Bioresources Permitting – Stanley Downton STW Environmental Permit Application

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Severn Trent Water Ltd
EPR/Stanley Downton/EPR/LB3403ZL/A001

Severn Trent IED Permitting
1 September 2022

Bioresources Permitting – Stanley Downton STW Environmental Permit Application

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1. Introduction

This application relates to a new environmental permit application for a bespoke installation bioresources treatment permit for the Stanley Downton Sewage Treatment Works, operated by Severn Trent Water Ltd.

The site has a current T21 waste exemption which allows for the recovery of waste at a waste water treatment works which will be superseded by this permit application.

This new permit application comprises an installation for the biological treatment of waste under the Industrial Emissions Directive, as implemented through the Environmental Permitting Regulations (2016) (as amended). It relates to the non-urban waste water treatment directive (UWWTD) treatment of indigenous UWWTD derived sludge and imported UWWTD sludges from other works and cess and septic tank imported material which is of a similar composition. Note that these operations are currently operated at the Stanley Downton Sewage Treatment Works site, under the UWWTD.

Permitted activities include operations from the point of the separation of the sludge from the main UWWTD treatment stream, through to its storage on the site cake pad, prior to its recovery to land offsite. The additional aspects of the permit includes the biogas handling and treatment system as a directly associated activity, including a biogas fuelled gas engine and boiler, covered by the Medium Combustion Plant Directive.

A number of other activities are undertaken at the site, outside of the scope of this permit, relating to the treatment of sewage derived materials through aerobic processes. These activities are covered by the UWWTD.

1.1 Non-Technical Summary

This application is for a new bespoke installation permit under the Environmental Permitting (England and Wales) Regulations 2016 (as amended), following a change of interpretation of the Urban Waste Water Treatment Directive (UWWTD) by the Environment Agency.

It covers the biological treatment of sludge by anaerobic digestion, with a capacity above the relevant thresholds. The biological treatment of sludge includes treatment of the indigenous sewage sludges from the onsite aerobic treatment process. The indigenous sludges are generated from the aerobic treatment of waste waters from the sewer network arriving into the site at the works inlet. There are a number of directly associated activities including the operation of a biogas fuelled Combined Heat and Power (CHP) unit and boiler for the generation of electricity and heat at the site, which is classified as an existing combustion source under the Medium Combustion Plant Directive (MCPD).

The site is located to the south west on the outskirts of Stonehouse, Gloucestershire, in a predominately rural area and is accessed via an unnamed lane. The River Frome is 270m north if the site at it's closest point. The River Frome splits into multiple rivers further north west and one more of these rivers is located 570m north of the site and the Stroudwater Navigation 680m north of the site. A small unnamed stream is located 670m south of the site.

The primary activity of the installation is for the biological treatment of non-hazardous wastes for recovery by means of anaerobic digestion. Surplus Activated Sludges (SAS) are thickened using belt thickeners before being transferred and blended in the pre-digestion tanks. Indigenous sludges pass through three batch thickening tanks before being added to the pre-digestion tanks.

There are two primary anaerobic digesters at the site, however, only one is in use. The tanks are both above ground tanks of concrete construction with concrete fixed rooves, fitted with pressure release valves, where incoming sludge is added to the process as digested sludge is removed. Removed sludge is transferred to two subsurface, open topped, concrete secondary digesters (pathogen kill tanks). Digested sludge is then transferred to the three, open topped, export tanks, which are subsurface and of concrete construction. Following this, digested sludge is then removed from site in liquid state for dewatering at another permitted site. Digested sludge cake is not produced or stored at the Stanley Downton site.

Waste liquors from the installation are transferred, via the site drainage system, back to the works inlet where they are treated via the UWWTD processes on site.

There is one gas engine on site for the combustion of biogas and associated emergency flare. There is also one dual fuel boiler present on site. Biogas is captured from the primary anaerobic digesters and stored in a dual membrane gas holder. The above ground biogas transfer pipeline is equipped with condensate pots that capture entrained moisture from the generated biogas and allow it to be drained into the site drainage system for treatment. The biogas gas holder is fitted with pressure release valves as a safety precaution in the event of over pressurising the system.

The biogas is taken from the dual membrane gas holder for combustion in the CHP engine, generating electricity for use both within the site and for export to the grid, and heat to maintain primary digester temperature. This is classified as an 'existing' combustion plant under the Medium Combustion Plant Directive, due to the generator being commissioned prior to 20 December 2018. Biogas can also be used in the dual fuelled auxiliary boiler on site. In the event there is excess biogas, i.e. more than the CHP can utilise, or in the event that the CHP is unavailable, there is a ground mounted emergency flare. This is utilised under 10% of the year.

The site has one odour control unit (OCU) located by the primary digester, which services the sludge import system, SAS thickening belts and digester. Technical Description

This application is for a new bespoke installation permit under the Environmental Permitting (England and Wales) Regulations 2016 (as amended), following a change of interpretation of the Urban Waste Water Treatment Directive by the Environment Agency. It relates to the permitting of indigenous sewage sludge and imported sewage sludge and other wastes for treatment by anaerobic digestion for the Stanley Downton Sewage Treatment Works, operated by Severn Trent Water Ltd (Severn Trent).

Scope

This application covers the biological treatment of indigenous sewage sludge, by anaerobic digestion for recovery, with a capacity above the relevant thresholds. The site operates 24 hours per day with the site being unstaffed overnight. There are a number of directly associated activities, including the operation of a biogas fuelled CHP unit for the generation of electricity and heat at the site, which is classified as an 'existing' combustion source under the Medium Combustion Plant Directive, operation of a dual fuelled auxiliary boiler and storage of biogas.

The Combined Heat and Power unit and auxiliary boiler on site fall under the definition of "existing" medium combustion plant (MCP) as defined by Schedule 25A of the Environmental Permitting Regulations (EPR) 2018, in that they are less than 20MW thermal and were commissioned prior to 20 December 2018.

The operations at the site do not fit within the requirements of the appropriate standard rules permit (2021 no 11, v1). A bespoke permit application is therefore required.

Location

The site is located in a predominantly rural, sparsely populated area, south west of the towns Stonehouse and Bridgend and west of the settlement Stanley Downton. The site is bounded to the north, west and south by arable farmland and bounded to the east by a railway track with arable farmland beyond that. Farm buildings are located adjacent to the north east corner of the site and east immediately across the railway track.

In the wider vicinity of the site, the River Frome is located 270m north of the site at it's closest point. The River Frome splits into multiple rivers further north west and one more of these rivers is located 570m north of the site and the Stroudwater Navigation is 680m north of the site. A small nameless stream is located 670m south of the site.

The nearest residential receptor is a farmhouse 112m north of the site boundary and a small residential area 230m north. The closest commercial receptors are the small farm buildings located 15m north and 110m east of the site boundary.

The site is not located within a Flood Risk Zone as outline on the Environment Agency's Flood Map for Planning. The nearest Flood Risk Zone (Flood Risk Zone 3, defined as land having a 1 in 100 or greater annual probability of river flooding) is located immediately north associated with the River Frome. The site is not within a Source Protection Zone (SPZ). The nearest designated habitat sites comprises of one Ancient Woodland and Local Wildlife Site (LWS) located 0.3m south, a Special Area of Conservation (SAC) 5.5km east and another SAC 5.5km west which is also a Special Protection Area (SPA) and RAMSAR site. There are no Local or National Nature Reserves (LNR and NNR) or Sites of Special Scientific Interest (SSSI) within 2km of the site. The site is not within an Air Quality Management Area (AQMA)

Sludge Processes

The SAS, separated by the Activated Sludge Plant (ASP), is thickened in the SAS thickening building and stored in the SAS buffer tank (80m^3) prior to being blended with indigenous sludge in two pre-digestion tanks (400m^3 each, 800m^3 total). These are steel, above ground, enclosed tanks.

The indigenous sludge, separated by the primary settlement tanks, is thickened in the three covered batch thickening tanks (400m^3 each) prior to being blended with SAS in the pre-digestion tanks.

The digestion process consists of one primary, fixed roof, anaerobic digester, which is an above ground concrete tank of 2,000m^3 capacity. Two primary digesters of similar construction are located on site, however, only one is currently in operation. The digester has an operational volume of 1,750m^3. Anti-foam is added to the primary digester on an 'as required' basis to control foaming within the digester.

The digester is fitted with pressure relief valves, which operate in an emergency only, and are subject to regular external inspections and 10-yearly internal inspection. Sludge is held within the digester for a period in accordance with the sites HACCP plan within primary digester, with sludge being fed on a continual basis as digested sludge is removed and transferred to the secondary digesters or pathogen kill (path kill) tanks to ensure the appropriate level of pathogen kill is achieved.

There are 3 pathogen kill tanks (path kill tanks) at the site, although only 2 are currently in use. The volume of the tanks being 1,000m^3 each, giving a total path kill tank volume of 3,000m^3, including the currently unused tank. These tanks are rectangular concrete, subsurface, open topped tanks.

Digested sludge is transferred offsite to a different works for dewatering. Prior to transfer, digested sludge is stored in three export tanks of volume 500m^3 each, which are square concrete, subsurface, open topped tanks.

Liquor Returns

Site drainage and liquor returns from operational areas is captured within the site wide drainage system and returned to the head of the works for treatment within the UWWTD treatment route. The site drainage plan is included within Appendix A.

There are no liquor returns generated from the processes on site, as dewatering is undertaken offsite.

Treated, final effluent is then discharged to the River Frome under the terms of environmental permit MI/S/22/26240/O/002. The final effluent sampling point is at grid reference SO 79772 05018.

There are no direct emissions to water from the sludge treatment facility. The only indirect emission is of limited volumes of process waters such as cleaning residues, boiler blowdown and biogas condensate; which are returned to the wastewater treatment works for aerobic treatment under Urban Wastewater regulations in a mixture with rain water.

Biogas

Biogas is stored in the dual membrane gas holder and combusted within one CHP engine on site, which runs on biogas only and provides both electricity to the site processes and heat to maintain the primary digester temperature. Electricity can also be exported to the National Grid when there is excess supply above the site needs. The site also has one dual fuelled auxiliary boilers and an auxiliary flare stack that can combust biogas

when there is excess biogas that cannot be combusted by the CHP or when the CHP is offline for maintenance. Biogas transfer lines are fitted with condensate pots that capture entrained moisture from the generated biogas and allow it to be drained into the site drainage system for aerobic treatment via the UWWTD treatment route.

The CHP engine has a thermal input of 0.6 MWth input and is equipped with a vertical stack. This is classified as a 'existing' combustion plant under the Medium Combustion Plant Directive. In the event there is excess biogas, i.e. more than the CHP can utilise, or in the event that the CHP is unavailable, there is one dual fuelled auxiliary boilers, each of 0.4MWth input and one ground mounted emergency flare. The flare is utilised under 10% of the year. H_2S and siloxane levels are monitored within the biogas and treated if required by their concentrations. There is no routine dosing for H_2S with ferrous sulphate undertaken within the permitted processes on site and no siloxane treatment required based on the levels within the biogas.

An air dispersion model using ADMS has been prepared for the air emissions from combustion plants at the site and is appended to this application as Appendix C. The key findings are that the CHP engine and boiler operations are unlikely to result in any unacceptable impacts on air quality.

Process Controls

Anaerobic digestor operations are monitored automatically from the control centre at the site and outside of normal operational hours, from the regional control centre. Checks include digester health, temperature and operation, including for the presence of foaming, which is treated with anti-foam as appropriate. All tanks are equipped with appropriate high-level alarms and automatic cut off valves to minimise the risk of overtopping. Site operations are covered by Severn Trent's ISO14001 accreditation for all operations, and technical competence is provided by the organisations CMS and training program. Stanley Downton will be included within the CMS certification scope within the next 12 months, but operational staff are already trained as competent within the CMS based on their responsibilities at other permitted sites within the area.

BAT Considerations

The site infrastructure is not currently fully compliant with the requirements of BAT, specifically with regards to containment and surfacing. A CIRIA 736 assessment of containment has been carried out, along with optioneering to identify potential suitable containment options in the event of a loss of primary containment. This is presented as Appendix G. A figure showing the current site surfacing within the permit boundary is included within the figures.

There are a number of open top tanks within the permit boundary at Stanley Downton, including the pathogen kill tanks. It is acknowledged that there may be emissions of biomethane and/or odour from some of these tanks, and Severn Trent is preparing a monitoring exercise to determine the nature of any emissions and the quantity. Based on these outputs, the requirement for covering the tanks will be assessed, in accordance with the design of the existing tanks and HSE requirements around ATEX and DSEAR, in accordance with the applicability notes for BAT 14d.

As part of any tank cover design, the initial monitoring data will be necessary to determine if the correct routing of any gas from the tank headspace would be to the biogas utilisation system or to a new OCU. The quantification of tank emissions is needed to determine if the gas treatment assets also require upgrading, e.g. existing engine utilisation levels. If an OCU is the required for the gases, the quantification and nature of the emissions will be required in order to ensure that the unit is sized correctly, with the right media to deal with the substances present.

Due to the variability of air pressure on the potential release rate of gas from the tank contents, it is proposed that the monitoring exercise will involve 4 rounds of sampling over a 6 month period, to reflect levels at different ambient air temperatures and atmospheric pressures.

All proposed coverings will be subject to a cost benefit analysis, based upon the Environment Agency tool.

The site is not equipped with any odour control units, following a review of need by process scientists.

The site does not dewater or store sewage cake, nor does it have any odour control units, as such, there is no requirement for a bioaerosol risk assessment for the site.

A full assessment of the relevant sections of the Waste Treatment BRef are supplied as Appendix D.

The site has an odour management plan which is supplied as Appendix F.

A leak detection and repair (LDAR) plan has been prepared for the site and this is presented as Appendix H.

There is no requirement for a fire prevention plan at the site, due to the nature of the wastes treated and the processes (wet AD) utilised, in accordance with Environment Agency guidance.

1.2 Regulatory listing

The installation is permitted as a Schedule 1 listed activity under the Environmental Permitting (England and Wales) Regulations 2016 (as amended).

The relevant listing under Schedule 1 for the primary activity, that of anaerobic digestion, is:

Section 5.4 Disposal, recovery or a mix of disposal and recovery of non-hazardous waste

- *Part A(1) (b); 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 one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC—*

    (i) biological treatment;

In addition to the listed activity at the site, there is a directly associated activity of a biogas combustion plant which is also a specified generator, covered by the Medium Combustion Plant Directive under Schedule 25A and B of the Environmental Permitting (England and Wales) Regulations 2016 (as amended).

The site includes the following Directly Associated Activities (DAA):

- Storage of digestate prior to transfer offsite to a suitable works for dewatering;
- Storage of biogas;
- Combustion of biogas in an MCPD and SG compliant biogas CHP unit and auxiliary boilers;
- Emergency flare; and
- Storage of raw materials.

The site can treat approximately 117m^3 per day of sewage sludge. This gives an annual throughput of approx. 42,584 tonnes sludge.

2. Application Forms and Letter of Authorisation

Application for an environmental permit Part A – About you

You will need to fill in this part A if you are applying for a new permit, applying to change an existing permit or surrender your permit, or want to transfer an existing permit to yourself. Please check that this is the latest version of the form available from our website.

You can apply online for Waste standard rules environmental permits, bespoke waste permits and bespoke Medium combustion plant permits

Apply online for an environmental permit.

Please read through this form and the guidance notes that came with it.

The form can be:

1) **saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.**
2) **printed off and filled in by hand. Please write clearly in the answer spaces.**

Note: if you believe including information on a public register would not be in the interests of national security you must enclose a letter telling us that you have told the Secretary of State. We will not include the information in the public register unless directed otherwise.

It will take less than one hour to fill in this part of the application form.

Where you see the term 'document reference' on the form, give the document references and send the documents with the application form when you've completed it.

Contents

1 About you

Are you applying as an individual, an organisation of individuals (for example, a partnership), a company (this includes Limited Liability Partnerships) or a public body?

An individual	☐ Now go to section 2 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1
An organisation of individuals (for example, a partnership)	☐ Now go to section 3 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1
A public body	☐ Now go to section 4
A registered company or other corporate body	☑ Now go to section 5 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

2 Applications from an individual

2a Please give us the following details

Name

Title (Mr, Mrs, Miss and so on) _____

First name _____

Last name _____

Now go to section 6

3 Applications from an organisation of individuals or charity

3a Type of organisation

For example, a charity, a partnership, a group of individuals or a club

3b Details of the organisation or charity

If you are an organisation of individuals, please give the details of the main representative below. If relevant, provide details of other members (please include their title Mr, Mrs and so on) on a separate sheet and tell us the document reference you have given this sheet

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to question 3c or section 6

3c Details of charity

Full name of charity

This should be the full name of the legal entity not any trading name.

3d Company registration number

If you are registered with Companies House please tell us your registration number

3e Charity Commission number

If you are registered with the Charity Commission please tell us your registration number

Now go to section 6

4 Applications from public bodies

4a Type of public body

For example, NHS trust, local authority, English county council

4b Name of the public body

4c Please give us the following details of the executive

An officer of the public body authorised to sign on your behalf

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position

Now go to section 6

5 Applications from companies or corporate bodies

5a Name of the company

Severn Trent Water Limited

5b Company registration number

02366686

Date of registration (DD/MM/YYYY)

01/04/1989

If you are applying as a corporate organisation that is not a limited company, please provide evidence of your status and tell us below the reference you have given the document containing this evidence.

Document reference

5 Applications from companies or corporate bodies, continued

5c Please give details of the directors

If relevant, provide details of other directors and company secretary, if there is one, on a separate sheet and tell us the reference you have given this sheet.

Document reference: See previously supplied applicant data

Details of company secretary (if relevant) and director/s

Title (Mr, Mrs, Miss and so on):

First name:

Last name:

Title (Mr, Mrs, Miss and so on):

First name:

Last name:

Now go to section 6

6 Your address

6a Your main (registered office) address

For companies this is the address on record at Companies House.

Contact name

Title (Mr, Mrs, Miss and so on): Mrs

First name: Joanne

Last name: Chapman

Address: Severn Trent Centre
2 St John's Street
Coventry

Postcode: CV1 2LZ

Contact numbers, including the area code

Phone: 02476715000

Fax:

Mobile: 07850602321

Email: Joanne.Chapman@severntrent.co.uk

For an organisation of individuals every partner needs to give us their details, including their title Mr, Mrs and so on. So, if necessary, continue on a separate sheet and tell us below the reference you have given the sheet.

Document reference:

6b Main UK business address (if different from above)

Contact name

Title (Mr, Mrs, Miss and so on):

First name:

Last name:

Address:

Postcode:

6 Your address, continued

Contact numbers, including the area code

Phone

Fax

Mobile

Email

Now go to section 7

7 Contact details

7a Who can we contact about your application?

It will help us if there is someone we can contact if we have any questions about your application. The person you name should have the authority to act on your behalf.

Please add a second contact on a separate sheet if this person is not always available.

Document reference of this separate sheet: Please contact Joanne Chapman

This can be someone acting as a consultant or an 'agent' for you.

Contact name

Title (Mr, Mrs, Miss and so on): Mr

First name: Mark

Last name: McAree

Address: Jacobs
Jacobs House
Shrewsbury Business Park
Shrewsbury

Postcode: SY2 6LG

Contact numbers, including the area code

Phone

Fax

Mobile: 07584 215 085

Email: mark.mcaree@jacobs.com

7b Who can we contact about your operation (if different from question 7a)?

Contact name

Title (Mr, Mrs, Miss and so on): Mrs

First name: Joanne

Last name: Chapman

Address: Endeavour House
Raynesway
Derby

Postcode: DE21 7BE

Contact numbers, including the area code

Phone

Fax

Mobile: 07850602321

Email: joanne.chapman@severntrent.co.uk

7 Contact details, continued

7c Who can we contact about your billing or invoice?

Note: Please provide the name and address that all invoices should be sent to for your subsistence fees.

As in question 7a ☐

As in question 7b ☑

Please give details below if different from question 7a or 7b.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it. More information on how to do this is available at: www.gov.uk/government/organisations/environment-agency/about/complaints-procedure.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

9 Where to send your application

For how many copies to send see the guidance note on part A.

For water discharges by email to PSC-WaterQuality@environment-agency.gov.uk

For waste and installations by email to PSC@environment-agency.gov.uk

For flood risk activity permits send 1 copy only to enquiries@environment-agency.gov.uk or to the local Environment Agency office for where the work is proposed to be carried out.

Or

Permitting Support, NPS Sheffield
Quadrant 2
99 Parkway Avenue
Parkway Business Park
Sheffield
S9 4WF

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please ☐

No thank you ☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐ Amount received

£

Appendix 1 – Date of birth information for installation and waste activities (applications for a new permit or transferring a permit) only

Date of birth information in this appendix will not be put onto our Public Register

Are you applying as an individual, an organisation of individuals (for example, a partnership) or a company (this includes Limited Liability Partnerships)?

An individual	☐ Now go to 2
An organisation of individuals (for example, a partnership)	☐ Now go to 3
A registered company or other corporate body	☑ Now go to 4

2 Applications from an individual

Please give us the following details

Name

Date of birth (DD/MM/YY)

3 Applications from an organisation of individuals or charity

Details of the organisation or charity

If you are an organisation of individuals, please give the date of birth details of the main representative below. If relevant, provide details of other members on a separate sheet and tell us the document reference you have given this sheet.

Name

Date of birth (DD/MM/YY)

Document reference

4 Applications from companies or corporate bodies

Name of the company: Severn Trent Water Ltd

Please give the date of birth details for all directors and company secretary if there is one. If relevant, provide those details of other directors on a separate sheet and tell us the document reference you have given this sheet.

Details of company secretary (if relevant) and director/s

Name: See previously supplied applicant data

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Document reference

Application for an environmental permit
Part B2 – General – new bespoke permit

Environment Agency

Fill in this part of the form together with parts A and F1 if you are applying for a new bespoke permit. You also need to fill in part B3, B4, B5, B6, or B7 (this depends on what activities you are applying for). Please check that this is the latest version of the form available from our website.

You can apply online for waste bespoke environmental permits at https://apply for environmental permit.service.gov.uk/start/start or open saved

Please read through this form and the guidance notes that came with it.

The form can be:

1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.

2) printed off and filled in by hand. Please write clearly in the answer spaces

It will take less than two hours to fill in this part of the application form.

Contents

1 About the permit

1a Discussions before your application

If you have had discussions with us before your application, give us the permit reference or details on a separate sheet. Tell us below the reference you have given this extra sheet.

Permit or document reference

1b Is the permit for a site or for mobile plant?

Site ☑ Now go to section 2

Mobile plant ☐ Now go to question 1c

Note: The term 'mobile plant' does not include mobile sheep dipping units.

Mobile plant

1c Have we told you during pre-application discussions that we believe that a mobile permit is suitable for your activity?

No

Yes

1d Have there been any changes to your proposal since this discussion?

No Now go to section 3

Yes You should send us a description of the activity you want to carry out, highlighting the changes you have made since our pre-application discussions

Document reference

Now go to section 3

2 About the site

But not mobile plant

2a What is the site name, address, postcode and national grid reference?

Site name: Severn Trent Water Limited

Address: Stanley Downton STW
Stonehouse

Postcode: GL10 3QZ

National grid reference for the site
(for example, ST 12345 67890): SO 7904 3151

2b What type of regulated facility are you applying for?

Note: if you are applying for more than one regulated facility then go to 2c.

- Installation ☑
- Waste operation ☐
- Mining waste operation ☐
- Water discharge activity ☐
- Groundwater activity (point source) ☐
- Groundwater activity (discharge onto land) ☐

What is the national grid reference for the regulated facility (if only one)?
(See the guidance notes on part B2.)

- As in 2a above ☐
- Different from that in 2a ☐ Please fill in the national grid reference below

National grid reference for the regulated facility

Now go to question 2d

2 About the site, continued

2c If you are applying for more than one regulated facility on your site, what are their types and their grid references?

See the guidance notes on part B2.

Regulated facility 1

National grid reference: SO 7904 3151

What is the regulated facility type?

- [x] Installation
- [ ] Waste operation
- [ ] Mining waste operation
- [ ] Water discharge activity
- [ ] Groundwater activity (point source)
- [ ] Groundwater activity (discharge onto land)

Regulated facility 2

National grid reference:

What is the regulated facility type?

- [ ] Installation
- [ ] Waste operation
- [ ] Mining waste operation
- [ ] Water discharge activity
- [ ] Groundwater activity (point source)
- [ ] Groundwater activity (discharge onto land)

Use several copies of this page or separate sheets if you have a long list of regulated facilities. Send them to us with your application form. Tell us below the reference you have given these extra sheets.

Document reference:

Now go to question 2d

2 About the site, continued

2d Low impact installations (installations only)

Are any of the regulated facilities low impact installations?

No ☑

Yes ☐ If yes, tell us how you meet the conditions for a low impact installation (see the guidance notes on part B2 – Appendix 1).

Document reference

Tick the box to confirm you have filled in the low impact installation checklist in appendix 1 for each regulated facility ☐

2e Treating batteries

Are you planning to treat batteries? (See the guidance notes on part B2.)

No ☑

Yes ☐ Tell us how you will do this, send us a copy of your explanation and tell us below the reference you have given this explanation

Document reference for the explanation

2f Ship recycling

Is your activity covered by the Ship Recycling Regulations 2015? (See the guidance notes on part B2.)

No ☑

Yes ☐ Tell us how you will do this. Please send us a copy of your explanation and your facility recycling plan, and tell us below the reference numbers you have given these documents

Document reference for the explanation

Document reference for the facility recycling plan

2g Multi-operator installation

If the site is a multi-operator site (that is there is more than one operator of the installation) then fill in the table below the application reference for each of the other permits.

Table 1 – Other permit application references

3 Your ability as an operator

If you are only applying for a standalone water discharge or for a groundwater activity, you only have to fill in question 3d.

3a Relevant offences

Applies to all except standalone surface water discharges and groundwater discharges (see the guidance notes on part B2).

3a1 Have you, or any other relevant person, been convicted of any relevant offence?

No ☐ Now go to question 3b

Yes ☑ Please give details below

Name of the relevant person

Title (Mr, Mrs, Miss and so on)

First name: See application supporting document

Last name

Position held at the time of the offence

Name of the court where the case was dealt with

Date of the conviction (DD/MM/YYYY)

Offence and penalty set

Date any appeal against the conviction will be heard

(DD/MM/YYYY)

If necessary, use a separate sheet to give us details of other relevant offences and tell us below the reference number you have given the extra sheet.

Now go to question 3b

Please also complete the details in Appendix 2.

3b Technical ability

Relevant waste operations only (see the guidance notes on part B2).

Please indicate which of the two schemes you are using to demonstrate you are technically competent to operate your facility and the evidence you have enclosed to demonstrate this.

ESA/EU skills

Please select one of the following:

I have enclosed a copy of the current Competence Management System certificate ☑

or

We will have a certified Competence Management System within 12 months and have enclosed evidence of the contract with an accredited certification body ☐

3 Your ability as an operator, continued

CIWM/WAMITAB scheme

Your answers below must relate to the person(s) providing technically competent management when the permitted activities start.

Please select **one** of the following:

- I have enclosed a copy of:

  – the relevant qualification certificate/s ☐

  or

  – evidence of deemed competence ☐

  or

  – Environment Agency assessment ☐

  or

  – evidence of nominated manager status under the transitional provisions for previously exempt activities ☐

  and, if deemed competent or Agency-assessed, or nominated manager, or if the original qualification is over two years old:

  I have enclosed a copy of the relevant current continuing competence certificate/s ☐

- The technically competent manager will complete their qualification within four weeks of starting the permitted activities and I have enclosed evidence of their registration with WAMITAB or their EPOC booking as appropriate ☐
- **For medium- and high-risk tier activities other than landfill**
  The technically competent manager will complete the qualification within 12 months and I have enclosed evidence of their registration with WAMITAB and, where relevant, EPOC booking.
  I understand they must complete either four specified units of the relevant qualification or an EPOC within four weeks of the permitted activities commencing ☐

For each technically competent manager please give the following information. If necessary, use a separate sheet to give us these details and tell us below the document reference you have given the extra sheet.

Title (Mr, Mrs, Miss and so on) _____

First name _____

Last name _____

Phone _____

Mobile _____

Email _____

Please provide the environmental permit number/s and site address for all other waste activities that the proposed technically competent manager provides technical competence for, including permits held by other operators. Continue on a separate sheet as required.

3 Your ability as an operator, continued

Permit number	Site address	Postcode

Document reference

Now go to question 3c

Please also complete the details in Appendix 2.

3c Finances

Installations, waste operations and mining waste operations only.

Please note that if you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

Do you, or any relevant person, or a company in which you (or they) (or any relevant person) were a relevant person, have current or past bankruptcy or insolvency proceedings against you?

No ☑

Yes ☐ Please give details below, including the required set-up costs (including infrastructure), maintenance and clean up costs for the proposed facility against which a credit check may be assessed

We may want to contact a credit reference agency for a report about your business's finances.

Landfill, Category A mining waste facilities and mining waste facilities for hazardous waste only

How do you plan to make financial provision (to operate a landfill or a mining waste facility you need to show us that you are financially capable of meeting the obligations of closure and aftercare)?

Renewable bonds ☐

Cash deposits with the Environment Agency ☐

Other – provide comprehensive details ☐

Document reference

3 Your ability as an operator, continued

Provide a cost profile and expenditure plan of your estimated costs throughout the aftercare period of your site.

Document plan reference

Now go to question 3d

3d Management systems (all)

You must have an effective, written management system in place that identifies and reduces the risk of pollution. You may show this by using a certified scheme or your own system.

Your permit requires you (as the operator) to ensure that you manage and operate your activities in accordance with a written management system.

You need to be able to explain what happens at each site and which parts of the overall management system apply. For example at some sites you may need to show you are carrying out additional measures to prevent pollution because they are nearer to sensitive locations than others.

You can find guidance on management systems on our website at https://www.gov.uk/guidance/develop a management system environmental permits

Tick this box to confirm that you have read the guidance and that your management system will meet our requirements ☑

What management system will you provide for your regulated facility?

ISO 14001 ☑

BS 8555 (Phases 1–5) ☐

Green dragon ☐

Own management system ☐

EMAS Global ☐

Other ☐

Please make sure you send us a summary of your management system with your application.

Document reference/s

4 Consultation

Fill in 4a to 4c for installations and waste operations and 4d for installations only.

Could the waste operation or installation involve releasing any substance into any of the following?

4a A sewer managed by a sewerage undertaker?

No ☑

Yes ☐ Please name the sewerage undertaker

4b A harbour managed by a harbour authority?

No ☑

Yes ☐ Please name the harbour authority

4c Directly into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries committee?

No ☑

Yes ☐ Please name the fisheries committee

4d Is the installation on a site for which:

4d1 a nuclear site licence is needed under section 1 of the Nuclear Installations Act 1965?

No ☑

Yes ☐

4d2 a policy document for preventing major accidents is needed under regulation 5 of the Control of Major Accident Hazards Regulations 2015, or a safety report is needed under regulation 7 of those Regulations?

No ☑

Yes ☐

5 Supporting information

5a Provide a plan or plans for the site

But not any mobile plant

Clearly mark the site boundary or discharge point, or both. Also include site drainage plans, site layout plans, and plant design drawings/process flow diagrams (as required).
(See the guidance notes on part B2.)

Document reference/s of the plans: See application supporting document

5b Provide the relevant sections of a site condition/baseline report if this applies

See the guidance notes on part B2 for what needs to be marked on the plan.

Document reference of the report: See application supporting document

If you are applying for an installation, tick the box to confirm that you have sent in a baseline report ☑

5c Provide a non-technical summary of your application

See the guidance notes on part B2.

Document reference of the summary: See application supporting document

5 Supporting information, continued

5d Are you applying for an activity that includes the storage of combustible wastes?

This applies to all activities excluding standalone water and groundwater discharges.

