

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Severn Trent Water Limited
Scunthorpe Sewage Treatment Plant
Scotter Road South
Bottesford
Scunthorpe
DN17 2BU

Variation application number

EPR/ZP3598EY/V002

Permit number

EPR/ZP3598EY

Scunthorpe Sewage Treatment Plant

Permit number EPR/ZP3598EY

Introductory note

This introductory note does not form a part of the notice.

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.

The Industrial Emissions Directive (IED) was transposed in England and Wales by the Environmental Permitting (England and Wales) (Amendment) Regulations 2013 on 27 February 2013. This variation implements the changes brought about by the IED for “existing facilities operating newly prescribed activities” and completes the transition of this facility from a waste operation to an IED Installation.

Scunthorpe STW is located approximately 4 km to the south west of Scunthorpe. The site treats the sewage of domestic customers, trade waste and accepts waste from smaller, lower capacity sewage treatment works.

Waste is imported by Severn Trent where it will undergo one of three treatment processes:

Anaerobic digestion (AD)

Both indigenous Urban Waste Water Treatment Directive (UWWTD) derived sludge (from the waste water treatment works on site) and imported waste can be accepted directly in to an anaerobic co-digestion treatment process. This permit only covers the imported waste, the indigenous UWWTD sludge is controlled by separate regulations. Therefore the quantities and waste types permitted by this permit only apply to imported waste. This biological treatment of this waste is regulated as an installation activity, S5.4 A (1) (b) (i).

Following approval by the operator, liquid/sludge waste is discharged into a mixing/holding tank. Waste is transferred to one of two primary digesters (5,000m³ total capacity) where it undergoes anaerobic treatment typically for 12 days. The biogas produced is captured and transferred to a gas storage bag.

Biogas is combusted in one 2.09MW CHP engine. The CHP engine runs on biogas only. The heat and power produced is either used on site or is exported to the grid.

Two dual fuel boilers are also present on site and an auxiliary flare stack burns biogas which cannot be handled by the engines or boilers.

Following the primary digesters the digestate is stored in one of six tanks where sludge remains for up to 14 days. The purpose of these secondary holding tanks is to ensure the required pathogen kill has been achieved. This secondary holding can be bypassed with the aforementioned pathogen elimination being achieved on the cake pad, after dewatering has taken place. Once the sludge is fully treated, it is sent to two buffer feed tanks before being mixed with a polymer coagulant and dewatered by one belt press and one centrifuge. The supernatant liquor is directed back to the head of the STW for aerobic treatment. The sludge cake is transferred to a cake pad where it is conditioned to achieve pathogen kill.

Any liquid, site drainage or condensate produced is directed to the head of the STW.

Aerobic treatment (Waste operation)

Waste can be discharged directly in to the pipeline at the head of the sewage treatment works. The waste will undergo aerobic treatment under the UWWTD. The biological treatment of this waste is not regulated by this permit, only its import. The final effluent released by the STW is regulated under a separate discharge consent.

Dewatering (Waste operation)

Digested sludge can be imported for dewatering purposes. It shares the same facilities as the AD treatment process following the digestion of the waste.

Key sensitive receptors include nearby settlements, the closest residential dwellings approximately 600m from the northern boundary of the installation. There are no Air Quality Management Areas (AQMAs) within 2km of the site. Bottesford Beck is situated approximately 0.1km north of the site boundary, flowing into the River Trent approximately 5km west of the site.

As there are human sensitive receptors within 250 m of the sludge cake storage area bioaerosols monitoring is required as part of an improvement condition.

The operator has an EMS to ISO 14001 (Certificate E4230).

The schedules specify the changes made to the permit.

