

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

United Utilities Water Limited

Bury Wastewater Treatment Works Sludge Treatment Facility
Crossfield Street
Blackford Bridge
Bury
Lancashire
BL9 9TF

Variation application number

EPR/SP3631LL/V009

Permit number

EPR/SP3631LL

Bury Wastewater Treatment Works Sludge Treatment Facility

Permit number EPR/SP3631LL

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 this variation notice/statutory review

The Industrial Emissions Directive (IED) came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. The schedule of waste management activities includes the recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving biological treatment, but excludes activities covered by the Urban Waste Water Treatment Regulations (UWWTR). However, UK environmental regulators concluded that the biological treatment of waste sewage sludge is not an activity covered by the UWWTR and is therefore within the scope of the IED.

Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

The scope of the permit review covers the assessment of:

- the bioaerosols monitoring and compliance with M9 bioaerosols monitoring requirements;
- the design and construction of secondary containment and storage lagoons;
- the available storage facilities and measures to reduce ammonia emissions from storage; and
- information on existing medium combustion plant and/or specified generators on site.

This variation has been issued following a statutory review of the permits in the industry sector for biowaste treatment and to bring the biological treatment of sewage sludge within the scope of IED. The opportunity has also been taken to consolidate the original permit and subsequent variations.

The schedules specify the changes made to the permit.

Brief description of the process

United Utilities Water Limited (UW) operates a non-hazardous wastewater treatment facility at Bury Wastewater Treatment Works (WwTW). The associated sludge treatment activities were originally permitted as disposal activities (biological treatment and physico-chemical treatment) under Section 5.4 A(1)(a)(i) and (ii) of the Environmental Permitting (England and Wales) Regulations 2016 (the EPR 2016). Due to the decommissioning of the off-site incinerator, the biological treatment of sludge at this facility will now be regulated as a recovery activity under Section 5.4 A(1)(b)(ii) of the Environmental Permitting Regulations 2016.

Up to 2,080,500 wet tonnes of indigenous and imported sludge can be accepted on site per year. Indigenous sludge from the Bury WwTW is discharged into a holding tank prior to screening and then thickening using three gravity belt thickeners (GBTs) with associated polymer make up and dosing. The thickened sludge is stored temporarily prior to treatment by anaerobic digestion in one of three primary digester tanks. Sludge from

UW satellite sites is imported by road tanker. Imported screened sludge is fed to the same holding tank as the indigenous sludge. Unscreened raw sludge is passed through a screening unit and then mixed with the indigenous sludge for thickening via the GBTs. Heat within the digesters encourages the biological breakdown of the sludge and produces a biogas consisting largely of methane. The biogas generated is stored in a gas holder prior to combustion in a combined heat and power (CHP) engine which converts the gas into heat for the digesters and into electricity for the installation. Siloxanes and other silicon compounds are removed through the biogas pre-treatment system.

Digested sludge is transferred into holding tanks and exported to the Mersey Valley Processing Centre (MVPC) at Davyhulme WWTW, via pipeline, for dewatering and recovery to land. Sludge liquors, predominantly arising from the thickening process, and condensate collected from the biogas pipe work is returned to Bury WwTW for further treatment prior to being returned to the environment under an Environment Agency discharge consent. Bury WwTW does not form part of this permit and as such the return of emissions to the WwTW is an indirect discharge to water.

The main emissions to atmosphere from the installation are exhaust gases from the combustion plant (boilers, CHP engine and emergency flare) and the venting of unburned biogas via pressure vacuum relief valves (PVRVs) serving the gas holder and primary digesters. Exhaust emissions from the combustion plant are controlled by limits set within the permit. Occasionally there will be releases of biogas via the safety pressure relief valves (PRVs). When necessary, excess biogas will be flared using the standby safety flare. There are no direct discharges to surface waters from the installation.

The installation operates under an Odour Management Plan (OMP). This includes details on control measures to minimise odour emissions from the permitted activities and actions to be taken in the event of an odour complaint. There is one odour control unit (catalytic iron filter plus two-stage carbon filter) serving the raw sludge storage tanks, GBTs, screening building and raw sludge wet well. There are no direct discharges to surface waters from the installation. All drainage within the permit boundary is routed into the WwTW's flow to full treatment.

The site operates an Environmental Management System (EMS) accredited to ISO 14001.

The installation is located in the south of the Bury WwTW site. The permitted activities are centred approximately at National Grid Reference NGR SD 80511 07977. To the north and west of the installation lies the River Irwell. Beyond the river, there is a mix of housing and industrial /commercial properties to the north, east and west, with parkland /woodland to the south. Within 1 km of the installation there are a number of open public areas including playing fields and allotments. The closest residential receptors to the site installation boundary are approximately 80 metres to the west and 100-140 metres to the north west. There are no Special Areas of Conservation, Special Protection Areas, or SSSIs within 2 km of the installation.

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 SP3631LL (EPR/SP3631LL/A001)	Duly made 30/06/2006	Application for a sludge treatment Installation.
Permit determined SP3631LL (EPR/SP3631LL)	24/10/2007	Permit issued to United Utilities Water PLC.
Application EPR/SP3631LL/V002 (variation)	Received 09/10/2009	Application to amend the reference conditions for reporting concentrations of substances in emissions into air.
Variation determined EPR/SP3631LL	15/10/2009	Varied permit issued to United Utilities Water PLC.
Application EPR/SP3631LL/V003 (variation)	Duly made 11/12/2009	Application to introduce a temporary re-liquidification process.

Status log of the permit		
Description	Date	Comments
Variation determined EPR/SP3631LL	04/03/2010	Varied permit issued to United Utilities Water PLC.
Application EPR/SP3631LL/V004 (variation)	Duly Made 04/10/2010	Application to introduce a number of technical changes.
Variation determined EPR/SP3631LL	02/02/2011	Varied permit issued to United Utilities Water PLC.
Application EPR/SP3631LL/V005 (variation)	29/05/2013	Agency variation determined to implement the changes introduced by IED.
Application EPR/SP3631LL/V006 (variation)	Duly made 19/12/2014	Application to include biogas treatment system, for siloxane removal, and change company name.
Variation determined EPR/SP3631LL	16/03/2015	Varied permit issued to United Utilities Water Limited.
Application EPR/SP3631LL/V009 (variation)	Duly made 19/01/2017	Application to vary the permit by the installation of permanent pipework and a tanker import point into the sludge holding tank. Introduction of Improvement Condition IC20.
Variation determined EPR/SP3631LL	23/03/2017	Varied permit issued to United Utilities Water Limited.
Application EPR/SP3631LL/V009 (variation)	Duly made 09/11/2020	Application to install a sludge screening unit to screen imported sludge prior to further treatment.
Variation determined EPR/SP3631LL	16/12/2020	Varied permit issued to United Utilities Water Limited.
Regulation 61 Notice sent to Operator	01/04/2021	Regulation 61 Notice requiring information for statutory review of permit.
Regulation 61 Notice response	11/02/2022	Response received from the operator.
Additional information received	20/08/2024	Response to request for further information dated 23/07/2024.
Additional information received	15/01/2025	Updated non-technical summary and site emission points plan.
Additional information received	25/02/2025	Updated site emission points plan and confirmation of sewer emission points.
Application EPR/SP3631LL/V009 (variation and consolidation)	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018.
Environment Agency Water and Sewerage Companies Review Permit reviewed Variation determined EPR/SP3631LL	11/03/2025	Varied and consolidated permit issued.

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 and consolidates

Permit number

EPR/SP3631LL

Issued to

United Utilities Water Limited (“the operator”)

whose registered office is

**Haweswater House
Lingley Mere Business Park
Lingley Green Avenue
Great Sankey
Warrington
WA5 3LP**

company registration number 02366678

to operate a regulated facility at

**Bury Wastewater Treatment Works Sludge Treatment Facility
Crossfield Street
Blackford Bridge
Bury
Lancashire
BL9 9TF**

to the extent set out in the schedules.