No ☑

Yes ☐ Provide a fire prevention plan (see the guidance notes on part B2). You need to highlight any changes you have made since your pre-application discussions.

Document reference of the plan

6 Environmental risk assessment

Provide an assessment of the risks each of your proposed regulated facilities poses to the environment. The risk assessment must follow the methodology set out in 'Risk assessments for your environmental permit' at www.gov.uk/government/collections/technical-guidance-for-regulated-industry-sectors-environmental-permitting or an equivalent method.

Document reference for the assessments: See application supporting document

For Waste and Installation Permits only

All bespoke waste and installations permit applications must carry out a climate change risk assessment if the planned duration of the operation is more than 5 years. This will normally be reviewed and discussed with you as part of our compliance activities. However, we may require you to submit your climate change risk assessment as part of your application depending on your risk screening score. We will consider the information contained within your climate change risk assessment when we grant your permit. Conditions may be applied to some permits to manage climate risks.

6b Climate change risk screening

See the guidance to Part B2.

Mark your score in each category in the table below. Add each individual score to give a total.

CATEGORY	SCREENING QUESTIONS	SCORE	YOUR SCORE
1 TIMESCALES	How long will a permit be required for this site/activity?		
	5 years or less of operation. No need to fill in the rest of the screening. You do not need to fill in a risk assessment. Please go straight to question 7.	0	
	Less than 20 years of operation	1	
	Until between 2040 and 2060 (between 20 and 40 years from now)	3	5
	Until 2060 or beyond (more than 40 years from now)	5	
2 FLOODING	What is your site's risk of flooding from rivers or the sea?		
	Not in a flood-risk zone	0	
	Very low or Low	1	
	Medium	2	1
	High	5	
3 WATER USE	If you use water for your site operations or fire prevention, what is the source of your water?		
	Water not required	0	
	Mains water	1	0
	Surface water or groundwater abstraction	5	
TOTAL SCREENING SCORE			6

If your total screening score is 5 or more, complete the climate change risk assessment and submit it with your permit application.

If you expect to operate for 5 years or less, you do not need to submit a risk assessment with your application, regardless of your screening score.

You must enter your score for every category in the table above. If you expect to operate for 5 years or less you may enter 'Not Applicable' for categories 2 and 3.

Document reference of the risk assessment (if submitted with application): See application supporting document

If your total screening score is less than 5 we may still request your risk assessment as part of determining this application if we believe you face unmanaged climate risks.

If we do not review your risk assessment as part of your application, it will form part of your Environmental Management System and we will discuss it with you as part of our compliance activities.

7 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below. General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)
Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please ☐

No thank you ☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Payment received?

No ☐

Yes ☐ Amount received

Our reference number

£

Plain English Campaign's Crystal Mark does not apply to appendix 1.

Appendix 1 – Low impact installation checklist

See the guidance notes on part B2.

Installation reference				
Condition	Response			Do you meet this?
A – Management techniques	Provide references to show how your application meets A			Yes ☐ No ☐
	References			
B – Aqueous waste	Effluent created		m^3/day	Yes ☐ No ☐
C – Abatement systems	Provide references to show how your application meets C			Yes ☐ No ☐
	References			
D – Groundwater	Do you plan to release any hazardous substances or non-hazardous pollutants into the ground?		Yes ☐ No ☐	Yes ☐ No ☐
E – Producing waste	Hazardous waste		Tonnes per year	Yes ☐ No ☐
	Non-hazardous waste		Tonnes per year	
F – Using energy	Peak energy consumption		MW	Yes ☐ No ☐
G – Preventing accidents	Do you have appropriate measures to prevent spills and major releases of liquids?		Yes ☐ No ☐	Yes ☐ No ☐
	Provide references to show how your application meets G			
	References			
H – Noise	Provide references to show how your application meets H			Yes ☐ No ☐
	References			
I – Emissions of polluting substances	Provide references to show how your application meets I			Yes ☐ No ☐
	References			
J – Odours	Provide references to show how your application meets J			Yes ☐ No ☐
	References			
K – History of keeping to the regulations	Say here whether you have been involved in any enforcement action as described in Compliance History Appendix 1 guidance notes		Yes ☐ No ☐	

Appendix 2 – Date of birth information for Relevant offences and/or Technical ability questions only

Date of birth information in this appendix will not be put onto our Public Register

Have you filled in the Relevant Offences question?

Yes ☑

No ☐

Have you filled in the Technical ability question?

Yes ☑

No ☐

Relevant Offences - date of birth information

Please give us the following details

Name

Date of birth (DD/MM/YYYY)

Technical ability - date of birth information

Name

Date of birth (DD/MM/YYYY)

Application for an environmental permit
Part B3 – New bespoke installation permit

If you are applying for a new bespoke permit for an installation, fill in this part of the form, together with parts A, B2 and F1.

Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that go with it.

If you are applying for a permit for an intensive farm do not use this form, but complete application form part B3.5 instead.

The form can be:

1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
2) printed off and filled in by hand. Please write clearly in the answer spaces.

It will take less than three hours to fill in this part of the application form.

Contents

1 What activities are you applying for?

Fill in Table 1a below with details of all the activities listed in schedule 1 or other references (see note 1) of the Environmental Permitting Regulations (EPR) and all directly associated activities (DAAs) (in separate rows), that you propose to carry out at the installation.

Fill in a separate table for each installation you are applying for. Use a separate sheet if you have a long list and send it to us with your application form. Tell us below the reference you have given the document.

Document reference: See application supporting document

1 What activities are you applying for?, continued

Table 1a – Types of activities

Schedule 1 listed activities						
Installation name	Schedule 1 or other references (See note 1)	Description of the activity (See note 2)	Activity capacity (See note 3)	Annex I (D codes) and Annex II (R codes) and descriptions	Hazardous waste treatment capacity (if this applies) (See note 3)	Non-hazardous waste treatment capacity (if this applies) (See note 3)
If there are not enough rows, send a separate document and give the document reference number here	Put your main activity first			For installations that take waste only	For installations that take waste only	For installations that take waste only
See application supporting						

Directly associated activities (See note 4) Also note: if the DAA is a Medium Combustion Plant or Specified Generator (MCP/SG) please also fill in part B2.5, (see https://www.gov.uk/government/publications/application-for-an-environmental-permit-part-b25-new-bespoke-medium-combustion-plant-and-specified-generator-permit)		
Name of DAA If there are not enough rows, send a separate document and give the document reference number here	Description of the DAA (please identify the schedule 1 activity it serves)	
	See application supporting document	
For installations that take waste (See note 5 below)	Total storage capacity	
	Annual throughput (tonnes each year)	

1 What activities are you applying for?, continued

Notes

1. Quote the section number, part A1 or A2 or B, then paragraph and sub-paragraph number as shown in EPR part 2 of schedule 1, schedule 13 and 14 for Local Authority regulated activities, or schedule 25/25B for Medium Combustion Plant or Specified Generators.
2. Use the description from the relevant schedule of the regulations. Include any extra detail that you think would help to accurately describe what you want to do.
3. By 'capacity', we mean:

- the total incineration capacity (tonnes every hour) for waste incinerators
- the total landfill capacity (cubic metres) for landfills
- the total capacity (cubic metres) for the recovery of hazardous waste on land
- the total treatment capacity (tonnes each day) for waste treatment operations
- the total storage capacity (tonnes) for waste storage operations
- the processing and production capacity for manufacturing operations, or
- the thermal input capacity for combustion activities

Fill each listed activity as a separate line and give an accurate description of any other activities associated with your schedule 1 activities. You cannot have Directly Associated Activities (DAAs) as part of a mobile plant application. If the DAA is a Medium Combustion Plant or Specified Generator (MCP/SG) please fill in the table in appendix 1 question 13.

By 'total storage capacity', we mean the maximum amount of waste, in tonnes, you store on the site at any one time.

Types of waste accepted

For those installations that take waste, for each line in Table 1a (including DAAs), fill in a separate document to list those wastes you will accept on to the site for that activity. Give the List of Wastes catalogue code and description (see https://www.gov.uk/government/publications/waste-classification-technical-guidance).

If you need to exclude waste from your activity or facility by restricting the description, quantity, physical nature, hazardous properties, composition or characteristic of the waste, include these in the document. Send it to us with your application form.

Please provide the reference for each document.

You can use Table 1b as a template.

If you want to accept any waste with a code ending in 99, you must provide more information and a full description of the waste in the document, (for example, detailing the source, nature and composition of the waste). Where you only want to receive specific wastes within a waste code you can provide further details of the waste you want to receive. Where a waste is dual coded you should use both codes for the waste.

Document reference of this extra information: See application supporting document

1 What activities are you applying for?, continued

Table 1b – Template example – types of waste accepted and restrictions

Waste code	Description of the waste
Example	Example
02 01 08*	Agrochemical waste containing hazardous substances
18 01 03*	Infectious clinical waste, not contaminated with chemicals or medicines – human healthcare (may contain sharps) for alternative treatment
17 05 03*/17 06 05*	Non-hazardous soil from construction or demolition contaminated with fragments of asbestos cement sheet

1c Recovery of hazardous waste on land

Are you applying for a waste recovery activity involving the permanent deposit of inorganic hazardous waste on land for construction or land reclamation?

No ☑ Now go to question 2

Yes ☐

Have you written a waste recovery plan (WRP) that shows that you will use waste to perform the same function as non waste materials you would have used?

No You must write a WRP to support your application.

Yes

Have we advised you during pre-application discussions that we believe the activity is waste recovery?

No

Yes

Have there been any changes to your proposal since the discussions?

No

Yes

Please send us a copy of your current waste recovery plan that complies with our guidance at https://www.gov.uk/government/publications/deposit-for-recovery-operators-environmental-permits/waste-recovery-plans-and-deposit-for-recovery-permits. You need to highlight any changes you may have made since your pre-application discussions.

Document reference

Please note that there is an additional charge for the assessment or re assessment of a waste recovery plan that must be submitted as part of this application. For the charge see https://www.gov.uk/government/publications/environmental-permitting-charges-guidance/environmental-permitting-charges-guidance

2 Point source emissions to air, water and land

Fill in Table 2 below with details of the point source emissions that result from the operating techniques at each of your installations.

Fill in one table for each installation, continuing on a separate sheet if necessary.

Table 2 – Emissions (releases)

Installation name	Stanley Downton Sewage Treatment Works			
Point source emissions to air				
Emission point reference and location	Source	Parameter	Quantity	Unit
See application supporting document				
Point source emissions to water (other than sewers)				
Emission point reference and location	Source	Parameter	Quantity	Unit
N / A				
Point source emissions to sewers, effluent treatment plants or other transfers off site				
Emission point reference and location	Source	Parameter	Quantity	Unit
See application supporting document				
Point source emissions to land				
Emission point reference and location	Source	Parameter	Quantity	Unit
N / A				

You will also need to complete application form part B6 if your installation includes a point source emission(s) to:

- water
- groundwater or
- sewer

Supporting information

3 Operating techniques

3a Technical standards

Fill in Table 3a for each activity at the installation you refer to in Table 1a above and list the 'Best Available Techniques' you are planning to use. If you use the standards set out in the relevant BAT conclusion(s), BAT reference document(s) (BREF) and/or technical guidance(s) (TGN) there is no need to justify using them within your documents in Table 3a.

For Part A(2) activities refer to https://www.gov.uk/government/collections/integrated-pollution-prevention-and-control-sector-guidance-notes and for Part B and Schedule 14 activities see https://www.gov.uk/government/collections/local-air-pollution-prevention-and-control-lappc-process-guidance-notes

You must justify your decisions in a separate document if:

- there is no technical standard
- the technical guidance provides a choice of standards, or
- you plan to use another standard

This justification could include a reference to the Environmental Risk Assessment provided in part B2 (General bespoke permit) of the application form.

For each of the activities listed in Table 1a, the documents in Table 3a should summarise:

- the operations undertaken
- the measures you will use to control the emissions from your process, as identified in your risk assessment or the relevant BAT conclusions, BREF or technical guidance
- how you will meet other standards set out in the relevant BAT conclusions document, BREF or technical guidance

Table 3 – Technical standards

Fill in a separate table for each activity at the installation.

Installation name		
Description of the schedule 1 activity or directly associated activity	Best available technique (BATC, BREF or TGN reference) (see footnote below)	Document reference (if appropriate)
See application supporting document		

* Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

In all cases, describe the type of facility or operation you are applying for and provide site infrastructure plans, location plans and process flow diagrams or block diagrams to help describe the operations and processes undertaken. Give the document references you use for each plan, diagram and description.

Document reference: See application supporting document

3b General requirements

Fill in a separate Table 4 for each installation.

Table 4 – General requirements

Name of the installation	
If the technical guidance or your risk assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them	Document reference or references See application supporting document
Where the technical guidance or your risk assessment shows that odours are an important issue, send us your odour management plan	Document reference or references See application supporting document
If the technical guidance or your risk assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)	Document reference or references N / A

For guidance on risk assessments for your environmental permit see https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit

3c Types and amounts of raw materials

Fill in Table 5 for all schedule 1 activities. Fill in a separate table for each installation.

Table 5 – Types and amounts of raw materials

Name of the installation				
Capacity (See note 1 below)		See application supporting document		
Schedule 1 activity	Description of raw material and composition	Maximum amount (tonnes) (See note 2 below)	Annual throughput (tonnes each year)	Description of the use of the raw material including any main hazards (include safety data sheets)

Notes

1 By 'capacity', we mean the total storage capacity (tonnes) or total treatment capacity (tonnes each day).

2 By 'maximum amount', we mean the maximum amount of raw materials on the site at any one time.

Use a separate sheet if you have a long list of raw materials, and send it to us with your application form. Please also provide the reference of this extra sheet.

Document reference: See application supporting document

3d Information for specific sectors

For some of the sectors, we need more information to be able to set appropriate conditions in the permit. This is as well as the information you may provide in sections 5, 6 and 7. For those activities listed below, you must answer the questions in the related document.

Table 6 – Questions for specific sectors

Sector	Appendix
Combustion	See the questions in appendix 1
Chemicals	See the questions in appendix 2
Incinerating waste	See the questions in appendix 3
Landfill and recovery of hazardous waste on land	See the questions in appendix 4

General information

4 Monitoring

4a Describe the measures you use for monitoring emissions by referring to each emission point in Table 2 above

You should also describe any environmental monitoring. Tell us:

- how often you use these measures
- the methods you use
- the procedures you follow to assess the measures

Document reference: See application supporting document

4b Point source emissions to air only

4b1 Has the sampling location been designed to meet BS EN 15259 clause 6.2 and 6.3?

No ☐
Yes ☐

4b2 Are the sample ports large enough for monitoring equipment and positioned in accordance with section 6 and appendix A of BS EN 15259?

No ☐
Yes ☐

4b3 Is access adjacent to the ports large enough to provide sufficient working area, support and clearance for a sample team to work safely with their equipment throughout the duration of the test?

No ☐
Yes ☐

4b4 Are the sample location(s) at least 5 HD from the stack exit

No ☐
Yes ☐

4b5 Are the sample location(s) at least 2 HD upstream from any bend or obstruction?

No ☐
Yes ☐

4b6 Are the sample location(s) at least 5 HD downstream from any bend or obstruction?

No ☐
Yes ☐

4b7 Does the sample plane have a constant cross sectional area?

No ☐
Yes ☐

4b8 If horizontal, is the duct square or rectangular (unless it is less than or equal to 0.35 m in diameter)

No ☐
Yes ☐

4b9 If you have answered 'No' to any of the questions 4b1 to 4b8 above, provide an assessment to how the standards in BS EN 15259 will be met.

Document reference of the assessment

5 Environmental impact assessment

5a Have your proposals been the subject of an environmental impact assessment under Council Directive 85/337/EEC of 27 June 1985 [Environmental Impact Assessment] (EIA)?

No ☑ Now go to question 6

Yes ☐ Please provide a copy of the environmental statement and, if the procedure has been completed:

- a copy of the planning permission
- the committee report and decision on the EIA

Document reference of the copy

6 Resource efficiency and climate change

If the site is a landfill or a recovery of hazardous waste on land activity, you only need to fill in this section if the application includes gas engines.

6a Describe the basic measures for improving how energy efficient your activities are

Document reference of the description: See application supporting document

6b Provide a breakdown of any changes to the energy your activities use up and create

Document reference of the description: See application supporting document

6c Have you entered into, or will you enter into, a climate change levy agreement?

No ☑ Describe the specific measures you use for improving your energy efficiency

Document reference of the description: See application supporting document

Yes ☐ Please give the date you entered (or the date you expect to enter) into the agreement (DD/MM/YYYY)

Please also provide documents that prove you are taking part in the agreement.

Document reference of the proof

6d Explain and justify the raw and other materials, other substances and water that you will use

Document reference of the justification: See application supporting document

6e Describe how you avoid producing waste in line with Council Directive 2008/98/EC on waste

If you produce waste, describe how you recover it. If it is technically and financially impossible to recover the waste, describe how you dispose of it while avoiding or reducing any effect it has on the environment.

Document reference of the description: See application supporting document

7 Installations that include a combustion plant (excluding waste incinerators)

7a List all your combustion plant at the site and provide thermal input and operating hours for each

Document reference: See application supporting document

7b Do any of your combustion plants have a net rated thermal input of 1 or more MW and is not an excluded MCP?

No ☐ Go to 7c

Yes ☑ Please fill in the table in appendix 1 question 13

7c Is the aggregated net thermal input of your combustion plant more than 20 MW?

No ☑

Yes ☐ Please go to appendix 1 question 11

8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: https://www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

No thank you ☐

Crystal Mark 19107
Clarity approved by Plain English Campaign

For Environment Agency use only

Date received (DD/MM/YYYY)

Payment received?

No

Our reference number

Yes Amount received

£

Plain English Campaign's Crystal Mark does not apply to appendices 1 to 4.

Appendix 1 – Specific questions for the combustion sector

1 Identify the type of fuel burned in your combustion units (including when your units are started up, shut down and run as normal). If your units are dual fuelled (that is, use two types of fuel), list both the fuels you use

Fill in a separate table for each installation.

Installation reference			
Type of fuel	When run as normal	When started up	When shut down
Coal	☐	☐	☐
Gas oil	☐	☐	☐
Heavy fuel oil	☐	☐	☐
Natural gas	☐	☐	☐
WID waste	☐	☐	☐
Biomass (see notes 1 and 2 below)	☐	☐	☐
Biomass (see notes 1 and 2 below)	☐	☐	☐
Biomass (see notes 1 and 2 below)	☐	☐	☐
Biomass (see notes 1 and 2 below)	☐	☐	☐
Biomass (see notes 1 and 2 below)	☐	☐	☐
Landfill gas	☐	☐	☐
Other	☐	☐	☐

Notes

1. Not covered by Industrial Emissions Directive 2010/75/EU.
2. 'Biomass' is referred to The Renewables Obligation Order 2002 (https://www.legislation.gov.uk/uksi/2002/914/contents/made)

Give extra information if it helps to explain the fuel you use.

Document reference

Appendix 1 – Specific questions for the combustion sector, continued

2 Give the composition range of any fuels you are currently allowed to burn in your combustion plant

Fill in a separate table for each installation, continuing on a separate sheet if necessary

Fuel use and analysis					
Installation reference					
Parameter	Unit	Fuel 1	Fuel 2	Fuel 3	Fuel 4
Maximum percentage of gross thermal input	%				
Moisture	%				
Ash	% wt/wt dry				
Sulphur	% wt/wt dry				
Chlorine	% wt/wt dry				
Arsenic	% wt/wt dry				
Cadmium	% wt/wt dry				
Carbon	% wt/wt dry				
Chromium	% wt/wt dry				
Copper	% wt/wt dry				
Hydrogen	% wt/wt dry				
Lead	% wt/wt dry				
Mercury	% wt/wt dry				
Nickel	% wt/wt dry				
Nitrogen	% wt/wt dry				
Oxygen	% wt/wt dry				
Vanadium	mg/kg dry				
Zinc	mg/kg dry				
Net calorific value	MJ/kg				

Appendix 1 – Specific questions for the combustion sector, continued

3 If NOx factors are necessary for reporting purposes (that is, if you do not need to monitor emissions), please provide the factors associated with burning the relevant fuels

Fill in a separate table for each installation.

Installation reference	
Fuel	NOx factor (kgt^{-1})
Fuel 1	
Fuel 2	
Fuel 3	
Fuel 4	

Note: kgt^{-1} means kilograms of nitrogen oxides released for each tonne of fuel burned.

4 Will your combustion plant be subject to Chapter III of the Industrial Emissions Directive 2010/75/EU?

No ☐ Now fill in application form part F

Yes ☐

5 What is your plant?

an existing one ☐ A plant licensed before 1 July 1987

a new one ☐ A plant licensed on or after 1 July 1987 but before 27 November 2002, or a plant for which an application was made before 27 November 2002 and which was put into operation before 27 November 2003

a new-new one ☐ A plant for which an application was made on or after 27 November 2002

6 If you run more than one type of plant or a number of the same type of plant on your installation, please list them in the table below

Fill in a separate table for each installation.

Installation reference	
Type of plant	Number within installation
Existing	
New	
New-new	
Gas turbine (group A)	
Gas turbine (group B)	

Appendix 1 – Specific questions for the combustion sector, continued

7 If you run an existing plant, have you submitted a declaration for the 'limited life derogation' set out in Article 33 of Chapter III of the Industrial Emissions Directive?

No ☐ Now go to question 9

Yes ☐

8 Have you subsequently withdrawn your declaration?

No ☐

Yes ☐

9 List the existing large combustion plants (LCPs) which have annual mass allowances under the National Emission Reduction Plan (NERP), and those with emission limit values (ELVs) under the LCPD

Installation reference	
LCPs under NERP	LCPs with ELVs

10 Do you meet the monitoring requirements of Chapter III of the Industrial Emissions Directive?

No ☐

Yes ☐ Document reference

11 Have you carried out a cost–benefit assessment (CBA) of opportunities for cogeneration (combined heat and power) or district heating under Article 14 of the Energy Efficiency Directive?

No ☐ Please provide supporting evidence of why a CBA is not required (for example, an agreement from us)

Document reference of this evidence

Yes ☐ Please submit a copy of your CBA

Document reference of the CBA

Appendix 1 – Specific questions for the combustion sector, continued

12 Does your installation need to be combined heat and power-ready (CHP-ready)?

No ☐ Please provide supporting evidence of why a CHP-ready assessment is not required (for example, an agreement from us)

Document reference of this evidence

Yes ☐ Please provide a copy of your CHP-ready assessment

Document reference of the CHP-ready assessment

13 Information to be provided by the operator to the competent authority for each Medium Combustion Plant as identified in Annex I of Medium Combustion Plant Directive (EU/2015/2193)

MCP specific identifier*	See application supporting document
12-digit grid reference or latitude/longitude	
Rated thermal input (MW) of the MCP	
Type of MCP (diesel engine, gas turbine, other engine or other MCP)	
Type of fuels used: gas oil (diesel), natural gas, gaseous fuels other than natural gas, landfill gas	
Date when the new MCP was first put into operation	
Sector of activity of the MCP or the facility in which it is applied (NACE code)	
Expected number of annual operating hours of the MCP and average load in use	

Where the option of exemption under Article 6(8) is used the operator (as identified on Form A) should sign a declaration here that the MCP will not be operated more than the number of hours referred to in this paragraph	

* identifier – the MCP must be traceable via a serial number or other unique identifier, name plate, manufacturer and or model

NACE code means Nomenclature of Economic Activities and is the European statistical classification of economic activities (http://www.export.gov.il/files/EEN/ListNACEcodes.pdf).

To find out the 12-digit grid reference you can search on the UK Grid Reference Finder website at https://gridreferencefinder.com/

Appendix 2 – Specific questions for the chemical sector

1 Please provide a technical description of your activities

- The description should be enough to allow us to understand:
- the process
- the main plant and equipment used for each process
- all reactions, including significant side reactions (that is, the chemistry of the process)
- the material mass flows (including by products and side streams) and the temperatures and pressures in major vessels
- the all emission control systems (both hardware and management systems), for situations which could involve releasing a significant amount of emissions – particularly the main reactions and how they are controlled
- a comparison of the indicative BATs and benchmark emission levels standards: technical guidance notes (TGNs) (see https://www.gov.uk/government/collections/technical-guidance-for-regulated-industry-sectors-environmental-permitting); additional guidance 'The production of large volume organic chemicals' (EPR 4.01); 'Speciality organic chemicals sector' (EPR 4.02); 'Inorganic chemicals sector' (EPR 4.03); and best available techniques reference documents (BREFs) for the chemical sector

Document reference

2 If you are applying for a multi-purpose plant, do you have a multi-product protocol in place to control the changes?

No ☐

Yes ☐ Provide a copy of your protocol to accompany this application

Document reference

3 Does Chapter V of the Industrial Emissions Directive (IED) apply to your activities?

No ☐

Yes ☐ Fill in the following

3a List the activities which are controlled under the IED

Installation reference	
Activities	

3b Describe how the list of activities in question 3a above meets the requirements of the IED

Document reference

Appendix 3 – Specific questions for the waste incineration sector

If you are proposing to accept clinical waste, please complete your answer to question 3a 'Technical standards' with reference to relevant parts of our healthcare waste appropriate measures guidance (see https://www.gov.uk/guidance/healthcare-waste-appropriate-measures-for-permitted-facilities)

1a Do you run incineration plants as defined by Chapter IV of the Industrial Emissions Directive (IED)?

No ☐ You do not need to answer any other questions in this appendix

Yes ☐ IED applies

1b Are you subject to IED as

An incinerator? ☐

A co-incinerator? ☐

2 Do any of the installations contain more than one incineration line?

No ☐ Now go to question 4

Yes ☐

3 How many incineration lines are there within each installation?

Fill in a separate table for each installation.

Installation reference		
Number of incineration lines within the installation		
Reference identifiers for each line		

You must provide the information we ask for in questions 4, 5 and 6 below in separate documents. The information must at least include all the details set out in section 2 ('Key Issues') of S5.01 'Incineration of waste: additional guidance' (under the sub heading 'European legislation and your application for an EP Permit'). See https://www.gov.uk/government/collections/technical-guidance-for-regulated-industry-sectors-environmental-permitting.

You must answer questions 7 to 13 on the form below.

4 Describe how the plant is designed, equipped and will be run to make sure it meets the requirements of IED, taking into account the categories of waste which will be incinerated

Document reference

5 Describe how the heat created during the incineration and co-incineration process is recovered as far as possible (for example, through combined heat and power, creating process steam or district heating)

Document reference

Appendix 3 – Specific questions for the waste incineration sector, continued

6 Describe how you will limit the amount and harmful effects of residues and describe how they will be recycled where this is appropriate

Document reference

For each line identified in question 3, answer questions 7 to 13 below

Question 3 identifier, if necessary

7 Do you want to take advantage of the Article 45 (1)(f) allowance (see below) if the particulates, CO or TOC continuous emission monitors (CEM) fail?

No ☐

Yes ☐ This allows 'abnormal operation' of the incineration plant under certain circumstances when the CEM for releases to air have failed. Annex VI, Part 3(2) sets maximum half hourly average release levels for particulates (150 mg/m3), CO (normal ELV) and TOC (normal ELV) during abnormal operation.

Describe the other system you use to show you keep to the requirements of Article 13(4) (for example, using another CEM, providing a portable CEM to insert if the main CEM fails, and so on).

8 Do you want to replace continuous HF emission monitoring with periodic hydrogen fluoride (HF) emission monitoring by relying on continuous hydrogen chloride (HCl) monitoring as allowed by IED Annex VI, Part 6 (2.3)?

Under this you do not have to continuously monitor emissions for hydrogen fluoride if you control hydrogen chloride and keep it to a level below the HCl ELVs.

No ☐

Yes ☐ Please give your reasons for doing this

Appendix 3 – Specific questions for the waste incineration sector, continued

9 Do you want to replace continuous water vapour monitoring with pre-analysis drying of exhaust gas samples, as allowed by IED Annex VI, Part 6 (2.4)?

Under this you do not have to continuously monitor the amount of water vapour in the air released if the sampled exhaust gas is dried before the emissions are analysed.

No ☐

Yes ☐ Please give your reasons for doing this

10 Do you want to replace continuous hydrogen chloride (HCl) emission monitoring with periodic HCl emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?

Under this you do not have to continuously monitor emissions for hydrogen chloride if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No ☐

Yes ☐ Please give your reasons for doing this

Appendix 3 – Specific questions for the waste incineration sector, continued

11 Do you want to replace continuous HF emission monitoring with periodic HF emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?

Under this you do not have to continuously monitor emissions for hydrogen fluoride if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No ☐

Yes ☐ Please give your reasons for doing this

12 Do you want to replace continuous SO2 emission monitoring with periodic sulphur dioxide (SO2) emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?

Under this you do not have to continuously monitor emissions for sulphur dioxide if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No ☐

Yes ☐ Please give your reasons for doing this

Appendix 3 – Specific questions for the waste incineration sector, continued

13 If your plant uses fluidised bed technology, do you want to apply for a derogation of the CO WID ELV to a maximum of 100 mg/m³ as an hourly average, as allowed by IED Annex VI, Part 3?

No ☐

Does not apply ☐

Yes ☐ Please give your reasons for doing this

14 Have you carried out a cost–benefit assessment (CBA) of opportunities for cogeneration (combined heat and power) or district heating under Article 14 of the Energy Efficiency Directive?

No ☐ Please provide supporting evidence of why a CBA is not required (for example, an agreement from us)

Document reference of this evidence

Yes ☐ Please submit a copy of your CBA

Document reference of the CBA

15 Does your installation need to be combined heat and power-ready (CHP-ready)?

No ☐ Please provide supporting evidence of why a CHP-ready assessment is not required (for example, an agreement from us)

Document reference of this evidence

Yes ☐ Please provide a copy of your CHP-ready assessment

Document reference of the CHP-ready assessment

Appendix 4 – Specific questions for the landfill sector and recovery of hazardous waste on land activities

1. For the landfill sector, provide your Environmental Setting and Installation Design (ESID) report and any other risk assessments to control emissions.

For recovery of hazardous waste on land activities, provide your Environmental Setting and Site Design (ESSD) report and any other risk assessments to control emissions

Document reference

2. For recovery of hazardous waste on land activities, provide your Waste Acceptance Procedures (including Waste Acceptance Criteria)

Document reference

Refer to our guidance at

https://www.gov.uk/government/publications/deposit-for-recovery-operators-environmental-permits/waste-acceptance-procedures-for-deposit-for-recovery

3. Provide your hydrogeological risk assessment (HRA) for the site

Document reference

4. Provide your outline engineering plan for the site

Document reference

5. Provide your stability risk assessment (SRA) for the site

Document reference

6. Provide your landfill gas risk assessment (LFGRA) for the site

Document reference

We have developed guidance on these assessments and their reports which can be found at
https://www.gov.uk/government/collections/environmental-permitting-landfill-sector-technical-guidance

7. For recovery of hazardous waste on land activities, have you completed a monitoring plan for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Document reference of this evidence

Yes ☐ Document reference

Appendix 4 – Specific questions for the landfill sector and recovery of hazardous waste on land activities, continued

8. Have you completed a proposed plan for closing the site and your procedures for looking after the site once it has closed?

No ☐ If you have answered 'no' for recovery of hazardous waste on land activities, refer to the section of your ESSD that explains why this is unnecessary for your site

Document reference of this evidence

Yes ☐ For landfill you must provide a closure and aftercare plan

Document reference

Application for an environmental permit
Part B4 – New bespoke waste operation permit

Environment Agency

Fill in this part of the form, together with parts A, B2 and F1, if you are applying for a new bespoke permit for a waste operation. Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it.

You can apply online for waste bespoke environmental permits.

Apply online for an environmental permit.

The form can be:

1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
2) printed off and filled in by hand. Please write clearly in the answer spaces.

It will take less than three hours to fill in this part of the application form.

