	
Variation Application EPR/BP4062IB/V009	Duly Made 15/02/11	
Schedule 5 Notice request for Information	24/03/11	06/04/11
Variation EPR/BP4062IB/V009 determined (Variation and consolidation)	06/05/11	
Agency variation determined EPR/BP4062IB/V010	13/02/14	Agency variation to implement the changes introduced by IED
Variation Application EPR/BP4062IB/V011	Duly Made 19/06/2014	
Variation EPR/BP4062IB/V011 determined (Variation and consolidation) (Billing Ref: UP3432VZ)	29/09/2014	

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/BP4062IB**

**issued to**  
**R&R Ice Cream UK Limited** (“the operator”)

whose registered office is

**Richmond House**  
**Leeming Bar**  
**Northallerton**  
**North Yorkshire**  
**DL7 9UL**

company registration number **00901522**

to operate a regulated facility at

**Leeming Bar Ice Cream Factory**  
**Leeming Bar Industrial Estate**  
**Plews Way**  
**Northallerton**  
**North Yorkshire**  
**DL7 9UL**

to the extent set out in the schedules.

The notice shall take effect from

Name	Date
<b>Anne Nightingale</b>	<b>29/09/2014</b>

Authorised on behalf of the Environment Agency

## **Schedule 1**

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

- Table 1.1.1 in the permit has been amended to update the descriptions of Activity A1 and Directly Associated Activity A4.
- Table 1.4.1 in the permit has been amended to include improvement conditions 3 and 4.
- Table 2.1.1 in the permit has been amended to include Operating techniques associated with Variation application EPR/BP4062IB/V011.
- Table 2.2.1 has been amended.
- Table 2.2.7 has been amended to update emission point to sewer description.
- Table 2.10.1 has been amended to remove note 3.
- Condition 2.10.11 has been added to the permit.
- Conditions 5.1.1 and 5.1.2 have been amended.
- Condition 6.1.1 has been amended.
- Schedule 1 – Notification has been amended.
- Site Plan in Schedule 5 of the permit has been amended.

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**  
**EPR/BP4062IB**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BP4062IB/V011 authorising,

**R&R Ice Cream UK Limited** (“the operator”),  
whose registered office is

**Richmond House**  
**Leeming Bar**  
**Northallerton**  
**North Yorkshire**  
**DL7 9UL**

company registration number **00901522**

to operate an installation at

**Leeming Bar Ice Cream Factory**  
**Leeming Bar Industrial Estate**  
**Plews Way**  
**Northallerton**  
**North Yorkshire**  
**DL7 9UL**

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

Name	Date
<b>Anne Nightingale</b>	<b>29/09/2014</b>

Authorised on behalf of the Environment Agency

# 1 General

## 1.1 Permitted activities

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

**Table 1.1.1 activities**

<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
A1	Section 6.8 Part A(1)(d)(i)	Treatment and processing, other than exclusively packaging, of the following raw material, whether previously processed or unprocessed, intended for production of food or feed – Only animal raw materials (other than milk only) with a finished product production capacity greater than 75 tonnes per day.	Raw material intake, storage, mixing, filtration, pasteurisation, cooling, ageing, refrigeration to waste handling and storage of finished product.
A2	Section 5.4 Part A(1)(a)(ii)	Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by physico-chemical treatment.	From intake to effluent treatment plant to discharge to public sewer.
<b>Directly Associated Activity</b>			
A3	Ripple plant	Production of ripple for addition to finished product	From receipt of raw materials to storage of finished product and disposal of associated waste.
A4	Generation of electricity and steam	Combustion of natural gas in 2 x 4.5MW CHP Gas Engines and integral boiler, one 3.13MW natural gas-fired boiler, one 2.82MW natural gas-fired boiler and one 1.28MW natural gas-fired boiler.	Generation of electricity and steam for the process. Includes receipt of raw materials and disposal of associated waste.  Using natural gas as a fuel only.