The notice shall take effect from 11/03/2025.

Name	Date
Marcus Woodward	11/03/2025

Authorised on behalf of the Environment Agency.

Schedule 1

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

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/SP3631LL

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/SP3631LL/V009 authorising,

United Utilities Water Limited (“the operator”),

whose registered office is

**Haweswater House
Lingley Mere Business Park
Lingley Green Avenue
Great Sankey
Warrington
WA5 3LP**

company registration number 02366678

to operate an installation at

**Bury Wastewater Treatment Works Sludge Treatment Facility
Crossfield Street
Blackford Bridge
Bury
Lancashire
BL9 9TF**

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

Name	Date
Marcus Woodward	11/03/2025

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.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

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.
- 2.1.4 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan 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 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
 - (c) the facility has sufficient free capacity to store and treat the waste.
- 2.3.5 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.
- 2.3.6 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.

- 2.3.7 Waste pre-acceptance and acceptance procedures shall be undertaken in accordance with best available techniques.
- 2.3.8 For the following activities referenced in schedule 1, table S1.1 (AR4):
- (a) each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this.
 - (b) the operator must keep periods of start-up and shut-down of each combustion plant as short as possible.
 - (c) there must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993.

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 S3.5.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour, 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 Subject to condition 3.2.4, below, all liquids in containers, whose emission to water or land could cause pollution, shall be provided with adequate secondary containment, unless other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container have been agreed in writing with the Environment Agency.
- 3.2.4 Condition 3.2.3, above, shall apply unless the operator strictly complies in full with IC22 below.

- 3.2.5 Subject to condition 3.2.6, below, all liquid wastes in storage tanks and lagoons shall be fully enclosed, with emissions collected and directed to an appropriate abatement system, unless other appropriate measures to prevent or where that is not practicable, to minimise, emissions of waste gases from storage tanks and lagoons have been agreed in writing with the Environment Agency.
- 3.2.6 Condition 3.2.5, above, shall apply unless the operator strictly complies in full with IC23 below.
- 3.2.7 Subject to condition 3.2.8, below, the anaerobic treatment of all wastes shall take place within fully enclosed vessels. Combustible biogas or biomethane produced during biological treatment shall be utilised as a fuel or stored for utilisation off site, unless other appropriate measures to prevent or where that is not practicable, to minimise, emissions of biogas or biomethane from treatment/storage vessels have been agreed in writing with the Environment Agency. There shall be no uncontrolled emissions of biogas to the environment. This excludes the venting of biogas in an emergency using pressure release valves.
- 3.2.8 Condition 3.2.7, above, shall apply unless the operator strictly complies in full with IC23 below.
- 3.2.9 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.

3.4 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 S3.5;
 - (b) process monitoring specified in tables S3.3 and 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, S3.3, S3.4 and S3.5 unless otherwise agreed in writing by the Environment Agency.
- 3.5.5 For the following activities referenced in Schedule 1 Table S1.1 (AR4):
- (a) For existing MCP, monitoring measurements shall be carried out before the relevant compliance date or within four months of the issue date of the permit whichever is the later.
 - (b) In the case of new medium combustion plant, the first monitoring measurements shall be carried out within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.
- 3.5.6 Monitoring of MCP shall not take place during periods of start up or shut down.

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) only use approved products for pest control;
 - (b) treat pest infestations promptly;
 - (c) reject pest-infected incoming waste;
 - (d) 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;
 - (e) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Fire prevention

- 3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.
- 3.7.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
 - (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.7.3 The operator shall undertake a DSEAR assessment and maintain an accident management plan.

4 Information

4.1 Records

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

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

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

4.2 Reporting

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

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

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

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

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

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

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.2.6 The operator shall keep records of non-waste materials leaving the site, including the type of material, the batch number, the date of export off-site and the tonnage exported on that date. These records shall be maintained for at least 2 years.

4.2.7 The operator shall submit an annual report detailing the efficiency of removal of non-digestible materials from feedstock prior to processing and the level of contamination in the final recovered digestate.

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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 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:

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 The operator shall notify the Environment Agency as soon as is practicable, in writing of any change of medium combustion plant.

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 and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S5.4 A(1) (b) (i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving biological treatment	R3: Recycling/reclamation of organic substances which are not used as solvents	<p>From receipt of waste through to digestion and recovery of by-products (waste treated by anaerobic digestion).</p> <p>Anaerobic digestion of waste in three primary digester tanks followed by burning of biogas produced from the process. Anaerobic digestion shall be limited to 1,059 tonnes/day.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>
Directly Associated Activity			
AR2	Storage of waste pending recovery or disposal	R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced)	<p>From the receipt of permitted waste to pre-treatment and despatch for anaerobic digestion on site.</p> <p>Storage of residual wastes from pre-treatment to despatch off-site for recovery.</p> <p>Storage of waste in enclosed equipment and tanks fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>
AR3	Physical treatment for the purpose of recycling	R3: Recycling/reclamation of organic substances which are not used as solvents	<p>From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery.</p> <p>Dilution of incoming wastes using final waste waters from the wastewater treatment works to aid pre-treatment and digestion only.</p> <p>Pre-treatment of waste in enclosed equipment and tanks fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system, including shredding, sorting, screening, compaction, baling, mixing and maceration.</p>

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
			<p>Post-treatment of digestate in enclosed equipment and tanks fitted with appropriate odour abatement and on an impermeable surface with a sealed drainage system, including separation, screening to remove contraries, centrifuge or pressing and addition of thickening agents (polymers) or drying for use as a fertiliser or soil conditioner (drying for the purpose of use as a fuel is not permitted).</p> <p>Biogas cleaning by biological or physical (carbon filtration) or chemical scrubbing.</p> <p>Re-liquidification of imported sludge cake for enhancement of methane generation within the primary generators.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>
AR4	Steam and electrical power supply	R1: Use principally as a fuel to generate energy	<p>From the receipt of biogas produced at the on-site anaerobic digestion process to combustion with the release of combustion gases.</p> <p>Combustion of biogas in one combined heat and power (CHP) engine with a thermal input of 1.1 MW.</p> <p>Combustion of biogas and gas oil in two dual fuel boilers with an aggregated thermal input of 5.86 MW.</p>
AR5	Emergency flare operation	D10: Incineration on land	<p>From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases.</p> <p>There shall be no venting or flaring of gas for disposal.</p> <p>Use of one auxiliary flare required only during periods of breakdown or maintenance of the CHP engine and dual fuel boilers.</p>
AR6	Raw material storage	Storage of raw materials including lubrication oil,	From the receipt of raw materials to despatch for use within the facility.

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
		antifreeze, ferric chloride, activated carbon and diesel.	
AR7	Gas storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	<p>Storage of biogas produced from on-site anaerobic digestion of permitted waste in one stand-alone gas holder and/or roof space of digesters.</p> <p>From the receipt of biogas produced at the on-site anaerobic digestion process to despatch for use within the facility.</p> <p>Emissions of unburnt biogas shall be minimised.</p>
AR8	Digestate storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	<p>From the receipt of processed digestate produced from the on-site anaerobic digestion process to despatch for use off-site.</p> <p>Storage of processed liquid digestate in two post-digestion storage tanks.</p> <p>Storage of processed solid digestate as a contingency in uncovered skips and on an impermeable surface with sealed drainage system.</p>
AR9	Surface water collection	Collection of uncontaminated roof and site surface water	From the collection of uncontaminated roof and site surface water from non-operational areas only to re-use within the facility or discharge to sewer.
AR10	Air abatement	Collection and treatment of air from the buildings or plant using abatement system – [1 multi-stage unit comprising catalytic iron filter and carbon filter] prior to release to atmosphere.	<p>From the collection of air from site processes to treatment and release of treated air to atmosphere.</p> <p>Collection and treatment of air from the buildings, tanks or plant using abatement system – [1 multi-stage unit comprising catalytic iron filter and carbon filter].</p>