Contents

1 What waste operations are you applying for?

Fill in Table 1a with details of what you are applying for.

Fill in a separate table for each waste operation you are applying for. Use a separate sheet if you have a long list and send it to us with your application form. Tell us below the reference you have given the extra sheet.

Document reference: See application support document

Types of waste accepted

For each line in Table 1a, fill in a separate document to list those wastes you will accept on the site for that operation, giving the List of Wastes catalogue code (search for 'Technical guidance on how to assess and classify waste' at www.gov.uk/government/organisations/environment-agency). If you need to exclude waste from your activity or facility by restricting the description, quantity, physical nature, hazardous properties, composition or characteristic of the waste, include these in the document. Send it to us with your application form.

1 What waste operations are you applying for?, continued

Table 1a – Waste operations which do not form part of an installation

Name of the waste operation	Description of the waste operation	Annex I (D codes) and Annex II (R codes) and descriptions	Hazardous waste treatment capacity (if this applies) (See note 1)	Non-hazardous waste treatment capacity (if this applies) (See note 1)
Add extra rows if you need them. If you do not have enough room, go to the line below or send a separate document and give us the document reference here	Use the description from the guidance. Include any extra detail that you think would help to accurately describe what you want to do			
Stanley Downton STW	See application support document			
For all waste operations	Total storage capacity (see note 2)			
	Annual throughput (tonnes each year)			

Notes

1 By 'capacity', we mean:

- the total landfill capacity (cubic metres) for landfills
- the total treatment capacity (tonnes each day) for waste treatment
- the total storage capacity (tonnes) for waste-storage operations

2 By 'total storage capacity', we mean the maximum amount of waste in tonnes you store on the site at any one time.

1 What waste operations are you applying to vary?, continued

Please provide the document reference. You can use Table 1b as a template.

If you want to accept any waste with a code ending in 99, you must provide more information and a full description of the waste in the document, (for example, detailing the source, nature and composition of the waste). Where you only want to receive specific wastes within a waste code you can provide further details of the waste you want to receive. Where a waste is dual coded you should use both codes for the waste.

Document reference: See application support document

Table 1b – Template example – types of waste accepted and restrictions

Waste code	Description of the waste
Example	Example
02 01 08*	Agrochemical waste containing hazardous substances
18 01 03*	Infectious clinical waste, not contaminated with chemicals or medicines – human healthcare (may contain sharps) for alternative treatment
17 05 03*/17 06 05*	Non-hazardous soil from construction or demolition contaminated with fragments of asbestos cement sheet

1c Deposit for recovery purposes (see Appendix 4 and the guidance notes on part B4)

Are you applying for a waste recovery activity involving the permanent deposit on waste on land for construction or land reclamation (including landfill restoration)?

No ☑ Go to section 2

Yes ☐

Are you applying for an inert landfill permit that includes a restoration activity using waste?

No ☐ Go to section 2

Yes ☐ Please send us a copy of your restoration plan in accordance with our guidance at https://www.gov.uk/guidance/landfill-operators-environmental-permits/restore-your-landfill-site

Have we advised you during pre-application discussions that we believe the activity is waste recovery?

No ☐ Go to section 2

Yes ☐

Have there been any changes to your proposal since the discussions?

No ☐

Yes ☐

Please send us a copy of your waste recovery plan that complies with our guidance at https://www.gov.uk/guidance/waste-recovery-plans-and-permits. You need to highlight any changes you have made since your pre-application discussions. Also give us the reference number of the document with your justification.

Please note that there is an additional charge for the assessment of a waste recovery plan that must be submitted as part of this application. For the charge see https://www.gov.uk/topic/environmental-management/environmental-permits.

Document reference

2 Point source emissions to air, water and land

Fill in Table 2 below with details of the point source emissions that result from the operating techniques at each of your waste operations.

Fill in one table for each waste operation.

Table 2 – Emissions

Name of the waste operation	Stanley Downton STW			
Point source emissions to air				
Emission point reference and location	Source	Parameter	Quantity	Unit
See application support document				
Point source emissions to water (other than sewers)				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				
Point source emissions to sewers, effluent treatment plants or other transfers off site				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				
Point source emissions to land				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				

Supporting information

3 Operating techniques

3a Technical standards

Fill in Table 3a for each waste operation you refer to in Table 1a above and list the 'appropriate measures' you are planning to use. If you are using the standards set out in the relevant technical guidance(s) (TGN) there is no need to justify using them within your documents in Table 3a.

You must justify your decisions in a separate document if:

- there is no technical standard
- the technical guidance provides a choice of standards, or
- you plan to use another standard

This justification could include a reference to the Environmental Risk Assessment provided in part B2 of the application form.

Table 3a should summarise:

- the operations undertaken
- the measures you will use to control the emissions from your process, as identified in your risk assessment or the relevant technical guidance
- how you will meet other standards set out in the relevant technical guidance

Table 3a – Technical standards

Fill in a separate table for each waste operation.

Waste operation	Roundhill STW	
Description of the waste operation Add extra rows if you need them	Appropriate measure (TGN reference)	Document reference (if appropriate)
See application support document		

In all cases, describe the type of facility or operation you are applying for and provide site infrastructure plans, location plans and process flow diagrams or block diagrams to help describe the operations and processes undertaken. Give the document references you use for each plan, diagram and description.

Document reference: See application support document

3b General requirements

Fill in a separate table for each waste operation.

Table 3b – General requirements

Name of the waste operation	
If the technical guidance or your risk assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them	Document reference or references See application support document
If the technical guidance or your risk assessment shows that odours are an important issue, send us your odour management plan. **If your activity type is listed in the guidance document 'Control and monitor emissions for your environmental permit' as needing an odour management plan, or your risk assessment shows that odours are an important issue, you need to send us your odour management plan.**	Document reference or references See application support document
If the technical guidance or your risk assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)	Document reference or references N/A

3 Operating techniques, continued

We may need to ask for management plans or risk assessments in other circumstances based on our regulatory experience. If you are unsure as to whether you need to submit a management plan with your application, please discuss this with the Environment Agency prior to submission.

Search for 'Risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency.

3c Information for specific sectors

For some of the sectors, we need more information to be able to set appropriate conditions in the permit. This is as well as the information you may provide in sections 5, 6 and 7. For those activities listed in Table 3c, you must answer the questions in the related document.

Table 3c – Questions for specific sectors

Sector	Appendix
Recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes	See the questions in appendix 1
Inert landfill and deposit of waste on land for construction, land reclamation, restoration or improvement	See the questions in appendix 2

General information

4 Monitoring

4a Describe the measures you use for monitoring emissions by referring to each emission point in Table 2 above

You should also describe any environmental monitoring. Tell us:

- how often you use these measures
- the methods you use
- the procedures you follow to assess the measures

Document reference: See application support document

4b Point source emissions to air only

Provide an assessment of the sampling locations used to measure point source emissions to air. The assessment must use M1 (search for 'M1 sampling requirements for stack emission monitoring' at www.gov.uk/government/organisations/environment-agency).

Document reference of the assessment: See application support document

5 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please ☐

No thank you ☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐ Amount received

£

Plain English Campaign's Crystal Mark does not apply to appendices 1 to 2.

Appendix 1 – Specific questions for the recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes

1 Please provide an accurate and reliable characterisation of your compost like outputs (CLO). This should be based on sampling and analysis of the CLO produced by the treatment (MBT) process over a 12-month period and in accordance with section 2 of TGN 6.15

Document reference

2 Please provide an agricultural benefit assessment for the use of your CLO. This should be based on section 2 of TGN 6.15 and should be signed and dated by an appropriate technical expert

Document reference

3 Please provide a site-specific risk assessment of risks to soil and food chain receptors. This should be based on Schedule 2 of TGN 6.15 and include a map with a green outline showing the boundary of the area being treated and include:

- locations where the waste will be stored and spread
- any spring, well or borehole used to supply water for domestic or food production purposes that is within 250 metres of the area being treated
- any spring, well or borehole not being used for domestic or food production purposes that is within 50 metres of the area being treated
- any European designated sites (candidate or Special Area of Conservation, proposed or Special Protections Area in England and Wales or Ramsar Site) or Sites of Special Scientific Interest (SSSI) which are within 500 metres of the place where waste is to be stored or spread
- the location of public rights of way
- any Groundwater Source Protection Zones
- surface watercourses
- any buildings or houses within 250 metres of the area being treated
- land drains within the boundary

Document reference

4 Are the technical standards and measures fully in line with those set out in section 3 of TGN 6.15?

No ☐ Provide justification for departure from TGN 6.15 and a copy of the proposed technical standards, measures or procedures

Document reference

Yes ☐

Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations

1 Please provide your Environmental Setting and Site Design (ESSD) report

Document reference

Note: You should use the Environment Agency template to help you develop an environmental setting and site design (ESSD) report.

2 Please provide your Waste Acceptance Procedures (including Waste Acceptance Criteria)

Document reference

3 Have you provided a hydrogeological risk assessment (HRA) for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

4 Have you completed an outline engineering plan for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

5 Have you provided a stability risk assessment (SRA) for your site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations, continued

6 Have you completed a monitoring plan for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

7 Have you completed a plan for closing the site and procedures for looking after the site once it has closed?

No ☐ If no for deposit for recovery activities please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ For inert waste landfill you must provide a closure plan

Document reference

Spreading waste to support plant growth

8a Does the activity involve the deposit of waste to create or treat a growing medium (R10 for land treatment)?

No ☐

Yes ☐

8b If you answered 'yes' to question 8a, does the R10 activity include the spreading of waste to improve the quality of the growing medium (e.g. soil conditioner to improve existing soil profile)?

No ☐

Yes ☐ Go to question 8c

8c If you have answered 'Yes' to question 8b, have you completed a benefit statement?

No ☐ Please explain why

Document reference

Yes ☐

Note: Refer to our guidance when completing your statement (including EPR 8.01, section 6).

Application for an environmental permit Part B6 – New bespoke water discharge activity or groundwater activity (point source discharge) or point source emission to water from an installation

Environment Agency

Fill in this part of the form, together with parts A, B2 and F1, if you are applying for a new bespoke permit for a water discharge activity or a point source discharge groundwater activity.

Fill in this part of the form, together with parts A, B2, B3 and F1, if you are applying for a new bespoke permit for an installation where a point source emission to water, groundwater or sewer forms part of the operation.

Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it. The form can be:

1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.

2) printed off and filled in by hand. Please write clearly in the answer spaces.

If you want to apply for a standalone discharge of treated domestic sewage effluent of up to fifteen cubic metres (15 m^3) a day to ground or up to twenty cubic metres (20 m^3) a day to surface water, please fill in form B6.5.

It will take less than three hours to fill in this part of the application form.

Contents

1 About the effluent – details and type

From the list below, choose which type of effluent you are applying for on this form and answer the questions shown in Table 1.

You must fill in a separate copy of this form and the appropriate appendix or appendices for each type of effluent you plan to discharge.

Table 1 – About the effluent

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Sewage effluent (non-water company)	1.3.8 Sewage effluent discharge with a volume greater than 15 m^3/day to groundwater (not requiring specific substances assessment)	☐	All	a, b, c, d	b, f	-	a, b	All	-	d, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)	☐	All	a, b, c, d	b, f	-	a, b	All	b, c, d, e	d, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.10 Sewage effluent discharge with a volume greater than 5 m^3/day up to and including 50 m^3/day to surface water (not requiring specific substances assessment)	☐	All	a, b, c, d	b, f	-	a, b	All	-	b*, f*	a, b, c, f*, h, i	All
	1.3.11 Sewage effluent discharge with a volume greater than 50 m^3/day to surface water (not requiring specific substances assessment)	☐	All	a, b, c, d	b, f	-	a, b	All	-	b*, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)	☐	All	a, b, c, d	b, f	-	a, b	All	b, c, d, e	b*, c, f*	a, b, c, d*, e*, f*, h, i	All

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Water company WwTW treated sewage effluent	1.3.8 Sewage effluent discharge with a volume greater than 15 m^3/day to groundwater (not requiring specific substances assessment)	☐	All	a, b	a, f (b is optional)	-	-	All	-	a, d, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)	☐	All	a, b	a, f (b is optional)	-	-	All	a, b, c, d, e	a, d, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.10 Sewage effluent discharge with a volume greater than 5 m^3/day up to and including 50 m^3/day to surface water (not requiring specific substances assessment)	☐	All	a, b	a, f (b is optional)	-	-	All	-	a, b*, f*	a, b, c, f*, h, i	All
	1.3.11 Sewage effluent discharge with a volume greater than 50 m^3/day to surface water (not requiring specific substances assessment)	☐	All	a, b	a, f (b is optional)	-	-	All	-	a, b*, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)	☐	All	a, b	a, f (b is optional)	-	-	All	a, b, c, d, e	a, b*, c, f*	a, b, c, d*, e*, f*, h, i	All

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Settled storm sewage	1.3.19 Combined sewer overflow	☐	All	a, b	-	a, b, c, d, f, g, h, i, j, k	-	All	-	a, b*, d*, f*	b, g, h, i	All
Storm sewage	1.3.19 Combined sewer overflow	☐	All	a, b	-	a, b, c, e, f, g, h, i, j, k	-	All	-	a, b*, d*, f*	b, g, h, i	All
Emergency overflow	1.3.20 Emergency overflows	☐	All	a, b	-	a, l, m, n, o	-	All	-	a, b*, d*, f*	b, g, h, i	All
Trade and/or non-sewage – known volume	1.3.12 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume up to and including 5 m^3/ day (not requiring specific substances assessment)	☐	All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, d*, f*	b, f*, h, i	All
	1.3.13 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume greater than 5 m^3/ day (not requiring specific substances assessment)	☐	All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, d*, f*	b, d*, e*, f*, h, i	All
	1.3.14 Trade and/or non-sewage effluent discharge to surface water or groundwater requiring specific substances assessment (any volume)	☐	All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, d*, f*,c*	b, d*, e*, f*, h, i	All

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Trade and/or non-sewage – rainfall-dependent	1.3.12 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume up to and including 5 m^3/day (not requiring specific substances assessment)	☐	All	a, b	b, e, f	-	-	All	b, c, d, e	b*, d*, f*	b, f*, h, i	All
	1.3.13 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume greater than 5 m^3/day (not requiring specific substances assessment)	☐	All	a, b	b, e, f	-	-	All	b, c, d, e	b*, d*, f*	b, d*, e*, f*, h, i	All
	1.3.14 Trade and/or non-sewage effluent discharge to surface water or groundwater requiring specific substances assessment (any volume)	☐	All	a, b	b, e, f	-	-	All	b, d, e	b*, c, d*, f*	b, d*, e*, f*, h, i	All
Mixed effluent (sewage combined with trade and/or non-sewage) – known volume	1.3.8 Sewage effluent discharge with a volume greater than 15 m^3/day to groundwater (not requiring specific substances assessment	☐	All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	d, f	a, b, c, d*, e*, f*, h, i	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)	☐	All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	d,f*	a, b, c, d*, e*, f*, h, i	All

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Mixed effluent (sewage combined with trade and/or non-sewage) – known volume	1.3.10 Sewage effluent discharge with a volume greater than 5 m^3/day up to and including 50 m^3/day to surface water (not requiring specific substances assessment)	☐	All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, f*	a, b, c, f*, h, i	All
	1.3.11 Sewage effluent discharge with a volume greater than 50 m^3/day to surface water (not requiring specific substances assessment)	☐	All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)	☐	All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b, c, d	a, b, c, d*, e*, f*, h, i	All
Mixed effluent (sewage combined with trade and/or non-sewage) containing rainfall-dependent effluent	1.3.8 Sewage effluent discharge with a volume greater than 15 m^3/day to groundwater (not requiring specific substances assessment)	☐	All	a, b	b, c, d, e, f	-	a, b	All	b, c, d, e	d, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)	☐	All	a, b	b, c, d, e, f	-	a, b	All	b, c, d, e	d, f*	a, b, c, d*, e*, f*, h, i	All

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
	1.3.10 Sewage effluent discharge with a volume greater than 5 m^3/ day up to and including 50 m^3/ day to surface water (not requiring specific substances assessment)	☐	All	a, b	b, c, d, e, f	- a, b		All	b, c, d, e	b*, f*	a, b, c, f*, h, i	All
Mixed effluent (sewage combined with trade and/or non-sewage) containing rainfall-dependent effluent	1.3.11 Sewage effluent discharge with a volume greater than 50 m^3/ day to surface water (not requiring specific substances assessment)	☐	All	a, b	b, c, d, e, f	-	a, b	All	b, c, d, e	b*, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)	☐	All	a, b	b, c, d, e, f	-	a, b	All	b, c, d, e	b*, c, f*	a, b, c, d*, e*, f*, h, i	All
Trade – returned abstracted water (including ground source heating and cooling)	1.3.15 Cooling water or thermal discharge to surface water or groundwater (not requiring specific substances assessment)	☐	All	a, b, c, d	b, c, f	-	-	All	b, c, d, e, f, g	b*, d*, f*	a*, b, d*, e*, f*, h, i	All
	1.3.16 Cooling water or thermal discharge to surface water or groundwater requiring specific substances assessment	☐	All	a, b, c, d	b, c, f	-	-	All	b, c, d, e, f, g	b*, c, d*, f*	a*, b, d*, e*, f*, h, i	All

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
	1.3.17 Aquaculture (not requiring specific substances assessment)	☐	All	a, b, c, d	b, c, f	-	-	All	b, c, d, e	b*, d*, f*	a*, b, d*, e*, f*, h, i	All
Trade – returned abstracted water (including ground source heating and cooling)	1.3.18 Aquaculture requiring specific substances assessment	☐	All	a, b, c, d	b, c, f	-	-	All	b, c, d, e	b*, c, d*, f*	a*, b, d*, e*, f*, h, i	All
Effluent and/or contaminated surface water run-off arising from the operation of an installation	No additional charge, as already included as part of the installation permit application charge	☐	a, b, d	c	b, c, d, f	--	a, b2	a, b, c	b, c, d, e, f, g	b, d, e, f	a, b, d, e, f, h, i	a, b, c

* Check the relevant question and our guidance notes on part B6 to see if you need to give an answer.

1 About the effluent – details and type, continued

1a Give a brief description of the effluent discharge you want a permit for, for example, treated domestic sewage effluent

See application supporting document

1b Give this effluent a unique name

See application supporting document

You must use this name to identify this effluent throughout this application and all associated documents.

1c Is this a release from a dam, weir or sluice ('reservoir release') under Schedule 21 of the EPR meaning of water discharge activity?

Yes

No

1d Have you obtained all the necessary permissions in addition to this environmental permit to be able to carry out the discharge (see B6 guidance notes for more details)?

Yes ✔

No

N/A

2 About the effluent – how long will you need to discharge the effluent for?

2a What date do you want the permit for this effluent to start? _____ (DD/MM/YYYY)

Please note that this is the date that your annual subsistence charges will start, even if you have not started to discharge, unless you contact us to change (delay) the start date (see the guidance notes on part B6). The start date cannot be before the permit is issued and cannot be changed (delayed) after it has already passed.

2b Is the discharge time limited?

Yes ☐ Please give the date you expect the discharge to end but please note that your permit will not end on that date and you will still need to notify us to surrender the permit _____ (DD/MM/YYYY)

No ☐

2c Will the discharge take place all year?

Yes ☑

No ☐ Please give details of the months when you will make the discharge _____

2d Will the discharge take place on more than six days in any year?

Yes

No

3 How much do you want to discharge?

3a What is the daily dry weather flow? _____ cubic metres

3b What is the maximum volume of effluent you will discharge in a day? 150.00 cubic metres

Show how you calculated the figure given in the box below and continue on a separate sheet if necessary, giving a reference for the extra sheet

See application supporting document

Document reference _____

3c What is the maximum rate of discharge? 10.50 litres a second

3d What is the maximum volume of non-rainfall dependent effluent you will discharge in a day? 905.00 cubic metres

3e What is the maximum rate of rainfall dependent discharge? _____ litres a second

3f For each answer in question 3, show how you worked out the figure on a separate sheet

Document reference See application supporting document

4 Intermittent sewage discharges

4a For each answer to 4b to 4o below, show how you worked out the figure on a separate sheet

Document reference See application supporting document

4b What is the total volume of the off-line/storm tank storage? _____ cubic metres

4c What is the total volume of on-line storage? _____ cubic metres

4d What is the pass forward flow at the settled storm overflow setting? _____ litres a second

4e What is the pass forward flow at the storm overflow setting? _____ litres a second

4f Is the discharge screened?

Yes ☐ Answer the relevant questions from 4g to 4j

No ☐ Now go to 4k

4g What is the mesh screen spacing? ⌊_____⌋ millimetres

4h What is the minimum screen capacity flow through the mesh screen? ⌊_____⌋ litres a second

4i What is the bar screen spacing? ⌊_____⌋ millimetres

4j What is the minimum screen capacity flow through the bar screen? ⌊_____⌋ litres a second

4k Is the overflow constructed to good engineering design?

Yes

No On a separate sheet explain what standards the overflow has been constructed to

Document reference ⌊_____⌋

4l What is the emergency storage capacity of the sewer and wet well? ⌊_____⌋ cubic metres

4m What is the storage time within the sewer and the wet well above the top water level at dry weather flow? ⌊_____⌋ hours and minutes

4n What is the pass forward flow at the pumping station? ⌊_____⌋ litres a second

4o For intermittent emergency overflows you must provide a document setting out the key protection measures you will provide

Document reference for pumping station key protection measures ⌊_____⌋

5 Should your discharge be made to the foul sewer?

Foul sewer means public or private foul sewer.

Before answering these questions, you must read the guidance notes to part B6.

You will also need to contact your sewerage undertaker (usually your local water company) and you may need to check if it is possible to connect to a private foul sewer.

5a How far away is the nearest foul sewer from the boundary of the premises? 0.00 metres

5b To assess whether it is reasonable to discharge your effluent into the foul sewer, please answer 5b1 or 5b2

5b1 Discharges from domestic properties

Multiply the number of properties served by the sewage treatment system by 30 metres.

Number of domestic properties served by the sewage treatment system metres [ ] × 30 metres = [ ] metres

5b2 Discharges from all other premises including trade effluent

Divide the volume of the discharge (in cubic metres) by 0.75 and then multiply this figure by 30 metres.

Volume of the discharge (answer to question 3b) [ ] cubic metres / 0.75 = [ ] × 30 = [ ] metres

Is your answer to question 5b1 or 5b2 above greater than the distance to the nearest foul sewer (answer to 5a)?

No ☐ You do not need to explain why you cannot discharge your effluent into the foul sewer at this point. However, we may request this information from you when we determine your application. Now go to question 6.

Yes ☐ You must explain on a separate sheet why you cannot discharge your effluent into the foul sewer, giving a reference for the extra sheet. Before you submit the application, you must explore the possibility of connecting to the foul sewer, and send us evidence that you have approached the sewerage undertaker, including their formal response regarding connection, if relevant. You must also show the extra cost of connecting to a sewer compared with the treatment system you propose, and details of any physical obstacles such as roads, railways, rivers or canals.

We will only agree to the use of private treatment systems within sewered areas if you can demonstrate that:

- the additional cost of connecting to the foul sewer would be unreasonable
- connection is not practically feasible, or
- the proposed private treatment system can be shown to significantly benefit the environment

We are unlikely to grant a permit for a discharge of treated domestic sewage in circumstances where a private sewerage system is being proposed due to a lack of capacity in the nearest public sewerage network.

The guidance notes to part B6 will help you understand what information you need to provide in order to answer this question.

Document reference for where you have given this justification [ ]

6 How will the effluent be treated?

6a Do you treat your effluent?

Yes ☑ Now go to question 6b

No ☐ You must explain why the effluent will not be treated

Document reference for where you have given this justification

6b Fill in Table 2 for each stage of the treatments carried out on your effluent in the order in which they are carried out

For installations with point source emission to water or sewer, there is no need to duplicate information already provided in part B3 form. Where this information is already provided, give the document reference and go to question 7.

Document reference: See application supporting document

Table 2 – Treatments carried out on your effluent

Order of treatment	Code number	Description
First		
Second		
Third		
Fourth		

Continue on a separate sheet if you need more rows. If you prefer, you can also send us an overall design for the whole treatment process.

Document reference

6c You must provide details on a separate sheet of the final effluent discharge quality that the overall treatment system is designed to achieve

Document reference

7 What will be in the effluent?

For all applications, whether to surface water, or onto or into ground, you should still check to see if your discharge is likely to contain any of the specific substances listed in the guidance documents on 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' (see https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit)

Answer the relevant questions for your discharge below.

7a Are any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' likely to enter the sewerage system upstream of the discharge through any authorised or known inputs?

Yes ☐

No ☐

7b Are any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' added to or present in the effluent as a result of the activities on the site?

Yes

No ✔

7c Have any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' been detected in samples of the effluent or in the sewerage catchment upstream of the discharge?

Yes

No ✔

7d Are there any other harmful or specific substances in your effluent not mentioned in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater'?

Yes ☐

No ☑

7e If you have answered 'No' to any of questions 7a to 7d provide details on a separate sheet of how you have established that the effluent is not likely to contain specific substances.

Document reference: See application supporting document

7f What is the maximum temperature of your discharge?

20.00 degrees Celsius

7g What is the maximum expected temperature change compared to the incoming water supply?

0.00 increase in degrees Celsius

0.00 decrease in degrees Celsius

8 Environmental risk assessments and modelling

You may need to carry out an environmental risk assessment or modelling to support your application. Please answer all the questions that are relevant to your discharge. If an environmental risk assessment or modelling is required, you must send it to us with your application.

8a Sewer modelling report (for discharges of final effluent from a water company WwTW or intermittent sewage discharges)

You must carry out sewer modelling following the guidance 'Surface water pollution risk assessment for your environmental permit' (see https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit). Send us details of how the modelling was carried out and the outcome.

Document reference for the sewer modelling report

8b Discharges to lakes, estuaries, coastal waters or bathing waters

You must carry out modelling following the guidance 'Surface water pollution risk assessment for your environmental permit' (see https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit). Send us details of how the modelling was carried out and the outcome.

Document reference for the modelling report

8c Discharges to freshwater (non-tidal) rivers

If the discharge contains, or potentially contains, any specific substances, you must carry out screening following the guidance (see https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit). The guidance notes on part B6 outline the information you must provide.

Have you answered yes to any of 7a to 7d?

Yes ☐ Send us the completed screening tool, along with the raw data used to create the summary statistics

Document reference for the screening tool and raw data

No ☐

8d Discharges to groundwater

You must carry out a groundwater quantitative risk assessment following the guidance in 'Groundwater risk assessment for your environmental permit' (see https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit).

Send us details of how the modelling was carried out and the outcome.

For groundwater remediation schemes you must send us a site-specific remediation strategy that has been agreed with the local Environment Agency Groundwater and Contaminated Land Team.

Document reference for the groundwater remediation report

8e Discharges to freshwater (non-tidal) rivers from an installation, including discharges via sewer

If the discharge contains, or potentially contains, any specific substances, you must carry out screening following the guidance (see https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit). The guidance notes on part B6 outline the information you must provide.

Have you answered yes to any of 7a to 7d?

Yes ☐ Send us the completed screening tool, along with the raw data used to create the summary statistics. Where the discharge is via sewer, include sewage treatment reduction factors in the calculations.

Document reference for the screening tool and raw data

There is no need to duplicate information already provided in part B3 form. Where this information is already provided, give the document reference above.

No ☑

8f Environmental impact assessment

Have you carried out an environmental impact assessment?

Yes ☐ Send us details of how the assessment was carried out and the outcome

Document reference for the environmental impact assessment

No ☑

9 Monitoring arrangements

Note: If your effluent has a maximum volume of no more than 50 cubic metres a day you do not need to complete question 9d or 9e.

9a What is the national grid reference of the inlet sampling point? (for example, SJ 12345 67890)

N / A

9b What is the national grid reference of the effluent sample point?

SO 7904 3151

9c Do you have an Urban Waste Water Treatment Directive final effluent sampling point?

Yes ☐ Please provide the national grid reference

No ☑

9d What is the national grid reference of the flow monitoring point?

9e Does the flow monitor have an MCERTS certificate?

Yes ☐ Please give the certificate number

No ☑

9f Do you have a UV disinfection efficacy monitoring point?

Yes ☐ Please provide the national grid reference

No ☑

9g Do you have an event duration monitoring point(s)?

Yes ☐ Please provide the national grid reference

No ☐

9h You should clearly mark on the plan the locations of any of the above that apply to this effluent

Document reference for the plan

See application supporting document

9i Do you intend to do your own effluent monitoring?

Yes ☐

No ☐

10 Where will the effluent discharge to?

10a Mark in Table 3 where this effluent discharges to and fill in the relevant appendix or appendices.

You must use the name you gave to this effluent in answer to question 1b of this form when filling in your relevant appendix or appendices.

Table 3 – Where the effluent discharges to

Receiving environment		Relevant appendix
Borehole or well	☐	1
Into land (for example, through a drainage system)	☐	2
Onto land	☐	3
Tidal river, tidal stream, estuary or coastal waters	☐	4
Non-tidal river, stream or canal	☑	5
Lake or pond	☐	6

10b Is this effluent discharged through more than one outlet?

Yes ☐ Give details, on a separate sheet, of the circumstances under which each outlet would be used by this effluent

Document reference

No ☑

10c If you answered yes to question 10b above make sure you show clearly on your discharge point appendix or appendices and site plan that this one effluent can discharge to more than one discharge point.

You must give us all the details we need for each of the discharge points used by this effluent.

11 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

No thank you

Crystal Mark 19107 Clarity approved by Plain English Campaign

For Environment Agency use only

Date received (DD/MM/YYYY)

Payment received?

No ☐

Our reference number

Yes ☐ Amount received

£

Plain English Campaign's Crystal Mark does not apply to appendices 1 to 6.

Appendix 1 – Discharges to a borehole or well (or other deep structure)

If you are discharging the effluent to a borehole or well or other deep structure (such as concrete rings, natural swallow hole or deep soakage pit) you must ensure that the discharge is indirect to groundwater. Direct discharges to groundwater cannot be permitted. We will undertake a groundwater quantitative risk assessment on your behalf in line with the guidance 'Groundwater risk assessment for your environmental permit' (see https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit)

For us to do this you must answer the following questions relevant to your application and provide us with additional information as summarised in Table 4.

Without this information we will be unable to complete the risk assessment and it is likely your application will be rejected.

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

1.1 Give the discharge point a unique name

For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan) ⌊_____⌋

1.2 Give the national grid reference of the discharge point ⌊_____⌋

1.3 Is the discharge to ground via a

Well ☐

Borehole ☐

Other deep structure ☐ Please give details (e.g. concrete ring structure, shaft, natural swallow hole, soakage pit etc.)

1.4 What is the diameter of the borehole, well or other deep structure that the effluent will be discharged into? ⌊_____⌋ metres

1.5 Is the borehole, well or other structure already constructed?

Yes ☐ Now answer questions 1.6 to 1.9

No ☐ Now answer questions 1.10 to 1.12

Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

Existing borehole, well or other deep structure

1.6 What is the total depth to the bottom of the existing well, borehole or other structure? _____ metres below ground level

If you are unaware of the actual depth please estimate the depth based on the following categories:

- 0–5 metres ☐
- 5–10 metres ☐
- Greater than 10 metres ☐
- Uncertain ☐

What evidence is the estimated depth above based on? _____

1.7 Does the well, borehole or other structure extend into groundwater?

- Yes – always contains water ☐
- Sometimes – water is present occasionally ☐
- No – never contains water ☐

If groundwater is always, or sometimes, present, what is the highest level that the standing water reaches?

- Measured ☐ _____ metres below ground level
- Estimated ☐ _____ metres below ground level

1.8 Please provide any records, diagrams or borehole logs you may have that could help us understand:

- the method of construction (including any solid casings or linings used)
- the likely depth of the deep structure
- the local groundwater conditions

Please provide photocopies where possible. If it is not possible (for example, if the documents are large or bulky) please summarise any additional information you have on a separate sheet.

