



# Old Whittington Waste water Treatment Works

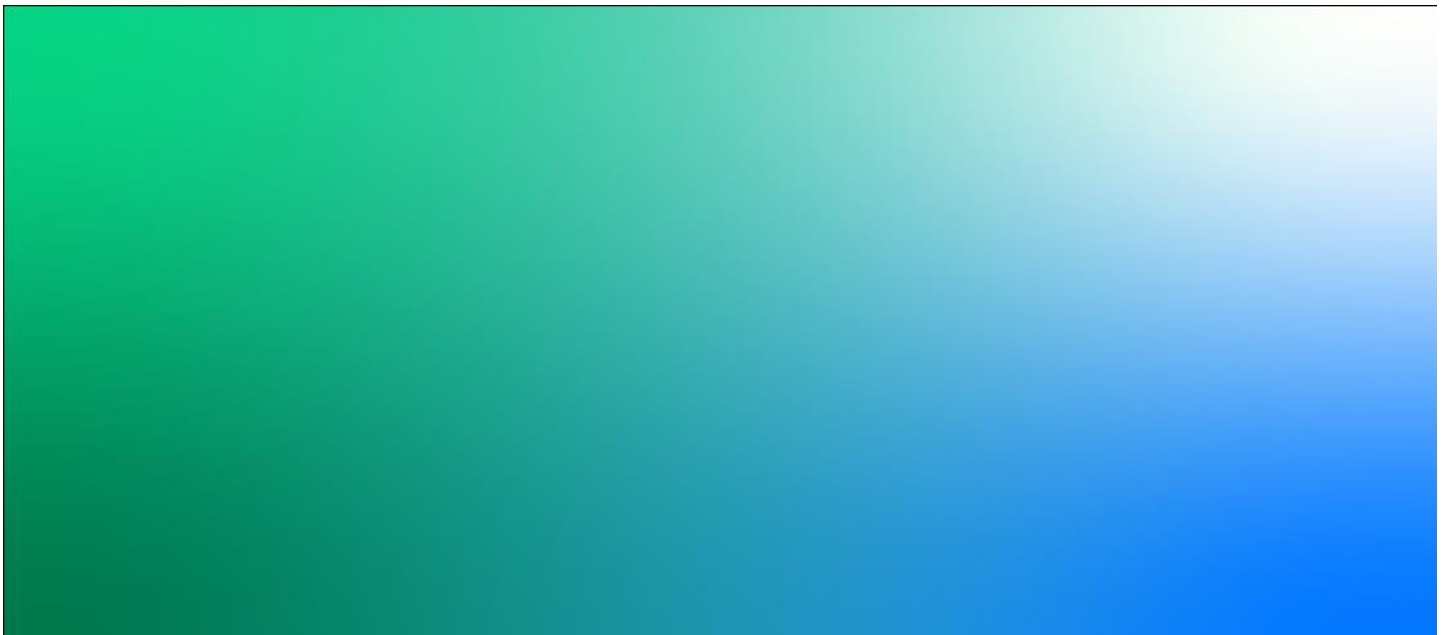
Environmental Permit Application

Supporting Document No. | 2

October 2023

Yorkshire Water

WwTW Permitting



## Old Whittington Waste water Treatment Works

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### Document history and status

Revision	Date	Description	Author	Checked	Reviewed	Approved
0	June 2021	Draft	KA/RS	MKM	DF	MKM
1	May 2022	Update	MKM	KJ	MKM	MKM
2	October 2023	Yorkshire Water updates in response to Request for Further Information	AB / TK	AB	AB	AB

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**Appendix A. Current Waste Pre-acceptance and Acceptance Procedures**

**Appendix B. Site Condition Report**

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**Appendix E. Site Plan with Permit Boundary**

**Appendix F. Site Plan with Discharge and Monitoring Points**

**Appendix G. Site Drainage Plans**

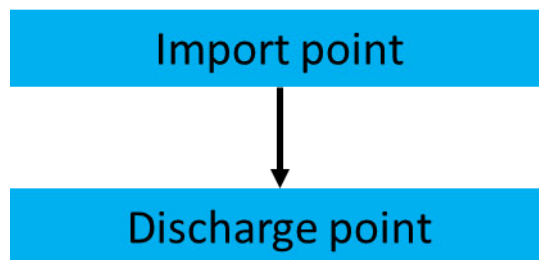
## 1. Non-Technical Summary

Yorkshire Water (YW) are applying for a bespoke waste Environmental Permit at Old Whittington Wastewater Treatment Works (WwTW) which relates to the acceptance of liquid waste and discharge of effluent into the main works.

