

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Coca-Cola Europacific Partners Great Britain Limited

Coca-Cola Europacific Partners Wakefield
Kenmore Road
Wakefield 41 Industrial Park
Wakefield
WF2 0XR

Variation application number

EPR/SP3439BU/V008

Permit number

EPR/SP3439BU

Coca-Cola Europacific Partners Wakefield

Permit number EPR/SP3439BU

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.

Changes Introduced by the variation made by the operator (V008)

The permit has been varied to allow the following changes on site:

The changes applied for in V008 include the consolidation of EPR/BP3120PB (Previously EPR/KP3435SX – issued to Yorkshire Water) into the site permit EPR/SP3439BU. EPR/KP3435SX was operated by Yorkshire water and transferred to CCEP in March 2022 under the new permit number EPR/BP3120PB, this permit is now incorporated under EPR/SP3439BU and as such reference to EPR/BP3120PB has been removed from the introductory note of the permit. This permit covered the processes carried out at the on-site effluent treatment plant using anaerobic digestion (AD). It should be noted that the on-site AD plant does not meet the definition defined in RGN2 and as such is not a listed activity.

In addition, the operator is upgrading the existing ETP to modernise and improve the plant, this will include processing of primary effluent by pH adjustment and heating and nutrient addition, new AD plant, operating an activated carbon bed and small moving bed biofilm reactor to sulphide removal in air and water, and the infrequent operating of a scrubber for hydrogen chloride removal. There are 2 new emission point from a new biogas boiler and the scrubber. This is in addition to the incorporation of existing emission points from the transferred permit. Furthermore the operator applied to change the emission limit values (ELVs) for the existing boilers on site, these have been included in table S3.1.

Changes Introduced by this variation notice/statutory review (V007)

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.

The schedules specify the changes made to the permit.

The CCEP Wakefield Site is permitted for the processing of vegetable raw materials for the manufacturing of soft drinks – “Section 6.8 Part A(1) (d)(ii) - Treating and processing for the production of food from only vegetable raw materials with a finished product production capacity greater than 300 tonnes per day.”

In addition, treating trade effluent by pH adjustment – “Section 5.4 Part A1 (a) (ii) - disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day - (ii) physico-chemical treatment”. This was previously recorded as a directly associated activity however this has been corrected in table S1.1 as a schedule 1 activity.

Plus, non-consented discharge from water treatment plant, storage and handling of raw materials, anaerobic digestion plant and emergency flare operation. CCEP manufacture and distribute a range of non-alcoholic beverages for the UK and European market. The majority of these beverages are produced under license

from The Coca-Cola Company and the remainder from Monster Energy Company. The process requires the following key manufacturing activities:

- Water treatment;
- Beverage Processing;
- Packaging; and
- Distribution

Water treatment takes place to ensure that the water used within the manufacturing process meets strict quality standards defined by the aforementioned licensor companies. Water for the Wakefield site is sourced from local sources from Yorkshire Water.

Soft drink beverage processing involves mixing of fruit or vegetable concentrates with other basic ingredients, which may include fruit essences, sugar syrup, citric acid, flavourings, and colourings. Some of the new Monster Energy Company products to be produced on site will require pasteurisation in line with the product quality standards.

The following stage of the process is carbonisation, where carbon dioxide is added to the beverage. This process is implemented on all lines at the Wakefield site.

The beverage is transferred to the production lines where it is filled into polyethylene terephthalate (PET) plastic bottles or cans, the products of primary packaging. Secondary packaging involves the collating of individual primary packages into various pack configurations. Individual packs are layered onto pallets which are then stored within the distribution area of the Wakefield site. This product is distributed to the marketplace.

The operation generates several different waste streams, both solid and liquid. Solid waste includes items like paper, cardboard, wood, glass, plastic, shrink-wrap, metal cans and PET bottles. Liquid waste is predominantly cleaning water from hygiene processes (water treatment), which is handled by the on-site effluent process, the treated effluent is then discharged to foul sewer under consent from Yorkshire water.

Emissions to air from this installation arise mainly from the gas fired boilers and combined heat and power (CHP) plant. The boilers and CHP are tested regularly for efficiency and there is a routine maintenance schedule in place.

There are no Special Sites of Scientific Interest or European sites, as defined by regulation 10 of the Conservation (natural Habitats etc.) Regulation 1994 which may be affected by emissions from this installation. The site is located within the Wakefield city Air Quality Management Area.