## 1.2 Site

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

## 1.3 Overarching management condition

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

## 1.4 Improvement programme

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

**Table 1.4.1: Improvement programme**

Reference	Requirement	Date
1	The operator shall review the site protection and monitoring programme to incorporate the latest expansion of the site boundary. Upon completion of the review the document shall be submitted to the Agency	Completed
2	The Operator shall undertake a review of the energy usage and efficiency at the installation following the implementation of amendments implemented by variation EPR/BP4062IB/V008. A report detailing the outcome of the review and a timetable for the implementation of any identified improvements where relevant shall be submitted to the Environment Agency in writing.	Completed
3	The Operator shall undertake a review of their operating procedures and accident management plan associated with Storage, transfer and use of Ammonia on site. A report detailing the outcome of the review and a timetable for the implementation of any identified improvements where relevant shall be submitted to the Environment Agency in writing for approval.	12/01/2015
4	The operator shall provide a report to the Environment Agency detailing the findings of the noise survey conducted in accordance with BS4142:1997 (or replacement standard) as described in variation application EPR/BP4062IB/V011. If the findings indicate that the plant might give rise to disturbance then the report will include further investigation and studies undertaken to identify the specific source(s) of the problematic noise and measures proposed to mitigate the potential impact to acceptable levels in accordance with BS4142:1997 (or replacement standard).	Within 3 months of commissioning of the CHP gas engines.

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

## 1.5 Minor operational changes

- 1.5.1 The Operator shall seek the Agency's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the Agency: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.



1.5.2 Any such change shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.

1.5.3 When the qualification “unless otherwise agreed in writing” is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the Agency written notice of the details of the proposed method(s) or techniques.

1.5.4 Any such method(s) or techniques shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation using that method or technique, and relevant provisions in the Application (and the Site Protection and Monitoring Programme, as the case may be) shall be deemed to be amended.

## **1.6 Pre-operational conditions**

1.6.1 There are no pre-operational conditions.

## **1.7 Off-site conditions**

1.7.1 There are no off-site conditions.

## 2 Operating conditions

### 2.1 In-process Controls

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

**Table 2.1.1: Operating techniques**

Description	Parts	Date received
Application	Pages 15-38 of the application, except reference to west 1 Warehouse	4th August 2004
Variation AP3437SP	Pages 1 & 2 of variation letter	2nd September 2005
Email from operator	BAT assessment of Advanced Oxidation Process	19th April 2006
Email response from operator	BAT assessment of Advanced Oxidation Process – Further Information	28th April 2006
Application for a variation	References to Raw materials warehouse only	14th February 2007
Application for variation (EPR/BP4062IB/V008)	Response to part C part of the application form.	28th May 2009
Application for variation (EPR/BP4062IB/V009)	Response to part C2 and C3 of the application form.	11th January 2011
Response to Schedule 5 Notice	All Parts	6th April 2011
Application for variation (EPR/BP4062IB/V011)	Response to Part C2 & C3 of the application form	09/04/2014
Response to Not duly made letter (issued 09/05/2014)	All Parts	12/05/2014, 15/05/2014 & 19/05/2014
Response to schedule 5 Notice (issued 30/06/2014)	All Parts	14/07/2014
Response to schedule 5 Notice (issued 01/08/2014)	All Parts	12/09/2014

2.1.2 The Permitted Installation shall, subject to the other conditions of this Permit, be operated using the techniques and in the manner described in the Site Protection and Monitoring Programme submitted under condition 4.1.7 of this Permit (as amended from time to time under condition 4.1.7), or as otherwise agreed in writing by the Agency.

### 2.2 Emissions

#### 2.2.1 Emissions to air, (including heat, but excluding odour, noise or vibration) from specified points

2.2.1.1 This Part 2.2.1 of this Permit shall not apply to releases of odour, noise or vibration.

2.2.1.2 Emissions to air from the emission points in Table 2.2.1 shall only arise from the source(s) specified in that Table. There are no specific controls imposed upon emissions to air in Part 2.2.1 of this Permit.