Liquid wastes are delivered to the site by road tanker from a number of sources for treatment within the WwTW. These effluents are discharged directly into the WwTW inlet, they are mixed with the incoming sewer delivered urban wastewater directive (UWWTD) main flow. Once the effluent enters the main works system it is classified as urban wastewater and is therefore, no longer considered waste under the Waste Framework Directive 2008/98/EC. This permit is limited to the acceptance of waste.

It is proposed that the maximum quantity of the above mentioned tankered waste accepted at Old Whittington WwTW is an annual allowance of 500,000 tonnes. Due to the nature of the site, the works is operational 24-7. However, the majority of imports will be received between 0700-1900.

Figure 1 – Old Whittington WwTW Tankered Imports Process Flow Diagram



## 2. Process Description

YW are applying for a waste Environmental Permit for Old Whittington WwTW which relates to the acceptance of tankered waste prior to discharge into the main works.

The scope of this bespoke permit application covers the delivery to site and offloading of effluents by road tanker for treatment at the WwTW in a mixture with UWWTD materials.

On delivery, effluents are discharged from the tanker, via dedicated tanker offloading points, directly into the WwTW inlet for full treatment.

The tanker offloading points are equipped with key fob-controlled data loggers, which measure the volume discharged, as well as the origin of the waste. Offloading is only possible once the data logger has been activated.

Tanker offloading areas are located on impermeable surfaces, and kerbing to minimise the impact of any spillages on the wider environment. Where any spillages do occur, the drainage system in the offloading area is connected to the WwTW inlet. All offloading points are fixed and equipped with appropriate tanker coupling hoses to reduce the risk of poor tanker connection.

All loads are subject to robust pre-acceptance checks to determine their suitability for the processes on site, including an assessment of their variability over time. All loads are pre-booked into the works, to ensure that there is sufficient capacity within the works, and if necessary, loads are diverted to other appropriately permitted facilities. Once a load has been assessed and determined to be acceptable for treatment at the site, the producer is issued an appropriate key fob to access the data logger and offloading point at the works. The data logger is interlocked with the offloading point to ensure that only authorised loads are accepted. The offloading point is covered by CCTV camera and prior to offloading, the control centre for the works must approve the offloading. Loads are subject to random sampling and inspection prior to offloading. Copies of the current versions of these documents are appended as Appendix A.

Pre-acceptance and acceptance method statements for the works have been prepared and approved as part of the YW management system. These are corporate level documents applicable across all potential imports to any of YW's wastewater treatment works, however, individual works may have specific restrictions or limitations on chemical and biological components within potential imports, based on site specific factors.

Due to the nature of the site, the works is operational 24-7, however, it may not be fully staffed during all operational hours. However, the majority of imports will be received between 0700-1900. There is continuous monitoring of the site from the regional YW control centre.

This activity is currently operational under a trade effluent agreement, on advice from the Environment Agency, YW wish to continue this activity under a bespoke waste permit.

There are no channelled emissions to air from the permitted operations.

There are no generators or similar plant used within the permitted area at the site, which means it falls outside of the scope of the Medium Combustion Plant Directive.

An odour management plan (OMP) has been produced for this activity.

### **3. Supporting Information**

#### **3.1 Form B2**

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



You will need to use an Adobe Acrobat product to complete this form. The form may not work properly if you use a different pdf reader, such as the one built-in to your internet browser.

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 B2.5, 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.

Please read through this form and the accompanying Part B2 guidance notes (see [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/1102174/Guidance-app-for-an-environmental-permit-part-b2-general-new-bespoke-permit.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1102174/Guidance-app-for-an-environmental-permit-part-b2-general-new-bespoke-permit.pdf)).

The form can be:

- 1) saved onto a computer and then filled in.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces

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

## Contents

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- 7 How to contact us**

**Appendix 1 – Low impact installation checklist**

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

## 1 About the permit

### 1a Discussions before your application

If you have had discussions with us before your application, including having requested to submit your application in stages, give us the permit reference or details on a separate sheet. Tell us below the reference you have given this extra sheet(s).