This site is certified to ISO14001:2015, and a member of the Climate Change Agreement Programme.

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 SP3439BU (EPR/SP3439BU/A001)	Received 07/04/2005	Application for a new food & drink facility.
Request for information	22/04/2005	Response received 21/07/2005.
Permit determined (EPR/SP3439BU)	06/12/2005	Permit issued to Coca-Cola Enterprises Limited.
Variation Application (EPR/SP3439BU/V002)	Received 31/01/2013	Variation to replace the older production lines (3&4) with a new line of the same combined capacity (11).
Variation determined	05/02/2013	Varied permit issued to Coca-Cola Enterprises Limited.
Notified of change of company	Duly Made	Name changed to Coca-Cola European Partners

Status log of the permit		
Description	Date	Comments
name and registered office address	21/11/2016	Great Britain Limited, and address changed to Pemberton House, Bakers Road, Uxbridge, Middlesex, UB8 1EZ.
Variation issued EPR/SP3439BU/V003	07/12/2016	Varied permit issued to Coca-Cola European Partners Great Britain Limited.
Application EPR/SP3439BU/V004	05/12/2019	Not duly made and returned to applicant.
Application EPR/SP3439BU/V005	Duly made 24/02/2021	Application for the addition of two new soft drink production lines Including a reverse osmosis treatment plant, pasteurisation equipment, addition of two MCPD steam generators and increased CO ₂ storage capacity.
Additional information received.		E-mail detailing chemical screening, effluent discharge volumetric flows/limits and EMS updates.
Additional Information received.	02/07/2021	E-mail detailing thermal input and efficiencies of CHP and boiler plant, origins of final fate discharge locations to sewer and confirmation of emission point locations to air, water and sewer.
Permit determined EPR/SP3439BU/V005	02/09/2021	Permit issued to Coca-Cola European Partners Great Britain Limited.
Notified of change of company name.	07/10/2021	Name changed to Coca-Cola Europacific Partners Great Britain Limited.
Variation issued EPR/SP3439BU/V006	05/01/2022	Varied permit issued to Coca-Cola Europacific Partners Great Britain Limited.
Application EPR/SP3439BU/V007 (variation and consolidation)	Regulation 61 Notice response received 31/03/2022	Environment Agency initiated variation and consolidation following the Food, Drink & Milk Industries sector permit review.
Variation determined	--	Changes introduced as a result of the sector review under V007 have been incorporated and consolidated within the permit issued under V008.
Application EPR/SP3439BU/V008 (variation and consolidation)	Duly Made 13/09/2023	Variation for the following changes on site: Consolidated of permit BP3120PB and development of on-site effluent treatment plant with Anaerobic digestion and change of ELVs on the medium combustion plant.
Variation determined and consolidation issued EPR/SP3439BU (Billing ref. UP3301MY)	08/12/2023	Varied and consolidated permit issued in modern format, incorporating the changes under V007 and V008.

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/SP3439BU

Issued to

Coca-Cola Europacific Partners Great Britain Limited (“the operator”)

whose registered office is

Pemberton House

Bakers Road

Uxbridge

UB8 1EZ

company registration number 00027173

to operate a regulated facility at

Coca-Cola Europacific Partners Wakefield

Kenmore Road

Wakefield 41 Industrial Park

Wakefield

WF2 0XR

to the extent set out in the schedules.

The notice shall take effect from 08/12/2023

Name	Date
Beccy Brough	08/12/2023

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator (V008):

- Table S1.1, as referenced in condition 2.1.1 has been updated to include the changes in DAAs (AR3 and AR10)
- Table S1.2, as referenced in condition 2.3.1 and 2.3.2 has been updated to include the operating techniques employed to support the changes introduced by this variation.
- Table S3.1, as referenced in conditions 3.1.1, 3.1.3, 3.5.1 (a) and 3.5.4 has been updated to reflect the inclusion of the effluent treatment plant and Anaerobic digestion plant emission points and change in emission limit values for the MCPs.
- Table S3.4, as referenced in conditions 3.1.3 and 3.5.1 (b) has been updated to include the process monitoring required for the Anaerobic digestion plant.
- Table S4.1 as referenced in conditions 4.2.3 (a) and (b) has been updated to include the reporting associated with the on-site Anaerobic digestion plant.
- Table S4.3 as referenced in condition 4.2.2 (c) has been updated to include the performance parameters associated with the Anaerobic digestion plant.
- Schedule 7 – site plan – as referenced in condition 2.2.1 has been updated to include the changes of the applied for variation.