Document reference for the records, diagrams or borehole logs _____

1.9 If any maintenance has been carried out on your well, borehole or other deep structure (for example, to aid effective drainage), please give details below

Please now answer question 1.13

Appendix 1 – Discharges to a borehole or well (or other deep structure), continued

Proposed borehole, well or other deep structure that has not yet been constructed

1.10 Please tell us why you are unable to install a shallow engineered drainage system. This information forms an important part of our permit determination process. Which methods of shallow disposal have you considered, and why did you decide these were not feasible to take forward? Please answer questions 1.10a and 1.10b to provide the results of soakage tests and summarise in the box any relevant information supporting your decisions (for example, permission refusals from landowners or physical constraints, or land availability or proximity to buildings).

1.10a What was your percolation value (Vp) result? ⌊_____⌋ seconds per millimetre

You must show in Table 4 how you worked out the percolation value.

Table 4 – Percolation value

	Trial 1	Trial 2	Trial 3	Average
Hole 1				
Hole 2				
Hole 3				
Hole 4				

1.10b If a shallow engineered drainage system were feasible, what would be the required surface area of your infiltration system? ⌊_____⌋ square metres

Supporting information to explain why you are unable to install a shallow engineered drainage system can be appended to your application.

Document reference for these details ⌊_____⌋

1.11 Please tell us the type of deep structure (for example, borehole, well, deep soakage pit) you propose to install

What will the total depth be? ⌊_____⌋ metres below ground level

Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

1.12 Please tell us the reason this depth has been selected and, if you are aware of any relevant existing information on local water levels, please also tell us the depth to groundwater (in metres below ground level). What measures will you undertake to ensure the discharge is not direct into groundwater? If the discharge will be direct to groundwater explain why you cannot make it indirect. Direct discharges to groundwater cannot be permitted.

Proximity of your discharge to other receptors

1.13 Is the borehole, well or other deep structure where the discharge is being/will be made within 50 metres of any other well, spring or borehole used to supply water for drinking water or food production purposes?

Yes ☐ Please show the location of the well, spring or borehole you identified in answer to question 1.13 on the plan you have provided for section 4 of the main application form. Please now answer question 1.14

No ☐ Please now answer question 1.15

1.14 Please tell us about the water supply (or supplies) used for drinking water or food production purposes identified in question 1.13 above; for example, the name of the property or properties served by the water supply, what they use the water for (drinking water, food production) and where they are in relation to your discharge

Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

1.15 What is the distance to the nearest watercourse

(for example, surface water, river, stream or ditch)? |_____| metres

Please tell us whether you have considered discharging to surface water and why this is not feasible

In Table 5 please provide any further information required for us to complete a groundwater quantitative risk assessment on your behalf in line with the guidance 'Groundwater risk assessment for your environmental permit' at

https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit. Without this information we will be unable to carry out a hydrogeological risk assessment on your behalf.

Table 5 summarises the information required to allow us to undertake a hydrogeological risk assessment of your discharge to a deep infiltration system. Without this information your application will be rejected. You will already have provided some of this information earlier in this application form. **We also need you to provide additional information indicated by a tick (✔) in Table 5**. For further guidance on the additional information required see https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit and the guidance notes on part B6. You may require the advice of an environmental consultant to collate this information.

For some of the risk assessment inputs we are better placed to provide the information and will do so for those parameters indicated by an asterisk (*) as far as possible. However, if you wish to provide site-specific information for those parameters with an asterisk you are welcome to do so.

Table 5 – Further information required for the Environment Agency to complete a groundwater quantitative risk assessment on your behalf

Information	Description	Existing structure	Proposed structure	Information supplied?
Information supplied by the applicant This has already been requested earlier in the application form				Information you have already supplied on the application form
National grid reference of the discharge point		Appendix 1 Q2	Appendix 1 Q2	
Volume of effluent (m^3 per day)		Q3b	Q3b	
Type of effluent treatment	Septic tank, package treatment plant, other	Q6	Q6	
Type of deep infiltration system	Borehole, well, concrete ring structure, other	Appendix 1 Q3	Appendix 1 Q3	
Diameter of deep infiltration system (metres)		Appendix 1 Q4	Appendix 1 Q4	
Depth to the base of deep infiltration structure (metres)		Appendix 1 Q6	Appendix 1 Q11	
Depth to water table (metres)	Is discharge above or below water table?	Appendix 1 Q7, Q8	Appendix 1 Q12	
Justification for a deep infiltration system	Why are you unable to install a shallow infiltration system? What other options for disposal have been considered? Provide full details of the infiltration tests undertaken plus results	Appendix 1 Q8 if available	Appendix 1 Q10	
Information supplied by the applicant This is additional information we need from you that is not provided elsewhere on the application form. Site data should be given where it is already available. If not, you can submit the relevant literature values quoting the source of the data and justification of the values you have selected. Please tick the right-hand column to confirm you have provided this essential information.				

Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

Information	Description	Existing structure	Proposed structure	Information supplied?
Concentration of relevant substances entering the infiltration system	For discharges of domestic effluent we will routinely assess the concentration of nitrogen species, particularly the ammonium concentration	✓	✓	☐
Length of screened borehole section below the water table (metres)	Depth in metres of the borehole screened section that is below the water table (This applies only to boreholes that have groundwater in the base)	✓	✓	☐
Calculated area of infiltration system (square metres)	Explain how the area of the infiltration system has been calculated – this is especially relevant if a non-circular system is used	✓	✓	☐
Unsaturated zone parameters	The following represent the strata above the water table: • hydraulic conductivity (metres per day) • water-filled porosity (per cent) • bulk density (grammes per cubic centimetre)	✓	✓	☐
Saturated zone parameters	The following represent the strata below the water table: hydraulic conductivity (metres per day) water-filled porosity (per cent) bulk density (grammes per cubic centimetre) hydraulic gradient of the water table (fraction)	✓	✓	☐
Information provided by the Environment Agency where possible You are free to provide this information if you wish, or in some specific cases we may need to ask for this at a later stage. Please tick if you have provided this information (optional).				

Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

Information	Description	Existing structure	Proposed structure	Information supplied?
Environmental standard	The relevant environmental standard or compliance value against which we will assess your effluent discharge	*	*	☐
Half-life for degradation of the substance (days)	If you wish to know more about these parameters see 'Groundwater risk assessment for your environmental permit' at https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit	*	*	☐
Soil water partition coefficient (litres per kilogramme)		*	*	☐
Mixing zone thickness (metres)		*	*	☐
Distance to compliance point (metres)		*	*	☐

Appendix 2 – Discharges into land

Answer the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

2.1 Give the discharge point a unique name

For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan) _____

2.2 Give the national grid reference of the discharge point _____

2.3 Is your infiltration system new or existing?

New ☐ Now go to question 2.5

Existing ☐ Now go to question 2.4

2.4a When was it built? _____ (DD/MM/YYYY)

2.4b Now answer questions 2.5–2.8 if you are able to, if not leave them blank and go to question 2.9

2.5 Is your infiltration system designed and built to British Standard 6297:2007 + A1:2008 or the British Standards in force at the time of installation?

Yes ☐

No ☐ Please provide details, on a separate sheet, of the design criteria used for your infiltration system

Document reference _____

2.6 On what date did you carry out a percolation test and dig a trial hole in line with British Standard 6297:2007 + A1:2008? _____ (DD/MM/YYYY)

2.7 What is your percolation value (Vp) result? _____ seconds per millimetre

You must show in Table 6 how you worked out the percolation value. Please also provide your test sheets and any field notes or observations made regarding ground conditions.

Table 6 – Percolation value

	Trial 1	Trial 2	Trial 3	Average
Hole 1				
Hole 2				
Hole 3				
Hole 4				

2.8 Please show us how you have calculated the area (A) of your infiltration system

p [ ] × Vp = [ ] × 0.25 for septic tanks = A [ ] square metres

or

p [ ] × Vp = [ ] × 0.20 for package treatment plants = A [ ] square metres

p Population based on maximum occupancy Vp Percolation value in seconds/mm

Appendix 2 – Discharges into land, continued

2.9 If known, mark on the plan you have provided the extent of the infiltration system. Please write on the plan the length and width of the sides in metres.

2.10 Is any part of your infiltration system within 50 metres of a well, spring or borehole?

No ☐

Yes ☐ Identify the location of the well, spring or borehole on the plan you have provided and answer question 2.11

2.11 Is the well, spring or borehole you have identified used to supply water?

No ☐

Yes ☐ You must describe what the water supplied is used for

2.12 Is any part of your infiltration system within 10 metres of a watercourse?

No ☐

Yes ☐ Identify the location of the watercourse on the plan you have provided for section 4 of part B2

Appendix 3 – Discharges onto land

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

3.1 Give the discharge point a unique name
For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan) ⌊_____⌋

3.2 Give the national grid reference of the discharge point ⌊_____⌋

3.3 Select from the table below the type of area where the effluent is disposed of

Area type		
Unlined reed bed	☐	
Unlined grass plot	☐	
Unlined wetland	☐	
Other	☐	Please specify below

3.4 What is the surface area of the land used for your disposal? ⌊_____⌋ square metres

3.5 Is any part of your infiltration system within 50 metres of a well, spring or borehole?

No ☐

Yes ☐ Identify the location of the well, spring or borehole on the plan you have provided and answer question 3.6

3.6 Is the well, spring or borehole you have identified used to supply water?

No ☐

Yes ☐ You must describe what the water supplied is used for

3.7 Is any part of your infiltration system within 10 metres of a watercourse?

No ☐

Yes ☐ Identify the location of the watercourse on the plan you have provided for section 4 of part B2

Appendix 4 – Discharges to tidal river, tidal stream, estuary or coastal waters

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

4.1 Give the discharge point a unique name
For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)

4.2 Give the national grid reference of the discharge point

4.3 Give the name of the tidal river, tidal stream, estuary or area of coastal water if you know it

4.4 Is the discharge into a

- Tidal river ☐
- Tidal stream ☐
- An estuary ☐
- Coastal water ☐

4.5 Does the discharge reach the watercourse by flowing through a surface water sewer?

Yes ☐ Give the national grid reference where the discharge enters the surface water sewer

No ☐

4.6 Is the discharge point above the mean low water spring tide mark?

Yes ☐ Please explain, on a separate sheet, why the discharge cannot be made below this point

Document reference

No ☐

4.7 How is the effluent dispersed?

For example, open pipe or diffuser system

If diffuser system go to question 4.8

4.8 Give details, on a separate sheet, of the design of the diffuser system

Document reference

4.9 Is the discharge made to a roadside drain or ditch?

No ☐

Yes ☐ If yes, it is your responsibility to ascertain whether the relevant highways authority is responsible for the roadside drain or ditch. If it is, you need to secure the appropriate permissions from the relevant highways authority before submitting an application for an environmental permit to the Environment Agency. A copy of the written permission from the relevant highways authority must be submitted with the environmental permit application.

Document reference for the written permission from the relevant highways authority

Appendix 5 – Discharges to non-tidal river, stream or canal

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

5.1 Give the discharge point a unique name
For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan) See application supporting document

5.2 Give the national grid reference of the discharge point See application supporting document

5.3 Give the name of the watercourse, canal or the main watercourse it is a tributary of if you know it See application supporting document

5.4 Is the discharge into a

Non-tidal river ☑

Stream ☐

Canal ☐

5.5 Does the discharge reach the watercourse or canal by flowing through a surface water sewer?

Yes ☐ Give the national grid reference where the discharge enters the surface water sewer

No ☑

5.6 Does the watercourse dry up for part of the year?

No ☑

Yes ☐ How many months per year is the watercourse dry?

Do you agree to install perforated pipe work before the discharge point?

The discharge must be made via a perforated pipe. Any section of that pipe which lies within 10 metres of the bank of any watercourse shall be perforated, but this perforated section shall not extend more than 10 metres from the bank of any watercourse.

Yes

No

5.61. If the watercourse does dry up for part of the year can you indicate a typical period when the surface water runs dry each year – start and finish (in months)

Watercourse typically becomes dry in:

January	May	September
February	June	October
March	July	November
April	August	December

Watercourse typically flows again in:

January	May	September
February	June	October
March	July	November
April	August	December

Appendix 5 – Discharges to non-tidal river, stream or canal, continued

5.6.2 If the watercourse does dry up for part of the year, how many metres downstream of the discharge is it before the discharged effluent soaks in?

5.7 Is the discharge made to a roadside drain or ditch?

No ☑

Yes ☐ If yes, it is your responsibility to ascertain whether the relevant highways authority is responsible for the roadside drain or ditch. If it is, you need to secure the appropriate permissions from the relevant highways authority before submitting an application for an environmental permit to the Environment Agency. A copy of the written permission from the relevant highways authority must be submitted with the environmental permit application.

Document reference for the written permission from the relevant highways authority

Appendix 6 – Discharges to a lake or pond

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

6.1 Give the discharge point a unique name
For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan) _____

6.2 Give the national grid reference of the discharge point _____

6.3 Give the name of the lake or pond if you know it _____

6.4 Select from the following table the type of lake or pond you will be discharging to and answer the relevant questions

Type of lake or pond		Relevant questions
Lake or pond which is not connected to a river or watercourse	☐	Permit not required*
Lake or pond which is not connected to a river or watercourse, where you have had a notice served under paragraph 5 of Schedule 21 of the Environmental Permitting (England and Wales) Regulations 2016	☐	6.5, 6.6, 6.7
Lake or pond that discharges into a river or watercourse	☐	6.5, 6.6, 6.7

* Unless a Notice has been served under paragraph 5 of Schedule 21 of the Environmental Permitting (England and Wales) Regulations 2016

6.5 What is the surface area of the lake or pond? _____ square metres

6.6 What is the maximum depth of the lake or pond? _____ metres

6.7 What is the average depth of the lake or pond? _____ metres

Application for an environmental permit
Part F1 – Charges and declarations

Environment Agency

Fill in this part for all applications for installations, waste operations, mining waste operations, water discharges, point source groundwater discharges and groundwater discharges onto land. Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it.

The form can be:

1) **saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.**
2) **printed off and filled in by hand. Please write clearly in the answer spaces.**

It will take less than two hours to fill in this part of the application form.

Contents

Each individual who is applying for their name to appear on the permit must complete the declaration in section 5. You will have to print a separate copy of the declaration page for each additional individual to complete.

1 Working out charges

You must fill in this section.

You have to submit an application fee with your application. You can find out the charge by searching for 'Environment Agency charging scheme and guidance: environmental permits' at www.gov.uk/government/organisations/environment-agency.

Please remember that the charges are revised on 1 April each year and that there is an annual subsistence charge to cover the costs we incur in the ongoing regulation of the permit.

Table 1 – Type of application (fill number of activity being applied for in each column)

Installation	Waste	Mining waste	Medium Combustion Plant (MCP)/Specified Generator (SG)	Water discharge/point source discharge to groundwater	Groundwater spreading onto land
1	1				

Table 2 – Charge type (A)

Charge activity reference	Charge activity description	What are you applying to do? E.g. new, minor variation, normal variation, substantial variation, surrender, low risk surrender, transfer	Amount
e.g. 1.17.3	e.g. Sect 5.2 landfill for hazardous waste	e.g. transfer	e.g. £5,561
1.16.2.1	Sect 5.4 A1ai Biological treatment of waste	New	£ 13,984.00
Total A			£ 13,984.00

1 Working out charges (you must fill in this section), continued

Table 3 – Additional assessment charges (B)

Part 1.19 Charges for plans and assessments			Tick appropriate
Reference	Plan or assessment	Charge	
1.19.1	Waste recovery plan	£1,231	☐
1.19.2	Habitats assessment (except where the application activity is a flood risk activity)	£779	☑
1.19.3	Fire prevention plan (except where the application activity is a farming installation)	£1,241	☐
1.19.4	Pests management plan (except where the application activity is a farming installation)	£1,241	☐
1.19.5	Emissions management plan (except where the application activity is a farming installation)	£1,241	☐
1.19.6	Odour management plan (except where the application activity is a farming installation)	£1,246	☑
1.19.7	Noise and vibration management plan (except where the application activity is a farming installation)	£1,246	☐
1.19.8	Ammonia emissions risk assessment (intensive farming applications only)	£620	☐
1.19.9	Dust and bio-aerosol management plan (intensive farming applications only)	£620	☐
	Advertising	£500	☐
Total B			£ 2,025.00

Total charges

Total A plus total B £ 16,009.00

2 Payment

Tick below to show how you have paid.

Cheque ☐

Postal order ☐

Cash ☐ Tick below to confirm you are enclosing cash with the application

Credit or debit card ☐

Electronic transfer (for example, BACS) ☐

Remittance number

Date paid (DD/MM/YYYY)

How to pay

Paying by cheque, postal order or cash

Cheque details

Cheque made payable to

Cheque number

Amount £

You should make cheques or postal orders payable to 'Environment Agency' and make sure they have 'A/c Payee' written across them if it is not already printed on.

Please write the name of your company and application reference number on the back of your cheque or postal order. **We will not** accept cheques with a future date on them.

We do not recommend sending cash through the post. If you cannot avoid this, please use a recorded delivery postal service and enclose your application reference details. Please tick the box below to confirm you are enclosing cash.

I have enclosed cash with my application ☐

2 Payment, continued

Paying by credit or debit card

If you are paying by credit or debit card we can call you. We will destroy your card details once we have processed your payment. We can accept payments by Visa, MasterCard or Maestro card only.

Please call me to arrange payment by debit or debit card ☐

Paying by electronic transfer BACS reference

If you choose to pay by electronic transfer you will need to use the following information to make your payment.

Company name	Environment Agency
Company address	SSCL (Environment Agency), PO Box 797, Newport Gwent, NP10 8FZ
Bank	RBS/NatWest
Address	London Corporate Service Centre, CPB Services, 2nd Floor, 280 Bishopsgate, London EC2M 4RB
Sort code	60-70-80
Account number	10014411
Account name	EA RECEIPTS
Payment reference number	PSCAPPXXXXXYYY

You need to create your own reference number. It should begin with PSCAPP (to reflect that the application is for a permitted activity) and it should include the first five letters of the company name (replacing the X's in the above reference number) and a unique numerical identifier (replacing the Y's in the above reference number). The reference number that you supply will appear on our bank statements.

If you are making your payment from outside the United Kingdom, it must be in sterling. Our IBAN number is GB23NWK60708010014411 and our SWIFTBIC number is NWBKGB2L.

If you do not quote your reference number, there may be a delay in processing your payment and application.

Provide a unique reference number for the application, i.e. do not only use the company name only

State who is paying (full name and whether this is the agent/ applicant/other)

Fee paid £

Date payment sent (DD/MM/YYYY)

Now read section 3 below

You should also email your payment details and reference number to ea_fsc_ar@gov.sscl.com.

3 Privacy notice

The Environment Agency runs the environmental permit application service.

We are the data controller for this service. A data controller determines how and why personal information is processed.

Our personal information charter explains:

- your rights
- what we do with your personal information

We're allowed to process your personal information because we have official authority as the environmental regulator. We need this information to carry out a task in the public interest that is set out in law. As the data controller, when you apply for an environmental permit, we have a legal obligation to process your personal data under the Environmental Permitting Regulations. The second lawful basis for processing your personal data is to comply with this legal obligation.

We need your personal information to process your environmental permit application. If you do not give us this information we cannot issue a permit to you. After we've issued a permit to you, we use your personal information:

- to check that you're complying with your permit
- during any potential enforcement action

What personal information we collect

If you're the individual applicant, director or company secretary of a company applying or a technically competent manager we need your:

- name
- date of birth

3 Privacy notice, continued

- address
- email address

If you're the agent, consultant, employee responsible for the activity or the employee responsible for billing and invoicing we need your:

- name
- address
- email address

If you're the applicant we need details of any:

- convictions
- bankruptcy

We also collect any questions or feedback you leave, including your email address if you contact us.

Your responsibility with other people's personal information

If you've included personal information about other people on your application, you must tell them. You must provide them with a copy of this privacy notice so that they know how their personal information will be used.

What we do with your personal information

We use your personal information to help us decide whether to issue you with a permit.

The information (except dates of birth) is available online on our consultation website during the consultation period. This website is available to everyone so your information may be seen outside the European Economic Area.

After consultation we put all the information (except dates of birth) you give us in your application on our public register.

If you can demonstrate that any information you send us is commercially or industrially confidential, we'll consider withholding that information from our public register.

If you think that the information you'll send us may be a threat to national security you must contact the Secretary Of State before you apply. You must still send us that information with your application. We will not include this information on our public register unless the Secretary of State decides it can be included.

See the environmental permitting guidance for guidance on national security.

We may use your email address to contact you for user research to improve our service. You don't have to take part in the research.

Where your personal information is processed and stored

We store and process your personal information on servers in the UK. We will not host your personal information outside the European Economic Area.

We do not use your personal information to make an automated decision or for automated profiling.

How long we keep your personal information

We keep your personal information while your permit is in use and for 7 years after you surrender your permit. If the permit is for a landfill site, we keep the data for 10 years after surrender.

Removing personal information from the public register

We will remove your personal information from the public register if:

- you withdraw your application
- we refuse your application and the time limit for appealing the decision has expired or an appeal is dismissed
- the information is no longer relevant for public participation purposes under the Environmental Permitting Regulations

Contact

Our Data Protection Team gives independent advice. They monitor how the Environment Agency uses your personal information.

If you have questions or concerns about how we process personal information, or to make a complaint or request relating to data protection, please contact:

Address: Data Protection Team
Environment Agency
Horizon House
Deanery Road
Bristol
BS1 5AH

3 Privacy notice, continued

Email: dataprotection@environment-agency.gov.uk

You can also make a complaint to the Information Commissioner's Office (ICO).

The ICO is the supervisory authority for data protection legislation. The ICO website has a full list of your rights under data protection legislation.

Now read section 4 below

4 Confidentiality and national security

Confidentiality

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential.

You can ask for information to be made confidential by enclosing a letter with your application giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application. You can find guidance on confidentiality in 'Environmental permitting guidance: core guidance', published by Defra and available via our website at www.gov.uk/government/organisations/environment-agency.

Only tick the box below if you wish to claim confidentiality for your application

Please treat the information in my application as confidential ☐

National security

You can tell the Secretary of State that you believe including information on a public register would not be in the interests of national security. You must enclose a letter with your application telling us that you have told the Secretary of State and you must still include the information in your application. We will not include the information in the public register unless the Secretary of State decides that it should be included.

You can find guidance on national security in 'Environmental permitting guidance: core guidance', published by Defra and available via our website at www.gov.uk/government/organisations/environment-agency.

You cannot apply for national security via this application.

Now fill in section 5

5 Declaration

If you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

A relevant person should make the declaration (see the guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.

Each individual (or individual trustee) who is applying for their name to appear on the permit must complete this declaration. You will have to print a separate copy of this page for each additional individual to complete.

If you are transferring all or part of your permit, both you and the person receiving the permit must make the declaration. You must fill in the declaration directly below; the person receiving the permit must fill in the declaration under the heading 'For transfers only'.

Note: we will issue a letter to both current and new holders to confirm the transfer. If you are changing address we will need to send this letter to your new address; therefore please tell us your new address in a separate letter.

If you are unable to trace one or more of the current permit holders please see below under the transfers declaration.

I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

I confirm that my standard facility will fully meet the rules that I have applied for (this only applies if the application includes standard facilities) ☐

Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below (you do not have to provide a signature as well) ☑

Tick this box if you do not want us to use information from any ecological survey that you have supplied with your application (for further information please see the guidance notes on part F1) ☐

5 Declaration, continued

Name

Title (Mr, Mrs, Miss and so on)	Mrs
First name	Joanne
Last name	Chapman
on behalf of (if relevant; for example, a company or organisation and so on)	Severn Trent Water Ltd
Position (if relevant; for example, in a company or organisation and so on)	See letter of authorisation
Today's date (DD/MM/YYYY)	05/10/2022

For transfers only – declaration for person receiving the permit

A relevant person should make the declaration (see the guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.

I declare that the information in this application to transfer an environmental permit to me is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

Note: If you cannot trace a person or persons holding the permit you may be able to transfer the permit without their declaration as above. Please contact us to discuss this and supply evidence in your application to confirm you are unable to trace one or all of the permit holders.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below (you do not have to provide a signature as well)	☐

Name

Title (Mr, Mrs, Miss and so on)	
First name	
Last name	
on behalf of (if relevant; for example, a company or organisation and so on)	
Position (if relevant; for example, in a company or organisation and so on)	
Today's date (DD/MM/YYYY)	

Now go to section 6

6 Application checklist

You must fill in this section.

If your application is not complete we will return it to you. If you aren't sure about what you need to send, speak to us before you submit your application.

You must do the following:

Complete legibly all parts of this form that are relevant to you and your activities	☑
Identify relevant supporting information in the form and send it with the application	☑
List all the documents you are sending in the table below. If necessary, continue on a separate sheet. This separate sheet also needs to have a reference number and you should include it in the table below	☑
For new permits or any changes to the site plan, provide a plan that meets the standards given in the guidance note on part F1	☑
Provide a supporting letter for any claim that information is confidential	☐
Get the declaration completed by a relevant person (not an agent)	☑
Send the correct fee	☐

6 Application checklist, continued

Question reference	Document title	Document reference
Form B2; B3; B4; B6	Supporting Information	Includes
		OMP
		Drainage plan
		Site plan
		Letter of authorisation

7 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, or you would like us to review a decision we have made, please let us know. More information on how to do this is available at: https://www.gov.uk/government/organisations/environment-agency/about/complaints-procedure.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

8 Where to send your application

For how many copies to send see the guidance note on part F1.

Please send your filled in application form to:

For water discharges by email to PSC-WaterQuality@environment-agency.gov.uk

For waste and installations by email to PSC@environment-agency.gov.uk

Or

Permitting Support, NPS Sheffield
Quadrant 2
99 Parkway Avenue
Parkway Business Park
Sheffield
S9 4WF

Do you want all information to be sent to you by email?

Please tick this box if you wish to have all communication about this application sent via email (we will use the details provided in part A) ☐

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please ☐

No thank you ☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐ Amount received

£

Severn Trent Water Limited

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

Tel 02477 715000
Fax 02477 715871

www.severntrent.com
www.stwater.co.uk

Letter of Authority

I confirm that Joanne Chapman is authorised by Severn Trent Water Ltd to apply for all Environmental Permits, variations, and permit surrenders required by the Environment Agency and Natural Resources Wales in connection with permittable waste related activities.

Yours sincerely,

Bronagh Kennedy
General Counsel and Group Company Secretary
Severn Trent Water

3. Application Form Questions

3.1 Form B2

1 About the Permit

1a Discussion before your application?

None

A Nature and heritage conservation screening assessment was issued on 20th June 2022, ref. EPR/LB3403ZL/A001.

1b Is the permit for a site or for a mobile plant?

This application relates to a site.

2 About the site

2a What is the site name, address, postcode and national grid reference?

Severn Trent Water Limited

Stanley Downton STW

Stonehouse

GL10 3QZ

SO 7904 3151

2b What type of regulated facility are you applying for?

This application relates to a bespoke installation.

2c If you are applying for more than one regulated facility on your site, what are their types and their grid references?

This application is for a single regulated facility, namely an installation.

2d Low impact installations (installations only)

2d1 Are any of the regulated facilities low impact installations?

No, this application is not for a low impact installation.

2e Treating batteries

2e1 Are you planning to treat batteries?

No, this application is not for the treatment of batteries.

2f Ship recycling

2f1 Is your activity covered by the Ship Recycling Regulations 2015?

No, this application is not covered by the Ship Recycling Regulations 2015.

2g Multi - operator installation

No. This is not a multi-operator installation.

3 Your ability as an operator

3a Relevant offences

3a1 Have you, or any other relevant person, been convicted of any relevant offence?

Total Payout	Type	Date	Location	Offender	Description of Offence
£870,000	Persecution	Jun-20	Shropshire, England	Severn Trent Water Ltd	Causing an unpermitted discharge, contrary to Regulation 38(1)(a) and regulation 12(1)(b) of the Environmental Permitting (England & Wales) Regulations 2010 and failing to comply with permit conditions, contrary to regulation 38(2).
£1,558,536	Prosecution	Dec 21	Worcestershire, England	Severn Trent Water Ltd	Sentenced for four breaches of the Regulations for four cases. Sewage was discharged contrary to Regulation 38 (2) of the Environmental Permitting (England and Wales) Regulations 2016. (Blackminster) Breach of a limit contrary to regulation 38(2) Environmental Permitting (England and Wales) Regulations 2016. (Bromsgrove, Stoke Prior, Priest Bridge)

3b Technical ability

Severn Trent Water utilises a competence management system to demonstrate technical competence at the site. The current management system is integrated where possible with our ISO14001 EMS, and comprises of written Scope, Policy, Objectives and Targets, Roles and Responsibilities, Competence and Training, Communication, Performance Monitoring and Measuring, Internal Audit, Non-conformance procedure, Legal Requirements, Record Control, and Management Review. Please see the appended CMS certificate, which has a scope including waste storage and treatment. Our CMS certification, under the Environmental Services Association/Energy and Utility Skills (ESA/EU skills) competence management scheme, has been held continuously since the scheme's inception in 2012. In accordance with the scheme, this site will be added to the scope within a year of the new permit being issued.

The EU Skills coordinator has confirmed to STW there is no need to identify a specified person as TCM if the organisation is under the EU Skills scheme. The following is directly from the gov.uk website:

EU Skills scheme: The EU Skills scheme considers the competence of your business as a whole. To join this scheme you need to have a competence management system in place and this must be certified by one of the scheme's approval bodies.

3c Finances

Installations, waste operations and mining waste operations only.

Do you or any relevant person or a company in which you were a relevant person have current or past bankruptcy or insolvency proceedings against you?

There are no current or past bankruptcy or insolvency proceedings against the applicant.

3d Management systems

Confirm that you have read the guidance and that your management system will meet our requirements.

Yes, we can confirm that this is the case.

Does your management system meet the conditions set out in our guidance?

Yes. The Company holds BS EN ISO 14001:2015.

Please see **Appendix B** for EMS and CMS certificates.

Scope

Severn Trent Water was awarded certification to BS EN ISO14001:2015 for its Environmental Management System in August 2018. The certified EMS scope covers "Management and delivery of wastewater treatment processes. Transfer and storage of highway waste on depots. CHP biogas plant activities. Mothballed landfill monitoring activities, Head office functions at Severn Trent Centre."

Environmental Policy

Implementation of the Severn Trent Water's Environmental Policy is approved by the Severn Trent Executive Committee of the Severn Trent Plc Board and is the responsibility of all employees, with the Chief Executive being accountable for its implementation. The policy covers all Severn Trent activities, including this installation, and applies to all individuals who are employed by, or carry out work on behalf of, any Severn Trent group company including contractors, temporary staff and agency workers. The Management Systems Team (EMS specialists) is responsible for the implementation of the EMS, the site operations teams will be responsible for maintaining ongoing compliance and managing the sites.

https://www.severntrent.com/content/dam/stw/ST_Corporate/Responsibility/Severn_Trent_Group_Environment_Policy.pdf

Management and Responsibilities

The Management Systems Team (EMS specialists) has overall responsibility for the management and upkeep of the EMS. Compliance with specific elements of environmental legislation is managed by the relevant Business Areas across the Company. The Management Systems Team (EMS specialists) maintain a Legal Register and, in consultation with Operations Teams, their permit compliance advisors and other specialists, assess environmental risks for in-scope areas using a significance scoring method under normal, abnormal and emergency conditions. Significant environmental aspects and impacts take into account legal and other requirements, cost to the business, scale of impact and interested parties.

Management Systems Team (EMS specialists) are responsible for setting internal environmental standards with Standard owners which are then implemented by the relevant business areas. The Standards and other relevant information are communicated through a number of routes. Incident and corrective action routes exist to promote continual improvement.