Permit or document reference

See supporting information

## 1 About the permit, continued

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

Mobile plant Now go to **question 1c**

Site Now go to **section 2**

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

#### Mobile plant only

### 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 (excludes mobile plant)

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

Site name

Old Whittington Meadows Waste water Treatment Works

Address

Station Lane Industrial Estate  
Red Lane  
Old Whittington  
Chesterfield

Postcode

S41 9QX

National grid reference for the middle of the site, or for water quality/groundwater activities, the discharge point (for example, ST 12345 67890).

SK 39156 74268



## 2 About the site (excludes mobile plant), continued

### 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**

### 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

\_\_\_\_\_

What is the regulated facility type?

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

## 2 About the site (excludes mobile plant), continued

### 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**

### 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

\_\_\_\_\_

## 2 About the site (excludes mobile plant), continued

### 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**

N/A

## 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**).

**Have you, or any other relevant person, been convicted of any relevant offence? (see <https://www.gov.uk/government/publications/relevant-conviction-guidance-for-permit-applications-for-waste-activities-and-installations-only>)**

No Now go to **question 3b**

Yes Please give details below

### 3 Your ability as an operator, continued

#### Name of the relevant person

Title (Mr, Mrs, Miss and so on)

\_\_\_\_\_

First name

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)

Mr

First name

Kevin

Last name

Spink

Phone

07790 616453

Mobile

07790 616453

Email

kevin.spink@yorkshirewater.co.uk

### 3 Your ability as an operator, continued

Please provide the environmental permit number/s and site address for all other waste operations, (**see part B2 guidance notes**), that the proposed technically competent manager provides technical competence for, including permits held by other operators. Continue on a separate sheet as required.

Permit number	Site address	Postcode

Document reference

See TCM response for all sites June 2023

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.

See **Environmental permits privacy notice - GOV.UK ([www.gov.uk](http://www.gov.uk))** for how we use your personal information to support environmental permitting.

### 3 Your ability as an operator, continued

#### 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

\_\_\_\_\_

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.

For waste and installation permits only: your management system must also explain your resilience to climate change.

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)
- BS EN ISO 14005:2019
- Green dragon
- Own management system
- EMAS Global
- Other

Please send us a summary of the management system you are using and a copy of your accreditation (if applicable) with your application.

Document reference/s

See supporting document

## 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. The site plan must be legible at A4 size, drawn to scale and include a scale bar.



## 5 Supporting information, continued

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 supporting information

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

**See the guidance notes on part B2**

Document reference of the report

See supporting information

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 for what needs to be included.**

Document reference of the summary

See supporting information

### 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.**)

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 **Risk assessments for your environmental permit – GOV.UK (www.gov.uk)** or an equivalent method.

For air dispersion modelling see: **Environmental permitting: air dispersion modelling reports – GOV.UK (www.gov.uk)**

Document reference(s) for the assessments, including modelling reports and files where applicable

See supporting information

## 7 How to contact us

If you have difficulty using 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**

## 7 How to contact us, continued

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

### For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

- No  
 Yes

Amount received (£)

## Appendix 1 – Low impact installation checklist

Low impact installation criterion (see the Part B2 guidance notes)	Section of supporting document that shows how your proposed activity meets the LII criterion	Do you meet LII criterion?
<b>A – Management techniques</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>B – Wastewater</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>C – Abatement systems/ releases to air</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>D – Emissions to groundwater</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>E – Waste production</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>F – Energy consumption</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>G – Accident prevention</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>H – Noise</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>I – Emissions of polluting substances</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>J – Odours</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>K – Compliance history</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No

If you answered ‘No’ to any of the questions above, your installation cannot be considered as a low impact installation.

## 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. Continue on a separate sheet if necessary

### 1. Relevant Offences – date of birth information for relevant persons(s)

Please give us the following details if you have answered 'Yes' to question 3a

Name

\_\_\_\_\_

Date of birth (DD/MM/YYYY)

\_\_\_\_\_

### 2. Technical ability – date of birth information for technically competent manager(s)

Please give us the following details (relevant waste operations only)

Name

Kevin Spink  
\_\_\_\_\_

Date of birth (DD/MM/YYYY)

\_\_\_\_\_  


## 3.2 Additional Information for Form B2

### 1 About the permit

#### 1a Discussion before your application

No formal pre-application discussions have been held with the National Permitting Service of the Environment Agency, due to the closure of the pre-application service currently. Discussions on the use of CCTV cameras to monitor tanker offloading as part of the waste acceptance procedures have been held with Clive Humphreys of the Environment Agency.