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation (V007).

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/SP3439BU

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/SP3439BU/V008 authorising,

Coca-Cola Europacific Partners Great Britain Limited (“the operator”),

whose registered office is

Pemberton House

Bakers Road

Uxbridge

UB8 1EZ

company registration number 00027173

to operate an installation at

Coca-Cola Europacific Partners Wakefield

Kenmore Road

Wakefield 41 Industrial Park

Wakefield

WF2 0XR

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

Name	Date
Beccy Brough	08/12/2023

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”).
- 2.1.2 The activities shall be undertaken in accordance with best available techniques.
- 2.1.3 All process plant and equipment shall be commissioned, operated and maintained and shall be fully documented and recorded in accordance with the manufacturer’s recommendations.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan 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, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Total annual emissions from the emission point(s) set out in schedule 3 tables S3.1, S3.2 and S3.3 of a substance listed in schedule 3 table S3.4 shall not exceed the relevant limit in table S3.4.
- 3.1.4 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour, but including ammonia) 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.
- 3.2.4 The operator shall implement a leak detection and repair (LDAR) programme to detect and mitigate the release of volatile organic compounds, including methane from diffuse sources.

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, S3.2 and S3.3; and
- (b) process monitoring specified in table S3.4.

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, S3.2 and S3.3 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 Following the detection of an issue listed in condition 4.3.1, the operator shall review and revise the management system and implement any changes as necessary to minimise the risk of re-occurrence of the issue.

4.3.4 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.

4.3.5 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.

4.3.6 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.

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

4.3.8 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 A (1) (d)(ii)	Treating and processing for the production of food from only vegetable raw materials with a finished product production capacity greater than 300 tonnes per day.	From receipt of raw materials to dispatch of finished products of soft drinks. Production capacity is limited to 3.2 million tonnes per year – 8,767.1 tonnes a day.
AR2	Section 5.4 Part A1 (a) (ii)	Physico-chemical Treatment of non-hazardous waste waters by pH adjustment.	From generation of wastewater to discharge to foul sewer under consent of Yorkshire Water.
Directly Associated Activity			
AR3	Anaerobic Digestion and Biogas Production	Anaerobic Treatment of liquid effluent for use principally as a fuel or other means to generate energy	From receipt of waste through to digestion and recovery of by-products (digestate). Anaerobic digestion of waste in digester tanks followed by burning of biogas produced from the process to the final discharge of treated effluent to foul sewer under consent of Yorkshire Water.
AR4	Steam and electrical power supply	Medium Combustion plants: 3 Natural Gas fired boilers (Boiler 1: 2.15 MWth, Boiler 2: 4.44 MWth, Boiler 3: 6.45 MWth) 1 Natural Gas CHP (2.92 MWth) 2 Natural Gas boilers for Steam generation (2 x 3.924 MWth) 1 Biogas boiler (0.624 MWth)	From receipt of fuel to release of products of combustion to air.
AR5	Raw material storage and handling	Storage and handling of raw materials at the installation	From receipt of raw materials to dispatch of final product.
AR6	Water Treatment	Reverse Osmosis – treatment of mains water to bring it to required production standard	From receipt of mains water to dispatch of final product.
AR7	Use of refrigerants	Use of refrigerants in	From receipt of raw

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
		cooling and chilling systems at the installation.	materials to dispatch of final product.
AR8	Waste storage and handling	Storage and handling of waste materials	From generation of waste to storage pending removal for disposal or recovery.
AR9	Surface water drainage	Collection of uncontaminated site surface waters	Handling and storage of site drainage until discharge to the drains at Kenmore Road.
AR10	Emergency flare operation	Incineration on land	Undertaken in relation to Activity AR 2 From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases. Use of 1 auxiliary flare required only during periods of breakdown or maintenance of the biogas boiler.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/SP3439BU/A001	Application The response to questions 2.1, 2.2 and 2.3 given in section 1, 2.2 and 2.3 of the application and further information. 07/04/05 21/07/05	07/04/2005 21/07/2005
Variation Application EPR/SP3439BU/V002	Part C3 of the Variation Application.	31/01/2013
Variation Application EPR/SP3439BU/V005	Non-technical summary including Sections 2, 3, 4, 7 and 8 of the application documents provided in response to section 3a – technical standards, Part B3 of the application form. Technical standards in relation to Best available techniques as described in BAT conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for the food, drink and milk industries BAT Conclusions Numbers 1 to 15 and 33.	Duly Made 24/02/2021
Air Quality Report provided with Application SP3439BU/V005	Air Quality parameters –volumetric flow rates stated within section 2.1 of air quality dispersion modelling report dated August 2020	
Additional information	E-mail detailing chemical screening, effluent discharge volumetric flows/limits and EMS updates.	
Additional Information	E-mail detailing thermal input and efficiencies of CHP and boiler plant, origins of final fate discharge locations to sewer	02/07/2021