Local operating procedures are the responsibility of the operational teams that operate the sewage works.

The defined roles and responsibilities are allocated to relevant personnel, depending on their job description, qualifications, knowledge, experience and training. Training and competency are based on specific roles.

Operational Control

Procedures are in place to identify and control environmental issues arising from Severn Trent Water activities. Each department is required to achieve operational control of its activities and, using a central database, identify and record any departmental environmental issues.

Routine sewage treatment operations and activities are recorded within the corporate management database, SAP. These include routine inspections, monitoring and maintenance tasks.

Non-routine activities, such as major overhauls/refurbishments, which involve the use of sub-contractors are assessed for health, safety and environmental risks and method statements are produced to address these, as part of the Managing Contractors process. Contractors who are required to carry out major services are closely managed by the team to ensure that compliance with Severn Trent Water's H&S and environmental policies is achieved. No contractors may work on site without having undergone a full site induction.

Processes on site operate continuously, 24-hours per day, 7-days per week, apart from maintenance periods. The plant is designed to operate unattended with process parameters being monitored continuously. Operating logs are stored electronically.

Maintenance and Monitoring

Management will have the ultimate responsibility for the effective maintenance of plant throughout the company. The facility has named staff that are responsible for day-to-day maintenance operations and contractors are also used as required. The following basic inspections and maintenance activities are carried out on site:

- Daily operation of plant (24/7) involves visual inspection of operational assets;
- Daily inspection of temporary pipe work installed;
- Weekly visual inspections of the bulk oil storage tanks and the oil pipework (visual check on above ground pipework);
- Monthly inspection of all bunds (oil, transformer, temporary, etc.) and condition of containerised engines;
- Routine maintenance programme for plant; and
- Routine lubrication programme.

Personnel responsible for the inspection, testing and maintenance of pollution prevention infrastructure are trained to an appropriate level to ensure compliance with the Infrastructure Monitoring Programme.

All regular maintenance of all plant and equipment will be completed on the time scale specified by the equipment manufacturer including routine. A full engine overhaul is likely to be scheduled every 20,000 operating hours. This high-level preventative maintenance is designed to avoid unscheduled down time, maximising the plant availability and its ability to control emissions and maintain an efficient level of operation between overhaul services. Record sheets will be completed that would highlight any issues that may require operator intervention outside the routine maintenance programme.

Environmental Improvement

Severn Trent Water is committed to environmental improvements and has established environmental targets and plans relating to materials and waste management, transport, climate change mitigation and adaptation (energy efficiency and renewable energy generation), water resources, biodiversity, river water quality, and drainage asset performance.

The EMS is subject to a Senior Management Review twice a year to consider environmental performance, objectives and targets and continual improvement.

Competence, Training and Training Records

Severn Trent Water aims to ensure that all employees are in possession of the knowledge, skills and experience necessary to perform their role in accordance with the company's operating procedures and in full compliance with the law. Training needs are identified by the employee's immediate supervisor or line manager.

The EMS delivers a structured environmental awareness programme and targeted awareness training, where a need is identified. Managers and the CMS (Competence Management System) Manager review the competence of those working for the company where the tasks have the potential to cause a significant negative environmental impact, or impact on the operation of permitted activities within the EMS scope. The EMS Team, Permit Compliance Technicians and relevant Departments are responsible for rolling out the Basic Environmental Awareness Modules and job specific training.

For each internal training course held a Training Record is issued. The Training Record includes a statement of understanding, which the employee signs to confirm that he/she has attended the course and understood the subject matter.

For each internal training course held a Training Record is issued through the employees' role specific records on SAP.

Induction training is carried out by the responsible line manager and consists of an introduction to the Company's Environmental Health and Safety Policy and description of emergency response and spill prevention procedures.

Staff receive specific training in the plant's operation and the environmental impact of the process as well as health and safety. The operators will have a detailed understanding of the operational procedures for the site for both normal and abnormal operation. As part of the training, operators will receive specific instructions relating to those aspects of plant operation that have the potential for a negative impact on the environment. This training will be provided by the equipment manufacturers or in-house staff as appropriate. All training is overseen by a dedicated in-house Learning and Development team, through "The Academy" process.

Severn Trent Water is able to demonstrate that permitted activities are managed by technically competent staff with its Competence Management System (CMS) that is independently certified to meet the requirements of an Industry Standard. All appointed Technically Competent Persons (TCPs) undergo EMS awareness training and CMS training. TCPs are required to re-take training every 2 years. A list of technically competent persons is stored within the CMS documentation on SharePoint. Managing Contractors

There are several procedures to ensure contractors have the required skills and environmental competencies to carry out works at the site.

Initially, contractors are assessed by the procurement department for inclusion on the approved supplier list, which includes health and safety and environmental criteria for example, waste documentation such as waste carrier's licence/training certificates. Even when the contractors are on the approved supplier list, they are still further assessed for each specific contracted activity.

The contactor is required to submit a method statement prior to any commencement of work, identifying how work is to be undertaken and the associated risks. The method statement must be approved by the Site Manager or a TCP who is suitably qualified, who will also identify any site hazards and issue an Authorisation to Work/Enter the site, following a site induction. When on-site, the contractor must carry this Authorisation to Work at all times.

Managing Contractors

There are several procedures to ensure contractors have the required skills and environmental competencies to carry out works at the site.

Initially, contractors are assessed by the procurement department for inclusion on the approved supplier list, which includes health and safety and environmental criteria for example, waste documentation such as waste carrier's licence/training certificates. Even when the contractors are on the approved supplier list, they are still further assessed for each specific contracted activity.

The contactor is required to submit a method statement prior to any commencement of work, identifying how work is to be undertaken and the associated risks. The method statement must be approved by the Site Manager or a TCP who is suitably qualified, who will also identify any site hazards and issue an Authorisation to Work/Enter the site, following a site induction. When on-site, the contractor must carry this Authorisation to Work at all times.

Incidents, Non-Compliances and Complaints

Severn Trent Water has procedures for incidents, non-compliances and environmental complaints.

Incidents are managed through site specific procedures which ensure that all incidents are logged and that necessary preventative and/or corrective actions are taken.

Complaints are managed by Customer Services, where all complaints are logged on the Complaints Records Online Storage System (CROSS). The Regional Managers are responsible for ensuring that action is taken and for liaising with the relevant regulatory bodies (where appropriate). They ensure that any complaint is investigated and, if found to be justified, that work is undertaken to resolve the issue. They also provide an appropriate response to the complainant in a timely manner detailing the reason behind the issue and the actions taken to resolve the matter.

Information regarding complaints is recorded to allow determination of an appropriate response (corrective action) and to determine what measures need to be taken in the future to prevent its reoccurrence (preventive action). These records will be maintained as part of the management system for a minimum of four years.

Communication

There are regular meetings held on site to discuss all aspects of the treatment works and performance against targets. These meetings include the operation and performance of the installation. Other communication methods to promote environmental management issues and continual improvement include: 'Lessons Learnt' bulletins, OSC portal forums and compliance audits.

Auditing

The controls for addressing environmental aspects and impacts are checked through the EMS audit programme which is managed by the EMS Auditor. Findings are reported to Site Managers and their Leadership Team. All permitted sites are internally audited by the permitting team every three years as a minimum. These inspections support the EMS audit programme and are audited by the EMS Team on a sample basis. The EMS also checks that other audit programmes exist for our wider environmental obligations, for example, MCerts and Operator Self-Monitoring compliance assessments.

4 Consultation

Could the waste operation or installation involve releasing any substance into any of the following?

4a A sewer managed by a sewerage undertaker?

No – site drainage is managed within the wider sewage works, operated by the applicant.

4b A harbour managed by a harbour authority?

No

4c Directly into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries committee?

No

4d Is the installation on a site for which:

4d1 - a nuclear site licence is needed under section 1 of the Nuclear Installations Act 1965?

No.

4d2 - a policy document for preventing major accidents is needed under regulation 5 of the Control of Major Accident Hazards Regulations 1999, or a safety report is needed under regulation 7 of those regulations?

No.

5 Supporting information

5a Provide a plan or plans for the site

Please see **Appendix A** for the following plans:

- Figure 1 – site location plan
- Figure 2 – installation boundary and air emission points
- Figure 3 – site drainage plan
- Figure 4 – process flow diagram

5b Provide the relevant sections of a site condition/baseline report if this applies

Yes. See Appendix E for H5 template site condition report for the site

5c Provide a non- technical summary of your application

Please see Section 1.1 in this document.

5d Are you applying for an activity that includes the storage of combustible wastes?

No – the site handles and treats wastes using processes that fall outside the scope of the FPP guidance. Note that the site primarily handles liquids or pumpable sludges which do not pose a fire risk.

6 Environmental risk assessment

An environmental risk assessment of the site changes has been carried out in line with the requirements of the Horizontal Guidance Note H1 and Guidance given on gov.uk. This guidance specifies the following approach to carrying out an environmental risk assessment for a proposed activity:

- Identify potential risks that your activity may present to the environment;
- Screen out those that are insignificant and don't need detailed assessment;
- Assess potentially significant risks in more detail if needed;
- Choose the right control measures, if needed; and
- Report your assessment.

Table B2-6(i) – Environmentally Sensitive Locations

Site Name	Designation	Distance	Direction
Five Acre Grove	Ancient Woodland	0.3km	South
Severn Estuary	RAMSAR, SAC, SPA	5.5km	West
Rodborough Common	SAC	5.5km	East
List of Local Wildlife Sites*			
Five Acre Grove (Leonard Stanley)			<2km

* These sites were identified by the EA as being within 2km of the sludge treatment works, however, there were no labels on the map provided so a specific distance and direction could not be determined. No data was available on the public domain on google maps or MAGIC.gov.uk.

The above table shows data taken from MAGIC.gov.uk website, accessed June 2022, and from the EA, provided June 2022. For habitat sites, the relevant distance for consideration are: International designations (SAC, MPA, SPA and Ramsar - 10km); National designations (SSSI – 2km); Nature reserves and ancient woodland (2km)

There are three designated habitat sites within the relevant distances of the site. There is one area of ancient woodland, which is also an LWS, names Five Acre Grove 0.3km south of the site. There are also two SACs, named Rodborough Grove and Severn Estuary located 5.5km east and 5.5km west respectively. Severn Estuary is also a SPA and RAMSAR site. There are no LNRs NNRs or SSSIs located within 2km of the site.

There are a number of protected species in the River Frome, namely:

Brown Trout; European eel; Bullhead; and unidentified Lamprey.

The River Frome is also a migratory route for Atlantic salmon and European eels.

The sewage treatment works site is not located within a Flood Risk Zone as outlined on the Environment Agency's Flood Map for Planning and therefore is not situated in an area prone to flooding. The nearest Flood Risk Zone (Flood Risk Zone 3, defined as land having a 1 in 100 or greater annual probability of river flooding; or land having a 1 in 200 or greater annual probability of sea flooding) is located immediately along the northern perimeter of the sewage treatment works associated with the River Frome. The site is not within a groundwater source protection zone (SPZ). The site is not within an Air Quality Management Area.

Table B2-6(ii) - Screening Assessment

Consideration	Receptors	Discussion	Detailed Environmental Risk Assessment?
Amenity issues: Litter, vermin and pests	Human health receptors: Single houses or groups of houses (estates, villages etc.). Schools and hospitals. Footpaths, amenity and recreation areas such as playing fields and playgrounds. Industrial estates and rail stations. The site is located in a rural area, south west of the settlement of Stonehouse and	The wastes handled at the site are primarily liquids and sludges, along with UWWTD derived material delivered by sewer. There is no source of litter within the materials handled at the site.	X

Consideration	Receptors	Discussion	Detailed Environmental Risk Assessment?
	Bridgend and west of the settlement Stanley Downton. The site is bounded to the north, west and south by arable farmland and bounded to the east by a railway track with arable farmland beyond that. Farm buildings are located adjacent to the north east corner of the site and east immediately across the railway track. The River Frome is to the north of the site with more arable land beyond it and a small residential area adjacent to it. The River Frome is 270m north if the site at it's closest point and 415m north from the closest sludge treatment works facility (Boiler House). The River Frome splits into multiple rivers further north west and one more of these rivers is located 570m north of the site and the Stroudwater Navigation 680m north of the site. A small nameless stream is located 670m south of the site. The closest residential receptor is a small farm house 112m north of the site and a small residential area 230m north of the site. The closest commercial receptors are the small farm buildings located 15m north and 110m east of the site. Ecological receptors: There are three designated habitat sites within the relevant distances of the site. There is one area of ancient woodland, which is also an LWS, names Five Acre Grove 0.3km south of the site. There are also two SACs; Rodborough Grove and Severn Estuary located 5.5km east and 5.5km west respectively. Severn Estuary is also a SPA and RAMSAR site. There are no LNRs NNRs or SSSIs within 2km of the site.	In the unlikely event pests or vermin are observed on site a suitable contractor is called in as soon as practicable.	
Dust and bioaerosols	Human health receptors: Single houses or groups of houses (estates, villages etc.). Schools and hospitals. Footpaths, recreation areas such as playing fields and playgrounds. Industrial estates and rail stations. For human health and ecological receptors, see notes for Amenity issues above. The impact of dust on human health will depend on the distance and wind direction.	The wastes handled at the site are liquids, and sewage sludges along with UWWTD derived material delivered by sewer. No dewatering of cake occurs at the site, nor is there any cake stored at the site The site will not be handling inherently dusty or powdery wastes. Roads will be maintained to avoid the production of dust. Digested sludge is removed from site for dewatering.	X

Consideration	Receptors	Discussion	Detailed Environmental Risk Assessment?
Assessment of point source emissions to air Emissions deposited from air to land	Human health receptors: Single houses or groups of houses (estates, villages etc.). Schools and hospitals. Footpaths, recreation areas such as playing fields and playgrounds. Industrial estates and rail stations. For human health and ecological receptors, see notes for Amenity issues above. The impact of emissions from air on human health will depend on the distance and wind direction.	The installation has a biogas fuelled CHP engine, one dual fuelled boiler and an auxiliary flare, for which ADMS modelling indicates emissions are unlikely to result in unacceptable impacts on air quality. The emergency flare is used only during periods when there is a larger volume of biogas than the CHP engine or boiler are able to manage or are offline. Fugitive emissions to air are assessed separately.	X
Assessment of point source and fugitive emissions to water	The River Frome is located 270m north of the site, with an offshoot 570m north of the site and the Stratford Navigation 680m north of the site. The is a small nameless stream located 370m south of the site. The site is not located within a Flood Risk Zone as outlined on the Environment Agency's Flood Map for Planning and therefore is not situated in an area prone to flooding. Surface water drainage within the site drains to the inlet of the adjacent sewage treatment works for full treatment prior to discharge.	The main product of the process is digested sludge, and this is not stored within a flood risk zone and is stored within open topped subsurface concrete tanks. Other aqueous discharges generated by process are limited (comprising, biogas condensate, and surface water run off). These sources are discharged to the on-site drainage system where they are transferred to main sewage works inlet. Due to the nature and small quantity of these emissions no further assessment of point source emissions is deemed necessary.	X
Assessment of odour	Human health receptors: Single houses or groups of houses (estates, villages etc.). Schools and hospitals. Footpaths, recreation areas such as playing fields and playgrounds. Industrial estates and rail stations. For human health and ecological receptors, see notes for Amenity issues above. The impact of emissions from odour on human receptors will depend on the distance and wind direction.	The site has an odour management plan in place. This includes management systems, procedures and monitoring to control fugitive emissions of odour at the plant. Waste inputs to the site are of a similar nature to indigenous waste streams and as such there is no change in odour profile at the site. Odorous activities are centrally located within the site, but the location provides screening for this.	X
Energy	Global atmosphere (direct and indirect emissions)	Biogas generated by the facility is utilised to generate electrical power for the site and exported to the grid; thus increasing renewable energy supplies. Waste heat from the CHP engine is utilised to control primary digester temperature when required and reduce demand on the auxiliary boiler.	X
Land and disposal of	Rivers and streams – see Assessment of point source and fugitive emissions to water above.	All waste streams disposed of off-site will continue to be to appropriately permitted facilities.	X

Consideration	Receptors	Discussion	Detailed Environmental Risk Assessment?
waste to other processes	Drainage systems/sewers. The site is not within a groundwater source protection zone (SPZ). Aquifers are classified as unproductive (superficial deposits) and secondary undifferentiated (bedrock deposits).		
Noise and vibration	Human health receptors: Single houses or groups of houses (estates, villages etc.). Schools and hospitals. Footpaths, amenity and recreation areas such as playing fields and playgrounds. Industrial estates and rail stations. The site is located in a rural area, south west of the settlement of Stonehouse and Bridgend and west of the settlement Stanley Downton. The site is bounded to the north, west and south by arable farmland and bounded to the east by a railway track with arable farmland beyond that. Farm buildings are located adjacent to the north east corner of the site and east immediately across the railway track. The River Frome is to the north of the site with more arable land beyond it and a small residential area adjacent to it. The River Frome is 270m north if the site at it's closest point and 415m north from the closest sludge treatment works facility (Boiler House). The River Frome splits into multiple rivers further north west and one more of these rivers is located 570m north of the site and the Stroudwater Navigation 680m north of the site. A small nameless stream is located 670m south of the site. The closest residential receptor is a small farm house 112m north of the site and a small residential area 230m north of the site. The closest commercial receptors are the small farm buildings located 15m north and 110m east of the site. Ecological receptors: There are three designated habitat sites within the relevant distances of the site. There is one area of ancient woodland, which is also an LWS, names Five Acre Grove 0.3km south of the site. There are also two SACs, named Rodborough Grove and Severn Estuary located 5.5km east and 5.5km west respectively. Severn Estuary is also a SPA and RAMSAR site. There are no LNRs	Site design has been chosen to minimise the impact of noise on offsite receptors through building orientation, finishes and location of openings. Noise from plant and equipment will be minimised through purchasing decisions and a robust preventative maintenance programme. Sensitive receptors are distant to the operational areas of the site, which are screened by the existing structures to reduce noise impacts. There are no sources of vibration within the facility.	X

Consideration	Receptors	Discussion	Detailed Environmental Risk Assessment?
	NNRs or SSSIs located within 2km of the site.		
Other issues (including visual impact)	There are a number of nearby designated sites, including one area of ancient woodland/LWS within 1km of the site. The River Frome is home to a number of protected species, and is also a migratory route for protected species	These have been considered in the AQIA The permitted activity does not discharge directly to the River, instead it discharges via the wider sewage works, where the potential impact on protected species has been considered as part of its discharge consent.	X

6b Climate change risk screening

Table B2-6b(i) – Climate change risk assessment

Category	Screening Question	Score
Timescales	How long will a permit be required for this site/activity? *Until 2060 or beyond (more than 40 years from now)*	5
Flooding	What is your site's risk of flooding from rivers or the sea? *Very low or low risk*	1
Water Use	If you use water for your site operations or fire prevention, what is the source of your water? *Water not required*	0

Climate Change Risk Assessment

Severn river basin district: climate change risk assessment worksheet

Name (as on your part A application form): Severn Trent Water, Stanley Downton Sewage Treatment Works

Our permit reference number (if you have one): tbc

Your document reference number: Application supporting document

Risk assessment worksheet for the 2050s

Severn river basin district

You must carry out a climate change risk assessment for any new bespoke waste and installations permit applications if you expect to operate for more than 5 years. Use the user guide to complete the table. You can add in extra pages if necessary.

Consider how your operations will be affected by the changes in weather and climate described in the table. Consider any changes to average climate conditions that may impact on your operations, for example extreme rainfall.

Also consider:

- critical thresholds - where a 'tipping point' is reached, for example a specific temperature where site processes cannot operate safely
- changes to averages - for example an entire summer of higher than expected rainfall causing waterlogging
- where hazards may combine to cause more impacts

You can add in other climate variables if you wish.

If you have stated on your application form that you do not expect to be operational in 2050, you must still consider climate change risks for the time you do intend to operate. Whilst the variables are for the 2050s, this is an estimated date and you may experience these conditions before then.

This worksheet will sit in your management system. It must appear on the management system summary you submit with your application, even if you do not need to submit the whole risk assessment with your application.

If your pre-mitigation risk score (Column D) is 5 or higher, you must complete Columns E to H.

Table B2-6b(ii) – Climate change risk assessment

Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what will you do to mitigate this risk)	F Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
1. Summer daily maximum temperature may be around 7°C higher compared to average summer temperatures now.	6	4	6	24	Risk of digester heating beyond optimal operating temperature. Digester is insulated against worse impacts. Risk of increased odour from sewage processes. Tanks are covered and OCU utilised as appropriate.	2	2	4
2. Winter daily maximum temperature could be 4°C more than the current average, with the potential for more extreme temperatures, both warmer and colder than present.	2	2	4	8	Digester is insulated and equipped with heating coils. Therefore, may not need boiler or heat from CHP. May require new gas engine to utilise biogas, however, the current engine will need to be replaced prior to this, so an assessment of engine size can be undertaken then.	2	2	4
3. The biggest rainfall events are up to 20% more intense than current extremes (peak rainfall intensity)*.	2	2	2	4	Works design basis may be exceeded. However, this would apply to UWWTD operations at the site rather than permitted activities.			
4. Average winter rainfall may increase by 29% on today's averages.	2	4	4	16	Rainfall would increase strain on site drainage, however volume could be handled by the associated UWWTD works so no impact. May need to increase bund or containment volume. Potential for impact digested sludge stored in the export tank prior to removal. Tanks are open topped and increased rainfall would increase volume needed to be removed and decrease capacity.	2	4	8
5. Sea level could be as much as 0.6m higher compared to today's level *.	1	1	1	1	The sludge treatment site is not situated in close proximity to a river and is not located within a flood risk zone. The site sits a significant distance from the main channel and is outside the designated flood zone, so sea level rises being mirrored by the river should	1	1	1

Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what will you do to mitigate this risk)	F Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
					not impact on the permitted activity in terms of fluvial flood risk.			
6. Drier summers, potentially up to 41% less rain than now.	1	1	1	1	May reduce total flow through the UWWTD but should not impact on permitted activities.	1	1	1
7. At its peak, the flow in watercourses could be 40% more than now, and at its lowest it could be 65% less than now.	1	1	1	1	No impact on permitted activities.	1	1	1

***Indicates data has come from climate change allowances as part of the spatial planning process. Evidence from your planning submission is acceptable evidence for this worksheet.**

3.2 Form B3

1 What activities are you applying to vary?

Table B3-1a: Types of activities

Schedule 1 listed activities						
Installation name	Schedule 1 references	Description of the Activity	Activity capacity	Annex I (D codes) and Annex II (R codes) and description	Hazardous waste treatment capacity (if this applies)	Non-hazardous waste treatment capacity (if this applies)
Stanley Downton STW	S5.4A1(b)(i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 100 tonnes per day involving one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC— (i) biological treatment by anaerobic digestion	From receipt of permitted waste through to digestion and transfer of digested sludge for offsite dewatering. Anaerobic digestion of permitted waste including pasteurisation and chemical addition.	117m^3 per day (input) 819m^3 per week (input)	R3 Recycling / reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes) R13 Storage of waste pending any of the operations numbered R1 to R 2 (excluding temporary storage, pending collection, on the site where the waste is produced) D10 Incineration on land	None	117m^3 per day

Name of DAA	Description of DAA
AR2	Storage of digestate prior to transfer offsite to a suitable works for dewatering;
AR3	Storage of biogas;
AR4	Combustion of biogas in an MCPD and SG compliant biogas CHP unit and auxiliary boilers;

AR6	Emergency flare;
AR8	Storage of raw materials.
Total storage capacity (tonnes)	1,750 m^3
Annual throughput (tonnes each year)	42,588 tonnes

1b Waste Accepted

No wastes accepted at site.

2 Point source emissions to air, water and land

Table B3-2(i) – Emissions to Air

Emission point reference and location (NGR/Latitude and Longitude	Source	Parameter	Concentration	Units
A1	1CHP engine	NOx	500	mg/m^3
		SO_2	350	mg/m^3
		CO	1400	mg/m^3
A2	Boiler 1 (biogas)	NOx	200	mg/m^3
		SO_2	100	mg/m^3
		CO	No limit set	mg/m^3
	Boiler 1 (natural gas)	NOx	100	mg/m^3
		CO	No limit set	mg/m^3
A3	Emergency Flare (note 1)	NOx	150	mg/m^3
		CO	50	mg/m^3
		Total VOCs	10	mg/m^3
A4	Digester storage pressure relief valve	No limit set	-	-
A5	Gas Storage pressure relief valve	No limit set	-	-

Note 1: 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 to the Environment Agency

Table B3-2(ii) - Points were emissions leave the permit boundary

Emission Point reference and location (NGR/Latitude and Longitude	Source	Parameter	Concentration	Units
T1	Installation returns to works inlet	No limit set	-	-

There are no permitted emissions to water, sewer or land from the activities covered by this permit.

3 Operating techniques

Table B3-3(i) – (Table 3) Technical Standards

Schedule 1 activity or DAA	Best available techniques	Document references
Anaerobic Digestion plant S5.4A1(b)(i) Storage of waste (DAA)	S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste	V5, May 2013
Other biological treatment of waste: deposit of imported non-hazardous waste for treatment through a wastewater treatment works.	Control and monitor emissions for your environmental permit	https://www.gov.uk/guidance/control-and-monitor-emissions-for-your-environmental-permit
Other biological treatment of waste: deposit of imported non-hazardous waste for treatment through a wastewater treatment works.	H4 Odour Management – how to comply with your environmental permit	Published April 2011

3b General requirements

Table B3-3(ii) – (Table 4) General requirements

Name of the installation: Stanley Downton Sewage Treatment Works	Document references
If the technical guidance or your risk assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them.	N/A – see Table B2-6 above
If the technical guidance or your risk assessment shows that odours are an important issue, send us your plan for managing them.	See Odour Management Plan **Appendix F**
If the technical guidance or your risk assessment shows that noise or vibration are important issues, send us your noise or vibration plan (or both).	N/A – see Table B2-6 above

If the TGN or H1 assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them.

Although screened out of the detailed Risk Assessment (Question B2 Q6), due to the nature of the process the installation has the potential to generate fugitive emissions to air and water, which are subject to a number of process controls.

Risk Matrix and Terminology for Accident for Risk Assessment

Likelihood	Consequence		
	Low	Medium	High
Low	Low	Low	Medium
Medium	Low	Medium	High
High	Medium	High	High

Classification of Consequences

Classification	Definition
Low	Impact is low or a minor, short-term nuisance. Minor release to a non-sensitive receptor or pollution of water course. Non-permanent health effects to human health (easily prevented by appropriate use of PPE) Minor surface damage to a building, structure, service or the environment which can be repaired immediately
Medium	Impact is noticeable in the short to medium term Large release impacting on the receiving media which kills flora and fauna and requires remediation Nuisance causing non-permanent health effects to human health Damage to buildings, structures and services which prevents use in the short-term and/or requires a specialist repair
High	Impact is significant, wide-ranging and long lasting effect Has either a chronic or acute impact on human health Very large release that has a major impact on flora and fauna which may be very difficult to remediate Significant damage to a single or multiple building, structure and service which prevents use over a long term and may require complete replacement May cause a long-term impact or contribute towards a global issue due to releases of greenhouse gases

Classification of Likelihood

Classification	Definition
Low	Probability of an event is low and likely only to occur in the long term (a yearly basis or less frequent)
Medium	It is probable that an event will occur periodically in the medium term (twice yearly basis)
High	An event is very likely to occur in the short term (monthly or weekly basis), and is almost inevitable over the long term OR there is evidence at the receptor of harm or pollution

The following categorisation of risk has been developed and the terminology adapted as follows:

Term	Definition
Low	A level of harm is possible although this may not be noticeable to a receptor and would be a short-term event without lasting effects. Level of harm can be reduced using industry best practice and appropriate measures and techniques
Medium	A level of harm may arise to a receptor which is noticeable although not long lasting and may require some remedial actions in order to prevent re-occurrences.
High	A level of harm is likely to arise to a receptor that is severe causing significant harm to human health or the environment without appropriate remedial and mitigation measures being implemented. Remedial works to infrastructure and processes is required in the long term.

Although screened out of the detailed Risk Assessment (Question B2 Q6), due to the nature of the processes, the anaerobic digestion operations, along with biogas utilisation have the potential to generate fugitive emissions to air and water, which are subject to a number of process controls.

Table B3-3b(iii) – Fugitive emissions risk assessment

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
Emissions to air of NOx, SO_2, CO_2 and VOCs	Normal	Emissions to air and dispersion leading to inhalation by local human and animal receptors	High	Low	Medium	Activities are managed and operated in accordance with the site management system (including inspection and maintenance of equipment, including engine management systems), point source emissions to air (CHP engines, boiler and emergency flare stack) have emission limits for NOx, CO_2, SO_2. Flare stack height approx. 6m, CHP stack approx. 6m and boiler flue approx. 6m.	Low
Gas transfer systems, gas storage tank, gas engines, flares or PRVs failure causing emissions of biogas	Abnormal	Emissions to air and dispersion leading to: inhalation by local human and animal receptors. Odour impact. Global warming potential. Risk of fire and explosion	Low	Medium	Low	The plant is designed to capture and utilise all biogas possible, combusting the biogas in order to maximise recovered value from the biological treatment of sludge. The gas system utilised is subject to regular preventative maintenance to minimise the potential for leaks occurring. The system is also protected with a comprehensive array of pressure and flow sensors and with isolation valves to minimise the potential for release if a leak is detected. The railway track is located 250m east of the gas storage and the closest residential area is located 340m north east. Personnel on site wear portable gas detectors in order to alert staff to presence of biogas. A waste gas burner (emergency flare) is utilised for the safe disposal of surplus gas in the event of plant breakdown, or a surplus of gas above the level that can be safely stored or utilised. Use of emergency flare is recorded. PRVs are in place on the top of the digester to be operated in the event of failure of the emergency	Low

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
						flare to prevent over pressurisation and catastrophic failure.	
Catastrophic loss of biogas emissions from gas transfer systems, gas storage tank, gas engines, flares or PRVs	Abnormal	Emissions to air and dispersion leading to: inhalation by local human and animal receptors. Odour impact. Global warming potential. Risk of significant fire and explosion	Low	High	Medium	The plant is designed to capture and utilise all biogas possible, combusting the biogas in order to maximise recovered value from the biological treatment of sludge. The gas system utilised is subject to regular preventative maintenance to minimise the potential for leaks occurring. The system is also protected with a comprehensive array of pressure and flow sensors and with isolation valves to minimise the potential for release if a leak is detected. A waste gas burner (emergency flare) is utilised for the safe disposal of surplus gas in the event of plant breakdown, or a surplus of gas above the level that can be safely stored or utilised. Use of emergency flare is recorded. PRVs are in place on the top of the digesters to be operated in the event of failure of the emergency flare to prevent over-pressurisation and catastrophic failure.	Medium
Combustion of biogas within CHP engine and emergency flare. Combustion of biogas or natural gas within boilers	Normal	Emissions to air and dispersion leading to: inhalation by local human and animal receptors. Global warming potential	High	Low	Medium	Combustion plant is regularly maintained and appropriately sized to manage volumes of gas. Combustion plant operates within permitted ELVs subject to routine monitoring against permit compliance. CHP engine located away from the nearest residential and commercial properties. The closest residential receptor to the CHP engine and emergency flare is a small farm house located 300m north east. The railway track lies 210m east of the CHP.	Low

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
Fugitive emissions from open top tanks within the installation	Normal	Emissions to air and dispersion leading to inhalation by local human and animal receptors. Odour impact of bioaerosols. Global warming potential	Medium	Low	Medium	Secondary digesters / pathogen kill tanks may give rise to fugitive emissions of biomethane and odour. Severn Trent are committed to carrying out a survey of these potential emissions and considering the way in which they can be captured and mitigated if the measured emissions require this. As part of the monitoring programme at the site, emissions from this tank will also be analysed.	Medium
Release of bioaerosols and dust	Normal	Emissions to air and dispersion leading to inhalation by local human and animal receptors. Odour impact of bioaerosols. Nuisance impact of dust.	Low	Low	Low	The risk of bioaerosol and dust is largely eliminated by only handling sludges at the site. All dewatering and storage of cake is undertaken offsite. Roads are made from concrete/asphalt and not prone to the generation of dust.	Low
Release of bioaerosols and dust from spillages	Abnormal	Emissions to air and dispersion leading to inhalation by local human and animal receptors with potential harm to health. Odour impact of bioaerosols. Nuisance impact of dust.	Low	Low	Low	The risk of bioaerosol and dust is largely eliminated by only handling sludges at the site. All dewatering and storage of cake is undertaken offsite. The site is located in a rural area away from sensitive receptors. Natural barriers to windblown dispersion are provided by stands of trees which surround the site. Roads are made from concrete/asphalt and not prone to the generation of dust. Staff responsible for site housekeeping and cleaning of spillages in a timely manner.	Low
Spillage of liquids, including chemicals and oils.	Abnormal	Emissions to surface waters close to and downstream of site. Acute effect resulting in loss of flora and fauna. Chronic effect resulting in	Low	Medium	Low	The River Frome is 270m north if the site at it's closest point and 415m north from the closest sludge treatment works facility (Boiler House). The River Frome splits into multiple rivers further north west and one more of these rivers is located 570m north of the site and the Stroudwater Navigation 680m north of the site. A	Low

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
		deterioration of water quality Emissions to ground and ground water.				small nameless stream is located 670m south of the site. Chemicals and oils all stored within suitably bunded tanks and IBCs with rainwater removed as required to maintain 110% capacities. Chemical delivery areas are centrally located and fitted with penstock valves to contain large spillages. Handling and use of chemicals and oils is carried out by trained personnel. COSHH data sheets available. Spill kits available on site. There are no point source emissions to water within the permit boundary, as the drainage system pumping back to works inlet.	
Spillage from storage and digestion tanks, overtopping of tanks, leakage from same tanks and from buried pipes	Abnormal	Emissions to surface waters close to and downstream of site. Acute effect resulting in loss of flora and fauna. Chronic effect resulting in deterioration of water quality Emissions to ground and ground water.	Medium	Low	Medium	The site does not lie within a groundwater Source Protection Zone (SPZ). Provision of suitably structurally integral tanks constructed from steel and glass reinforced plastic/insulation (where needed). All tanks are subject to internal and external asset inspection and proactive maintenance programme including regular visual inspection for cracks or weeping. Leak detection systems, visual checks during regular day-to-day operations and scheduled preventative maintenance of equipment, such as pumps, pipes, joins etc Biogas condensate discharged back to the works inlet through site drainage system. Spill kits available on site.	Low

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
						There are no point source emissions to water within the permit boundary, as the drainage system pumping back to works inlet.	
Generation of solid waste resulting in litter	Normal	Releases of litter to the environment. Visual nuisance and local loss of amenity	Low	Low	Low	Site operations do not give rise to large amounts of solid wastes and litter that would be prone to dispersion by wind. Rags are stored within skips and retain high moisture content. Waste is stored securely for collection by appropriately licensed approved contractors. Litter picking activities are completed as required.	Low

Where the TGN or H1 assessment shows that odours are an important issue, send us your odour management plan.