### 2 About the site

#### 3d Management systems (all)

**Does your management system meet the conditions set out in our guidance? What management system will you provide for your regulated facility? Please make sure you send us a summary of your management system with your application**

YW has an established Environmental Management System (EMS), which is certified to the ISO 14001 standard. The EMS forms part of a wider corporate Integrated Management System (IMS) which also incorporates quality management, health and safety management, asset management, organisational resilience, and business continuity requirements. The management system follows an asset life cycle approach, from design through to decommissioning.

The YW EMS has been certified to ISO 14001 since 2004. The certified EMS scope covers: "The management and operation of clean and wastewater assets and associated services". YW's top level commitment to environmental and quality performance can be found in the Quality & Environmental Policy. YW has a central team responsible for the implementation of the overall IMS. YW personnel have role statements which provide details of the responsibilities and accountability of individual roles. YW has established appropriate forums and mechanisms for the identification and management of risk, including senior leadership teams and governance groups. Actions are cascaded throughout the organisation as appropriate.

In relation to environmental issues, climate change risk assessments are carried out as well as consideration of extreme weather and climate resilience work. Environmental aspects and impacts have been identified and are recorded using the company's software platform for recording risks (currently the '4Risk' system). YW is committed to comply with all relevant legislation, regulations, and any other requirements to which the organisation subscribes. Legislation is analysed so that its relevance to the activities, aspects, products and services of YW are understood, communicated and applied. Registers of relevant legislation and other requirements are maintained and managed via the Evaluation of Compliance (EoC) process held on SharePoint. Management requirements that arise from risk assessments and evaluation of compliance processes are taken into account in planning operational control and emergency preparedness procedures.

Operational facilities are managed in accordance with procedures laid down within the EMS. This includes procedures to identify and control environmental issues arising from YW's activities, including specific environmental permit requirements. Procedures specify environmental best practice requirements, including for example storage of chemicals and oils within a bund (with 110% capacity) which must be maintained in good condition, located inside a building wherever possible, on hardstanding and away from watercourses and site drains. Waste must be segregated appropriately, and waste containers must be located on impermeable hardstanding. YW has developed a biodiversity policy, underpinned by specific processes and procedures, to deliver programmes of work that aim towards a biodiversity net gain. This policy is applicable to contractors delivering work on behalf of YW.

A planned maintenance system is in operation covering all electrical and mechanical equipment and calibration of instrumentation and control system. A list of all plant items is stored on the Asset Inventory System (AI2) and the frequency, scope and records of planned maintenance and calibration are stored on SAP. Job cards for

planned maintenance are produced through the SAP system giving the necessary work instruction. Planned maintenance requirements are initially based on recommendations provided in Operations and Maintenance (O&M manuals).

Total Care Plans (TCPs) are produced for all sites and are reviewed at set intervals. TCP reviews set future planned maintenance frequency, the work to be carried out during the planned maintenance and identifies critical and life expired plant items. This is based on the review of the plant item's history and on condition monitoring results.

An inspection and testing programme for above and below ground vessels, pipes and valves is in place. This programme of work to detect any deterioration or weakness of assets typically incorporates a combination of visual examinations and non-destructive testing (e.g., ultrasonic thickness measurements). The frequency of inspection is in accordance with risk-based requirements, which also varies according to the condition of the asset. A clear process to address any identified defects, with assigned responsibilities, is in place.

In addition to planned maintenance activities described above, a programme of daily, weekly, and monthly visual inspections and checks are undertaken. This includes, for instance, visual inspections of general site condition and housekeeping including spills and leaks, checks for abnormal heat, noise, and vibration, checking the operation of pumps and monitoring instrumentation, checking calibrations are in date etc. Any abnormal observations are recorded in the site logbook.

Further to the above, the waste import facilities are supported by a third-party provider to specifically support the planned and preventative maintenance of the import logger and associated CCTV systems. The loggers are fitted with pH probes to prevent out of Spec discharges and the CCTV are in place to remote monitor the loads prior to approving the imports.