<b>Table 2.2.1 : Emission points to air</b>		
<b>Emission point reference or description</b>	<b>Source</b>	<b>Location of emission point</b>
A1	Gas fired boiler	Boiler house (A1 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A2	Gas fired boiler	Boiler house (A2 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A9	Gas fired boiler	Boiler house (A9 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A10	2 x CHP Gas Engines	Yard area (A10 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A11	Evaporative condensing tower 104	Roof area opposite engineers workshop (A11 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A12	Evaporative condensing tower 105	Roof area opposite engineers workshop (A12 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A13	Evaporative condensing tower 106	Roof area opposite engineers workshop (A13 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A14	Evaporative condensing tower 107	Roof area opposite engineers workshop (A14 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A15	Evaporative condensing tower 108	Roof area opposite engineers workshop (A15 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A16	Evaporative condensing tower 128	Roof area opposite engineers workshop (A16 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A17	Evaporating cooling tower north tower	Roof are of phase 3&4 (A17 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A18	Evaporating cooling tower south tower	Roof area of phase 3&4 (A18 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A19	Hybrid Evaporative condensing tower 109	Roof area of phase 3&4 (A19 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A20	Hybrid Evaporative condensing tower 110	Roof area of phase 3&4 (A20 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A21	Proposed evaporative cooling tower 111	Roof area of phase 3&4 (A21 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)
A22	Proposed evaporative cooling tower 112	Roof area of phase 3&4 (A22 on site plan in Appendix 1 of variation application EPR/BP4062IB/V011)

2.2.1.3 No condition applies

2.2.1.4 No condition applies

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

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

2.2.2.2 Conditions 2.2.2.3 - 2.2.2.6 shall not apply to emissions to sewer.

2.2.2.3 Emissions to water from the emission point(s) specified in Table 2.2.4 shall only arise from the source(s) specified in that Table. There are no specific controls imposed on emissions to water in Part 2.2.2 of this Permit.

**Table 2.2.4: Emission point to water**

<b>Emission Point Reference or description</b>	<b>Source</b>	<b>Receiving Water</b>
W1 (Page 21 of Application)	Surface Water Discharge Point (uncontaminated rainwater)	Bedale Beck
W2 (From letter dated 2 <sup>nd</sup> September 2005)	Surface Water Discharge Point (uncontaminated rainwater)	Bedale Beck

2.2.2.4 The limits for the emissions to water for the parameters and emission points set out in Table 2.2.5 shall not be exceeded.

2.2.2.5 Where a substance is specified in Table 2.2.5 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.

2.2.2.6 No condition applies.

**Table 2.2.5 Emission limits to water and monitoring**

<b>Emission point reference</b>	<b>Parameter</b>	<b>Limit (including Reference Period)</b>	<b>Monitoring frequency</b>	<b>Monitoring method</b>
W1	Oil and Grease	Free from visible Oil and Grease	Daily	Visual inspection of the discharge
W2	Oil and Grease	Free from visible Oil and Grease	Daily	Visual inspection of the discharge

## Emissions to sewer

2.2.2.7 Emissions to sewer from the specified emission points in Table 2.2.7 shall only arise from the source(s) specified in that Table.

**Table 2.2.7 Emission points to sewer**

<b>Emission point reference or description</b>	<b>Source</b>	<b>Sewer</b>
Labelled 'Connection in public sewer' as shown on drainage plan in Appendix 2 of variation application EPR/BP4062IB/V002	Site Effluent	Yorkshire water, Plews Way Sewer

2.2.2.8 The limits for the emissions to sewer for the parameters and emission point set out in table 2.2.8 shall not be exceeded.