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to section 2.1.1, 2.1.2, 2.1.3, 2.1.4, 2.1.5, 2.1.6, 2.1.7, 2.1.8, 2.1.10, 1.1.11, 2.1.12, 2.1.21, 2.1.22, 2.1.23, 2.1.24 and 2.2 in the Application.	30/06/2006
Letter from Amanda Molyneux of United Utilities Water PLC dated 22/09/06. RE: Agency letter dated 23/08/06	Answers 2, 3, 5, 6, 10 and 11	26/09/2006
Letter from Amanda Molyneux of United Utilities Water PLC dated 22/09/06. RE: Agency letter dated 08/09/06	Answers 8 and 13	26/09/2006
Letter from Amanda Molyneux of United Utilities Water PLC dated 29 September 2006	Bury answers 1 and 2	29/09/2006
Letter from Amanda Molyneux of United Utilities Water PLC dated 16 October 2006	Answers 1 and 3 only relating to boiler run times and contingency.	16/10/2006
Letter from Amanda Molyneux of United Utilities Water PLC dated 25 October 2006	Responses to parts 4 and 6 and the responses to Bury numbered 1-3	25/10/2006
Letter from Amanda Molyneux of United Utilities Water PLC dated 6 December 2006	Actions 1-3 and 5	06/12/2006
Letter from Amanda Molyneux of United Utilities Water PLC dated 23 November 2006	All	23/11/2006
Email from Amanda Molyneux of United Utilities Water PLC dated 11 December 2006	Answers for Bury only	11/12/2006
Amendments to application submitted on the 30/04/07	Amendments to the site plans as identified in the additional information	30/04/2007
E-mail from Amanda Molyneux of United Utilities Water PLC dated 05/07/07		05/07/2007
E-mail from Amanda Molyneux of United Utilities Water PLC dated 11/10/07	All parts	11/10/2007
E-mail from Amanda Molyneux of United Utilities Water PLC dated 15/10/07	All parts	15/10/2007
E-mail from Amanda Molyneux of United Utilities Water PLC dated 19/10/07	All parts	19/10/2007
Letter clarifying Volatile Organic Compound monitoring standard	All	13/11/2009
Variation Application	Application Supplemental Technical Document Sections 1 / 2	20/11/2009

Table S1.2 Operating techniques		
Description	Parts	Date Received
Email on re-liquidification trial duration	All	07/12/2009
Email on mobile boiler operation	All	10/12/2009
Email on details of re-liquidification trial and odour control	All	14/12/2009
Odour Management Plan	All	02/02/2010
Emails on operation of mobile steam generator	03/02/2010, 04/02/2010 and 05/02/2010	12/02/2010
Emails on operation of re-liquidification trial	03/02/2010, 04/02/2010 and 05/02/2010	12/02/2010
Email on clarification on combustion gas emissions	08/02/2010	12/02/2010
Email clarification on A1/A2 CHP engine deletion		24/02/2010
Variation Application EPR/SP3631LL/V004	Responses to the questions in Parts C2 & C3 of the application form.	04/10/2010
Variation Application EPR/SP3631LL/V006	Form EPC: Application for an environmental permit – Part C3 varying a bespoke installation permit response to question 3 (all parts including Tables). Application Support Document– Environmental Permit Variation Application for Biogas Pre-treatment at Bury Wastewater Treatment Works (WwTW) (Ref: EPR/SP3631LL). Supplementary Technical Information Report, Final Report, December 2014.	19/12/2014
Variation Application EPR/SP3631LL/V007	Response to Application documents (Part A, Part C2, Part C3, Part F1) and supporting information.	17/11/2016
Variation Application EPR/SP3631LL/V007	Response to Request for Information confirming operating procedures relevant to the new sludge import point.	19/01/2017
Response to Regulation 61 Notice dated 01/04/2021	<ul style="list-style-type: none"> Annex 1 Returns Spreadsheet Compliance and operating techniques identified in response to BAT Conclusions 1 to 8, 10 to 24 and 33 to 38 in the Waste Treatment BREF published on 17 August 2018. 	Received 01/10/2022
Response to Request for additional information dated 23/07/2024	Response to Questions 1 to 20.	20/08/2024
Additional information received	Response to request for information detailing wastewater treatment discharged into and associated surface waters.	11/10/2024
Additional information received	Updated non-technical summary and site emission points plan.	15/01/2025
Additional information received	Updated site emission points plan and clarification of sewer emission points.	25/02/2025

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1 – IC21	Improvement conditions completed.	Completed.
Improvement condition for secondary containment design		
IC22	<p>The operator shall submit a written 'secondary containment implementation plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the finalised designs and an implementation schedule for a secondary containment system for all liquids that could cause pollution from tanks, sumps and containers. The finalised design(s) and specifications shall be produced by appropriate competent individuals (qualified civil or structural engineer), in accordance with BAT 19 of the Waste Treatment BREF and the risk assessment methodology detailed within CIRIA C736 (2014) guidance or an equivalent standard that will provide an equivalent level of environmental protection. The plan shall include but not be limited to the following components:</p> <ul style="list-style-type: none"> • An assessment of the suitability for providing containment when subjected to the dynamic and static loads caused by catastrophic tank failure. • Finalised designs and specifications of the proposed secondary containment proposal completed by appropriate competent individuals. • A program of works with timescales for the commissioning of the secondary containment systems to comply with CIRIA C736 (2014) guidance, or equivalent standard. • An updated site and infrastructure plan. • A preventative maintenance and inspection regime. <p>The plan shall be implemented in accordance with the Environment Agency's prior written approval.</p> <p>(Note that approval of reports under this improvement condition does not preclude the need for permit variation applications to implement the improvements identified in the report. Any variation may include the insertion of necessary emission limit values).</p>	<p>31/03/2025</p> <p>Implementation of all required and approved containment improvements must be completed by 31/03/2025.</p>
Improvement conditions for enclosure of tanks storing (or treating) digestate		
IC23	<p>The operator shall submit a written 'post anaerobic digestion vessel cover' plan and obtain the Environment Agency's written approval to it. The plan shall contain the final designs and an implementation schedule for the installation of covers for vessels storing and/or treating digestate in tanks identified as one Digested Sludge Holding Tank and two Sludge Holding Tanks. The plan shall also contain a detailed description of the proposed gas utilisation/abatement plant, gas storage infrastructure for the biogas produced during anaerobic digestion, pressure relief valves and gas pipework. The plan shall include but not be limited to the following components:</p>	<p>31/03/2025</p> <p>Implementation of all required and approved containment improvements must be completed by 31/03/2025.</p>