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

Status log of the permit for EPR/ZP3598EY		
Description	Date	Comments
Application EPR/ZP3598EY (formerly EAWML 100422)	27/03/08	
Permit determined	17/11/08	
Received notification of change of company registered office address	29/09/10	
Issue of updated permit pages to show change of company registered office address	14/10/10	
Variation application received EPR/ZP3598EY/V002	Duly made 30/09/14	Application to vary and update the permit to modern conditions.
Additional information received	31/07/17	H1 assessment comparing emissions from the new CHP engine with the old engine setup.
Additional information received	14/08/17	Information related to the emissions to air screening for the new CHP engine.
Variation determined EPR/ZP3598EY (Billing ref: FP3632WL)	20/12/17	Varied and consolidated permit issued in modern condition format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/ZP3598EY

Issued to

Severn Trent Water Limited (“the operator”)

whose registered office is

**Severn Trent Centre
2 St. John's Street
Coventry
CV1 2LZ**

company registration number 02366686

to operate a regulated facility at

**Scunthorpe Sewage Treatment Plant
Scotter Road South
Bottesford
Scunthorpe
DN17 2BU**

to the extent set out in the schedules.

The notice shall take effect from 20/12/2017

The number of the consolidated permit is EPR/ZP3598EY.

Name	Date
Rebecca Warren	20/12/2017

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/ZP3598EY

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/ZP3598EY/V002 authorising,

Severn Trent Water Limited ("the operator"),

whose registered office is

Severn Trent Centre

2 St. John's Street

Coventry

CV1 2LZ

company registration number 02366686

to operate an installation and waste operations at

Scunthorpe Sewage Treatment Plant

Scotter Road South

Bottesford

Scunthorpe

DN17 2BU

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

Name	Date
Rebecca Warren	20/12/2017

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 For the following activities referenced in schedule 1, table S1.1, A1 to A11, 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 For the following activities referenced in schedule 1, table S1.1, A1 to A11, 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 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 green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.2, S2.3, S2.4 and S2.5; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 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.

2.4 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 table S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

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

3.4 Noise and vibration

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

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in table S3.1 and S3.2;
 - (b) process monitoring specified in table S3.3.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

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

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

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

4.2 Reporting

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

4.2.2 For the following activities referenced in schedule 1, table S1.1, A1 to A11, 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.

4.3 Notifications

- 4.3.1 For the following activities referenced in schedule 1, table S1.1, A1 to A11, 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 For the following activities referenced in schedule 1, table S1.1, A12 and A13, the Environment Agency shall be notified without delay following the detection of:
- (a) 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;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.5 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.
- 4.3.6 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:
- (c) any change in the operator's name or address; and
 - (d) any steps taken with a view to the dissolution of the operator.

In any other case:

- (e) the death of any of the named operators (where the operator consists of more than one named individual);
 - (f) any change in the operator's name(s) or address(es); and
 - (g) 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.
- 4.3.7 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.
- 4.3.8 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

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 For the following activities referenced in schedule 1, table S1.1, A1 to A11, 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.
- 4.4.3 For the following activities referenced in schedule 1, table S1.1, A12 and A13, in this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", 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
A1	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	From receipt of waste from blending and mixing tanks (A3) through to digestion and recovery of by-products (digestate). Anaerobic digestion of waste in 2 primary digestion tanks followed by burning of biogas produced from the process. Waste types suitable for acceptance are limited to those specified in Tables S2.2, S2.3 and S2.4.
Directly Associated Activity			
A2	Storage of waste	R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Storage of non-hazardous imported tankered waste to despatch for blending and mixing. Waste types suitable for acceptance are limited to those specified in Tables S2.2, S2.3 and S2.4.
A3	Blending and mixing of imported waste prior to recovery	R3: Recycling/ reclamation of organic substances which are not used as solvents	From the receipt of non-hazardous waste to despatch for anaerobic digestion (A1) for recovery. Blending and mixing of imported tankered waste with UWWTD derived sludge from within the works in tanks on an impermeable surface with sealed drainage. Waste types suitable for acceptance are limited to those specified in Tables S2.2, S2.3 and S2.4.
A4	Digestate storage	R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Storage of digestate produced at the on-site anaerobic digestion process in 6 storage tanks on an impermeable surface with sealed drainage system prior to treatment.
A5	Digestate treatment	R3: Recycling/ reclamation of organic substances which are not used as solvents	Treatment of digestate in 2 tanks on an impermeable surface with sealed drainage system, including screening to remove contraries, centrifugation or pressing and addition of thickening agents (polymers) or drying.