**Table 2.2.8 Emission limits and monitoring frequency to sewer**

<b>Monitoring point reference</b>	<b>Parameter</b>	<b>Limit</b>	<b>Monitoring frequency</b>	<b>Monitoring method</b>
S1	Mercury	0.01mg/l	Annual	Compliance based on Mass balance calculation
S1	Cadmium	0.001mg/l	Annual	Compliance based on Mass balance calculation

2.2.2.9 No condition applies.

2.2.2.10 Total emissions in any year of a substance listed in Table 2.2.9 shall not exceed the relevant limit in that Table.

**Table 2.2.9 Annual emission limit**

<b>Substance</b>	<b>Annual limit – kg</b>
Cadmium	0.002kg Compliance based on Mass balance calculation
Mercury	0.015kg Compliance based on Mass balance calculation

## 2.2.3 Emissions to groundwater

2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.2 No emission from within the Permitted Installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)) so as to cause pollution (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.3 For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (SI 1998 No.2746)), the Operator shall use BAT to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application.

## **2.2.4 Fugitive emissions of substances to air**

2.2.4.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation in particular from:

- storage areas
- buildings
- pipes, valves and other transfer systems
- open surfaces
- refrigeration plant

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

## **2.2.5 Fugitive emissions of substances to water and sewer**

2.2.5.1 Subject to condition 2.2.5.2 below, the Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to water (other than Groundwater) and sewer from the Permitted Installation in particular from:

- all structures under or over ground
- surfacing
- bunding
- storage areas

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

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

## **2.2.6 Odour**

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

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

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

2.2.6.2 No condition applies.

- 2.2.6.3 All emissions to air from the permitted Installation shall be free from offensive odour as perceived by an Authorised Officer of the Agency except that the Operator shall not be taken to have breached this condition if the operator has used BAT to prevent, or where that is not practicable, to reduce, such odorous emissions.

## **2.2.7 Emissions to land**

- 2.2.7.1 This Part 2.2.7 of this Permit shall not apply to emissions to groundwater.

- 2.2.7.2 No emission from the permitted installation shall be made to land.

- 2.2.7.3 No condition applies.

## **2.3 Management**

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

### ***Training***

- 2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.

- 2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.

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

### ***Maintenance***

- 2.3.5 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment, shall be maintained in good operating condition.

- 2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment:

- 2.3.6.1 a written or electronic maintenance programme; and

- 2.3.6.2 records of its maintenance.

### ***Incidents and complaints***

- 2.3.7 The Operator shall maintain and implement written procedures for:

- 2.3.7.1 taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits and if such event occur;

2.3.7.2 investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and

2.3.7.3 ensuring that detailed records are made of all such actions and investigations.

2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions taken.

## **2.4 Efficient use of raw materials**

2.4.1 The Operator shall -

2.4.1.1 maintain the raw materials table or description submitted in Section 2.4 of the Application and in particular consider on a periodic basis whether there are suitable alternative materials to reduce environmental impact;

2.4.1.2 carry out periodic waste minimisation audits and water use efficiency audits. If such an audit has not been carried out in the 2 years prior to the issue of this Permit, then the first such audit shall take place within 2 years of its issue. The methodology used and an action plan for increasing the efficiency of the use of raw materials or water shall be submitted to the Agency within 2 months of completion of each such audit and a review of the audit and a description of progress made against the action plan shall be submitted to the Agency at least every 4 years thereafter; and

2.4.1.3 ensure that incoming water use is directly measured and recorded.

## **2.5 Waste Storage and Handling**

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

2.5.2 No condition applies.

## **2.6 Waste recovery or disposal**

2.6.1 Waste produced at the Permitted Installation shall be:

2.6.1.1 recovered to no lesser extent than described in the Application; and

2.6.1.2 where not recovered, disposed of while avoiding or reducing any impacts on the environment provided always that this is not done in any way that would have a greater effect on the environment than that described in the Application.



- 2.6.2 The Operator shall maintain the waste recovery or disposal table or description submitted in Section 2.6 of the Application and in particular review the available options for waste recovery and disposal for the purposes of complying with condition 2.6.1 above.
- 2.6.3 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where relevant removal date of any waste that is produced at the Permitted Installation.