Due to the nature of the process, the installation has the potential to generate odorous emissions resulting from the permitted activities. Odour management is a key operational objective, as summarised in the risk assessment table below. A copy of the site-specific odour management plan has been appended to this application as **Appendix F.**

Table B3-3b(iv) – Odour risk assessment

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
H_2S/biogas emissions from uncovered tanks	Normal	Emissions to air and dispersion leading to inhalation by local human receptors Loss of amenity from odour nuisance	High	Low	Medium	Biogas will principally be generated in the primary digestion tank which is covered with a fixed roof. There may be low levels of biogas emitted from the secondary digesters / pathogen kill tanks, where digested sludge is held for an extended period to ensure that a sufficient level of pathogen kill has been achieved. Emissions from these tanks will be monitored and measured by	Low

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
						Severn Trent to determine the need for capture and abatement The other open topped tank, the export tank, should not have biological activity. The nearest properties consists of a small farm house located approximately 340m north east of the primary digestor. The railway track runs along the eastern boundary of the site and is 235m east of the primary digestor at it's closest point. Small amounts of biogas may also be generated within primary batch tanks (covered) and digester feed tanks (uncovered) located at the southern side of the wider STW site. . H_2S production is controlled through the digestion process which can be manually overridden if required.	
Loss of containment from biogas holder and biogas pipework	Abnormal	Emissions to air and dispersion leading to inhalation by local human receptors Loss of amenity from odour nuisance	Low	Medium	Low	Biogas is principally stored within dual membrane biogas holder which is suitably sized to manage biogas generation and act as buffer storage for biogas. The gas system utilised is subject to regular preventative maintenance to minimise the potential for leaks occurring. The system is also protected with a comprehensive array of pressure and flow sensors and with isolation valves to minimise the potential for release if a leak is detected. Personnel on site wear portable gas detectors in order to alert staff to presence of biogas. PRVs available to safely manage pressures within the floating roof digesters to prevent under or over pressurization.	Low

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
Activation of biogas pressure relief valve	Abnormal	Emissions to air and dispersion leading to inhalation by local human receptors Loss of amenity from odour nuisance	Low	Low	Low	PRVs are only activated in emergency situations to maintain safety within the biogas system and are re-seated/repaired promptly to minimize biogas emissions. PRVs subject to monitoring via pressure on SCADA and visual checks by site personnel. Biogas is principally stored within dual membrane biogas holder which is suitably sized to manage biogas generation and act as buffer storage for biogas. Site has one CHP engine, one boilers and one flare which are used in order of preference to maximise recovery of energy. CHP engine and boiler are subject to regular maintenance to maintain maximum use of outlets, with flare maintained in good working order should it need to be used. The closest residential receptor to the CHP engine and emergency flare is the small residential area located 370m south west.	Low
H_2S/biogas emitted when biogas cannot be combusted in engine, boilers or flare	Abnormal	Emissions to air and dispersion leading to inhalation by local human receptors Loss of amenity from odour nuisance	Low	Low	Low	Biogas is principally stored within dual membrane biogas holder which is suitably sized to manage biogas generation and act as buffer storage for biogas. Site has one CHP engine, one boiler and one flare giving multiple outlets for biogas. The closest residential receptor to the CHP engine and emergency flare is the small farm house located 300m north east. CHP engine and boiler are subject to regular maintenance to maintain maximum use of outlets, with flare maintained in good working order should it need to be used.	Low

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
Storage of treated digested sludge	Normal	Emissions to air and dispersion leading to inhalation by local human receptors Loss of amenity from odour nuisance	Medium	Low	Low	Digested sludge cake is not produced or stored on site. Digested sludge is stored in the open topped, subsurface concrete export tanks before removal off site for dewatering. The closest residential receptor to the export tank is a small farm house located 290m to the north east and is separated from sensitive receptors by trees. Should any odorous digested sludge be produced, this will be subject to process checks undertaken to identify root cause of production and removed from site expediently.	Low
Failure of odour control units	Abnormal	Emissions to air and dispersion leading to inhalation by local human receptors Loss of amenity from odour nuisance	Low	Low	Low	There are no odour control units within the permitted area	Low
Storage of site generated wastes	Normal	Emissions to air and dispersion leading to inhalation by local human receptors Loss of amenity from odour nuisance	Low	Low	Low	Wastes generated on site are not inherently odorous and is stored securely for collection by appropriately licensed approved contractors.	Low

If the TGN or H1 assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)

The installation has the potential to generate noise as a result of the permitted activities. Potentially noisy activities are subject to a number of process controls and noise management is a key operational objective, as summarised in the risk assessment table below. Note there is no history of substantiated noise complaints relating to the site

Table B3-3b(v) - Noise Risk Assessment

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
Operation of CHP engine	Normal	Generation of noise with air transportation, causing loss of amenity to local human receptors	High	Low	Medium	The CHP engine is acoustically baffled, self-contained and designed for external applications therefore noise emissions are already low. The closest residential receptor to the CHP engine and emergency flare is the small farm house located 300m north east. Good maintenance of plant to ensure that excessive noise levels are not generated. Regular checks of noise mitigation measures fitted to items of plant. Such measures include silencers and baffles fitted to specific areas of plant. Where repair or replacement is required, the plant will, where possible, be taken out of service until repair or replacement of parts has been undertaken.	Low
Operation of fans on air cooled radiators	Normal	Generation of noise with air transportation, causing loss of amenity to local human receptors	High	Low	Medium	Air cooled radiators do not give rise to high levels of noise and are only used as required. They are centrally located, away from sensitive human receptors with the nearest sensitive receptor over 250m away. Good maintenance of fans to ensure that excessive noise levels are not generated. Where repair or replacement is required, this will be completed promptly.	Low
Operation of site vehicles	Normal	Generation of noise with air transportation, causing loss of amenity to local human receptors. Generation of vibration with ground transmission, causing loss of amenity to local human receptors.	Medium	Medium	Medium	Vehicle movements across the site subject to speed limit and traffic management plan to reduce generation of noise. Reversing obligations minimised by site layout. Tanker movements limited to daytime only.	Low

Activity/Hazard	Normal or Abnormal	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
Operation of emergency flare	Abnormal	Generation of noise with air transportation, causing loss of amenity to local human receptors.	Medium	Low	Medium	Use of the emergency flares is minimized by prioritizing use of the CHP and boiler with use of the flare recorded. Emergency flare is located in the northern part of the sludge treatment site and is located 360m north east from the nearest residential receptor.	Low

Table B3-3b(vi) – Environmental Risk Assessment and Accident Management Plan

Activity/Hazard	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
Major fire and/or explosion causing the release of polluting materials to air, water or land.	Emissions to air and dispersion leading to inhalation by local human receptors. Respiratory irritation, illness and nuisance to local population Emissions to ground and ground water of digestate contaminating soil and/or groundwater. Run-off from site polluting surface water courses. Harm to aquatic flora and fauna and chronic effect on water quality. Injury to staff, fire fighters or arsonists/vandals.	Low	High	Medium	Follow site Incident Response Plan and inform relevant authorities. Management systems requires DSEAR assessment which is adhered to by site operations. Designated ATEX zones on site and lightning protection system in place around biogas holder. Fire alarm system installed and maintained. Biogas contained within a closed system and monitored for safety. Automatic cut off valve to biogas supply to stop gas flows, electric temperature sensor, pressure monitors, flame arrestors, etc. Warning signs clearly displayed and staff wear gas alarms to alert to the presence of biogas. All visitors subject to site inductions and accompanied. Permit-to-work system in place.	Low

Activity/Hazard	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
					Preventative maintenance programme and maintenance plans are in place in order to maintain equipment effectively. Smoking only permitted in designated areas of site.	
Minor fire causing the release of polluting materials to air, water or land	Emissions to air and dispersion leading to inhalation by local human receptors. Respiratory irritation, illness and nuisance to local population Emissions to ground and ground water of digestate contaminating soil and/or groundwater. Run-off from site polluting surface water courses. Harm to aquatic flora and fauna and chronic effect on water quality. Injury to staff, fire fighters or arsonists/vandals.	Low	Medium	Low	Follow site Incident Response Plan and inform relevant authorities. Management systems requires DSEAR assessment which is adhered to by site operations. Designated ATEX zones on site and lightning protection system in place around biogas holder. Fire alarm systems installed and maintained. Biogas contained within a closed system and monitored for safety. Automatic cut off valve to biogas supply to stop gas glows, electric temperature sensor, pressure monitors, flame arrestors, etc. Warning signs clearly displayed and staff wear gas alarms to alert to the presence of biogas. All visitors subject to site inductions and accompanied. Permit-to-work system in place. Preventative maintenance programme and maintenance plans are in place in order to maintain equipment effectively. Smoking only permitted in designated areas of site.	Low
Failure to contain firefighting water	Emissions to ground and ground water of contaminated firefighting water entering soil and/or	Low	Medium	Low	Likelihood of firefighting water being generated is low as the risk of fire is low.	Low

Activity/Hazard	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
	groundwater. Run-off from site to surface water courses. Harm to aquatic flora and fauna. Chronic effect on water quality				Follow site Incident Response Plan and inform relevant authorities. Spill kits provided around the site can be used to direct run-off towards site drainage. Site drainage returns to works inlet providing containment and treatment process for fire water. Arrange for off-site tankering of firefighting water, if required.	
Accidental explosion of biogas	Emissions to air and dispersion leading to inhalation by local human receptors. Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists/vandals. Pollution of water or land	Low	High	Medium	Follow site Incident Response Plan and inform relevant authorities. Management systems requires DSEAR assessment which is adhered to by site operations. Designated ATEX zones on site and lightning protection system in place around biogas holder. Fire alarm systems installed and maintained. Biogas contained within a closed system and monitored for safety. Automatic cut off valve to biogas supply to stop gas glows, electric temperature sensor, pressure monitors, flame arrestors, etc. Lightning protection system installed Likelihood reduced by availability of multiple on site uses of biogas (CHP, boiler and emergency flare) and use of pressure release valves as a safety measure.	Low
Significant leak of biogas to atmosphere	Emissions to air and dispersion leading to inhalation by local human receptors. Respiratory irritation, illness and nuisance to local population.	Low	High	Medium	Site assets are protected by physical means to prevent vehicle strike and exposed pipework is guarded.	Low

Activity/Hazard	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
	Global warming potential of greenhouse gases.				Regular proactive and preventative maintenance and regular visual checks. Pressure relief valves are present to avoid over-pressurisation of biogas system.	
Leaks of emission to air, but principally NOx.	Emissions to air and dispersion leading to harm to protected nature conservation sites – SSSIs, SAC and SPA. Harm to protected site through toxic contamination, nutrient enrichment, disturbance etc.	Medium	Medium	Medium	The nearest designated habitat sites is Five Acre Grove Ancient Woodland/LWS, which is located 0.3km south of the site. Rodborough Common SAC is located 5.5km east and Severn Estuary SAC/SPA/RAMSAR site is located 5.5km west of the site/ There are no LNRs, NNRs or SSSIs within 2km of the site. Emissions modelling shows that deposition and impacts on habitats sites are acceptable. Site operations will be subject to emission limits under current Regulations with infrastructure designed to minimise uncontrolled releases. Checks, monitoring and preventative maintenance will further minimise fugitive emissions.	Low
Spillage of raw materials during (e.g. diesel, polymer) during use, transfer and disposal operations.	Emissions to ground and ground water of materials entering soil and/or groundwater. Run-off of liquids from site to surface water courses. Harm to aquatic flora and fauna. Chronic effect on water quality	Low	Medium	Low	Raw materials are stored on made ground, within bunded containers or on bunds to contain spillages of 110% of the volume. Contents of bunds are regularly checked during environmental audits and after periods of heavy rainfall and emptied as required. In event of a spillage, follow site spillage response plan and inform relevant site personnel. COSHH data sheets available. Deliveries to site are made by approved suppliers. Use of raw materials is carried out by trained personnel or automatically controlled processes.	Low

Activity/Hazard	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
					Penstock valves available within chemical delivery areas to contain large spillages. In the event of a minor spillage, spill kits are provided around the site which can be used to contain a spillage and direct it towards site drainage if suitable. Site drainage returns to works inlet providing treatment process for suitable materials, or arrange off-site tankering of waste, if required.	
Spillage of sludges (e.g. raw sludge, digested sludge) during processing and transfer operations e.g. tank overtopping, pipework leaks	Emissions to ground and ground water of materials entering soil and/or groundwater. Run-off of liquids from site to surface water courses. Harm to aquatic flora and fauna. Chronic effect on water quality	Low	Low	Low	Processing and transfer operations of waste materials is largely an automatic process controlled by the Process Controllers and parameters set within the SCADA system. Storage and digestion tanks are fitted with sensors to monitor levels within a tank and can inhibit additional pumping if high alarms activate. Preventative maintenance programme and maintenance plans are in place in order to maintain equipment effectively and minimise the risk of spillages. In event of a spillage, follow site spillage response plan and inform relevant site personnel and relevant authorities. Spill kits are provided around the site which can be used to contain a spillage and direct it towards site drainage. Site drainage returns to works inlet providing treatment process for sludge or arrange off-site tankering of waste to another site. Sludge is relatively viscous and not highly mobile.	Low
Failure of sludge storage tanks / digester tanks	Emissions to ground and ground water of materials entering soil	Low	High	Medium	Follow site Incident Response Plan and inform relevant authorities.	Low

Activity/Hazard	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
	and/or groundwater. Run-off of liquids from site to surface water courses. Harm to aquatic flora and fauna. Chronic effect on water quality.				Regular internal and external infrastructure inspections for tanks and pipework and planned preventive maintenance system in place. Regular visual inspections for tanks and pipework and reactive maintenance. In-line flow monitoring in key locations and tank level monitoring would identify losses and enable a quick response. Tanks are based on made ground and connected to site drainage which returns to works inlet. Sludge is relatively viscous and not highly mobile limiting the distance it can spread in a short time period.	
All on-site hazards: machinery	Direct physical contact with human population and /or livestock after gaining unauthorised access to the installation Bodily injury	Low	High	Medium	Direct physical contact is minimised by activity being carried out by enclosed plant and equipment, which has undergone a HAZOP assessment Site activities are managed and operated in accordance with a management system. Site physical security measures to prevent unauthorised access. Assets are protected by various physical means including fencing, kerbing and bollards to prevent vehicle strikes. Site has a one-way traffic management system to minimise the need to reverse. Use of banksmen as appropriate. Vehicles equipped with reversing alarms.	Low
Vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Emissions to air and dispersion leading to inhalation by local human receptors. Respiratory	Low	High	Medium	Unauthorised access is unlikely to happen and minimised by physical site security measures and effective management systems.	Low

Activity/Hazard	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
	irritation, illness and nuisance to local population Emissions to ground and ground water of digestate contaminating soil and/or groundwater. Run-off from site polluting surface water courses. Harm to aquatic flora and fauna and chronic effect on water quality. Injury to staff, fire fighters or arsonists/vandals.				Site has access controlled gated entry for all vehicular access. Fence runs the perimeter of the site. Additional security fences around some assets and other assets are kept within locked containers or buildings. Warning signs are displayed.	
Flooding from rivers, streams and groundwater	Emissions to surface water course and harm to aquatic flora and fauna. Infiltration to ground and groundwater. Harm to aquatic flora and fauna and chronic effect on water quality.	Low	Low	Low	The site is not located within a Flood Risk Zone as outlined on the Environment Agency's Flood Map for Planning and therefore is not situated in an area prone to flooding. The nearest Flood Risk Zone (Flood Risk Zone 3) is located immediately along the northern boundary of the site associated with the River Frome. General wider works designed to minimise risk of localised works flooding due to storm surges. Follow site Incident Response Plan and inform relevant authorities. Take appropriate corrective and preventative actions to minimise environmental impact	Low
Flooding due to drain blockages and/or excessive rainfall causing localised on-site surface water flooding	Emissions to surface water course and harm to aquatic flora and fauna. Infiltration to ground and groundwater. Harm to aquatic flora and fauna and chronic effect on water quality.	Medium	Low	Low	Site wide drainage system linked to main sewage works, which includes additional capacity in storm tanks within the works to manage additional flows. Follow site Incident Response Plan and inform relevant authorities.	Low

Activity/Hazard	Environmental Impact (Pathway-Receptor)	Likelihood	Consequence	Risk	Risk Management	Residual Risk
					Take appropriate corrective and preventative actions to minimise environmental impact	
Loss of mains power leading to failure of pumps / control systems and possible leaks and escape of sludge.	Emissions to ground and ground water of materials entering soil and/or groundwater. Run-off of liquids from site to surface water courses. Harm to aquatic flora and fauna.	Low	Medium	Low	Site CHP engine is able to supply electricity to the site using biogas supplies on site. Standby generators provide back-up power / contingency plans to provide power to critical operations in the event of an electrical outage. Failsafe systems in place to ensure sludge remains in situ in the event of a loss of power and that systems are promptly returned into operation. Site wide drainage system linked to main sewage works in the event of a spillage.	Low

3c Types and amounts of raw materials

Table B3-3(vii) – (Table 5) Types and amounts of raw materials

Name of Installation	Stanley Downton Sewage Treatment Works				
Schedule 1 activity	Description of raw material and composition	Maximum storage amount (tonnes or as stated)	Annual throughput (tonnes per annum or as stated)	Description of the use of the raw material including any main hazards (include safety data sheets	Alternatives
Section 5.1A(1)(b)(i)	Anti-foam: KemFoamX 2599	1,000 litres (1 IBCs)	<4,000 litres	Added to primary digester to reduce foaming, as required	Standard product used for this purpose within the industry
Section 5.1A(1)(b)(i)	Polymer: Flopam EM 640HIB	Polymer liquid: 2,000 litres (2 IBCs)	5,000 litres	Flocculant added to digested sludge to aid centrifugation and dewatering	Standard material added in industry
	Diesel	18,000 litre tank	<12,000 litres	Back-up fuel for use within boilers	Standard product used for this purpose within the industry
	Lubricating oils	1,000 litres	3,500 litres	Equipment lubricant	Standard product used for this purpose within the industry
	Waste oil	Data unknown	Data unknown	Waste oil from the CHP.	None.
	Biogas	Data unknown	Data unknown	Primary fuel for the CHP engines	Best available practice.

4 Monitoring

4a Describe the measures you use for monitoring emissions by referring to each emission point in Table 2 above.

The air emission points A1 and A2 (CHP and boiler) to be monitored in accordance with the requirements of MCPD and Environment Agency guidance.

Emission points A3 (Emergency Flare), A4-5 (biogas pressure relief valves), to be monitored in accordance with current EA guidance.

Point T1 to be monitored in accordance with BAT7.

4b Point source emissions to air only

These questions have been responded to, in relation to points A1 and A2 only.

4b1 Has the sampling location been designed to meet BS EN 15259 clause 6.2 and 6.3?

No

4b2 Are the sample ports large enough for monitoring equipment and positioned in accordance with section 6 and appendix A of BS EN 15259?

No

4b3 Is access adjacent to the ports large enough to provide sufficient working area, support and clearance for a sample team to work safely with their equipment throughout the duration of the test?

Yes

4b4 Are the sample location(s) at least 5 HD from the stack exit

No

4b5 Are the sample location(s) at least 2 HD upstream from any bend or obstruction?.

No

4b6 Are the sample location(s) at least 5 HD downstream from any bend or obstruction?

No

4b7 Does the sample plane have a constant cross sectional area?

No

4b8 If horizontal, is the duct square or rectangular (unless it is less than or equal to 0.35 m in diameter)

N/A – ducting is 0.3m diameter

4b9 If you have answered 'No' to any of the questions 4b1 to 4b8 above, provide an assessment to how the standards in BS EN 15259 will be met.

As an existing operational site with the combustion assets entering environmental permitting for the first time, sampling locations and sampling ports may not meet all of the requirements for BS EN 15259, but these are being checked onsite. Due to the nature of the ducting access, it is not possible to conduct a full velocity profile, however, no particulate sampling is required for biogas fuelled units, and all gaseous species are considered to be mixed sufficiently for the purposes of monitoring. There is no requirement to undertake a homogeneity test as per BS EN 15259 and as such the location cannot be compared against that or the criteria in M1. The sampling location to be used is the same as that used at other, similar, permitted facilities and have been approved for use by the Environment Agency.

Due to the size of the CHP and boiler, a permanent sampling platform is not provided, however, a temporary sampling platform is utilised to provide sufficient space, in accordance with standard industry practice.

Air emission points A1, A2 and A3 will be subject to periodic monitoring in accordance with the requirements of the Medium Combustion Plant Directive (EU2015/2193).

5 Environmental impact assessment

5a Have your proposals been the subject of an environmental impact assessment under Council Environmental Impact Assessment [EIA] Directive 2014/52/EU transposed into UK legislation in 2017

No

6 Resource efficiency and climate change

6a Describe the basic measures for improving how energy efficient your activities are.

Table B3-6a below describes the measures taken on site to minimise energy use.

Table B3-6a – Energy efficiency measures

Operating and maintenance	Documented measures in place	
Regular testing and maintenance of biogas systems for leaks, seals, and condensate traps	Yes	Maintenance/servicing undertaken by qualified technicians and registered organisations. Records are maintained on site.
Operation of motors and drives	Yes	Regular inspections/lubrication and maintenance undertaken by qualified technicians and specialist contractors for motor rewinds and recorded on Maintenance Tracking System.
Hot water systems	Yes	Digester system monitored constantly and inspected and tested regularly by an operator and recorded.
Lubrication to avoid high friction losses	Yes	Technicians and specialist contractors carry out regular lubrication, including CHP engine oil change, and records are maintained.
Boiler maintenance e.g. optimising excess air	Yes	Carried out as per legislative requirements.
Maintenance of steam pressure relief valves	Yes	Carried out as per legislative requirements.
Physical measures	**Documented measures in place**	
Sufficient insulation of steam systems, heated vessels and pipework	Yes	All steam lines, digesters and boilers have insulation to minimise heat losses.
Provision of sealing and containment methods to maintain temperature	Yes	Anaerobic digesters are enclosed.
Building services	**Documented measures in place**	
Energy efficient lighting is in place	Yes	There are limited building service requirements on site, energy efficient options are provided where readily available, and when equipment comes up for renewal.
Space heating	Yes	
Hot water	Yes	
Temperature control	Yes	
Ventilation	Yes	

Draft proofing	Yes	
BAT conclusions for energy recovery	**Documented measures in place**	
Heat recovery	Yes	Heat recovered from CHP engines operated to provide electrical power, to maintain anaerobic reactor temperature.
Heat exchangers	Yes	Heat exchangers are used in the CHP Engines and in the anaerobic reactors.
Re-use of spent cooling water	Not Applicable	
Minimisation of water use and re-circulating water systems for energy saving	Yes	Water is recirculated within the anaerobic reactor heating systems
Good insulation	Yes	Boilers, anaerobic reactors and pipework are insulated
Plant layout to reduce pumping distances	Yes	Where existing layout allows
Optimised energy efficiency measures for combustion plant	Yes	Regular maintenance.

6b Provide a breakdown of any changes to the energy your activities use up and create

The main site energy sources are electricity from the public supply and biogas generated by the anaerobic digester which is combusted in the CHP engine to generate electricity and heat on site.

6c Have you entered into, or will you enter into, a climate change levy agreement

No, the activities are not eligible to take part in the CCL Scheme.

6d Explain and justify the raw and other materials, other substances and water that you will use

See response to question 3c above.

6e Describe how you avoid producing waste in line with Council Directive 2008/98/EC on waste

The facility is a waste treatment plant, and the primary wastes produced through the processes on site are maintenance waste. Production of maintenance waste is minimised by ensuring that preventative maintenance is carried out based on a combination of manufacturers best practice and operational experience.

7 Installations that include a combustion plant (excluding waste incinerators)

7a List all your combustion plant at the site and provide thermal input and operating hours for each

CHP 1x 0.6MWth – 8760 hours per annum

Flare <876 hours per annum.

Boiler 1 x 0.4MWth – 6000 hours per annum (approx.)

7b Do any of your combustion plants have a net rated thermal input of one or more MW and is not an excluded MCP?

Units are existing plant under MCPD. For clarity information below supplied.

Table B3-7b – Medium Combustion Plant Information

MCP specific identifier*	CHP 1 - Stanley Downton	Boiler 1 - Stanley Downton
12-digit grid reference or latitude/longitude	E 379159 N 204580	E 379167 N 204560
Rated thermal input (MW) of the MCP	0.6	0.4
Type of MCP (diesel engine, gas turbine, other engine or other MCP)	Gas engine	Boiler
Type of fuels used: gas oil (diesel), natural gas, gaseous fuels other than natural gas	Biogas	Dual fuelled (biogas / gas-oil). Modelled with biogas.
Date when the new MCP was first put into operation (DD/MM/YYYY)	2015	Pre-2010
Sector of activity of the MCP or the facility in which it is applied (NACE code**)	37.00	37.00

MCP specific identifier*	CHP 1 - Stanley Downton	Boiler 1 - Stanley Downton
Expected number of annual operating hours of the MCP and average load in use	Modelled continuously (i.e. 8,760 hours) at maximum load	Modelled continuously (i.e. 8,760 hours) at maximum load
Where the option of exemption under Article 6(8) is used the operator (as identified on Form A) should sign a declaration here that the MCP will not be operated more than the number of hours referred to in this paragraph	N / A	N / A

3.3 Form B4

1 What waste operations are you applying for?

1a Types of Waste accepted

See Table B3-1b(i) – Table B3-1b(ii) in Section 4.3 above.

EWC codes as previously stated.

1c Deposit for recovery purposes

1c1 Are you applying for a waste recovery activity involving the permanent deposition of waste on land for construction or land reclamation (including landfill restoration)?

No

2 Point source emissions to air, water and land

See question 2 in section 4.2.

3 Operating techniques

3a Technical standards

Table B4-3a – Technical standards

Description of waste operation	Appropriate measure (TGN reference)	Document reference (if appropriate)
Storage of waste (DAA)	S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste	V5, May 2013
Other biological treatment of waste: deposit of imported non-hazardous waste for treatment through a wastewater treatment works.	Control and monitor emissions for your environmental permit	https://www.gov.uk/guidance/control-and-monitor-emissions-for-your-environmental-permit
Other biological treatment of waste: deposit of imported non-hazardous	H4 Odour Management – how to comply with your environmental permit	Published April 2011

Description of waste operation	Appropriate measure (TGN reference)	Document reference (if appropriate)
waste for treatment through a wastewater treatment works.		

3a1 In all cases, describe the type of facility or operation you are applying for and provide site infrastructure plans, location plans and process flow diagrams or block diagrams to help describe the operations and processes undertaken.

3b General requirements

Table B4-3b General requirements

Name of the waste operation	Document references
If the technical guidance or your risk assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them.	N/A
If the technical guidance or your risk assessment shows that odours are an important issue, send us your plan for managing them.	Odour Management Plan
If the technical guidance or your risk assessment shows that noise or vibration are important issues, send us your noise or vibration plan (or both).	N/A

3c Information for specific sectors

N/A

4 Monitoring

4a Describe the measures you use for monitoring emissions by referring to each emission point in Table 2 above

See response for Form B3 previously

4b Point source emissions to air only

See response for Form B3 previously

3.4 Form B6

The relevant questions within the form are those applicable to effluent and / or surface water run-off arising from the operation of an installation

1 About the effluent – details and type, continued

1a Give a brief description of the effluent discharge you want a permit for, for example, treated domestic sewage effluent

From Point T1 – release via the site drainage system

This effluent is a mixture of waste liquors from the operation of the installation for the anaerobic treatment of separated sewage sludge. It primarily comprises of rainwater, as dewatering takes place off site. IN addition to rani water, cleaning residues, biogas condensate and boiler blowdown will be present at low volumes.

The only wastes treated within the installation are sewage related, either being separated from the UWWTD flow in the wider works, or comprise of waste imports, principally of sludge from smaller satellite treatment works, with lower volumes of cess, septic tank and similar sewage related arisings delivered by third parties.

1b Give this effluent a unique name

T1 - Permit returns

1d Have you obtained all the necessary permissions in addition to this environmental permit to be able to carry out the discharge (see B6 guidance notes for more details)?

Yes. The discharge is into the inlet of a sewage works controlled by the applicant.

2 About the effluent – how long will you need to discharge the effluent for?

2c Will the discharge take place all year?

Yes, the discharge will take place all year

3 How much do you want to discharge?

3b What is the maximum volume of effluent you will discharge in a day?

117 cubic metres

3c What is the maximum rate of discharge?