Table S1.1 activities			
A6	Treatment and storage of digestate cake	R3: Recycling/ reclamation of organic substances which are not used as solvents R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Storage and treatment of digestate cake on an impermeable surface with sealed drainage system, including mixing with lime, if necessary, to achieve pathogen kill prior to despatch off site.
A7	Gas treatment and storage	Treatment and storage of biogas produced from on-site anaerobic digestion of permitted waste in a gas storage bag.	Storage of biogas produced at the on-site anaerobic digestion process. Gas cleaning by biological or chemical scrubbing prior to use within the facility if required.
A8	Steam and electrical power supply	R1: Use principally as a fuel to generate energy	From the receipt of biogas produced at the on-site anaerobic digestion process to combustion with the release of combustion gases. Combustion of biogas produced at the on-site anaerobic digestion process in 1 combined heat and power (CHP) engine with an aggregated thermal input not exceeding 2.09 MWth. Combustion of biogas in 2 auxiliary dual fuel boilers with an aggregated thermal input not exceeding 1.5 MWth.
A9	Auxiliary flare operation	D10: Incineration on land	From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases. Use of auxiliary flare required only during periods of breakdown or maintenance of the CHP engines and/or auxiliary boilers.
A10	Raw material storage	Storage of raw materials: fuel oil, lubrication oil, water treatment chemicals, glycol, polymer (dry powder), ferrous chloride, ferric sulphate, antifoam, and lime.	From the receipt of raw materials to despatch for use within the facility
A11	Surface water collection	Collection of site surface and process water/liquor.	The collection of site surface and process water/liquor for re-use within the facility or transfer to the head of the sewage treatment works.

Table S1.1 activities		
Activity reference	Description of activities for waste operations	Limits of activities
A12	D13: Blending or mixing prior to submission to any of the operations numbered D1 to D12	Deposit of imported tankered waste to the head of the sewage treatment works pending aerobic treatment at the sewage treatment works. Waste types suitable for acceptance are limited to those specified in Tables S2.2, S2.3 and S2.4.
A13	R3: Recycling/reclamation of organic substances which are not used as solvents R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of digested sludge to dispatch off site for recovery. Treatment of digestate on an impermeable surface with sealed drainage system, including screening to remove contraries, maceration, centrifugation, or pressing and addition of thickening agents (polymers) or drying and, if necessary, mixing with lime to achieve pathogen kill. Waste types suitable for acceptance are limited to those specified in Table S2.5

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/ZP3598EY (formerly EAWML 100422)	Working Plan	09/04/08
Application EPR/ZP3598EY/V002	Part C3 - Section 3a (technical standards). Part C3 – Section 3d, Table 6 (information of specific sectors)	30/09/14
Further information submitted for application EPR/ZP3598EY/V002	Severn Trent Water's waste acceptance procedures document ' <i>Standard Procedure, Business Services – Tankered Trade Waste (TTW)</i> ', dated Jan 2016 (Ref TWSS004 TTW Approval Process v3) or subsequent variations as agreed in writing with the Environment Agency.	12/02/16