## **2.7 Energy efficiency**

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

maintaining and implementing an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them, having regard to the appraisal method in the Agency's Energy Efficiency Horizontal Guidance Note H2.

## **2.8 Accident prevention and control**

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

## 2.9 Noise and vibration

2.9.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of noise and vibration from the Permitted Installation, in particular by:

- equipment maintenance, eg. of fans, pumps, motors, conveyors and mobile plant;
- use and maintenance of appropriate attenuation, eg. silencers, barriers, enclosures;
- timing and location of noisy activities and vehicle movements;
- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric,

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

2.9.2 No condition applies.

2.9.3 No condition applies.

## 2.10 On-site monitoring

2.10.1 No condition applies

2.10.2 The Operator shall carry out environmental or other specified substance monitoring to the frequencies and methods described in Table 2.10.1.

**Table 2.10.1 : Other monitoring requirements**

<b>Emission point reference</b>	<b>Substance or parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring method</b>	<b>Other specifications</b>
S1 (page 21 application)	Flow m3/day	Continuous	Flow meter	
S1 (page 21 application)	COD (chemical oxygen demand) kg/m3	Monthly (note 2)	Calculation	
S1 (page 21 application)	COD (chemical oxygen demand) mg/l	Daily composite sample	1 hour settled, COD, dichromate method	
S1 (page 21 application)	pH	Daily composite sample	To conform to an appropriate standard accepted under MCERTS	
S1 (page 21 application)	Ammonical Nitrogen (as N)	Daily composite sample	To conform to an appropriate standard accepted under MCERTS.	

Note: Methods may be changed (with written agreement of the Agency)

Note 2: Monthly load calculated from mean daily composite concentration multiplied by monthly flow.

2.10.3 No condition applies.

2.10.4 No condition applies.

- 2.10.5 The Operator shall notify the Agency at least 14 days in advance of undertaking monitoring and/or spot sampling, where such notification has been requested in writing by the Agency.
- 2.10.6 The Operator shall maintain records of all monitoring taken or carried out (this includes records of the taking and analysis of samples instrument measurements (periodic and continual), calibrations, examinations, tests and surveys) and any assessment or evaluation made on the basis of such data.
- 2.10.7 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 of this Permit and the environmental or other monitoring specified in condition 2.10.2 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing.
- 2.10.8 There shall be provided:
- 2.10.8.1 safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 to this Permit, unless otherwise specified in that Schedule; and
  - 2.10.8.2 safe means of access to other sampling/monitoring points when required by the Agency.
- 2.10.9 The Operator shall carry out the on-going monitoring identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7, unless otherwise agreed in writing by the Agency.
- 2.10.10 The operator shall, within 6 months of the issue of this permit, in accordance with and using the format given in the Land Protection Guidance:
- 2.10.10.1 collect the site reference data identified in the Site Protection and Monitoring Programme submitted under condition 4.1.7 and
  - 2.10.10.2 report that site reference data to the Agency, unless otherwise agreed in writing by the Agency.
- 2.10.11 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.

## **2.11 Closure and decommissioning**

- 2.11.1 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:-
- 2.11.1.1 attention to the design of new plant or equipment;
  - 2.11.1.2 the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out; and

2.11.1.3 the maintenance of a site closure plan to demonstrate that the Permitted Installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.

2.11.2 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.

2.11.3 The site closure plan shall be implemented on final cessation or decommissioning of the Permitted activities or part thereof.