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> Evidence that the pollutants of the waste gas (including methane) produced in one Digested Sludge Holding Tank and two Sludge Holding Tanks will be controlled and/or abated either by the proposed gas utilisation plant or proposed abatement system. Evidence that the vessel covers, gas utilisation/ abatement plant and ancillary equipment have been designed by appropriately qualified engineers. Evidence that the vessel covers, and gas utilisation/abatement plant will be designed and installed in accordance with guidance, <u>Biological waste treatment: appropriate measures for permitted facilities</u>. An updated Hazard and Operability Study (HAZOP) and DSEAR risk assessment. An assessment of gas storage capacity and gas utilisation/abatement capacity including proposals for additional gas utilisation/ abatement plant. A program of works with timescales for the commissioning of the vessel cover(s), gas utilisation/ abatement infrastructure and ancillary equipment. <p>The plan shall be implemented in accordance with the Environment Agency's prior written approval.</p> <p>(Note that approval of reports under this improvement condition does not preclude the need for permit variation applications to implement the improvements identified in the report. Any variation may include the insertion of necessary emission limit values).</p>	
Improvement conditions for primary containment tanks		
IC24	<p>The operator shall submit a written 'primary containment plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of an inspection and program of works undertaken by an appropriately qualified engineer and shall assess the extent, design specification and condition of primary containment systems (including associated pipework) where polluting liquids and solids are being stored, treated, and/or handled.</p> <p>The plan shall include, but not be limited to:</p> <ul style="list-style-type: none"> An assessment of the physical condition of all primary containment systems (storage and treatment vessels and associated pipework) using a Written Scheme of Examination and their suitability for providing primary containment when subjected to dynamic and static loads. A program of works with timescales for the implementation of individual improvement measures necessary to demonstrate that the primary containment is fit for purpose or alternative appropriate measures to ensure all polluting materials will be contained on site. A preventative maintenance and inspection regime. 	11/03/2026 or such other date as agreed in writing with the Environment Agency.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	The plan shall be implemented in accordance with the Environment Agency's written approval.	
Improvement conditions for establishing an inventory of liquid waste water discharged from anaerobic digestion and associated activities (AR1 – AR10)		
IC25a	<p>The operator shall submit a sampling programme in relation to waste water streams and shall obtain the Environment Agency's written approval to it. The sampling programme shall be designed to fully characterise the waste waters discharged to Bury Wastewater Treatment Works (WwTW) from emission points S4 and S9 in table S3.2 of this permit.</p> <p>The programme shall include but not be limited to a methodology for a minimum of one 24-hour flow proportional sample a month, for each emission point, for a period of 12 months. The programme shall detail the sampling methods/standards used. Sampling methods shall be in accordance with BAT conclusion 20 of the Waste Treatment BREF. The programme shall include the National Grid Reference (NGR) of the sampling point location(s).</p> <p>The programme shall establish the characteristics of the liquid waste water streams and shall include as a minimum for each emission point:</p> <ul style="list-style-type: none"> • Average values and variability of flow, pH, temperature and conductivity. • Average concentration and load values of all relevant substances and their variability. • Data on bioeliminability. <p>The programme shall sample for all relevant substances and must include:</p> <ul style="list-style-type: none"> • Hydrocarbon oil index (HOI) (mg/l) • Free cyanide (CN⁻) (mg/l) • Adsorbable organically bound halogens (AOX) (mg/l) • Metals and metalloids; arsenic (expressed as As), cadmium (expressed as Cd), chromium (expressed as Cr), hexavalent chromium (expressed as Cr(VI)), copper (expressed as Cu), lead (expressed as Pb), nickel (expressed as Ni), mercury (expressed as Hg), zinc (expressed as Zn) (µg/l) <p>The operator shall submit the collected monitoring data in writing to the Environment Agency according to agreed reporting periods.</p> <p>The sampling programme shall be produced in accordance with Environment Agency guidance:</p> <ul style="list-style-type: none"> • Specific substances and priority hazardous substances – <i>Surface water pollution risk for your environmental permit</i> <u>Surface water pollution risk assessment for your environmental permit - GOV.UK (www.gov.uk)</u>. 	<p>Within 2 months of issue of this permit or such other date as agreed in writing with the Environment Agency.</p>

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> Monitoring discharges to water: guidance on selecting a monitoring approach <u>Monitoring discharges to water: guidance on selecting a monitoring approach - GOV.UK (www.gov.uk)</u> <p>The monitoring programme shall be carried out and the monitoring data submitted in accordance with the Environment Agency's written approval.</p>	
Improvement conditions for indirect discharges to water discharged from anaerobic digestion and associated activities (ARX – AR10)		
IC25b	<p>The operator shall submit a report for approval by the Environment Agency, following completion of the sampling programme approved under IC25a. The report shall include but not be limited to; a summary of the sample results, a completed H1 risk assessment(s) and modelling outputs where appropriate.</p> <p>The operator shall provide conclusions on whether the waste waters discharged from S4 and S9 will have any adverse impact on the receiving waters once discharged from Bury Wastewater Treatment Works (WwTW). An assessment shall be made against the parameters specified in the relevant environmental standards as specified within Environment Agency guidance as follows:</p> <ul style="list-style-type: none"> Specific substances and priority hazardous substances – <u>Surface water pollution risk for your environmental permit Surface water pollution risk assessment for your environmental permit - GOV.UK (www.gov.uk)</u>. Sanitary substances – <u>H1 annex D2: assessment of sanitary and other pollutants in surface water discharges 1076 14 H1 Annex D2 - Assessment of sanitary and other pollutants within Surface Water Discharges (publishing.service.gov.uk)</u> <p>The report shall include any proposals and/or additional measures required to prevent or minimise any significant emissions from the installation along with timescales for implementation.</p>	<p>Within 15 months of the Environment Agency's written approval of the sampling programme submitted under IC25a or such other date as agreed in writing with the Environment Agency</p>
IC25c	<p>The operator shall implement any improvements identified within the report approved under IC25b in accordance with the Environment Agency's written approval and provide written confirmation to the Environment Agency that the improvements have been completed.</p> <p>(Note, approval of reports under this improvement condition does not preclude the need for permit variation application(s) to operate the improvements identified in the report and/or include any necessary emission limit values).</p>	<p>Within 6 months of the report in relation to IC25b being approved by the Environment Agency or such other date as agreed in writing with the Environment Agency</p>

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
Improvement condition to address methane slip emissions from gas engines burning biogas		
IC26	<p>The operator shall submit a written plan for approval by the Environment Agency which establishes the methane emissions in the exhaust gas from engines burning biogas and or biomethane and compare these to the manufacturer's specification and benchmark levels.</p> <p>The plan shall develop proposals to assess the potential for methane slip and take corrective actions where emissions of methane above the manufacturer's specification are identified.</p> <p>The operator shall establish methane emissions in the exhaust gas and methane slip using the following standards:</p> <ul style="list-style-type: none"> • EN ISO 25139 • EN ISO 25140 	11/09/2025 or such other date as agreed in writing with the Environment Agency
Improvement condition for establishing a Leak detection and repair programme		
IC27	<p>The operator shall establish a site-specific leak detection and repair (LDAR) programme to detect and mitigate the release of volatile organic compounds, including methane from diffuse sources. The programme shall include, but not be limited to an LDAR survey, diffuse emissions source inventory and associated monitoring arrangements. The programme shall be submitted to the Environment Agency for approval.</p> <p>The programme shall take into account the appropriate measures for LDAR plans specified in Section 11.9 of <i>Environment Agency guidance, Biological waste treatment: appropriate measures for permitted facilities</i>.</p> <p>The operator shall also have regard to BS EN 17628 when designing the LDAR programme and consider the use of optical gas imaging cameras and/or application of 'sniffer' techniques according to BS EN 15446.</p>	11/09/2025 or such other date as agreed in writing with the Environment Agency
Improvement condition for review of effectiveness of abatement plant		
IC28	<p>The operator shall carry out a review of the abatement plant (catalytic iron filter and carbon filter, emission point A4) on site, to determine whether the measures have been effective and adequate to prevent, or where this is not possible to minimise, emissions released to air (including but not limited to odour, ammonia, HCl, and TVOC if applicable).</p> <p>The operator shall submit a written report to the Environment Agency following this review for assessment and approval.</p> <p>The report shall include but not be limited to the following aspects:</p> <ul style="list-style-type: none"> • Full investigation and characterisation of the waste gas streams. • Evidence that the emission of pollutants in the waste gas stream is being prevented or where this is not possible minimised by the abatement plant. • Abatement stack monitoring results (including but not limited to odour, ammonia, HCl, and TVOC). • Abatement process monitoring results (including but not limited to odour, ammonia, HCl, and TVOC). 	11/09/2025 or such other date as agreed in writing with the Environment Agency