The designated Technically Competent Manager (TCM) also undertakes monthly inspections of the site to identify any potential issues and arrange resolution as necessary. These inspections are recorded, and the information is retained by YW. 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.

Plant breakdowns are responded to on the basis of a risk assessment matrix (RAM) and prioritised according to consequence of failure and likely time to failure occurring. Amongst other attributes, the RAM takes into account impact to environment, health and safety, cost and flooding. Site operational staff are responsible for requesting breakdown maintenance and repairs. Any reactive work that achieves a high priority on the RAM is called through to the Engineering Service Desk for progression. These jobs are treated as schedule busters and are progressed accordingly. Records of all maintenance (planned and reactive) and calibration are retained on the SAP work management system. YW has developed processes to identify, respond to and control emergency situations that may cause adverse environmental consequences. Spill kits are readily accessible at locations where there is a risk of spillage (e.g. delivery, storage, and areas of use). Spill control toolbox talks are provided to staff. This includes information about how to prevent and control pollution incidents from accidental spills of oils, fuels, sludge, and chemicals.

Contingency plans help minimise potential environmental impacts; this includes emergencies arising from breakdowns, enforced shutdowns, abnormal circumstances such as flooding as well as major fire and spill/loss of containment events. The YW Business Continuity Plan is in place to define and prioritise critical business functions, details the immediate response requirements for a critical incident and details strategies and actions to be taken to ensure business continuity. All Bioresources sites have the capability of remote monitoring and remote operation of key functions.

Process monitoring is undertaken for all key processes on site. This includes monitoring of operational parameters of plant and equipment to ensure it is operating effectively and efficiently. YW maintains processes to ensure that all those working for or on behalf of YW are suitably trained to fulfil their roles efficiently.

Assessment of competence and identification of individual training needs is carried out through mutual discussion between the individual and their manager as part of the company performance management process, a fundamental part of which is the competency framework and progression plans which are available for every role in the organisation. All YW employees receive IMS awareness training, delivered online at induction and periodically thereafter. This includes awareness of the environmental policy and understanding key environmental hazards and risks and the need to comply with IMS requirements. Toolbox talks are used to provide information and training to site staff, including information about environmental requirements/activities and legislative and compliance requirements. Training records for programmes and courses managed centrally are held on the company Learning Management System. Records for specific training managed locally at site is held by individual managers and/or on the Learning Management System.

Communication plans are in place to communicate business performance based on the company's 'Big Goals', company objectives and performance commitments, aligned to the quality, safety, environmental and asset management requirements. The company intranet, called the Hive, provides regular news updates for YW personnel and holds a wide range of information that employees can access. Other key communication channels include regular corporate newsletters, business unit-specific newsletters, and update sessions and events held by senior business leaders. 'Safeguard' communications are used to issue notifications such as Safety Alerts, Toolbox Talks and Lessons Learned from incident investigations to personnel across the business.

YW has specific procedures in place for the management of contractors regarding health, safety and environmental requirements. This includes procedures to ensure contractors have the required skills and environmental competencies to carry out works at this 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 contractor is required to submit a risk assessment method statement (RAMS) prior to any commencement of work, identifying how work is to be undertaken and the associated risks. The RAMS must be approved by the Site Manager or an assessor who is competent at reviewing a RAMS, 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.

YW's IMS objectives are documented with the 'Big Goals' and 'Performance Commitments' which are available and communicated via the company intranet. Planning to achieve IMS objectives is monitored and reported internally (via Performance Zone) and externally (via the Annual Report).

The EMS is subject to a Senior Management Review twice a year to consider environmental performance, objectives and targets and continual improvement. The Innovations Team at YW undertakes regular monitoring and review of new and innovative technologies and equipment to ensure the business continually improves its operations and activities. This includes consideration of cleaner technologies and improved environmental performance. Sectoral and cross-section benchmarking also takes place as required.

Processes have been developed by YW to identify, respond to and control situations that may cause actual or potential non-conformities. Non-conformities may be identified through internal audits/inspections or may be detected through other means. Incidents are managed in accordance with the Incident Management policy and procedures and Emergency Planning manual. In the event of a significant incident a root cause analysis is conducted. Actions are identified, reported, recorded, and communicated to prevent reoccurrence.