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>The operator shall revise their waste <i>acceptance procedures</i> as referred to in Table S1.2 of this permit and submit it to the Environment Agency for approval. The procedures shall detail 3 levels of assessment for determining if a waste is suitable to be accepted into the anaerobic digestion treatment process. The 3 levels of assessment shall refer to:</p> <ul style="list-style-type: none"> • 'Group A wastes' - as listed in Table S2.2 of this permit; • 'Group B wastes' - as listed in Table S2.3 of this permit; • 'Group C wastes' - as listed in Table S2.4 of this permit. <p>The revised procedures shall take in to account the requirements of:</p> <ul style="list-style-type: none"> • sections 2.1.1 and 2.1.2 of <i>Sector Guidance Note IPPC S5.06 – Guidance for the Treatment of Hazardous and Non-Hazardous Waste</i>; and • <i>How to comply with your environmental permit, Additional Guidance for: Anaerobic Digestion – Reference LIT8737 – Report Version 1.0, November 2013.</i> • <i>Framework for Assessing Suitability of Wastes Going to Anaerobic Digestion, Composting and Biological Treatment – Framework Guidance note, July 2013.</i> <p>Once approved the procedures shall be incorporated in to the document '<i>Standard Procedure, Business Services – Tankered Trade Waste (TTW)</i>' referred to in Table S1.2 (operating techniques) of this permit.</p>	20/01/18
IC2	<p>The operator shall submit an odour management plan to the Environment Agency for written approval. The plan shall take into account the appropriate measures for odour control specified in section 2.2.6 of Sector Guidance Note IPPC S5.06 – <i>Guidance for the Treatment of Hazardous and Non-Hazardous Waste</i>. The plan shall also incorporate all the required detailed information as specified in the Environment Agency's Horizontal Guidance H4 – <i>Odour Management</i>.</p> <p>The plan must contain dates for implementation of individual measures.</p>	31/03/18
IC3	<p>The Operator shall submit a drainage plan to the Environment Agency. The plan shall detail surface water drainage and process water drainage, including imported effluent pipelines (details of the UWWT process are not necessary)</p>	31/03/18
IC4	<p>The Operator shall submit proposals to undertake representative monitoring of ambient air to determine if bioaerosols (total bacteria and <i>Aspergillus Fumigatus</i>) are released from digestate cake treatment and storage areas. The monitoring shall be carried out in accordance with Technical Guidance Note M9 – Environmental monitoring of bioaerosols at regulated facilities.</p> <p>The Operator shall carry out the monitoring in accordance with the Environment Agency's written approval.</p>	20/06/18

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC5	<p>The Operator shall submit a report to the Environment Agency for approval that includes the results, analysis, reporting and interpretation of the monitoring, required by IC4, in accordance with Technical Guidance Note M9 – Environmental monitoring of bioaerosols at regulated facilities.</p> <p>Where bioaerosol threshold limits are likely to be exceeded at sensitive receptors the Operator shall include in the report:</p> <ul style="list-style-type: none"> (a) Proposals for appropriate measures to mitigate the impact of bioaerosol emissions including emissions limits and monitoring and dates for implementation of individual measures; (b) Proposals for ongoing monitoring of bioaerosols in ambient air. 	3 months from completion of monitoring as per IC4

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel oil	Sulphur content not exceeding 0.1% by mass.

Table S2.2 Permitted waste types and quantities for anaerobic digestion (Group A)	
Maximum quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning – food processing waste, food washing waste
02 01 02	animal-tissue waste including blood, animal flesh, fish processing waste, fish carcasses, poultry waste
02 01 03	plant-tissue waste including husks, cereal dust, waste animal feeds, off-cuts from vegetable and fruit and other vegetation waste
02 01 06	animal faeces, urine and manure including spoiled straw
02 01 07	wastes from forestry
02 01 99	residues from commercial mushroom cultivation
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 01	sludges from washing and cleaning, process water, food washing waste
02 02 02	animal-tissue waste including blood, animal flesh, fish processing waste, fish carcasses, poultry waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 02 99	sludges from gelatine production, animal gut contents
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 03 99	sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only