2.11.4 The Operator shall give at least 30 days written notice to the Agency before implementing the site closure plan.

## **2.12 Multiple operator installations**

2.12.1 This is not a multi-operator installation.

## **2.13 Transfer to effluent treatment plant**

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

2.13.2 No condition applies.

### **3 Records**

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

## 4 Reporting

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

## 5 Notifications

- 5.1.1 (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.
- 5.1.2 Any information provided under condition 5.1.1 (a)(i), or 5.1.1 (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 1 to this permit within the time period specified in that schedule.
- 5.1.3 The Operator shall give written notification as soon as practicable prior to any of the following:-
- 5.1.3.1 permanent cessation of the operation of part or all of the Permitted Installation;
  - 5.1.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
  - 5.1.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.1.3.2.
- 5.1.4 The Operator shall notify the Agency, as soon as reasonably practicable, of any information concerning the state of the Site which adds to that provided to the Agency as part of the Application or to that in the Site Protection and Monitoring Programme submitted under condition 4.1.7 of this Permit.
- 5.1.5 The Operator shall notify the following matters to the Agency in writing within 14 days of their occurrence:-
- 5.1.5.1 where the Operator is a registered company:-
    - any change in the Operator's trading name, registered name or registered office address;
    - any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;

- 5.1.5.2 where the Operator is a corporate body other than a registered company:
- any change in the Operator's name or address;
  - any steps taken with a view to the dissolution of the Operator.
- 5.1.5.3 In any other case: -
- the death of any of the named Operators (where the Operator consists of more than one named individual);
  - any change in the Operator's name(s) or address(es);
  - any steps taken with a view to the Operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case them being in a partnership, dissolving the partnership;
- 5.1.6 Where the Operator has entered into a Climate Change Agreement with the Government, the Operator shall notify the Agency within one month of:-
- 5.1.6.1 a decision by the Secretary of State not to re-certify that Agreement.
- 5.1.6.2 a decision by either the Operator or the Secretary of State to terminate that agreement.
- 5.1.6.3 any subsequent decision by the Secretary of State to re-certify such an Agreement.
- 5.1.7 Where the Operator has entered into a Direct Participant Agreement in the Emissions Trading Scheme which covers emissions relating to the energy consumption of the activities, the Operator shall notify the Agency within one month of:-
- 5.1.7.1 a decision by the Operator to withdraw from or the Secretary of State to terminate that agreement.
- 5.1.7.2 a failure to comply with an annual target under that Agreement at the end of the trading compliance period.
- 5.1.8 The Operator shall notify the Agency in writing, of any known or planned introduction or material emission from the permitted installation to water or sewer, that may increase the concentration of any "dangerous substance", as defined in List I and List II of the Dangerous Substances Directive, 76/464/EEC, and its daughter directives.



## 6 Interpretation

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

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

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

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

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

*“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.

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

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

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

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

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

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

*“Mass balance calculation”* means that for the purposes of demonstrating compliance or non-compliance with a specified limit the release shall be calculated. The annual mass release for Mercury shall be calculated from the maximum potential concentration of the metal present as contamination in the chemical (i.e. Caustic/Sodium Hydroxide) multiplied by the volume of that chemical used on site during the Year. An allowance may be deducted for any proportion of the chemicals used that can be demonstrated not to have reached the emission point. The concentration of Mercury shall be calculated from the annual mass release and the volume of effluent discharged during the Year.

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

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

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

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

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

*“Staff”* includes employees, directors or other officers of the Operator, and any other person under the Operator’s direct or indirect control, including contractors.

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

*“Quarterly”* for reporting/sampling means after/during each 3 month period, January to March; April to June; July to September and October to December and, when sampling, with at least 4 weeks between each sampling date.

*“6 monthly”* for reporting/sampling means after/during each 6 month period, January to June; July to December and, when sampling, with at least 8 weeks between each sampling date.

*“Annual”* for reporting/sampling means after/during each year and, when sampling, with at least 4 months between each sampling date.

*“Daily”* means, for sampling purposes, a 24 hour period starting at 7.30 am.

*“Week”* means, for sampling purposes, a period of 7 days starting each Monday at 7.30 am.

*“Hourly average”* means the average value from continuous monitoring over each 60 minute period starting on the hour at 1.00, 2.00 etc.

*“24 hour rolling average”* means the average of the previous 24 hourly averages and is determined each hour at 1.00, 2.00 etc.