Complaints are typically received by YW central Customer Services team, where all complaints are logged on the ICE system. Complaints relevant to site are passed on to the Site Manager for further investigation. The Site Manager is responsible for ensuring that any complaint is investigated and, if found to be justified, that work is undertaken to resolve the issue, including liaising with the relevant regulatory bodies where appropriate. The Customer Service Team ensure an appropriate response to the complainant in a timely manner including, if and as appropriate, detailing the reason behind the issue and the actions taken to resolve the matter. All complaints information is recorded on the ICE system in order that this can be monitored, reviewed, and analysed.

- YW operates an internal audit programme delivered by trained internal auditors or suitably qualified external consultants or contractors. This includes the following:
- IMS auditing/inspections undertaken by the IMS Team.
- Regular combined quality, health and safety and environmental inspections performed at all operational sites.
- Assurance and improvement programme to ensure the health, safety, environmental and technical compliance of contractors delivering capital schemes.
- Audits of contractors delivering repair and maintenance activities.

YW is also subject to regular audits by external auditors to ensure continuing adherence to ISO14001 requirements. A formal Management Review of YW's IMS is undertaken and recorded at least once a year. The purpose of these meetings is to ensure the IMS' continuing suitability, adequacy and effectiveness as well as to assess opportunities for improvement and the need for changes to the management system, including the policy and objectives.

## 6. Environmental risk assessment

### Geology and Aquifer

The site lies on the Pennine Lower Coal Measures Formation bedrock consisting of interbedded grey mudstone, siltstone and pale grey sandstone. Numerous coal seams have been inferred and observed on and surrounding the site. Superficial deposits (located in the north east of the site) consist of alluvium.

The bedrock and superficial aquifers are Secondary A. There are no groundwater source protection zones within 1 km of the site.

### Surface Water

The River Rother/River Whitting flows directly next to the north eastern side of the site, approximately 15 m to the south east of the site, flowing from south west to north east. The Chesterfield Canal is approximately 100m south east of the site. The River Whitting is situated approximately 300 m to the south east.

### The Surrounding Area

There are 2 local nature reserves within 1 km of Old Whittington WwTW – Bluebank Pools, approximately 60 m to the south east of the site) and Brearley Wetland, approximately 60 m to the north east of the site. There are no Sites of Special Scientific Interest (SSSI) or National Nature Reserves (NNR) within 1 km of the site.

Old Whittington Sewage Treatment Works are situated on the periphery of Old Whittington residential area, which is situated 200 m to the north west, along with other industrial units approximately 75 m to the south west. Other residential areas include New Brimington, 320 m to the south east and New Whittington, 525 m to the north east. The A62 is located approximately 650 m to the south west, a railway line runs parallel to the eastern side of the site and a canal bike path is 80 m to the south east. Whittington Green School lies 450 m to the north west.

**Table 1.** Potential receptors, distance and direction from Old Whittington Sewage Treatment Works

Site Name	Direction from site	Distance from site (approx.)
Principal (secondary A) Bedrock Aquifer	N/A	N/A
Secondary (secondary A) Superficial Aquifer	N/A	N/A
River Rother	North East	15 m



Site Name	Direction from site	Distance from site (approx.)
River Whitting	South East	300 m
South Pennine Moors (SAC) (multiple units)	West	8700m
Peak District Moors (SPA) (multiple units)	West	8700m
Bluebank Pools nature reserve (LNR) (LWS)	South East	60 m
Brearley Wood nature reserve (LNR)	North East	60 m
Protected Species – water vole	Adjacent	Adjacent
Deciduous woodland	North East	50m
Residential areas	South East	600 m

Data taken from MAGIC.gov.uk website, accessed June 2021. For habitat sites, the relevant distance for consideration are: International designations (SAC, MPA, SPA and Ramsar - 10km); National designations (SSSI – 2km); Local nature reserves (LNR) and ancient woodlands (AW) (2km)