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> • Details of air quality quantitative impact assessment including modelling and a proposal for site-specific “action levels” (including but not limited to odour, ammonia, HCl, and TVOC) • Odour monitoring results at the site boundary. • Records of odour complaints and odour related incidents. • Recommendations for improvement including the replacement or upgrading of the abatement plant. • Timescales for implementation of improvements to the abatement plant. <p>The operator shall implement any improvements in line with the timescales as approved by the Environment Agency.</p> <p>(Note that approval of reports under this improvement condition does not preclude the need for permit variation applications to implement the improvements identified in the report. Any variation may include the insertion of necessary emission limit values).</p>	
Improvement condition for monitoring digestate stability		
IC29	<p>The operator shall submit a written report, with supporting evidence, on the stability of whole digestate, (i.e. prior to dewatering), stored within the Digested Sludge Holding Tank and Sludge Holding Tanks and obtain the Environment Agency’s written approval to it.</p> <p>The report shall assess whether biogas emissions from post digestion storage or treatment of digestate is likely to have been minimised. The report shall include but not be limited to:</p> <ul style="list-style-type: none"> • An assessment of residual biogas potential in accordance with the OFW004-005 [N6] methodology specified by <i>BSI PAS 110: Producing Quality Anaerobic Digestate</i> or an equivalent methodology for assessing residual biogas potential of the digestate stored within the Digested Sludge Holding Tank and Secondary Digested Sludge Holding Tanks. 	11/09/2025 or such other date as 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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Table S2.2 Permitted waste types and quantities for anaerobic digestion	
Maximum quantity	Annual throughput shall not exceed 2,080,500 tonnes
Exclusions	<p>Wastes having any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • Biodegradable wastes that is significantly contaminated with non-compostable or digestible contaminants, in particular plastic and litter shall be no more than 5% w/w and shall be as low as reasonably practicable by 31 December 2025. • Wastes containing wood-preserving agents or other biocides and post-consumer wood. • Wastes containing persistent organic pollutants. • Wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019. • Manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. • Pest infested waste.
Waste code	Description
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05 (sewage sludge only)
19 06	wastes from anaerobic treatment of waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste (digested sewage sludge only)
19 08	wastes from waste water treatment plants not otherwise specified
19 08 05	sludges from the treatment of urban waste water

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Point A1 on site plan in Schedule 7	Gas holder pressure vacuum release valve	Biogas release and operational events	No limit set	Recorded duration and frequency	Daily inspection	--
Point A2a on site plan in Schedule 7	Primary Digester 1 pressure vacuum release valve	Biogas release and operational events	No limit set	Recorded duration and frequency	Daily inspection	--
Point A2b on site plan in Schedule 7	Primary Digester 2 pressure vacuum release valve	Biogas release and operational events	No limit set	Recorded duration and frequency	Daily inspection	--
Point A2c on site plan in Schedule 7	Primary Digester 3 pressure vacuum release valve	Biogas release and operational events	No limit set	Recorded duration and frequency	Daily inspection	--
Point A3 on site plan in Schedule 7	Emergency flare stack [note 1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	150 mg/m ³	Average over sample period	[note 2]	BS EN 14792
		Carbon monoxide	50 mg/m ³			BS EN 15058
		Total VOCs	10 mg/m ³			BS EN 12619
Point A4 on site plan in Schedule 7	Channelled emissions such as odour abatement stack or vent – multi-stage unit consisting catalytic iron filter and carbon filter [note 3]	Hydrogen sulphide	No limit set	Average over sample period	Once every 6 months	CEN TS 13649 for sampling NIOSH 6013 for analysis
		Ammonia	20 mg/m ³	Average over sample period	Once every 6 months	EN ISO 21877
		Odour concentration	No limit set	--	Once every 6 months	BS EN 13725
	Channelled emissions to air from treatment of water-based liquid waste	Hydrogen chloride (HCl)	5 mg/m ³ [note 4]	Average over sample period	Once every 6 months	EN 1911
		TVOC	20 mg/m ³ [note 4]	Average over sample period	Once every 6 months	EN 12619

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
Point A5a on site plan in Schedule 7	Boiler No. 1 stack [burning biogas] [note 1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³ [note 5]	Average over sample period	Annual	BS EN 14792
		Sulphur dioxide	200 mg/m ³ [note 5]			BS EN 14791 or CEN TS 17021 or by calculation based on fuel sulphur
		Carbon monoxide	No limit set [note 5]			BS EN 15058
	Boiler No. 1 stack [burning gas oil] [note 1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/m ³ [note 5]	Average over sample period	Annual	BS EN 14792
		Carbon monoxide	No limit set [note 5]			BS EN 15058
	Point A5b on site plan in Schedule 7	Boiler No. 2 stack [burning biogas] [note 1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³ [note 5]	Average over sample period	Annual
Sulphur dioxide			200 mg/m ³ [note 5]	BS EN 14791 or CEN TS 17021 or by calculation based on fuel sulphur		
Carbon monoxide			No limit set [note 5]	BS EN 15058		
Boiler No. 2 stack [burning gas oil] [note 1]		Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/m ³ [note 5]	Average over sample period	Annual	BS EN 14792
		Carbon monoxide	No limit set [note 5]			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
Point A6 on site plan in Schedule 7	CHP engine stack [note 1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Average over sample period	Annual	BS EN 14792
		Sulphur dioxide	350 mg/m ³ [note 6]			BS EN 14791 or CEN TS 17021 or by calculation based on fuel sulphur
		Sulphur dioxide	162 mg/m ³ [note 7]			
		Carbon monoxide	1400 mg/m ³			BS EN 15058
		Total VOCs	No limit set			BS EN 12619
Point A7 on site plan in Schedule 7	Oil tank breather vent	No parameter set	No limit set	--	--	--
<p>Note 1 – These emission limits are based on normal operating conditions and load - temperature 0°C (273 K); pressure 101.3 kPa and oxygen 5% (for gas engines burning biogas) and oxygen 3% (for emergency flares and medium combustion plants other than engines and gas turbines burning biogas such as boilers).</p> <p>Note 2 – Monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours). Record of operating hours to be submitted annually to the Environment Agency.</p> <p>Note 3 – The monitoring of NH₃ and H₂S can be used as an alternative to the monitoring of the odour concentration subject to the outcome of IC28.</p> <p>Note 4 – Monitoring and limits only apply where the substance concerned is identified as relevant in the waste gas inventory IC28.</p> <p>Note 5 – This emission limit applies from 1 January 2030, unless otherwise advised by the Environment Agency.</p> <p>Note 6 – This emission limit applies until 31 December 2029, unless the gas engine is replaced.</p> <p>Note 7 – This emission limit applies from 1 January 2030, unless otherwise advised by the Environment Agency.</p>						

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter [Note 1]	Limit (incl. unit) [Note 1]	Reference Period	Monitoring frequency [Note 2]	Monitoring standard or method
Point S1 on site plan in schedule 7 emission to River Irwell via Bury waste water treatment works	Site drainage (condensate)	--	--	--	--	--
Point S2 on site plan in	Site drainage (condensate,	--	--	--	--	--

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter [Note 1]	Limit (incl. unit) [Note 1]	Reference Period	Monitoring frequency [Note 2]	Monitoring standard or method
schedule 7 emission to River Irwell via Bury waste water treatment works	skip and raw sludge import area)					
Point S3 on site plan in schedule 7 emission to River Irwell via Bury waste water treatment works	GBT filtrate	--	--	--	--	--
Point S5 on site plan in schedule 7 emission to River Irwell via Bury waste water treatment works	GBT filtrate return to Works	--	--	--	--	--
Point S6 on site plan in schedule 7 emission to River Irwell via Bury waste water treatment works	OCU liquor	--	--	--	--	--
Point S7 on site plan in schedule 7 emission to River Irwell via Bury waste water treatment works	Gas holder condensate pot (x2)	--	--	--	--	--
Point S8 on site plan in schedule 7 emission to River Irwell via Bury waste water treatment works	Gas holder water seal (flows to S1 if overflowing)	--	--	--	--	--