1.35 Litres / second

3d What is the maximum volume of non - rainfall dependent effluent you will discharge in a day?

117 cubic metres

3f For each answer in question 3, show how you worked out the figure on a separate sheet

3b – based on the maximum daily site input of 117 tonnes, assuming 1 tonne = 1 cubic metre. There are limited returns due to the lack of dewatering at the site, however any arisings must come from the installation inputs as there is limited additional water inputs. Actual discharge will be much lower as no allowance has been made for water entrained in the produced sewage sludge removed from site for dewatering, but there will be low volumes inputs like biogas condensate.

3c – this is based on (117m^3 / 86400) x1000. Arisings from sources such as dewatering are constant as the plant runs continuously. This gives a value of 1.3541667 litres, rounded up to 1.35 litres per second.

3d – based on the maximum daily site input of 117 tonnes, assuming 1 tonne = 1 cubic metre. The liquor arisings must come from the installation inputs as there is limited additional water inputs. As there is no dewatering on site, the actual produced returned liquors will be much lower than at suggested as sludge is removed from site by tankers. There will be low volumes of returns such as biogas condensate, cleaning residues and surface water only.

4 No questions

5 Should your discharge be made to the foul sewer?

5a How far away is the nearest foul sewer from the boundary of the premises?

Not applicable, the site is located within the curtilage of a sewage treatment works and discharges into the works inlet via the site drainage system.

5b2 Discharges from all other premises including trade effluent

Not applicable, the site is located within the curtilage of a sewage treatment works and discharges into the works inlet via the site drainage system.

6 How will the effluent be treated?

6a Do you treat your effluent?

Waste waters generated within the installation are not subject to pre-treatment.

The combined effluent generated by the process of treating sewage and sewage related arisings within the installation is returned to the inlet of the wider sewage treatment works, where it is subject to aerobic treatment in a mixture with UWWTD related waste waters.

6b Fill in Table 2 for each stage of the treatments carried out on your effluent in the order in which they are carried out

Table B6-6b – (Table 2) Treatments carried out on your effluent

Order of Treatment	Code Number	Description
First	09	Primary settlement within sewage works
Second	01	Biological filtration
Third	03	Tertiary biological treatment

6c You must provide details on a separate sheet of the final effluent discharge quality that the overall treatment system is designed to achieve

The final effluent discharge from the wider sewage treatment works is specified in Environmental Permit MI/S/22/26240/O/002.

7 What will be in the effluent?

7b Are any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' added to or present in the effluent as a result of the activities on the site?

BAT 6&7 sampling returns:

There are no direct emissions to water from the sludge treatment facility. The only indirect emission is of the surface waters, which are returned to the wastewater treatment works for aerobic treatment under Urban Wastewater regulations. The returns from the sludge treatment facility have originated from wastewater treatment works that are also under the control of Severn Trent Water. Therefore, the majority of process controls and sampling are carried out upstream of the point where liquors are returned from the sludge treatment facility to the onsite wastewater treatment works.

7c Have any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' been detected in samples of the effluent or in the sewerage catchment upstream of the discharge?

Please see previous answer.

7d Are there any other harmful or specific substances in your effluent not mentioned in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater'?

At present, no sampling or analysis for all substances listed within the referenced risk assessment at the site has been undertaken. A review of the MSDS sheets for chemicals used within the installation does not indicate the presence of any other harmful or specific substances within the effluent.

7e If you have answered 'No' to any of questions 7a to 7d provide details on a separate sheet of how you have established that the effluent is not likely to contain specific substances

A review has been undertaken of the relevant MSDS sheets for chemical used routinely within the installation to look for substances identified within the risk assessments listed.

7f What is the maximum temperature of your discharge?

20°C back into the sewage works

7g What is the maximum expected temperature change compared to the incoming water supply?

0°C

8 Environmental risk assessments and modelling

8b Discharges to lakes, estuaries, coastal waters or bathing waters

The installation does not discharge to lakes, estuaries, coastal waters or bathing waters

8d Discharges to groundwater

The installation does not discharge to groundwater

8e Discharges to freshwater (non - tidal) rivers from an installation, including discharges via sewer

No modelling has been undertaken on the output from the installation at present, due to a lack of quality data and confirmation of flows. The final effluent discharge from the wider works, which includes the installation arisings has previously been subjected to modelling as part of the environmental permitting discharge application process.

8f Environmental impact assessment

No environmental impact assessment has been carried out on the installation, as it is an existing facility.

9 Monitoring arrangements

9a What is the national grid reference of the inlet sampling point? (for example, SJ 12345 67890)

Not applicable to this installation

9b What is the national grid reference of the effluent sample point?

Point T1 is at: SO 87299 84048

9d What is the national grid reference of the flow monitoring point?

No flow meter installed

9e Does the flow monitor have an MCERTS certificate?

No. No flow meter installed

9f Do you have a UV disinfection efficacy monitoring point?

No. Not installed as part of this installation.

9h You should clearly mark on the plan the locations of any of the above that apply to this effluent

Please see site emission point plan.

10 Where will the effluent discharge to?

10a Where the effluent discharges to

Non - tidal river, stream or canal

Appendix 5 – Discharges to non-tidal river, stream or canal

A5.1 Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)

Final Effluent Outlet

A5.2 Give the national grid reference of the discharge point

SO 79100 04800

A5.3 Give the name of the watercourse, canal or the main watercourse it is a tributary of if you know it

River Frome

A5.4 Is the discharge into a:

Non-tidal river

A5.5 Does the discharge reach the watercourse or canal by flowing through a surface water sewer?

No

A5.6 Does the watercourse dry up for part of the year?

No

A5.61 If the watercourse does dry up for part of the year can you indicate a typical period when the surface water runs dry each year – start and finish (in months)

N / A

A5.6.2 If the watercourse does dry up for part of the year, how many metres downstream of the discharge is it before the discharged effluent soaks in?

N / A

A5.7 Is the discharge made to a roadside drain or ditch?

No

10b Is this effluent discharged through more than one outlet?

No

10c If you answered yes to question 10b above make sure you show clearly on your discharge point appendix or appendices and site plan that this one effluent can discharge to more than one discharge point

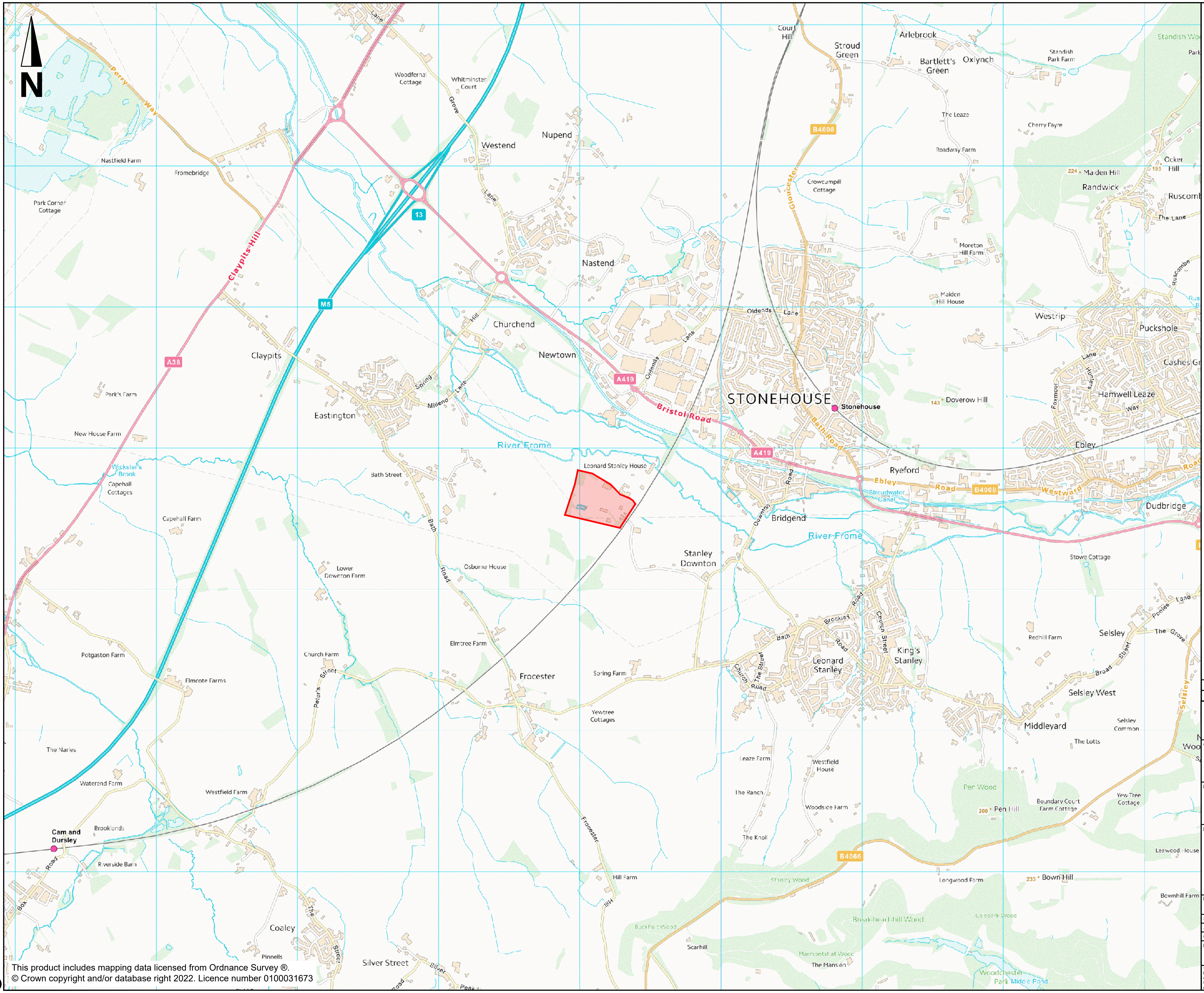
N / A

Appendix A. Figures

A.1 Site Location Plan

A.2 Site Layout Plan

A.3 Site Drainage Plan



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Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Rev'd	Apprv'd
P01	JUN. 2022	FOR INFORMATION	AR	MM	JK	MM

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Client
SEVERN TRENT

Project
STC IED PERMIT
STANLEY DOWNTON STW

Drawing title
FIGURE 1
SITE LOCATION PLAN

Drawing status
PERMITTING

Scale	1:25,000 @ A3	DO NOT SCALE
Jacobs No.	B19589CE	Rev P01
Client no.		

Drawing number
B19589CE-JAC-SDN-DR-0002

N

A4
A5
A1
A2
A3
A6
T1

KEY:

- Installation Boundary
- Air Emission Point
- Transfer Point

0 10 20 30 40 50

METRES

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Rev'd	Apprv'd
P01	JUN. 2022	FOR INFORMATION	AR	MM	JK	MM

Jacobs
2 Colmore Square, 38 Colmore Circus,
Queensway, Birmingham, B4 6BN
Tel:+44(0)121 237 4000

Client: SEVERN TRENT

Project
STC IED PERMIT
STANLEY DOWNTON STW

Drawing title
FIGURE 2
INSTALLATION BOUNDARY
AIR EMISSION POINTS
AND TRANSFER POINT

Drawing status
PERMITTING

Scale	1:1000 @ A3	DO NOT SCALE
Jacobs No.	B19589CE	Rev P01
Client no.		

Drawing number
B19589CE-JAC-SDN-DR-0002

N

KEY:

- Installation Boundary
- Area of Unmade Ground
- Area of Concrete
- Area of Gravel

0 10 20 30 40 50

METRES

Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Rev'd	Apprv'd
P01	JUN. 2022	FOR INFORMATION	AR	MM	JK	MM

Jacobs
2 Colmore Square, 38 Colmore Circus,
Queensway, Birmingham, B4 6BN
Tel:+44(0)121 237 4000

Client: SEVERN TRENT

Project: STC IED PERMIT
STANLEY DOWNTON STW

Drawing title:

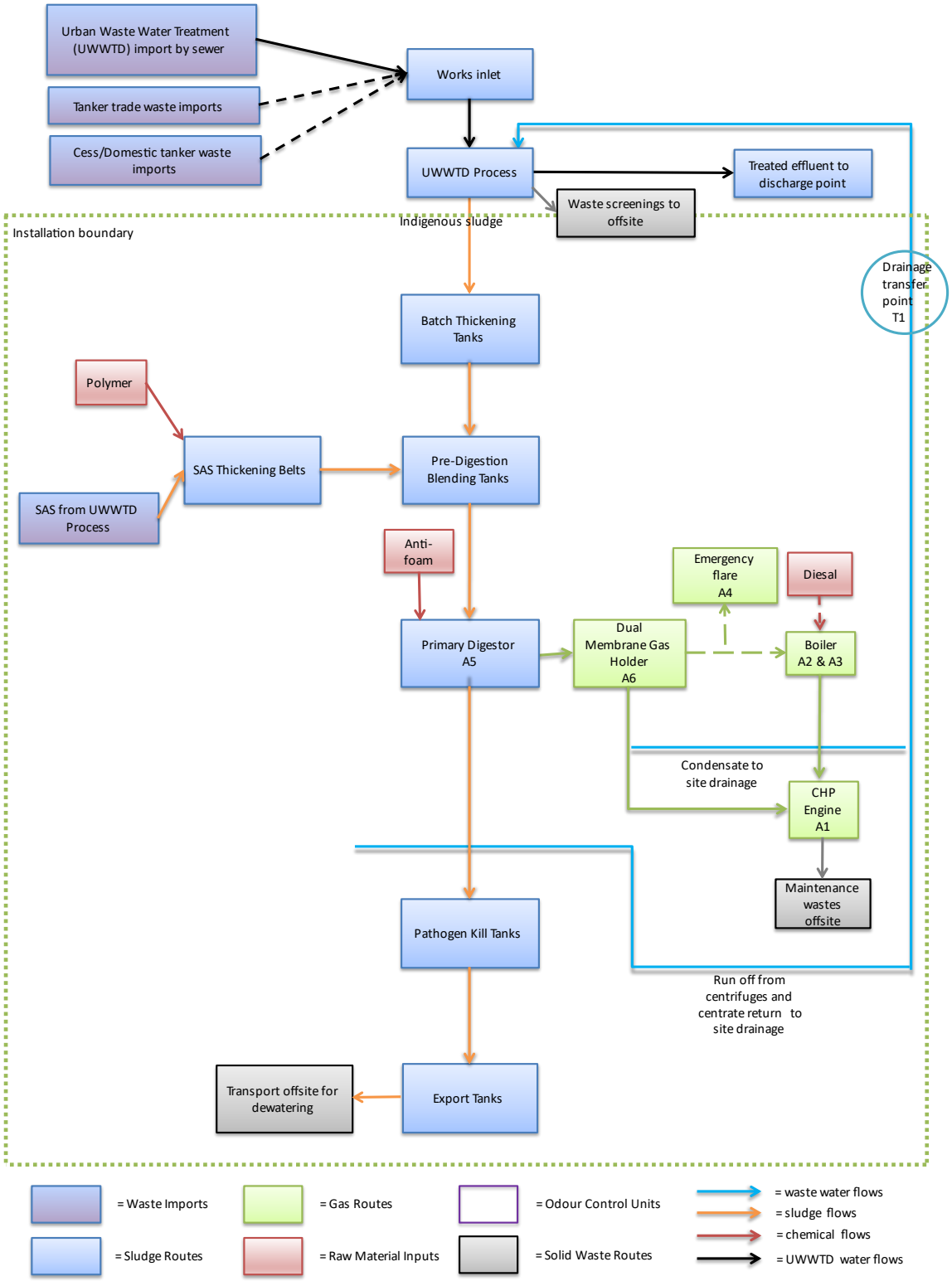
FIGURE 3
SITE AREAS WITHIN THE INSTALLATION BOUNDARY

Drawing status: PERMITTING

Scale	1:1000 @ A3	DO NOT SCALE
Jacobs No.	B19589CE	Rev P01
Client no.		

Drawing number: B19589CE-JAC-SDN-DR-0003

A.4 Process Flow Diagram



Appendix B. Certificates

Certificate of Registration

This is to certify that the Environmental Management System of

Severn Trent Water Limited
Severn Trent Centre, 2 St John's Street, Coventry, CV1 2LZ

applicable to

Management and delivery of wastewater treatment processes. Transfer and storage of highway waste on depots. Tankered waste imports, sludge treatment and associated biogas activities. Mothballed landfill monitoring activities. Head office functions at Severn Trent Centre.

has been assessed and registered by NQA against the provisions of

ISO 14001 : 2015

This registration is subject to the company maintaining an environmental management system to the above standard, which will be monitored by NQA.

Certificate No: 4230
Approval Date: 03/05/2011
Reissued: 28/07/2021
Valid Until: 08/08/2024

Managing Director

UKAS MANAGEMENT SYSTEMS 0015

Certificate of Registration

Annex to Certificate No: 4230

The following sites are included within the certification:

Abberley – The Common (STW)	The Common, Worcestershire, Abberley, WR6 6AY
Abbey Lane - Maltby (STW)	Abbey Lane, Maltby, Rotherham, S66 8NW
Ackleton/. Stableford (STW)	Brook Vale Farm, Stableford, Bridgnorth, WV15 5LS
Acton Burnell (STW)	Acton Burnell, Shrewsbury, SY5 7PB
Adbaston (STW)	Marsh Meadow, Adbaston, Stafford, ST20 0QE
Adlingfleet (STW)	Cow Lane, Adlingfleet, Google, DN14 8HY
Albrighton (STW)	Worhtington Drive/ Off Newport Road, Albrighton, Wolverhampton, WV7 3EJ
Alcester (STW)	Oversley Green or Mill Lane, Alcester, Stratford, B49 6LQ
Alderton (STW)	Stow Road, Alfreton, DE55 7FF
Alfreton (STW)	Off Rodgers Lane, Alfreton, DE55 7FF
Alstonfield (STW)	Alstonfield, Ashbourne, DE6 2FS
Alton (STW)	New Road, Alton, Alton, ST10 4DD
Alvechurch (STW)	Redditch Road, Lye Bridge, Alvechurch, B48 7RT
Alveley (STW)	Cooks Cross, Turley Green, Alveley, WV15 6LP
Ambergate (STW)	Ripley Road, Swamills – Ambergate, Belper, DE56 2EP
Arley (STW)	Station Road, Coventry, CV7 8FG
Armthope (STW)	Holmewood Lane, Armthorpe, DN3 3EH
Arnesby (STW)	Lutterworth Road, Arnesby, LE8 5UP
Ashbourne (STW)	Watery Lane, Off Mayfield Road, Ashbourne, DE6 1AS
Ashby Folville (STW)	Ashby Road, Ashby Folville, Melton Mowbray, LE14 2TG
Ashover (STW)	Butts Road, Ashover, Chesterfield, S45 0AX
Ashton Under Hill (STW)	Back Lane, Ashton Under Hill, Evesham, WR11 7RG

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Certificate of Registration

Ashwell (STW)	Teigh Road, Ashwell, Oakham, LE15 7LR
Aslockton (STW)	Moor Lane Off New Lane, Aslockton, NG13 9AH
Aston Magna (STW)	Aston Magna, Moreton in Marsh, GL56 9QL
Aston on Clun (STW)	Off Craven Arms Road, Aston on Clun, Craven Arms, SY7 8EZ
Aston Somerville (STW)	Church Road, Aston Somerville, Broadway, WR12 7JF
Astwood Bank (STW)	Dark Lane, Astwood Bank, Redditch, B96 6AS
Atherstone (STW)	Carlyon Road, Atherstone, CV9 1JB
Avening (STW)	Avening Road, Avening, GL8 8NH
Bakewell – Pickory Corner (STW)	Picory Corner, Bakewell, DE45 1LB
Balderton (STW)	Lowfield Lane, Balderton, Newark, NG24 3EP
Baldwins Gate (STW)	Baldwins Gate, Chorlton Moss, Newcastle, ST5 5DR
Balsall Common (STW)	Barston Lane, Balsall Common, Coventry, CV7 7BU
Barlestone (STW)	Bosworth Road, Barlestone, Nuneaton, CV13 0JE
Barnhurst (STW)	Oxley Moor Road, Aldersley, Wolverhampton, WV9 5HN
Barnstone – Main Road (STW)	Off Main Road, Barnstone, Nottingham, NG13 9JH
Barston (STW)	Friday Lane, Barston, Solihull, B92 0HY
Barton (STW)	Barton Turn, Barton Under Needwood, Burton on Trent, DE13 8EA
Baschurch (STW)	Boreatton Park, Baschurch, Shrewsbury, SY4 2JZ
Baslow (STW)	Bakewell Road, Baslow, DE45 1RE
Bassetts Pole (STW)	Hill Lane, Canwell, Sutton Coldfield, B75 6LA
Bearley (STW)	Birmingham Road, Bearley, Stratford Upon Avon, CV37 0ET
Beckford (STW)	Back Lane, Beckford, Tewkesbury, GL20 7AF
Beeston Lilac Grove (STW)	Lilac Grove, Beeston, Nottingham, NG9 1PF
Belbroughton Works (STW)	Drayton Road, Belbroughton, Kidderminster, DY9 0DN
Belper (STW)	Goods Road, Belper, DE56 1UU
Berkswell (STW)	Lavender Hall Lane, Berswell, Coventry, CV7 7BN
Biggin (STW)	Off Lifts Lane Biggin, Heathcote, Derby, SK17 0DJ

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Certificate of Registration

Billesdon (STW)	Leicester Road, Billesdon, LE7 9FD
Bilsthorpe (STW)	Eakring Road, Bilsthorpe, NG22 8SU
Bilstone (STW)	Gibbett Lane, Bilstone, CV13 6LU
Birdlip (STW)	Roman Road, Birdlip, Gloucester, GL4 8JL
Bishops Castle (STW)	Brampton Road, Shropshire, Bishops Castle, SY9 5BX
Bishopswood (STW)	Ivetsey Bank Road, Bishopswood, Brewood,- Stafford, ST19 9AE
Blackminster (STW)	Station Road, Blackminster, Evesham, WR11 8JJ
Blakedown (STW)	Churchill Lane, Wannerton – Blakedown, Kidderminster, DY10 3NJ
Blakeney (STW)	Mill End, Off High Street (A48) Blakeney, GL15 4ED
Blockley (STW)	Off Station Road, Draycott, Moreton in the Marsh, GL56 9LQ
Blymhill (STW)	Brineton, Staffordshire, TF11 8NN
Blyton (STW)	Blyton Road, Laughton, DN21 3LQ
Bobbington (STW)	Brantley Crescent, Stourbridge, DY7 5DB
Bomere Heath (STW)	Leaton, Shrewsbury, SY4 3AP
Bosbury RBC (STW)	Bosbury, Hereford, HR8 1PY
Bottlesford (STW)	Normanton Lane, Bottlesford, Notthingham, NG13 0FL
Boughton (STW)	Harrow Lane, Newark, NG22 9LA
Bradwell (STW)	Stretfield Road, Hope Valley, Bradwell, S33 9JT
Brailsford (STW)	Brailsford – Ashbourne, Derby, DE6 3BT
Braithwell (STW)	Austwood Lane, Braithwell, S33 9JT
Bramcote (STW)	Bazzard Lane, Burton Hastons, Bramcote Wolvey, CV11 6QN
Brancote (STW)	Tixall Road, Brancote, Stafford, ST18 0XX
Branton (STW)	Brockholes Lane, Branton, Doncaster, DN3 3QT
Brassington (STW)	West End, Brassington, Matlock, DE4 4HL
Braunston (STW)	London Road, Braunston, Daventry, NN11 7JQ
Breedon (STW)	Doctors Lane, Breedon on the Hill, Leicestershire, DE73 8BB

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Certificate of Registration

Bridgnorth – Slads (STW)	Slads, Eardington, Bridgnorth, WV16 5LF
Brinklow (STW)	Ansty Road, Brinklow, CV23 0NQ
Broadway (STW)	Pry Lane, Broadway, WR12 7LX
Brockhampton (STW)	Brockhampton, Cheltenham, GL51 9RS
Bromsberrow (STW)	Albright Lane, Bromesberrow, Ledbury, HR8 1RU
Bromsgrove (STW)	Aston Road, Worcestershire, Bromsgrove, B60 3EX
Broughton Astley (STW)	Off Leicester Road, Sutton in the Elms, Broughton Astley, LE9 6QF
Bucknell (STW)	off B4367, Bucknell, B4367 Bedstone, SY7 0BJ
Bulkington (STW)	Bedworth Road, Bulkington, Nuneaton, CV12 9LL
Burntwood (STW)	Peters Lane, Burntwood, Walsall, WS7 0JA
Burrough on the Hill (STW)	Newbold Road, Borrough on the Hill, Melton Mowbray, LE14 2JQ
Burton on the Wolds (STW)	Barrow Road, Burton on the Wolds, Loughborough, LE12 5TD
Butlers Marston (STW)	Bank View, Bulters Martson, CV35 0NN
Butterton (STW)	Pothooks Lane, Butterton, ST13 7TB
Buxton (STW)	1 Bakewell Road, Buxton, SK17 9RP
Calverton (STW)	Bonner Lane, Calverton, Nottingham, NG14 6FZ
Cannock (STW)	Longford Road, Cannock, WS11 0LD
Cardington (STW)	Gilberries Lane, Cardington, Shrewsbury, SY6 7HR
Castle Donnington (STW)	Trent Lane, Castle Donnington, DE74 2PY
Castlemorton (STW)	Adj Castlemorton Chruch, Castlemorton, Malvern, WR13 6BG
Chaddesley Corbett (STW)	Fox Lane, Lower Chaddesley Corbet, Kidderminster, DY10 4RD
Checkley (STW)	Deadmans Green, Checkley, ST10 4NQ
Cheddleton (STW)	Cheddleton Flume, Cheddleton, Leek, St13 7EQ
Chelmorton (STW)	Old Coalpit lane, Chelmorton, Derbyshire, SK17 9SG
Cherington (STW)	Cherington, Shipston on Stour, CV36 5HS

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Certificate of Registration

Cheswardine (STW)	Little Soudley, Cheswardine, Market Drayton, TF9 2NB
Chipping Campden (STW)	Paxford Road, Chipping Campden, GL55 6HY
Chorley (STW)	Chorley, Nr Bridgnorth, WV16 6PR
Church Lench (STW)	Nr North Farm off Atch Lench Road, Church Lench, Evesham, WR11 4UG
Church Stretton (STW)	Little Stretton, Church Stretton, Shrewsbury, SY6 6PR
Church Warsop (STW)	Broomhill Lane, Warsop, Nottingham, NG20 0RE
Chrucham (STW)	Bulley Lane, Churcham, GL2 8BG
Churchover (STW)	Church Street, Churchover, Rugby, CV23 0EP
Cinderford – Crumpmeadow (STW)	Valley Road, Cinderford, GL14 2ER
Claverdon (STW)	Saddlesbow Lane, Claverson, Warwick, CV35 8PQ
Clay Cross (STW)	Mill Lane, Clay Cross, DE55 6FD
Claybrooke Magna (STW)	Bell Street, Claybrooke Magna, Lutterworth, LE17 5AL
Claymills (STW)	Meadow Lane, Stretton, Burton on Trent, DE13 0DA
Clifton Campville (STW)	Netherseal Lane, Clifton Campville, Nr Tamworth, B79 0BD
Clifton East Mids (STW)	Church Lane, Clifton, Nottingham, NG23 7AP
Clifton upon Teme (STW)	Hope Lane, Lower Sapey, Clifton, WR6 6LU
Clive (STW)	Station Road, Clive, Shrewsbury, SY4 3ES
Clowne (STW)	Hollin Hill Road, Clowne, Worksop, S43 4AX
Clun (STW)	The Green, Clun, Craven Arms, SY7 8NX
Coaley (STW)	Halmore Green, Coaley, Dursley, GL11 5DW
Coalport (STW)	Coalport Road, Sutton Hill, Telford, TF8 7JE
Codsall (STW)	Joeys Lane, Bilbrook, Wolverhampton, WV8 1JL
Coleshill (STW)	Marconi Way, Coleshill, B46 1DG
Collingham (STW)	Besthorpe Road, Collingham, Newark, NG23 7NP
Colwall (STW)	Mill Lane, Colwall, Malvern, WR13 6HE

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Certificate of Registration

Condover (STW)	Brook Close, Condover, Shresbury, SY5 7BN
Coreley – Clee Hill (STW)	Clee Hill, Ludlow, SY8 3AW
Corley (STW)	Smorrall Lane, Bedworth, Nuneaton, CV7 8AT
Cotgrave (STW)	Woodgate Lane, Cotgrave, Nottingham, NG12 3HX
Countesthorpe (STW)	Leicester Road, Countesthorpe, Leicester, LE8 5QW
Coven Heath (STW)	Ball Lane, Coven Heath, Wolverhampton, WV10 7HD
Coventry- Finham (STW)	St Martins Road, Finham, Coventry, CV3 6PR
Cradley (STW)	Tiffords Bridge, Cradley, Malvern, WR13 5NN
Crankley Point (STW)	Qibbells Lane, Crankley Point, Newark, NG24 2EB
Craven Arms (STW)	Stokesay, Craven Arms, SY7 9AH
Cressbrook (STW)	Bottomhill Road, Litton, SK17 8SX
Creswell (STW)	Frithwood Lane, Creswell, Worksop, S80 4HT
Cropwell Bishop (STW)	Cropwell Bishop Road, Cropwell, Nottingham, NG12 3GW
Crowle Scunthorpe (STW)	Marsh Road, Crowle, Scunthorpe, DN17 4EU
Crowle Worcester (STW)	Off Froxmere Road, Crowle, Worcester, WR7 4AL
Dalbury Lees (STW)	Radbourne Road, Ashbourne, Debry, DE6 5BE
Derby (STW)	Megaloughton Lane, Spondon, Debry, DE21 7BR
Derrington (STW)	Church Lane, Derrington, Stafford, ST18 9LY
Dinnington (STW)	Church Lane, Dinnington, Sheffield, S25 2RJ
Ditton Priors (STW)	Brown Clee Road, Ditton Priors, Bridgnorth, WV16 6ST
Donisthorpe (STW)	Seals Road, Swadlincote, Burton On Trent, DE12 7PJ
Dorrington (STW)	Crossbrook, Dorrington, Shrewsbury, SY5 7JT
Doveholes (STW)	Dale Road, Dove Holes, Buxton, SK17 8BG
Drenewydd- Oswestry (STW)	Drenewydd, Park Hall, Oswestry, SY11 4ND
Droitwich – Ladywood (STW)	Potters Mill Lane, Driotwich, Ladywood, WR9 0AR
Dudleston Heath (STW)	Elson Road, Elson, Ellesmere, SY12 9JW

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Dumbleton (STW)	Dumbleton, Evesham, WR11 6TJ
Dunchurch (STW)	Southam Road, Dunchurch, Rugby, CV22 6NR
Eakring (STW)	Church Lane, Eakring, Newark, NG22 0DB
Earl Shilton (STW)	Mill Lane, Earl Shilton, Leicester, LE9 7AX
Earlswood Springbrook (STW)	Malthouse Lane, Solihull, B94 5DU
East Leake (STW)	West Leake Road, East Leake, Nottinghamshire, LE12 6LJ
East Markham (STW)	Quakerfield lane, East Markham, Norttinghamshire, NG22 0SB
Eccleshall and Sturbridge (STW)	Stone Road, Eccleshall, Stafford, St21 6DL
Edale (STW)	Barber Booth, Edale, S22 7ZP
Edgmond (STW)	Shrewsbury Lane, Edgmond –Newport, Shrewsbury, TF10 8NA
Edingale (STW)	School Lane, Edingale, Nr Tamworth, B79 9JJ
Edwinstowe (STW)	Ollerton Road, Maun Valley- Edwinstowe, Mansfield, NG22 9DX
Elkesley (STW)	Dobdykes Lane, Elkesley- Retford, DN22 8AF
Ellesmere-Wharf Meadow (STW)	Laurels Close, Wharf Meadow, Ellesmere, SY12 0BY
Elston (STW)	Carrgate Lane, Elston, Newark, NG23 5NU
Endon (STW)	A53 Leek Road, Endon, Stoke on Trent, ST9 9AP
Epworth (STW)	West End Road, Epworth, Doncaster, DN9 1LE
Ettington Works (STW)	Hillman Way, Ettinghton, Stratford on Avon, CV37 7SG
Etwall (STW)	Egginton Road, Etwall, Derby, DE65 6NF
Evesham (STW)	Red Lane, Hampton Parks, Evesham, WR11 2RF
Farndon (STW)	Hawton Lane, Newark, NG24 3SD
Farnsfield (STW)	Mansfield Road, Edingly, Newark, NG22 8BG
Fenny Compton (STW)	Station Road, Fenny Compton, Leamington Spa, CV47 2WB
Findern (STW)	Common Piece Lane, Findern, Derby, DE6 6AE
Fleckney (STW)	Wistow Road, Kibworth Beauchamp, Leicester, LE8 0RG
Flintham (STW)	Inholms Road, Flintham, NG23 5LF