Table S1.2 Operating techniques		
Description	Parts	Date Received
	and confirmation of emission point locations to air, water and sewer. 02/07/21	
Regulation 61 (1) Notice – Responses to questions dated 09/11/2021	All parts	Received 31/03/2022
Request for further information dates 22/06/2023	Relevant hazardous substances monitoring plan and site condition Report	19/07/2023 and 18/09/2023
Application EPR/SP3439BU/V008	Application Forms Parts C2 and C3 The following sections of the application supporting information: <ul style="list-style-type: none"> • Supporting information (all sections) • Air quality dispersion modelling report • Secondary containment assessment • Odour screening report 	Duly Made 13/09/2023

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC8	<p>The Operator shall undertake a detailed risk assessment 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. • current containment measures • any deficiencies identified in comparison to relevant standards, • improvements proposed and justifications • time scale for implementation of improvements. <p>The operator shall implement the proposed improvements in line with the timescales agreed by the Environment Agency.</p>	12 months from permit issue or other date agreed in writing with the Environment Agency

Schedule 2 – Waste types, raw materials and fuels

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

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1a [Point A1a on site plan in Schedule 7]	Boiler 3 – 6.45 MWth Natural gas boiler	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	MCERTS BS EN15058
A1b [Point A1b on site plan in Schedule 7]	Boiler 2 – 4.44 MWth Natural gas boiler	Oxides of Nitrogen (NO and NO ₂ expressed as NO _x)	250 mg/m ³	Periodic	Every three years	BS EN 14792
		Carbon monoxide	No Limit	Periodic	Every three years	MCERTS BS EN15058
A1c [Point A1c on site plan in Schedule 7]	CHP – 2.92 MWth Natural gas engine	Oxides of Nitrogen (NO and NO ₂ expressed as NO _x)	292 mg/m ³ [Note 1] 190 mg/m ³ [Note 2]	Periodic	Every three years	BS EN 14792
		Carbon monoxide	No Limit	Periodic	Every three years	MCERTS BS EN15058
A1d [Point A1d on site plan in Schedule 7]	Boiler 1 – 2.15 MWth Natural gas boiler	Oxides of Nitrogen (NO and NO ₂ expressed as NO _x)	250 mg/m ³	Periodic	Every three years	BS EN 14792
		Carbon monoxide	No Limit	Periodic	Every three years	MCERTS BS EN15058
A5 & A6 [Point A5 & A6 on site plan in Schedule 7]	Carbon dioxide (CO ₂) vents	No parameters set	No limit set	--	--	--
A7 [Point on site plan in Schedule 7]	Nitrogen (N ₂) vents	No parameters set	No limit set	--	--	--
A11 & A12 [Points A11 & A12 on site plan in Schedule 7]	Stream Generators	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	82 mg/m ³	Periodic	Every 3 years	MCERTS BS EN 14792
		Carbon monoxide	No limit	Periodic	Every 3 years	MCERTS BS EN 15058

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A13 [Point A13 on site plan in Schedule 7]	Biogas boiler (0.63 MWth)	No parameters set	No limit set	--	--	--
A14 [Point A14 on site plan in Schedule 7]	HCl Scrubber	No parameters set	No limit set	--	--	--
A15 [Point A15 on site plan in Schedule 7]	Biogas Emergency Flare [Note 3]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	150 mg/m ³	Average over sampling period	Annual	BS EN 14792
		Carbon monoxide	50 mg/m ³	Average over sampling period	Annual	BS EN 15058
		Total VOCs	10 mg/m ³	Average over sampling period	Annual	BS EN 12619:2013
A16 [Point A16 on site plan in Schedule 7]	Balance tank safety valve	No parameters set	No limit set	--	--	--
A17 [Point A17 on site plan in Schedule 7]	Pre-acidification tank safety valve	No parameters set	No limit set	--	--	--
Note 1: Emission limit value applicable until January 2030 Note 2: Emission Limit Value applicable from January 2030 Note 3: monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours).						