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter [Note 1]	Limit (incl. unit) [Note 1]	Reference Period	Monitoring frequency [Note 2]	Monitoring standard or method
Point S10a on site plan in schedule 7 emission to River Irwell via Bury waste water treatment works	Primary digester 1 condensate pot	--	--	--	--	--
Point S10b on site plan in schedule 7 emission to River Irwell via Bury waste water	Primary digester 2 condensate pot	--	--	--	--	--
Point S10c on site plan in schedule 7 emission to River Irwell via Bury waste water	Primary digester 3 condensate pot	--	--	--	--	--
Point S11 on site plan in schedule 7 emission to River Irwell via Bury waste water treatment works	Siloxane skid condensate pots (x2)	--	--	--	--	--
Point S12 on site plan in schedule 7 emission to River Irwell via Bury waste water treatment works	Flare stack booster condensate pot	--	--	--	--	--
Point S4 & S9 on site plan in schedule 7 emission to River Irwell via Bury waste water	S4 GBT filtrate pumping station (also including digested sludge and OCU drainage)	Oil and grease	No visible oil or grease	--	Weekly	Visual assessment
		Benzene, toluene, ethylbenzene, xylene (BTEX)	--	Spot sample or flow-proportional	Once every month	EN ISO 15680

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter [Note 1]	Limit (incl. unit) [Note 1]	Reference Period	Monitoring frequency [Note 2]	Monitoring standard or method
treatment works	S9 Site drainage combination point (S1 and S2 combine before addition of storm water return)	Hydrocarbon oil index (HOI)	10 mg/l	composite sample	Once every day	EN ISO 9377-2
		Free cyanide (CN ⁻)	0.1 mg/l			EN ISO 14403-1 or EN ISO 14403-2
		Adsorbable organically bound halogens (AOX)	1 mg/l			EN ISO 9562
		Arsenic (As)	0.1 mg/l	Spot sample or flow-proportional composite sample	Once every day	EN ISO 11885, EN ISO 17294-2 or EN ISO 15586
		Cadmium (Cd)	0.1 mg/l			
		Chromium (Cr)	0.3 mg/l			
		Copper (Cu)	0.5 mg/l			
		Lead (Pb)	0.3 mg/l			
		Nickel (Ni)	1 mg/l			
		Zinc (Zn)	2 mg/l			
		Mercury (Hg)	10 µg/l	Spot sample or flow-proportional composite sample	Once every day	EN ISO 17852 or EN ISO 12846
		Manganese (Mn)	--			EN ISO 11885, EN ISO 17294-2 or EN ISO 15586
		Hexavalent chromium (Cr(VI))	0.1 mg/l			EN ISO 10304-3 or EN ISO 23913
		PFOA and PFOS	--			Once every six months

Note 1 – Monitoring and limits only apply where the substance concerned is identified as relevant in the waste water inventory as determined by improvement condition IC25a and IC25b.

Note 2 – Monitoring frequency as specified unless the Environment Agency has agreed in writing other alternative appropriate monitoring frequencies.

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Digester feed (digestion process)	pH	As described in site operating techniques	As described in site operating techniques	Process monitoring to be recorded using a SCADA system where relevant.
	Alkalinity			
	Temperature			
	Hydraulic loading rate			
	Organic loading rate			
	Volatile fatty acids concentration			
	Ammonia			
Liquid /foam level				
Biogas in digester & biogas storage holders	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	
Digestate batch	Volatile fatty acids concentration	One sample at the end of each batch (hydraulic retention time) cycle.	As described in site operating techniques	--
	Ammonia			
Digesters and storage tanks	Integrity checks	Weekly	Visual assessment	In accordance with design specification and tank integrity checks.
Digesters	Agitation /mixing	Continuous	Systems controls	Records maintained in daily operational records.
	Tank capacity and sediment assessment	Once every 5 years from date of commission	Non-destructive pressure testing integrity assessment every 5 years or as specified	In accordance with design specification and tank integrity checks.

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
			by manufacturers technical specification.	
Waste reception building or area; Digesters and storage tanks	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.
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	'Sniffing' and/or Optical Gas Imaging techniques in accordance with BS EN 15446 & BS EN 17628	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.
CHP engine stack (emission point A6)	VOCs including methane	Annually	BS EN 12619	Total annual VOCs emissions from the CHP engine to be calculated and submitted to the Environment Agency.
	Exhaust gas temperature		Traceable to National Standards	--
	Exhaust gas pressure		Traceable to National Standards	--
	Exhaust gas water vapour content		BS EN 14790-1	Unless gas is dried before analysis of emissions.
	Exhaust gas oxygen		BS EN 14789	--
	Exhaust gas flow		BS EN 16911-1	--
Meteorological conditions	Wind speed, air temperature, wind direction	Continuous	Method as specified in management system	Conditions to be recorded in operational diary and records. Equipment shall be calibrated on a 4 monthly basis,

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
				in accordance with manufacturer's recommendations or as agreed in writing by the Environment Agency.
Emergency flare (emission point A3)	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, pollutant emissions.
Pressure relief valves and vacuum systems (emission point A1, A2a, A2b, A2c)	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.

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
	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
Storage tanks	Volume	Daily	Visual or flow meter measurement	Records of volume must be maintained.

Table S3.4 Process monitoring requirements – odour abatement				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Carbon filters				
Carbon filter (emission point A4)	Carbon bed temperature – inlet and outlet	Continuous	Temperature probe	Odour abatement plant shall be managed in accordance with permit condition 3.3, the odour management plan and
	Gas flow rate – inlet and outlet	Continuous	Gas flow meter	
	Moisture or humidity	Daily	Moisture meter	

Table S3.4 Process monitoring requirements – odour abatement				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
	Back pressure	Weekly	Recognised industry method	manufacturer's recommendations.
	Efficiency assessment	Annual	Emission removal efficiency (BS EN 13725 for odour removal)	Carbon filter(s) to be replaced in accordance with manufacturer's recommendations. Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency.
	Hydrogen sulphide – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	CEN TS 13649 for sampling NIOSH 6013 for analysis	Action levels to be agreed on completion of IC28 as approved in writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
	Ammonia – inlet	Every 6 months or as agreed in writing by the Environment Agency.	EN ISO 21877	Action levels to be agreed on completion of IC 28 as approved in writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
	Odour concentration – inlet and outlet gas stream	Every 6 months or as agreed in writing by the	BS EN 13725	Action levels to be agreed on completion of IC28 as approved

Table S3.4 Process monitoring requirements – odour abatement				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
		Environment Agency.		in writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
Catalytic iron filters				
Catalytic iron filter (emission point A4)	Catalyst bed temperature	Daily	Temperature probe	Odour abatement plant shall be regularly checked and maintained to ensure appropriate temperature and moisture content. Odour abatement plant shall be managed in accordance with permit condition 3.3, the odour management plan and manufacturer's recommendations. Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency.
	Gas temperature – inlet and outlet	Continuous	Temperature sensor or temperature probe	
	Gas moisture or humidity	Daily	Moisture meter or humidity sensor	
	Pressure drop across the catalyst bed	Weekly [Note 1]	Pressure gauges or differential pressure sensors	
	Gas flow rate – inlet	Continuous and weekly checks for calibration accuracy	Gas flow meter	
	Oxygen concentration - inlet	Continuous and daily checks		
	Sulphur deposition	Monthly		
	Sulphur deposition analysis	Every 6 months or as agreed in writing by the Environment Agency		
	Catalyst activity	Every 3 months or as agreed in writing by the Environment Agency		
Efficiency assessment	Annual	Air-flow distribution and emission removal efficiency (BS EN 13725 for		

Table S3.4 Process monitoring requirements – odour abatement				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
			odour removal)	
	Hydrogen sulphide – inlet and outlet gas stream	Daily or as agreed in writing by the Environment Agency.	Gas analysers or as agreed in the odour management plan and approved by the Environment Agency	Action levels to be agreed on completion of IC28 as approved in writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
	Odour concentration – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	BS EN 13725	Action levels to be agreed on completion of IC28 as approved in writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour management plan.
	Ammonia – inlet	Monthly or as agreed in writing by the Environment Agency.	Gas analysers calibrated for ammonia detection or as agreed in the odour management plan and approved by the Environment Agency	Action levels to be agreed on completion of IC28 as approved in writing by the Environment Agency. Action levels to be achieved in accordance with permit condition 3.2 and the odour

Table S3.4 Process monitoring requirements – odour abatement				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
				management plan.
Note 1 – An additional pressure drop monitoring check shall also be completed after maintenance or after operational changes.				