Table S2.2 Permitted waste types and quantities for anaerobic digestion (Group A)	
Maximum quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
02 04	wastes from sugar processing
02 04 03	sludges from on-site effluent treatment
02 04 99	other wastes
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing including solid and liquid dairy products, milk, food processing wastes, yoghurt, whey
02 05 02	sludges from on-site effluent treatment
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing including condemned food, food processing wastes, biscuits, chocolate, yeast, bread, bakery wastes
02 06 03	sludges from on-site effluent treatment
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials including brewing waste, food processing waste, fermentation waste
02 07 02	wastes from spirits distillation including spent grains, fruit and potato pulp, sludge from distilleries
02 07 04	materials unsuitable for consumption or processing including brewing waste, food processing waste, fermentation waste, beer, alcoholic drinks, fruit juice
02 07 05	sludges from on-site effluent treatment
02 07 99	spent grains, hops and whisky filter sheets/cloths, yeast and yeast-like residues, sludge from production process
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 01	Wastes from wood processing and the production of panels and furniture
03 01 01	Untreated waste bark and cork
03 01 05	Untreated sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 02	green liquor sludge
03 03 08	paper and cardboard – not allowed if any non-biodegradable coating or preserving substance is present
03 03 10	Fibre rejects, fibre-, filler- and coating-sludges from mechanical separation (de-inked only)
03 03 11	Sludges from on-site effluent treatment other than those mentioned in 03 03 10 (Only allowed if not mixed with, or does not contain, de-inking sludge)

Table S2.2 Permitted waste types and quantities for anaerobic digestion (Group A)	
Maximum quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
04	Wastes from the leather, fur and textile industries
04 01	wastes from the leather and fur industry
04 01 01	fleshings and lime split wastes
04 01 05	tanning liquor free of chromium
04 01 07	sludges not containing chromium
04 02	wastes from the textile industry
04 02 10	organic matter from natural products, e.g. grease, wax
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging – not allowed if any non-biodegradable coating or preserving substance is present
15 01 02	biodegradable plastic packaging – must be independently certified to BS EN 13432
15 01 03	Untreated wooden packaging – not allowed if any non-biodegradable coating or preserving substance is present
15 01 05	composite packaging – must conform to BS EN 13432 and not allowed if any non-biodegradable coating or preserving substance is present
16	Wastes not otherwise specified in the list
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	liquor/leachate from a composting process that accepts waste input types listed in this table, Table S2.2, only
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 03	waste types listed in this table, Table S2.2, that have been mixed together only
19 02 06	sludge types from waste listed in this table, Table S2.2, that have been heat treated only
19 02 10	glycerol not designated as hazardous i.e. excludes EWC code 19 02 08
19 05	Wastes from the aerobic treatments of wastes
19 05 01	Non-composted fraction of municipal and similar wastes (Acceptable only if derived solely from input types allowed by this table, Table S2.2, and remains segregated from, and uncontaminated by, any other waste type)
19 05 02	Non-composted fraction of animal and vegetable waste (Acceptable only if derived solely from input types allowed by this table, Table S2.2, and remains segregated from, and uncontaminated by, any other waste type)
19 05 03	Off-specification compost (Acceptable only if derived solely from input types allowed by this table, Table S2.2, and remains segregated from, and uncontaminated by, any other waste type)

Table S2.2 Permitted waste types and quantities for anaerobic digestion (Group A)	
Maximum quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
19 06	wastes from anaerobic treatment of waste
19 06 03	liquor from anaerobic treatment of municipal waste (from a process that treats wastes which are listed in this table, Table S2.2, only)
19 06 04	digestate from anaerobic treatment of source segregated biodegradable waste (from a process that treats wastes which are listed in this table, Table S2.2, only)
19 06 05	liquor from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table, Table S2.2, only)
19 06 06	digestate from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table, Table S2.2, only)
19 08	wastes from waste water treatment plants not otherwise specified
19 08 01	screenings
19 08 02	sewage grit (waste from de-sanding) only
19 08 05	sludges from treatment of urban waste water
19 08 09	grease and oil mixture containing edible oils and fats
19 08 12	sludges from industrial biological treatment
19 08 99	Centrate liquor only
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 09 06	solutions and sludges from regeneration of ion exchangers
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	waste types listed in this table, Table S2.2, that have been subjected to mechanical treatment only
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard – not allowed if any non-biodegradable coating or preserving substance is present. Excludes laminates such as Tetrapaks.
20 01 08	kitchen and canteen waste
20 01 25	edible oil and fat
20 01 38	untreated wood where no non-biodegradable coating or preserving substance is present
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste

Table S2.2 Permitted waste types and quantities for anaerobic digestion (Group A)	
Maximum quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
20 03	other municipal wastes
20 03 01	mixed municipal waste – separately collected biowastes
20 03 02	waste from markets – allowed only if source segregated biodegradable fractions e.g. plant material, fruit and vegetables
20 03 04	septic tank sludge
20 03 06	waste from sewage cleaning
20 03 99	cesspool waste and other sewage sludge only

Table S2.3 Permitted waste types and quantities for anaerobic digestion (Group B)	
Maximum Quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 02	wastes from preserving agents
02 05	wastes from the dairy products industry
02 05 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances that will inhibit biological treatment e.g. EA emergency spillage containment
02 06	wastes from the baking and confectionery industry
02 06 02	wastes from preserving agents
02 06 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment e.g. Interceptor waste
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 03	wastes from chemical treatment
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 03	wastes from pulp, paper and cardboard production and processing
03 03 05	de-inking sludges from paper recycling
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 99	wastes not otherwise specified – Washwaters not containing substances at levels that will inhibit biological treatment e.g. from plant cleaning
04	Wastes from the leather, fur and textile industries
04 01	wastes from the leather and fur industry
04 01 09	wastes from dressing and finishing
04 01 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment e.g. Interceptor waste
04 02	wastes from the textile industry
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19
04 02 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
06	Wastes from inorganic chemical processes
06 05	sludges from on-site effluent treatment
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02

Table S2.3 Permitted waste types and quantities for anaerobic digestion (Group B)	
Maximum Quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
07	Wastes from organic chemical processes
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
08	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks
08 03	wastes from MFSU of printing inks
08 03 07	aqueous sludges containing ink
08 03 08	aqueous liquid waste containing ink
08 03 15	ink sludges other than those mentioned in 08 03 14
16	Wastes not otherwise specified in the list
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 15	antifreeze fluids other than those mentioned in 16 01 14
16 03	off-specification batches and unused products
16 03 06	organic wastes other than those mentioned in 16 03 05
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 06	wastes from anaerobic treatment of waste
19 06 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
19 07	landfill leachate
19 07 03	landfill leachate other than those mentioned in 19 07 02
19 08	wastes from waste water treatment plants not otherwise specified
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 30	detergents other than those mentioned in 20 01 29

Table S2.4 Permitted waste types and quantities for anaerobic digestion (Group C)	
Maximum Quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
01 05	drilling muds and other drilling wastes
01 05 04	freshwater drilling muds and wastes
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning
02 01 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 03	wastes from solvent extraction
02 03 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 04	materials unsuitable for consumption or processing
02 07 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment

Table S2.4 Permitted waste types and quantities for anaerobic digestion (Group C)	
Maximum Quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 01	wastes from wood processing and the production of panels and furniture
03 01 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
03 03	wastes from pulp, paper and cardboard production and processing
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	Wastes from the leather, fur and textile industries
04 02	wastes from the textile industry
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 15	wastes from finishing other than those mentioned in 04 02 14
05	Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal
05 01	wastes from petroleum refining
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 07	wastes from natural gas purification and transportation
05 07 02	wastes containing sulphur
06	Wastes from inorganic chemical processes
06 01	wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
06 02	wastes from the MFSU of bases
06 02 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
06 10	wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture
06 10 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment

Table S2.4 Permitted waste types and quantities for anaerobic digestion (Group C)	
Maximum Quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
07	Wastes from organic chemical processes
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 02 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 03 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
07 04	wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 04 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
07 05	wastes from the MFSU of pharmaceuticals
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment e.g. Materials unsuitable for sale
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 06 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment e.g. Materials unsuitable for sale
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
07 07 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment

Table S2.4 Permitted waste types and quantities for anaerobic digestion (Group C)	
Maximum Quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
08	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks
08 01	wastes from MFSU and removal of paint and varnish
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 01 20	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 01 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
08 03	wastes from MFSU of printing inks
08 03 13	waste ink other than those mentioned in 08 03 12
08 04	wastes from MFSU of adhesives and sealants (including water proofing products)
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
08 04 16	aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
10	Wastes from thermal processes
10 02	wastes from the iron and steel industry
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
11	Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
16	Wastes not otherwise specified in the list
16 05	gases in pressure containers and discarded chemicals
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 07	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 99	wastes not otherwise specified – Washwaters not containing substances at levels that will inhibit biological treatment

Table S2.4 Permitted waste types and quantities for anaerobic digestion (Group C)	
Maximum Quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
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 01	wastes from incineration or pyrolysis of waste
19 01 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 02 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
19 05	wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 06	wastes from anaerobic treatment of waste
19 06 03	liquor from anaerobic treatment of municipal waste
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	wastes from waste water treatment plants not otherwise specified
19 08 99	wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	wastes from soil and groundwater remediation
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07

Table S2.4 Permitted waste types and quantities for anaerobic digestion (Group C)	
Maximum Quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
Waste code	Description
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 99	other fractions not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment
20 03	other municipal wastes
20 03 02	waste from markets
20 03 03	street-cleaning residues – Aqueous fraction not containing substances at levels that will inhibit biological treatment
20 03 99	municipal wastes not otherwise specified – Aqueous process waters and washwaters not containing substances at levels that will inhibit biological treatment

Table S2.5 Permitted waste types and quantities for dewatering of digested sludge	
Maximum Quantity	Annual throughput of waste at the site (aggregated for all activities) shall not exceed 499,500 tonnes . (These quantities do not include indigenous UWWTD derived sludge from within Scunthorpe Sewage Treatment Plant)
Exclusions	Wastes which are not biodegradable shall not be accepted.
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 08	wastes from waste water treatment plants not otherwise specified
19 08 05	sludges from treatment of urban waste water
19 06	wastes from anaerobic treatment of waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	sludges from water clarification

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 as shown on site plan in Schedule 7	CHP engine [note 1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly average	Annual	BS EN 14792
		Sulphur dioxide	350 mg/m ³			BS EN 14791
		Carbon monoxide	1400 mg/m ³			BS EN 15058
		Total VOCs	1000 mg/m ³			BS EN 12619:2013
A2 as shown on site plan in Schedule 7	Auxiliary boiler	No parameter set	--	--	--	--
A3 as shown on site plan in Schedule 7	Auxiliary boiler	No parameter set	--	--	--	--
A4 as shown on site plan in Schedule 7	Auxiliary flare stack (low level burner) [note 2]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	150 mg/m ³	Hourly average	[note 3]	BS EN 14792
		Carbon monoxide	50 mg/m ³			BS EN 15058
		Total VOCs	10 mg/m ³			BS EN 12619:2013
A5 as shown on site plan in Schedule 7	Vent - Oil/Fuel Storage tank	No parameter set	--	--	--	--
Pressure relief valves	Digesters and digestate storage tanks	No parameter set	--	--	Record of operating hours or as otherwise agreed in writing with the Environment Agency	--
<p>Note 1 – These limits are based on normal operating conditions and load – temperature 0°C (273K); pressure: 101.3 kPa and oxygen: 5 per cent (dry gas). The measurement uncertainty specified in LFTGN08 v2 2010 shall apply.</p> <p>Note 2 – These limits are based on normal operating conditions and load – temperature 0°C (273K); pressure: 101.3 kPa and oxygen: 3 per cent (dry gas). The measurement uncertainty specified in LFTGN05 v2 2010 shall apply.</p> <p>Note 3 – Monitoring to be undertaken in the event the auxiliary 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>						

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	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
T1 on site plan in schedule 7 emission to head of Scunthorpe Sewage Treatment Works	No parameters set	Biogas filter condensate, boiler blowdown and uncontaminated surface water	No limit set	--	--	--