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 [Point W1 on site plan in schedule 7] emission to Ligwell Gate Beck	Uncontaminated surface runoff via interceptor	No visible oil or grease	No limit set	--	Monthly	Visual assessment

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 [Point S1 on site plan in schedule 7] emission to Calder Vale Sewage treatment works operated by Yorkshire Water	Treated process effluent from onsite effluent treatment plant	No parameters Set	No limit set	--	--	--

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Biogas in digester	Flow	Continuous	In accordance with EU weights and measures Regulations	Process monitoring to be recorded using a SCADA system where relevant. Gas monitors to be calibrated every 6 months or in accordance with the manufacturer's recommendations
	Methane	Continuous	None specified	
	CO ₂	Continuous	None specified	
	O ₂	Continuous	None specified	
	Hydrogen sulphide	Daily	None specified	
	Pressure	Continuous	None specified	
Digester(s) and storage tank(s)	Integrity checks	Weekly	Visual assessment	In accordance with design specification and tank integrity checks.
Diffuse emissions from all sources identified in the Leak Detection and Repair (LDAR) programme	VOCs including methane	Every 6 months or otherwise agreed in accordance with the LDAR programme	BS EN 15446 In accordance with the LDAR programme	Monitoring points as specified in a DSEAR risk assessment and LDAR programme. Limit as agreed with the Environment Agency as a percentage of the overall gas production.
Emergency flare	Operating hours	Continuous	Recorded duration and frequency. Recording using a SCADA system or similar system	Date, time and duration of use of auxiliary flare shall be recorded.
	Quantity of gas sent to emergency flare			Quantity can be estimated from gas flow composition, heat content, ratio of assistance, velocity, purge gas flow rate,

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
				pollutant emissions.
Pressure relief valves and vacuum systems (In relation to the biogas system)	Gas pressure	Continuous	Recording using a SCADA system	Continuous gas pressure shall be monitored.
	Re-seating	Weekly inspection	Visual	Operator must ensure that valves are re-seated after release in accordance with the manufacturer's design.
	Inspection, maintenance, calibration, repair and validation	Following foaming or overtopping or at 3 yearly intervals whichever is sooner	Written scheme of examination in accordance with condition 1.1.1	After a foaming event or sticking, build-up of debris, obstructions or damage, operator must ensure that pressure relief valve function remains within designed gas pressure in accordance with the manufacturer's design by suitably trained and qualified personnel.
	Inspection, calibration and validation report	In accordance with design and construction specifications or after over topping or foaming event	Written scheme of examination in accordance with condition 1.1.1	Operator must ensure that valves are re-seated after release, after a foaming event or sticking, build-up of debris, obstructions or damage. Operator must ensure that PRV function remains within designed operation gas pressure in accordance with the manufacturer's design by suitably trained/qualified personnel. Inspection, calibration and validation report. In accordance with industry Approved Code of Practice

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	A1a, A1b, A1c, A1d, A11 and A12	Every 3 years	1 January
Process monitoring – digester tank integrity Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.4	Every 5 years from the date of commissioning or as per the manufacturer's recommendation, whichever is sooner	1 January
Process monitoring – under and over pressure relief systems Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.4	Every 12 months Yearly summary report of over-pressure and under-pressure events detailing mass balance release	1 January
Process monitoring – leak detection and repair (inspection, calibration and maintenance) Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.4	Every 3 years	1 January
Process monitoring – use of emergency flare Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.4	Every 12 months	1 January

Parameter	Units
Production of soft Drinks	tonnes

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Waste – recovery/disposal routes	Annually	tonnes
COD efficiency	Annually*	COD te/te product
Food waste	Annually	tonnes
Emergency flare operation	Annually	hours

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
*COD efficiency to be calculated on a weekly frequency, reported annually		

Table S4.4 Reporting forms		
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
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	
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*	
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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.

“average over the sampling period” means the average value of three consecutive measurements of at least 30 minutes each, unless otherwise stated, as defined in the General Considerations section of the Food, Drink & Milk Industries BAT Conclusions.