*“Daily average”* means the average of continuous monitoring with a data logging interval of 10 seconds over a day, 00.00 to 24.00.

*“Monthly average”* means the average of all daily averages obtained during a calendar month.

*“Class A or Class B”* in relation to volatile organic compounds is as defined in Agency Guidance for Speciality Organic Chemicals S4.02, Appendix 3.

*“Chemical Oxygen Demand”* means chemical oxygen demand from a settled sample determined in the presence of acidified potassium dichromate.

*“Suspended Solids”* means those suspended solids measured after drying at 105°C.

"*mg/m<sup>3</sup>*" means milligramme per cubic metre.

"*kg/h*" means kilogramme per hour.

"*µg/l*" means microgramme per litre.

"*mg/l*" means milligramme per litre.

"*g/l*" means gramme per litre.

"*kg*" means kilogramme.

"*t*" means tonne.

"*MWh*" means megawatt hour.

"Compliance based on mass calculation" means that for the purpose of demonstrating compliance or no compliance with a specified limit the release shall be calculated. Annual mass releases for Mercury and Cadmium shall be calculated from the maximum potential concentration of the metal present as contamination, multiplied by the volume of chemicals used on site during the year. An allowance may be deducted from any proportion of the chemicals used that can be demonstrated not to have reached the emission point. The concentration of Mercury and cadmium shall be calculated from the annual mass release and the volume of the effluent discharged during the year.

- 6.1.2 Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.
- 6.1.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means:-
- 6.1.3.1 in relation to gases from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and for combustion gases from the fired boilers with an oxygen content of 3% dry and for combustion gases from the gas turbine and associated waste heat boiler with an oxygen content of 15% dry for liquid and gaseous fuels; and/or
- 6.1.3.2 in relation to gases from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content
- 6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

# Schedule 1 - Notification

This page outlines 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

<i>Permit Number</i>	
<i>Name of operator</i>	
<i>Location of Facility</i>	
<i>Time and date of the detection</i>	

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

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

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

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

### Part B to be supplied as soon as practicable

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

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

\* authorised to sign on behalf of the operator

## Schedule 2 to the permit - Reporting of monitoring data

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

<b>Table S2: Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Monitoring point</b>	<b>Reporting period</b>	<b>Period begins</b>
Mercury mg/l kg/m <sup>3</sup>	S1	Annual	01/04/05
Cadmium mg/l kg/m <sup>3</sup>	S1	Annual	01/04/05
COD mg/l kg/m <sup>3</sup>	S1	Quarterly	01/04/05
Flow m <sup>3</sup>	S1	Quarterly	01/04/05
pH	S1	Quarterly	01/07/05
Ammonical Nitrogen (as N)	S1	Quarterly	18/02/06
Waste tonnes	-	Annual	01/04/05
Energy MWh	-	Annual	01/04/05
Water m <sup>3</sup>	-	Annual	01/04/05

## Schedule 3 to the permit - Forms to be used

<b>Table S3: Reporting Forms</b>		
<b>Media / parameter</b>	<b>Form number</b>	<b>Date of form</b>
Sewer	S2	March 2005
Sewer (COD/flow)	S3	March 2005
Energy	E1	March 2005
Waste returns	R1	March 2005
Water usage	WU1	March 2005
Performance indicators	PI1	March 2005