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
Biogas from Digesters	Flow	Continuous	In accordance with EU weights and measures Regulations or as otherwise agreed in writing with the Environment Agency	--
	Methane	Continuous	None specified	Gas monitors to be calibrated in accordance with manufacturer's recommendations
	Hydrogen sulphide	Continuous	None specified	--
Waste reception building; Digesters and storage tank(s)	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary
Digester and storage tank	Integrity checks	Weekly	Visual assessment	--

Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1 and A4	Every 12 months	1 January

Parameter	Units
Electricity generated	MWh
Whole digestate	tonnes
Liquid digestate	tonnes or m ³
Solid digestate	tonnes

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

Media/parameter	Reporting format	Date of form
Air	Form Air1 or other form as agreed in writing by the Environment Agency	20/12/17
Water usage	Form WaterUsage1 or other form as agreed in writing by the Environment Agency	20/12/17
Energy usage	Form Energy1 or other form as agreed in writing by the Environment Agency	20/12/17
Other performance indicators	Form Performance1 or other form as agreed in writing by the Environment Agency	20/12/17
Waste returns	E-waste Return Form	--

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.

“ADQP” means Anaerobic Digestion Quality Protocol

“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.

“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.

“bioaerosols threshold limits” means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the biowaste treatment operations, which are attributable to the biowaste treatment operations. The maximum acceptable concentrations are respectively 1000 and 500 CFU m⁻³ for total bacteria and *Aspergillus fumigatus*.

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

“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.

“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.

“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.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“Industry Standard Protocol” means “A standardised protocol for the monitoring of bioaerosols at open composting facilities” published by the Association for Organics Recycling and developed in conjunction with the Environment Agency.

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

“pests” means Birds, Vermin and Insects.

“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.

“treated wood” means any wood that has been chemically treated (e.g. to enhance or alter the performance of the original wood). Treatments may include penetrating oils, tar oil preservatives, water-borne preservatives, organic-based preservatives, boron and organo-metallic based preservatives, boron and halogenated flame retardants and surface treatments (including paint and varnish).

“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” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

“year” means calendar year ending 31 December.

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

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

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid fuels, 3% or 5% for 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.

Schedule 7 – Site plan



END OF PERMIT

Permit number
EPR/ZP3598EY/V002

Permit Number: EPR/ZP3598EY

Operator: Severn Trent Water Limited

**Facility: Scunthorpe Sewage
Treatment Plant**

Form Number: Air1/20/12/17

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

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	1 hour period		BS EN 14792		
	Sulphur dioxide	350 mg/m ³	1 hour period		BS EN 14791		
	Carbon monoxide	1400 mg/m ³	1 hour period		BS EN 15058		
	Total VOCs	1000 mg/m ³	1 hour period		BS EN 12619:2013		
A4	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	150 mg/m ³	1 hour period		BS EN 14792		
	Carbon monoxide	50 mg/m ³	1 hour period		BS EN 15058		
	Total VOCs	10 mg/m ³	1 hour period		BS EN 12619:2013		

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/ZP3598EY

Operator: Severn Trent Water Limited

**Facility: Scunthorpe Sewage
Treatment Plant**

Form Number: WaterUsage1/20/12/17

Reporting of Water Usage for the year

Water Source	Usage (m3/year)	Specific Usage (m3/unit output)
Mains water		
TOTAL WATER USAGE		

Operator's comments:

Signed

Date.....

(authorised to sign as representative of Operator)

Permit Number: EPR/ZP3598EY

Operator: Severn Trent Water Limited

Facility: Scunthorpe Sewage Treatment Plant

Form Number: Energy1/20/12/17

Reporting of Energy Usage for the year

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Biogas	tonnes or m ³		
Biomethane	tonnes or m ³		
Natural Gas	MWh		
Recovered Fuel Oil	tonnes		
Gas Oil	tonnes		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/ZP3598EY

Operator: Severn Trent Water Limited

**Facility: Scunthorpe Sewage
Treatment Plant**

Form Number: Performance1/20/12/17

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Units
Total raw material used	tonnes
CHP engine usage	hours
CHP engine efficiency	%
Auxiliary flare operation	hours
Electricity exported	MWh
Auxiliary boiler usage	hours

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)