Table S3.5 Emissions to sewer, effluent treatment plant or other transfers off-site – Monitoring points			
Effluent(s) and discharge point(s)	Monitoring type	Monitoring point NGR	Monitoring point reference
Point S4 on site plan in Schedule 7, emission to River Irwell via Bury Waste water treatment works	Effluent monitoring	SD 80170 07738	Point S4 [Discharge to Bury WwTW] in Schedule 7.
Point S9 on site plan in Schedule 7, emission to River Irwell via Bury Waste water treatment works	Effluent monitoring	SD 80119 07847	Point S9 [Discharge to Bury WwTW] in Schedule 7.

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air from CHP engine, boilers and emergency flare Parameters as required by condition 3.5.1.	A3, A5a, A5b, A6	Every 12 months	1 January
Emissions to air from odour abatement plant Parameters as required by condition 3.5.1.	A4	Every 6 months	1 January, 1 July
Emissions to air from abatement systems for waste gas treatment plant Reporting only applies where the substance concerned is identified as relevant in the waste gas inventory IC28 Parameters as required by condition 3.5.1.	A4	Every 6 months	1 January, 1 July
Emissions to sewer Parameters as required by condition 3.5.1	S4 and S9	Upon completion of IC25a and IC25b	Upon completion of IC25a and IC25b
Process monitoring – digester tank integrity Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	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 S3.3	Every 12 months Yearly summary report of over-pressure and under-pressure events detailing mass balance release	1 January
Process monitoring – pressure relief systems - leak detection and repair (inspection, calibration and maintenance) Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	Every 3 years	1 January
Process monitoring – leak detection and repair surveys Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	Every 12 months LDAR report to be submitted annually	1 January

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Process monitoring – use of emergency flare Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.3	Every 12 months	1 January
Non-compostable contamination removal efficiency Parameters as required by conditions 2.3.4 and 2.3.7	--	Every 12 months Yearly report of detailing contamination removal efficiency and progress with plastic reduction contamination	1 January
Total annual VOCs emissions from gas engine (calculated)	As specified in schedule 3 table S3.3	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Electricity generated	MWh
Liquid digestate	m ³
Solid digestate	tonnes
Recovered outputs	tonnes or m ³

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes or m ³
Energy usage	Annually	MWh
Raw material usage	Annually	tonnes or m ³
Emergency flare operation	Annually	hours
CHP engine usage	Annually	hours
CHP engine efficiency	Annually	%
Auxiliary boiler usage	Annually	hours

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021
Process monitoring	Form process 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	V1, 08/03/2021
Waste returns	E-waste Return Form or other form as agreed in writing by the Environment Agency	--

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

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

Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

“anaerobic digestion” means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobes and facultative anaerobe bacteria species, which convert the inputs to a methane-rich biogas and whole digestate.

“animal waste” means any waste consisting of animal matter that has not been processed into food for human consumption.

“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.

“appropriate abatement system” means the appropriate treatment technique for channelled emissions to air defined in 6.6.1 ‘Channelled emissions to air’ from the ‘Best Available Techniques (BAT) Reference Document for Waste Treatment’.

“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.

“Best available techniques” means the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing the basis for emission limit values and other permit conditions designed to prevent and, where that is not practicable, to reduce emissions and the impact on the environment as a whole:

(a) ‘techniques’ includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned;

(b) ‘available techniques’ means those developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the costs and advantages, whether or not the techniques are used or produced inside the Member State in question, as long as they are reasonably accessible to the operator;

(c) ‘best’ means most effective in achieving a high general level of protection of the environment as a whole.

“Biodegradable” means a material is capable of undergoing biological anaerobic or aerobic degradation leading to the production of CO₂, H₂O, methane, biomass, and mineral salts, depending on the environmental conditions of the process.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“BREF” means Best Available Techniques (BAT) Reference Document.

“Capacity” means the potential capacity and not historical or actual production levels or throughput. This means that the designed capacity is the maximum rate at which the site can operate. Biological treatment of waste usually takes place over more than one day, so the physical daily capacity can be calculated by dividing the maximum quantity of waste that could be subject to biological treatment at any one time by the minimum residence time. For in-vessel composting, the residence time for sanitisation should be calculated separately and then aggregated to the complete composting time. Further guidance [‘RGN2: Understanding the meaning of regulated facility Definition of regulated facility’](#) is available.

“channelled emissions” means the emissions of pollutants into the environment through any kind of duct, pipe, stack, etc. This also includes emissions from open top biofilters.

“combined heat and power” (CHP) or Cogeneration means the simultaneous generation in one process of thermal energy and electrical or mechanical energy.

“competent persons and resources” means that a technically competent person accredited to a relevant scheme must attend site and record their attendance, and that all roles and responsibilities are clearly stated in the management systems along with records of operatives’ training. See the guidance on the [level of competence and duration of attendance](#)

“compost” means solid particulate material that is the result of composting, which has been sanitised and stabilised, and which confers beneficial effects when added to soil, used as a component of growing media or used in another way in conjunction with plants.

“direct discharge” means discharge to a receiving water body.

“diffuse emissions” mean non-channelled emissions (e.g. of dust, organic compounds, odour) which can result in ‘area’ sources (e.g. tanks) or ‘point’ sources (e.g. pipe flanges). This also includes emissions from open-air windrow composting.

“digestate” means material resulting from an anaerobic digestion process.

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

“DSEAR” means the Dangerous Substances and Explosive Atmospheres Regulations 2002.

“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.

“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.

“existing medium combustion plant” means an MCP which was put into operation before 20 December 2018.

“generator” means any combustion plant which is used to generate electricity, excluding mobile, unless it is connected to the national grid.

“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.

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“Indirect discharge” means a discharge to a sewer or off-site waste water treatment plant.

“Industrial Emissions Directive” and/or “IED” 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.

“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.

“new medium combustion plant” means an MCP which was put into operation after 20 December 2018. This includes replacement MCP and Generators.

“operational area” means any part of a facility used for the handling, storing and treatment of waste.

“operator” means in relation to a regulated facility:

- (a) the person who has control over the operation of the regulated facility,
- (b) if the regulated facility has not yet been put into operation, the person who will have control over the regulated facility when it is put into operation, or
- (c) if a regulated facility authorised by an environmental permit ceases to be in operation, the person who holds the environmental permit

“pests” means Birds, Vermin and Insects.

“PFOA” means Perfluorooctanoic acid.

“PFOS” means Perfluorooctanesulphonic acid.

“pollution” means emissions as a result of human activity which may—

- (a) be harmful to human health or the quality of the environment,
- (b) cause offence to a human sense,
- (c) result in damage to material property, or
- (d) impair or interfere with amenities and other legitimate uses of the environment.

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

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

“sealed drainage system” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged to foul sewer.

“specified generator” means a group of generators other than excluded between 1 and 50 megawatts or less than 50 megawatts as defined in Schedule 25B(2) of SI 2018 No.110 of the EPR.

“VOC” means Volatile organic compounds as defined in Article 3(45) of Directive 2010/75/EU – ‘volatile organic compound’ means any organic compound as well as the fraction of creosote, having at 293.15K a vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.