## Schedule 4 to the permit - Reporting of performance data

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

**Table S4.1: Annual Production/Treatment**

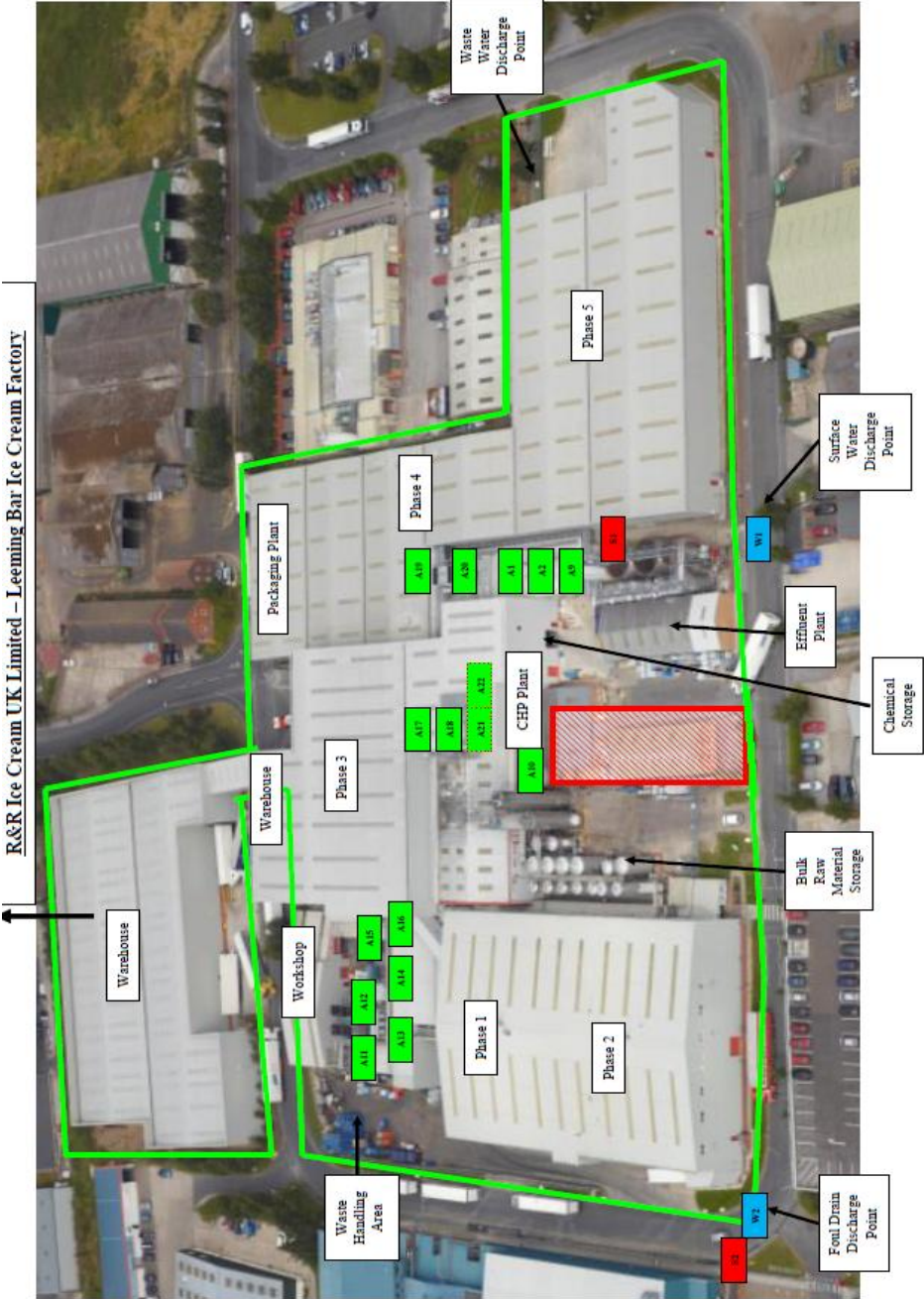
Annual production of food products	tonnes
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**Table S4.2: Performance parameters**

Parameter	Frequency of assessment	Performance indicator
Electricity output per unit output of finished product (tonnes)	Annually	MWh/tonne
Gas usage per unit output of finished product (tonnes)	Annually	MWh/tonne
Water consumption per unit output of finished product (tonnes)	Annually	M <sup>3</sup> /tonne
Waste (tonnes) generated per unit output of finished product (tonnes)	Annually	Tonne/tonne



# Schedule 5 to the permit - Site plan



END OF PERMIT