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Flyford Flavell (STW)	Glebe Farm A422 Road, Flyford Flavel, Abberton Road, WR7 4BU
Foolow (STW)	Off road from Foolow to Eyam, Foolow, Derby, S32 5QR
Frankton (STW)	Birdingbury Road, Frankton, Rugby, CV23 9QP
Fritchley (STW)	Bowmer Lane, Fritchley, Belper, DE56 2FY
Froghall (STW)	Brookside, Froghall,Stoke on Trent, ST10 2HE
Gainsborough –Lea Road (STW)	Causeway Lane, Gainsborough, DN21 5JW
Gamston (STW)	rectory Lane, Gamston, Retford, DN22 0QE
Gaulby (STW)	Illston Road, Gaulby, Leicestershire, LE7 9BE
Gaydon (STW)	Banbury Road, Gaydon, Warwick, CV35 0HH
Goscote (STW)	Goscote Lodge Crescent, Bloxwich, Walsall, WS3 1SB
Gospel End (STW)	Red Lane, Himley, Sedgley, SY3 4AN
Gotham (STW)	Moor Lane, Gotham, Nottingham, NG11 0LH
Granby Village Drain (STW)	Plungar Road, Granby, NG13 9PX
Great Glen (STW)	Oaks Road, Great Glen, Leicester, LE8 9EG
Great Hucklow (STW)	Great Hucklow, SK17 8RH
Grendon (STW)	Spon Lane, Grendon, Atherston, CV9 2EX
Gringley-on-the-Hill (STW)	Middle Bridge Road, Gringley on the hill, Doncaster, DN10 4SD
Gt Washbourne (STW)	Dumberlton – Great Washbourne, Alderton, GL20 7AR
Guarlford (STW)	Penny Lane, Guarlford, Malvern, WR13 6PF
Hallow (STW)	Off A443, Hallow, Worcester, WR2 6PW
Hanbury (Worcestershire)(STW)	Salt Lane, Hanbury, Droitwich, B60 4DD
Hartlington (STW)	Stonwell Lane, Harlington, Buxton, SK17 0AJ
Harvington (STW)	Anchor Lane, Harvington, Evesham, WR11 8PA
Harworth (STW)	Tickhill Road, Bircotes, Doncaster, DN11 8PD
Hathersage (STW)	Off B6001, Hathersage, Sheffield, S32 1DP
Haxey – Graizelound (STW)	Akeferry Road, Craiselound Haxey, Doncaster, DN9 2NF

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Hayden (STW)	Hayden Green, Boddington, Cheltenham, GL51 0SP
Heage (STW)	Brook Street, Heage, Belper, DE56 2AP
Heanor Milnhay (STW)	Milnhay Road, Milnhay, Langley Mill, NG16 4AY
High Santon (STW)	Dawes Lane, High Santon, Nc Scunthorpe, DN15 0DG
Higher Heath Press (STW)	OffA41, High Heath, Whitchurch, SY13 2HY
Highley (STW)	Netherton Lane, Highley, WV16 6NJ
Himley (STW)	School Road, Himley, Dudley, DY3 4LG
Hinckley (STW)	Brookfield Road, Hinckley, LE10 2LL
Hinstock (STW)	Pixley Lane, Hinstock. Markey Drayton, TF9 2UA
Hixon (STW)	Church Lane, Hixon, Stafford, ST18 0UD
Hodstock (STW)	Off Doncaster Road, Langold, Worksop, S81 0TF
Hodthorpe (STW)	Broad Lane, Hodthorpe, Worksop, S80 4XJ
Hognaston (STW)	Stonepit Lane, Ashbourne, Ashbourne, SE6 1PE
Honeybourne (STW)	Weston Road, Honeybourne, Evesham, WR11 7QE
Hopton Wafers (STW)	Hopton Wafers, Shropshire, DY14 0NB
Hoton (STW)	Wymeswold Road, Hoton, Loughborough, LE12 5SN
Houghton on the Hill (STW)	Uppingham Road, Houghton on the Hill, Leicester, LE7 9HG
Hulland Ward (STW)	Moss Lane, Hulland Ward, Derby, DE6 3FH
Hungarton (STW)	Barley Leas, Hungarton, Leicester, LE7 9JH
Huntley (STW)	Bulley Road, Huntley, GL2 8AS
Hurley (STW)	Hurley Common, Hurley, Atherstone, CV9 2LS
Huthwaite (STW)	Common Road, Huthwaite, Sutton in Ashfield, NG17 2NL
Ibstock (STW)	Hinckley Road, Ibstock, Leicester, LE67 6PA
Ightfield (STW)	Burleydam Road, Ightfield, Shropshire, SY13 4NU

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Certificate of Registration

Ilkeston- Hallam Fields (STW)	Stapleford Road, Ilkeston, NG9 3QB
Ilmington (STW)	Armscote Road, Ilmington, Shipton on Stour, CV36 4RT
Inkberrow (STW)	Appletree Lane, Inkberrow, Worcester, WR7 4HZ
Itchen Bank (STW)	Welsh Road, Southam, Leamington Spa, CV47 2BH
Kegworth (STW)	Long Lane, Kegworth, DE74 2FL
Kelstedge (STW)	Amber Lane, Kelstedge, Ashover, S45 0DS
Keyham (STW)	Snows Lane, Keyham, Main Street, LE7 9JQ
Keyworth (STW)	Bunney Lane, Key worth, Nottingham, NG12 5LP
Kidderminster Oldington (STW)	Stourport Road, Worcestershire, Kidderminster, DY11 7QL
Kilburn (STW)	Tants Meadow – Derby Road, Lower Kilburn, DE56 0NH
Kilsby (STW)	Rugby Road, Kilsby, Rugby, CV23 8XR
Kimcote (STW)	Poultney Lane, Kimcote, Lutterworth, LE17 5RX
Kineton (STW)	Brookhampton Lane, Kineton, Warwick, CV35 0DP
Kington (STW)	Kington, Flyford Flavel, QR7 4DD

Kinnerley (STW)	Mayfields, Kinnerley, Oswestry, SY19 8DQ
Kinoulton (STW)	Off hickling Road, Nottingham, NG12 3ED
Kirk Ireton (STW)	Well bank, Kirk Ireton, Ashbourne, DE6 3JW
Kirk Langley (STW)	Flagshaw Lane – Kirk Langley, Kirk Langley, Ashbourne, DE6 4NW
Kirkby in Ashfield (STW)	Park Lane, Kirkby in Ashfield, Mansfield, NG17 7QH
Kirkby Mallory (STW)	Peckleton Lane, Kirkby Mallory, LE9 7QH
Kirton in Lindsey (STW)	Moat House Road, Gainsborough, DN21 4DD
Knighton (STW)	Ludlow Road, Knighton, LD7 1JP
Knowbury (STW)	Snitton Lane, Knowbury, Ludlow, SY8 3 JL

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Langar Limes Farm (STW)	Langar Limes Farm, Langar, Nottingham, NG13 9HL
Langham (STW)	Ashwell Lane, Langham, Oakham, LE14 7HT
Laughterton (STW)	Kettle Thorpe Road, Laughterton, Lincolnshire, LN1 2BD
Laverton (STW)	Laverton Village, Broadway, WR12 7NA
Ledbury (STW)	Little Marcle Lane, Ledbury, H28 2DP
Leek (STW)	Cheadle Road, Leek, ST13 7DR
Leek Wootton (STW)	Hill Wootton Road, Leek Wootton, Warwick, CV35 7PN
Lichfield (STW)	Watery Lane, Curborough, Litchfield, WS13 8ER
Lighthorne (STW)	Moreton Morrell Road, Lighthorne Heath, Warwick, CV35 9DQ
Lightorne Heath (STW)	Lighthorne Heath, Warwickshire, CV33 9TT
Lilbourne (STW)	Station Road, Lilbourne, Rugby, CV23 0SX
Little Aston (STW)	Forge Lane, Footherley, Lichfield, WS14 0HU
Little Hucklow (STW)	Forest Lane, Derby, SK17 8RT
Little Witley (STW)	Well Lane, Worcestershire, Little Witley, WR6 6LW
Loggerheads Sanatorium (STW)	Sanatorium, Loggerheads, Market Drayton, TR9 2QY
Loggerheads Village (STW)	Market Drayton Road, Loggerheads Village, Market Drayton, TR9 4DG
Long Marston (STW)	Wyre Lane, Long Marston, Stratford on Avon, CV37 8RQ
Longhope (STW)	Velthouse Lane, Longhope, GL17 0AD
Longnor (STW)	Longnor Top O Edge, Longnor, Buxton, SK17 0PN
Longville (STW)	Longville in the Dale, Shropshire, TF13 6DT
Loughborough (STW)	Festival Drive – Swingbridge Road, Loughborough, LE11 5TP
Lower Gornal (STW)	Himley Roda, Lower Gornal, Dudley, DY3 2SN
Lower Penn (STW)	Market Lane, Lower Penn, Wolverhampton, WV4 4XS
Ludlow (STW)	Overton Road, Ludford, Ludlow, SY8 4BH
Lutterworth (STW)	Moors Barns, Coresbach, Lutterworth, LE17 4HU

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Lydbury North (STW)	Lower Down, Lydbury North, SY7 8AX
Madresfield Waterloo Clos (STW)	Waterloo Close, Madresfield, WR13 5AG
Malvern (STW)	Mill Lane, Baranrds Green, Malvern, WR14 3QS
Mansfield – Bath Lane (STW)	Old Mill Lane, Forest Town, Mansfield, NG18 2DA
Marchington (STW)	Litchfield Road off A515, Draycot in the Clay, Nr Ashborne, DE6 5GX
Marehay (STW)	Derby Road, Ripley, DE5 8JX
Market Bosworth (STW)	Congerstone Lane, Market Bosworth, Carlton, CV13 0BU
Market Drayton (STW)	Salisbury Hill View, Stoke on Tern, Market Drayton, TF9 1DW
Market Overton	Main Street, Market Overton, Oakham, LE15 7PD
Martson Lane Bedworth (STW)	Marston Lane, Bedworth, Nuneaton, CV12 9AD
Martley- Ductons Copp (STW)	Hopehouse Lane, Martley, WR6 6QE
Marton (STW)	High Street, Kettlesthorpe, DN21 5AL
Matlock Lea (STW)	Lea Bridge, Lea, DE4 5AA
Mattersey Thorpe (STW)	Broomfield Lane, Mattersey Thorpe, Doncaster, DN10 5EX
Measham (STW)	Measham Road, Oakthorpe, Measham, DE12 7QX
Melbourne (STW)	Blackwell Lane, Melbourne, Derby, DE73 8EL
Melton (STW)	Grange Lane, Sysonby, Melton Mowbray, LE13 0JG
Meriden (STW)	Hampton Lane, Meriden, Coventry, CV7 7JR
Middleton Village (STW)	Church Lane, Middleton, Tamworth, B78 2AJ
Mile Oak (STW)	Mile Oak Industrial Estate –Maesbury Road, Oswestry, SY10 8NR
Milton (STW)	Meadow Lane, Milton, Derby, DE65 6EH
Milwich (STW)	Mill Lane, Coton- Milwich, Stafford, ST18 0EU
Minsterley (STW)	Minsterley, Minsterley, Shrewsbury, SY5 0AQ
Minworth (STW)	Kingsbury Road, Mindworth, B76 9DP
Monkmoor (STW)	Monkmoor Road, Shrewsbury, SY2 5TL

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Monks Kriby (STW)	Bell Lane, Pailton, Rugby, CV47 8NZ
Moreton Morrell (STW)	Morton Morrel Lane. Morton Morrel, Warwick, CV35 9DG
Much Wenlock (STW)	Quarry Bank Road, Much Wenlcock, TF13 6HS
Napton (STW)	Folly Lane, Napton, Rugby, CV47 8NZ
Naseby Wrw (STW)	Carvells Lane, Naseby, Northampton, NN6 6DW
Nether Broughton (STW)	Queensway, Nether Broughton, Melton Mowbury, LE14 3QH
Neher Langwith (STW)	Cuckney Road, Mansfield, NG20 9JG
Netheridge (STW)	Netheridge Farm – Netheridge Close, Netheridge, Gloucester, GL2 5LF
Netherseal (STW)	Hall Farm Lane, Netherseal, Swadlincote, SE12 8DW
Newbold Verdon (STW)	Brascote, Newbold Verdon, Leicester, LE9 9LF
Newborough (STW)	Dolesfoot Lane off A515, Newborough, Burton on Trent, DE13 8RD
Newcastle on Clun (STW)	Mill Road, Newcastle, SY7 8QN
Newent (STW)	Cleeve Mill Lane, Newent, GL18 1ES
Newport (STW)	Broomfield Road, Newport, TF10 7TS
Newthorpe (STW)	Halls Lane, Newthorpe, NG16 2DE
North Wheatley (STW)	Church Street, North Wheatley, Retford, DN22 9BY
Northend (STW)	Northend, Burton Dassett, Leamington Spa, CV47 2WG
Northorpe (STW)	Monsoon Road, Northorpe, Gainsborough, DN21 4AE
Norton (STW)	Grange Lane, Norton Village, Mansfield, NG20 9JY
Norton Green (STW)	Norton Green Lane, Knowle, Solihull, B93 8PH
Norton Juxta (STW)	Cottage Lane, Norton Juxta Twycross, Atherstone, CV9 3QH
Norton Lindsay (STW)	Canada Lane, Norton Lindsay, Warwick, CV35 8JH
Nuneaton Hartshill (STW)	Woodford Lane, Nuneaton, CV10 0SA
Oadby (STW)	Wigston Road, Oadby, LE2 5JE
Ombersley (STW)	Off Hays Lane, Ombersley, Droitwich, WR9 0EJ

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Osbaston (STW)	High Ercall Airfield, Osbaston, High Ercall, TF6 6RD
Overseal (STW)	Lullington Road, Overseal, Swadlincote.DE12 6NG
Owston (STW)	Washdyke Road, Owston, LE15 8DX
Packington (STW)	Measham Road, Packington, Ashby De La Zouch, LE65 1WQ
Parwich (STW)	Pitts Lane, Parwich, Derby, DE6 1QL
Pattingham (STW)	Chesterton Road, Pattingham, Wolverhampton, WV6 7BJ
Peakdale (STW)	Upper End Road, Peak Dale, Buxton, SK17 8AU
Penkridge (STW)	Drayton Lane, Lower Drayton, Penkridge, ST19 5RE
Peopleton (STW)	Peopleton, Pershore, WR10 2EG
Perlethorpe (STW)	Radleys Lane, Perlethorpe, Newark, NG22 9EH
Pershore (STW)	Salters Lane, Tyddesley Wood, Besford, WR8 9AX
Pickwell (STW)	Off Main Street, Pickwell, Melton Mowbury, LE14 2QT
Pinxton (STW)	Pinxton Wharf, Pinxton, NG16 6PN
Pirehill (STW)	Brooms Road, Prehill-Walkton, Stone, ST15 0SH
Pitts Mill (STW)	Oridge Lane, Pitts Mill, Staunton, GL19 3DA
Polesworth (STW)	Grendon Road, Polesworth, Tamworth, B78 1NS
Pontesbury (STW)	Station Road, Pontesbury, SY5 0QY
Powick (STW)	Upton Road, Powick, WR2 4QZ
Prees – Golfhouse Lane (STW)	Off A49, Prees Heath, Whitchurch, SY13 3JX
Priest Bridge (STW)	Bradley Green, Feckenham, Redditch, B96 6SN
Putley Green (STW)	Near Green Close, Putley Green, Ledbury, HR8 2QU
Pye Bridge (STW)	Off Main Road, Pye Bridge, Alfreton, DE55 4NZ
Ragdale (STW)	Off Main Street, Ragdale, Melton Mowbury, LE14 3PE
Rainworth (STW)	Rufford Colliery Lane, Rufford, Newark, NG21 0HR

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Rampton (STW)	Golden Holme Lane, Rampton, Retford, DN22 0LT
Ranskill (STW)	Common Lane, Ranskill, Nottinghamshire, DN22 8LW
Ravenstone (STW)	Heather Lane, Ravenstone, Leicester, LE67 2AG
Ray Hall (STW)	Ray Hall Lane, West Bromwich, B43 6JE
Redditch – Spernal (STW)	Spernal Lane, Studley, B80 7EU
Redmile (STW)	Church Lane, Redmile – Bottesford, Nottingham, NG13 0GE
Retford (STW)	Hallcroft Road, Retford, DN22 7HJ
Ridge Lane – Mancetter (STW)	Ridge Lane, Nuneaton, CV10 0RD
Ridgeway (STW)	Mearse Farm Lane, Ridgeway, Inkerrow – Worcester, WR7 4HS
Ripley (STW)	Hartsay Hill, Ripley, DE5 3RN
Rock – Rectory Lane (STW)	Rectory Lane, Worcestershire, Rock, DY14 9RR
Roden (STW)	Marlebrook Way, Roden – Telford, Salop, TF6 6BN
Roundhill (STW)	Lloyd Way, Kinver, Kinver, DY7 6PX
Rous Lench (STW)	Radford Road, Rous Lench, Evesham, WR11 4UL
Rowington (STW)	Dicks Lane, Rowington, Warwick, CV35 7DN
Rowthorne (STW)	Rowthorne Lane, Rowthorne Village, S44 5QQ
Rugby Newbold (STW)	Off Newbold Road, Rugby, CV21 1HF
Rugeley (STW)	Wolseley Road, Rugeley, Staffordshire, WS15 2QX
Rushbury (STW)	Rushbury, Shropshire, SY6 7EB
Rushmoor (STW)	Rushmoor Lane, Allscott, Telford, TF6 5EX
Ruyton XI Towns (STW)	Off B4397, Ruyton XI Towns – Ruyton Baschurch, Shrewsbury, SY4 1JW
Scarcliffe (STW)	Station Road, Scarcliffe, Chesterfield, S44 6TG
Scotter (STW)	Scotton Road, Gainsborough, DN21 3SB
Scunthorpe –Yaddlethorpe (STW)	North Moor Lane, Yaddlesthorpe, Scunthorpe, DN17 2BU
Shardlow (STW)	Wilne Lane, Great Wilne, Shardlow, DE72 2HA
Shawbury (STW)	Dawsons Rough, Shawbury, Shrewsbury, SY4 4PF

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Sheldon (STW)	Johnson Lane, Sheldon, DE45 1QS
Shenstone (STW)	Park Lane, Shenstone, WS14 0JT
Shepshed (STW)	Hathern Road, Shepshed, Loughborough, LE12 9GX
Shifnal (STW)	Near the Hem, Shifnal, TF11 9LA
Shipston Fell Mill (STW)	Fell Mill, Honington, Shipston on Stour, CV36 5AD
Shirebrook (STW)	Off Carter Lane, Shirebrook, Mansfield, NG20 8SX
Shustoke (STW)	Coleshill Road, Shustoke – Coleshill, Birmingham, B46 2AQ
Sibson (STW)	Shenton lane, Sibson, Nuneaton, CV13 6DD
Skegby (STW)	Dawgates Lane, Skegby, Sutton in Ashfield, NG17 3DA
Slade Hooton (STW)	Hooton Lane, Laughton, S25 1YR
Smisby (STW)	Derby Road, Smisby, Ashby De La Zouch, LE65 2UH
Snarestone (STW)	Appleby Lane, Snarestone, Burton On Trent, DE12 7BZ
Snarrows (STW)	Snarrows Road, Coalville, Loughborough, LE67 8UR
Snitterfield (STW)	Pidgeon Green, Snitterfield, Stratford Upon Avon, CV37 0LP
Somerby (STW)	Burrough Road, Burrough on the Hill, Melton Mowbray, LE14 2PP
South Kilworth (STW)	Welford Road, South Kilworth, Lutterworth, LE17 6EA
South Normanton (STW)	Sporton Lane, South Normanton, Alfreton, DE55 5HP
Southwell (STW)	Fiskerton Road, Southwell, NG25 0TU
Stanley Downton (STW)	Stanley Downton, Stroud, GL10 3QX
Stanton Derbyshire (STW)	Off Woodland Road, Stanton, Burton on Trent, DE15 9TN
Stanton Gloucestershire (STW)	Stanway Road, Stanton, Broadway, WR12 7NQ
Stapleford – Bessel Lane (STW)	Bessell Lane, Stapleford, Nottingham, NG9 7BW
Staverton (STW)	Daventry Road, Staverton, Daventry, NN11 6JY
Stoke Bardolph (STW)	Stoke Lane, Stoke Bardolph, Burton Joyce, NG14 5HL
Stoke Heath (STW)	Off Rosehill Road, Stoke Heath – Stoke on Tern, Market Drayton, TF9 2JX

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Stoke Oxford (STW)	Mill Lane, Stoke Orchard, GL52 4SG
Stoke Prior (STW)	Dodderhill, Stoke Prior, Driotwich, B60 4EF
Stoney Stanton (STW)	Broughton Lane, Leicester, LE9 6JA
Stoulton – Hawbridge (STW)	East of Hawbridge Village, Stoulton, Worcester, WR7 4RJ
Stratford – Milcote (STW)	Milcote, Clifford Chambers, Stratford on Avon, CV37 8JN
Strongford (STW)	Barlaston Old Road, Strongford, Barlaston, ST12 9EX
Sutton Bonnington (STW)	Station Road, Sutton Bonnington, Loughborough, LE12 5NU
Sutton in Ashfield (STW)	Unwin Road, Sutton in Ashfield, NG17 4JP
Sutton on Trent – Cromwell (STW)	Great North Road, Cromwell, NG23 6JE
Swanwick (STW)	Off Derby Road, Swanwick, Alfreton, DE55 1AD
Swinford (STW)	Stanford Road, Lutterworth, LE17 6BJ
Taddington (STW)	Priestcliffe Road, Taddington, Buxton, SK17 9UG
Tamworth (STW)	Coton Lane, Tamworth. B79 8NN
Tanworth In Arden (STW)	Off Well Lane, Tanworth in Arden, Solihull, B94 5AH
Tenbury (STW)	Rhyse Lane, Tenbury Wells, WR15 8NH
Tewkesbury (STW)	Lower Lode Lane, Lower Lode, Tewkesbury, GL20 7DP
Thorpe Salvin (STW)	Back Lane, Thorpe Salvin, Worksop, S80 3JX
Tickhill (STW)	Off Bawtry Lane, Tickhill, Doncaster, DN11 9XB
Ticknall (STW)	Off Main Street, Ticknall, Derby, DE73 7LA
Tideswell (STW)	Buxton Road, Tideswell, Tideswell- Buxton, SK17 8PG
Torksey (STW)	Sand Lane, Torksey, Lincolnshire, LN1 2ED
Toton (STW)	Off Barton Lane, Toton, Beeston – Nottes, NG9 6DY
Trescott (STW)	Bridgnorth Road, Perton, Wolverhampton, WV6 7EU
Turnditch (STW)	Ashbourne Road, Turnditch – Belper, Derby, DE56 2LX
Twycross (STW)	Bilstone Road, Twycross, Atherstone, CV9 3PP

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Twyning (STW)	Downfield Lane, Twyning Green, Tewkesbury, GL20 6LD
Ullenhall (STW)	Ullenhall Road, Ullenhall, Solihull, B95 5NN
Upton Snodsbury (STW)	Pershore Road, Upton Snodsbury, WR7 4NR
Upton on Severn Wks (STW)	Cut Throat Lane, Upton on Severn, WR8 0JJ
Uttoxeter (STW)	Derby Road, Off A50, Uttoxeter, ST14 8EL
Walkeringham (STW)	Stockwith Road, Walkeringham, DN10 4JG
Walsall Wood (STW)	Green Lane, Walsall Wood, Walsall, WS9 9BE
Waltham (STW)	Off Goadby Road, Waltham on the Wolds, Melton Mowbury, LE14 4AG
Wanlip (STW)	Fillingate Lane, Wanlip, LE7 4PF
Warmsworth (STW)	Common Lane, Warmsworth, Doncaster, DN4 9JY
Warslow (STW)	School Lane, Buxton, SK17 0JJ
Warwick Longbridge (STW)	Stratford Road, Warwick, CV34 6RA
Waterhouses (STW)	Waterhouses, Stoke on Trent, ST10 3JR
Welland (STW)	Near Malt House Farm, Welland, Malvern, WR8 0ST
Wellesbourne (STW)	Off Stratford Road, Wellesbourne, Warwick, CV35 9RY
Wem – Aston Road (STW)	Orchard Way off Aston Road, Wem, SY4 5DY
West Burton (STW)	River Road behind power station, West Burton, Nottinghamshire, DN22 9HT
West Felton (STW)	Off Fox Lane, West Felton, Oswestry, SY11 4JU
West Malvern (STW)	Adj Croft Farm, West Malvern, WR14 4DX
Weston Underwood (STW)	Green Lane, Weston Underwood, Ashbourne, DE6 4PB
Westwood Brook (STW)	Off High Street, Stonebroom, Alfreton, DE55 6LL
Wetton (STW)	Ashbourne Road, Wetton, DE6 2AF
Wheaton Aston (STW)	Meadowcroft Gardens, Wheaton Aston, Stafford, ST19 9NA

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Whetstone (STW)	Enderby Road, Leicester, LE8 3JL
Whichford (STW)	Barratts Hill, Whichford, Shipston on Stour, CV36 5PQ
Whissendale (STW)	Off Stapleford Road, Whissendine, Oaskham, LE15 7HF
Whittington near Motorway (STW)	Church Lane, Whittington, Worcester, WR5 2RF
Whitwell (STW)	Millash Lane, Whitwell, Derbyshire, S80 4XL
Wigmore (STW)	Bury Farm, Wigmore, Leominster, HR6 9US
Wigston (STW)	Countesthorpe Road, South Wigston, Blaby, LE8 5QW
Wilson (STW)	Forty Foot Lane, Breedon on the Hill, Derby, DE73 8BL
Winchcombe (STW)	Broadway Road, Winchcombe, Cheltenham, GL54 5NS
Wirksworth (STW)	Derby Road, Wirksworth, Matlock, DE4 4AR
Wolston (STW)	WOlston Lane, Wolston, Coventry, CV8 3LG
Wood Eaton (STW)	Gnosall Road, Gnosall, Stafford, ST20 0BB
Woodsetts (STW)	Worksop Road, Woodsetts, Rotherham, S81 8AW
Woolstone (STW)	Evesham Road, Oxenton, Cheltenham, GL52 8SD
Woore (STW)	Bearstone Road, Pipe Grate, Market Drayton, CW3 9SF
Wooton Wawen (STW)	Pennyford Lane, Wootton Wawen, Solihull, S95 6HE
Worcester – Bromwich Road (STW)	Bromwich Road, Worcester, WR2 4BN
Worfield (STW)	Main Street, Worfield, Bridgnorth, WV15 5LG
Worksop Manton (STW)	Rayton Lane, Manton, Worksop, S81 0UB
Worthen (STW)	Rectory Gardens, Worthen, Shrewsbury, SY5 9HW
Worthington (STW)	Breedon Lane, Ashby De La Zouch, Worthington, LE65 1RA
Wroot (STW)	Sand Lane, Wroot, DN9 2DA
Wychbold (STW)	Walk Mill Drive, Wychbold, Drotwich, WR9 0DH
Wymondham (STW)	Nurses Lane, Wymonham, Nurses Lane, LE14 2AS
Yeaveley (STW)	Rosdley Lane, Yeaveley, Ashbourne, DE6 2DT

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Yelvertoft (STW)	School Lane, Yelvertoft, Northampton, NN6 6LG
Yoxall (STW)	Bond End off A515 Lichfield Road, Yoxall, Burton on Trent, DE13 8NL
Shelton Water Supply Depot	Welshpool Road, Shelton, Shrewsbury, SY3 8BJ
Leicester Water Centre	Gorse Hill, Anstey Lane, Leicester, LE7 7GU
Finham Depot	Finham, St Martins Road, Coventry, CV3 6SD
Raynesway Depot	Derby, Derbyshire, DE21 7BE
Tettenhall Depot	Regis Road, Tettenhall, Wolverhampton, WV6 8RU
Burslem Depot	Federation Road, Burslem, Stoke on Trent, ST6 4HU
Edgbaston Depot	Waterworks Road, Edgbaston, Birmingham, B16 9DD
Minworth Landfill	Kingsbury Rd, Minworth, Sutton Coldfield, West Midlands, B76 9DP

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Lloyd's Register

Current issue date:	15 March 2021	Original approval(s):
Expiry date:	14 March 2024	CMS - 15 March 2021
Certificate identity number:	10344063	

Certificate of Approval

This is to certify that the Management System of:

Severn Trent Water Limited

2 St John's Street, Coventry, CV1 2LZ, United Kingdom

has been approved by Lloyd's Register to the following standards:

Competence Management System - Energy & Utility Skills (Private Standard) Version 4

Approval number(s): CMS – 00029800

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.

David Derrick

Area Operations Manager UK & Ireland

Issued by: Lloyd's Register Quality Assurance Limited

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Certificate identity number: 10344063

Certificate Schedule

Location	Activities
2 St John's Street, Coventry, CV1 2LZ, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Claymills STW Meadow Lane, Burton-on-Trent, DE13 0DB, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Finham STW St Martins Road, Coventry, CV3 6SD, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Alfreton STW Alfreton Road, Derby, DE55 7RQ, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Derby STW Megaloughton Lane, Spondon, Derby, DE21 7BR, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Netheridge STW Hempsted Lane, Gloucester, GL2 6LE, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.

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Certificate Schedule

Location	Activities
Stoke Bardolph STW Stoke Lane, Nottingham, NG14 5HL, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Scunthorpe STW Scotter Road, Scunthorpe, DN17 2BU, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Monkmoor STW Monkmoor Road, Monkmoor, Shrewsbury, SY2 5TL, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Strongford STW Barlaston Old Road, Stoke-on-Trent, ST12 9EX, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Minworth STW Kingsbury Road, Sutton Coldfield, B76 9DP, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Rushmoor STW Ruhmoor Lane, Telford, TF6 5EX, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.

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Certificate Schedule

Location	Activities
Wanlip STW Fillingate, Wanlip, LE7 8PF, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Old Hattons Farm Pendeford Hall Lane, Coven, Wolverhampton, WV9 5BD, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
c/o Old Hattons Farm, Pendeford Hall Lane, Coven, Wolverhampton, WV9 5BD, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.
Worcester STW Bromwich Road, Lower Wick, Worcester, WR2 4BN, United Kingdom	**Competence Management Scheme** The receipt, storage and/or treatment of waste at sludge treatment centres regulated under a waste or installation Environmental Permit, plus the Landspreading of Biosolids under a mobile plant permit.

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Appendix C. Air Dispersion Modelling Report

Appendix D. BAT Assessment

Appendix E. H5 Site Condition Report

Appendix F. Odour Management Plan