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

“Waste Framework Directive” and/or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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:

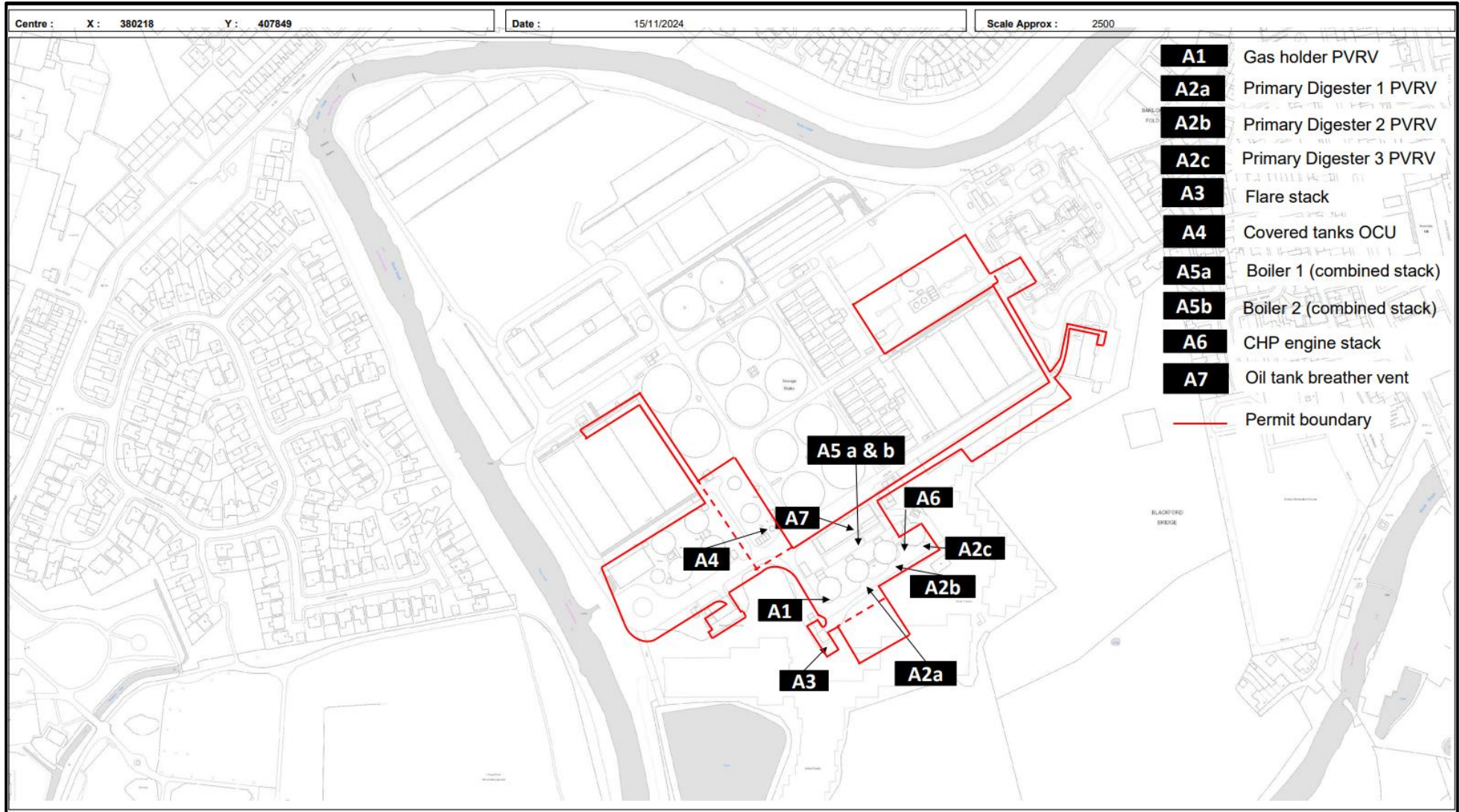
- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid fuels and gaseous fuels, 6% dry for solid fuels; and/or

- 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.

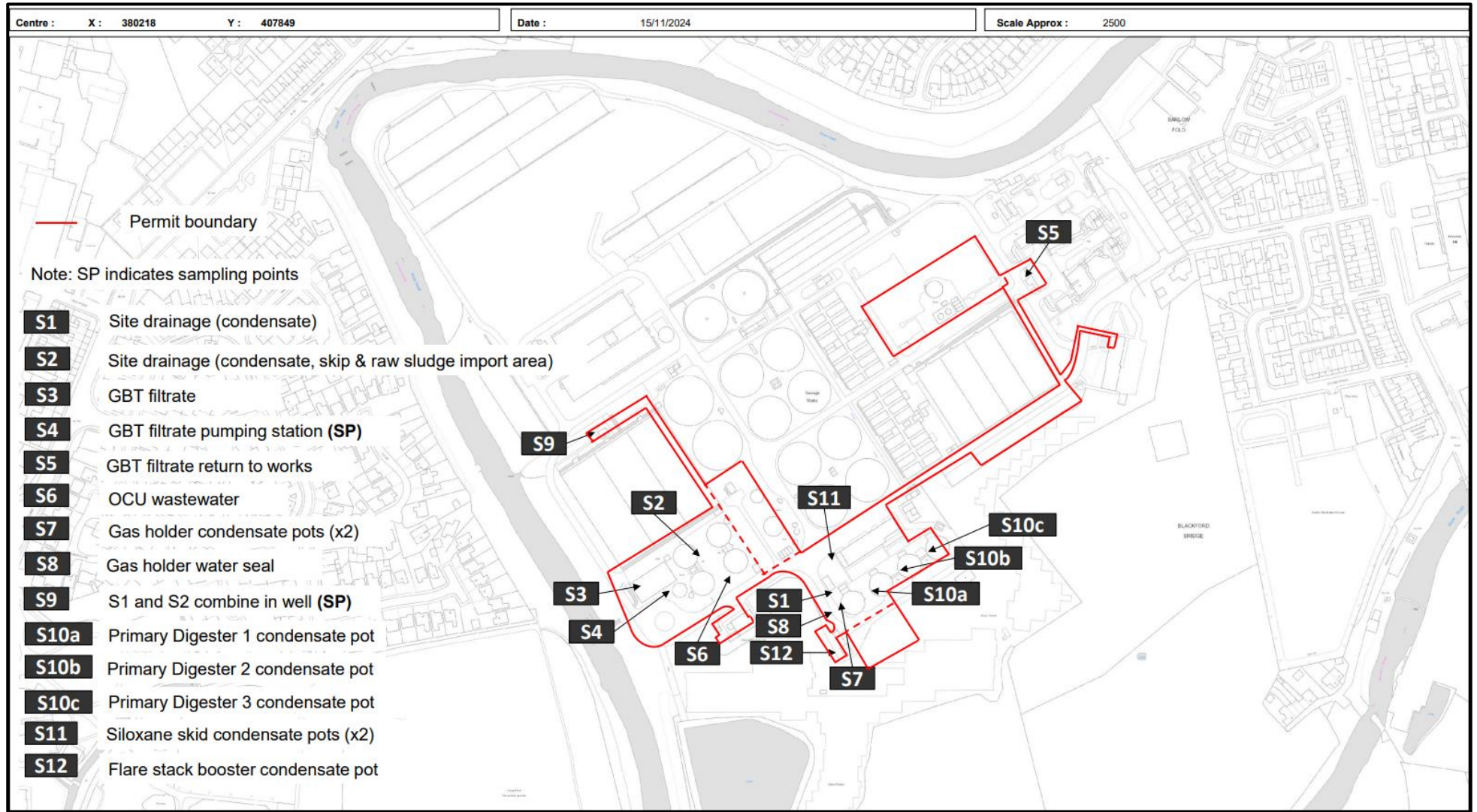
“year” means a calendar year ending on 31 December.

Schedule 7 – Site plan

Site plan – emission points to air



Site plan – emission points to sewer



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END OF PERMIT