“emissions to land” includes emissions to groundwater.

“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.

“Leak detection and repair (LDAR) programme” means a structured approach to reduce fugitive emissions of organic compounds by detection and subsequent repair or replacement of leaking components. Currently, sniffing (described by EN 15446) and optical gas imaging methods are available for the identification of leaks as set out in BAT 14 and section 6.6.2 of the Waste Treatment BAT Conclusions.

“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.

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

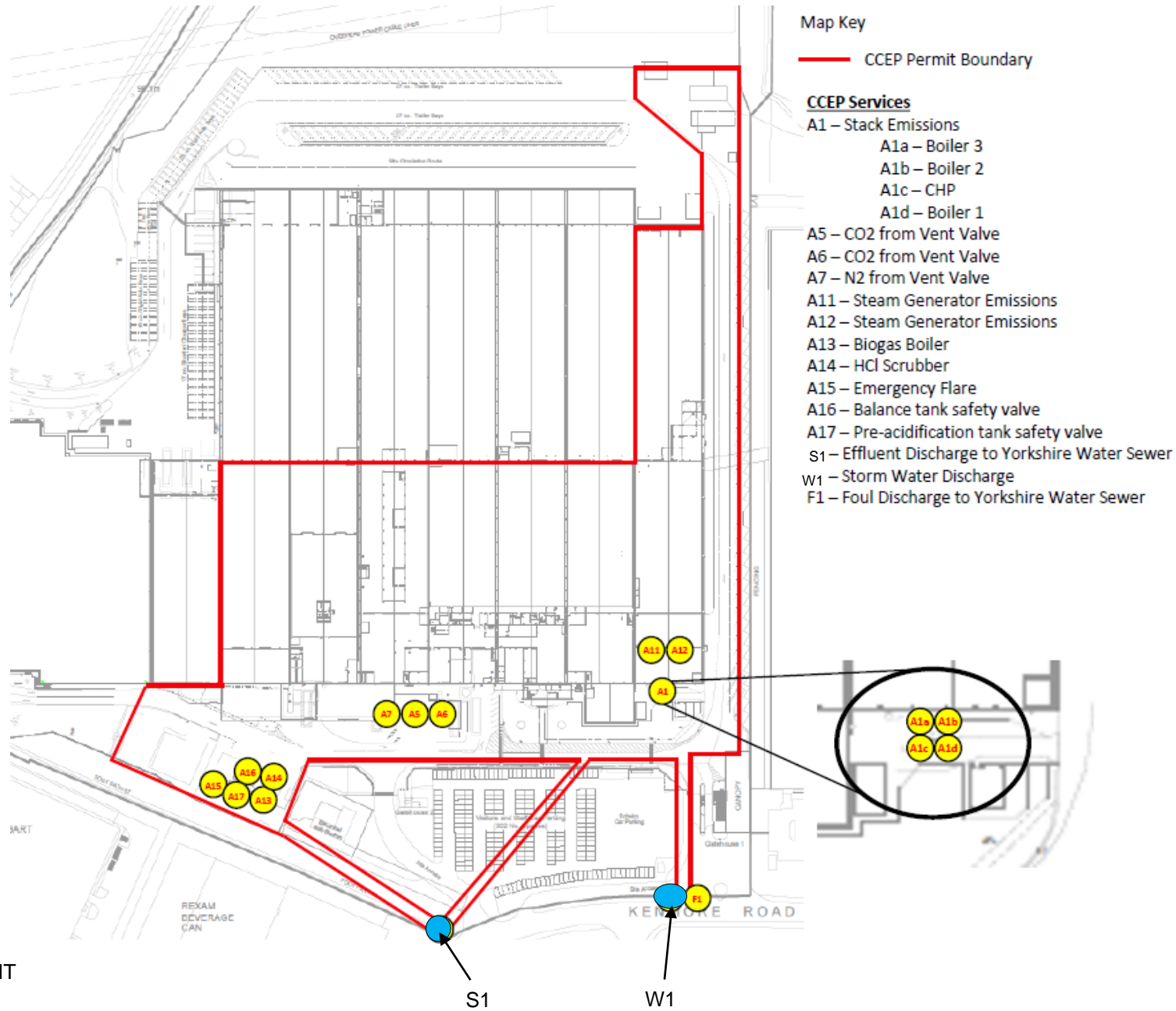
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



END OF PERMIT