## Site History

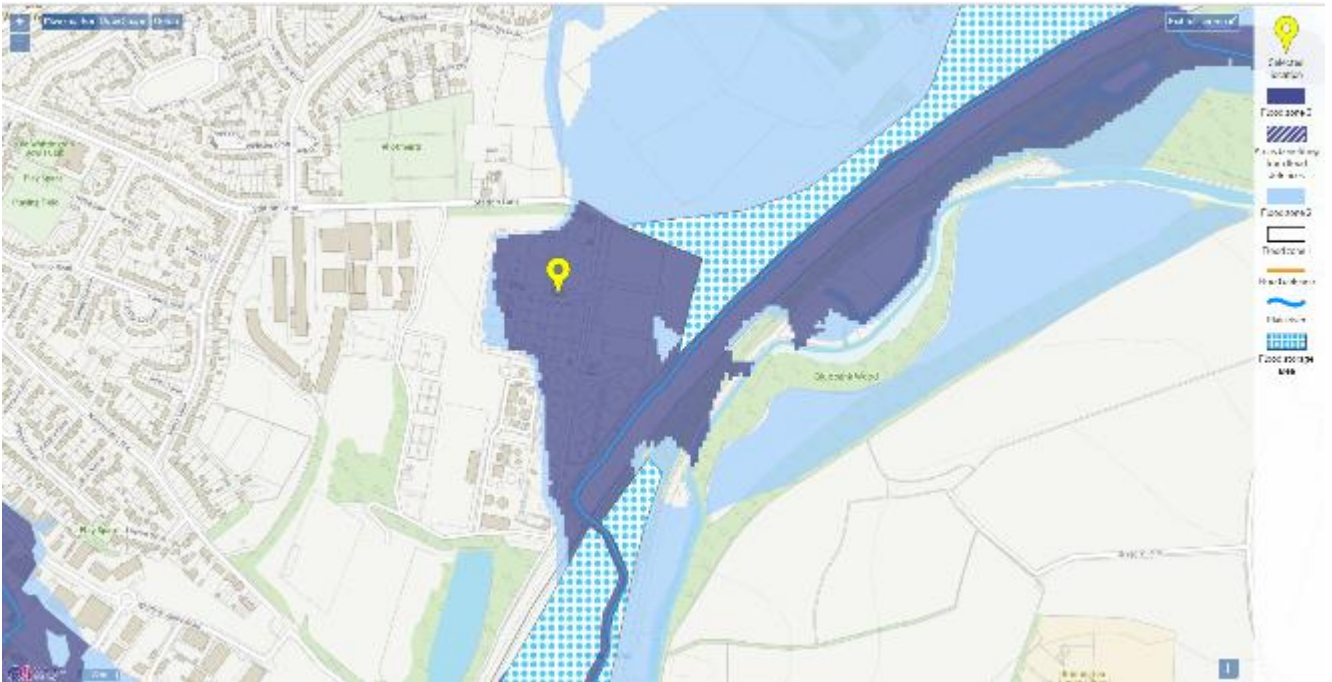
The site was agricultural land until 1898 when a sewage farm was built on the site, which was expanded in 1938. Foxley Oaks residential area was developed and a railway track ran parallel to the site. In 1916 Steel works were developed. Little change occurred in the site area until 1973 when further residential and commercial areas were developed.

Data taken from oldmapsonline.org, accessed May 2021.

## Flooding

The south western and western sides of the site lie within Flood Zone 1 with a low probability of flooding from rivers (<1:1000 annual probability of flooding). A small slice, running north west to south east, of the site lies within Flood Zone 2 with a medium probability of flooding from rivers (1:100 – 1:1000 annual probability of flooding). The remainder of the eastern side (predominantly the north east) lies within Flood Zone 3 with a high probability of flooding from rivers (> 1:100 annual probability of flooding). The surface water flooding risk for the site is very low.

Figure 2. Flood risk map



Flood risk map taken from Gov.uk Flood Map for Planning, accessed May 2021.

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.

### Climate Change Risk Screening

Category	Screening Questions	Score
Timescales	Permit required until 2060 or beyond	5
Flooding	High risk of flooding from rivers or seas	5
Water Use	Water not required	0
<b>Total Screening Score</b>		<b>10</b>

### Humber river basin district: climate change risk assessment worksheet

Name: Yorkshire Water

Our permit reference number (if you have one): Old Whittington WwTW

Your document reference number: Application support document

### Risk assessment worksheet for the 2050s

Humber 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.

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 6°C higher compared to average summer temperatures now.	6	4	4	16	Risk of increased odour from sewage processes. OCU's utilised as appropriate. May need to remove rag and screening skips more often	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	Risk of increased odour from sewage processes. OCU's utilised as appropriate. Extreme cold may reduce biological processes efficiency	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.	1	1	1
4. Average winter rainfall may increase by 29% on today's averages.	2	4	4	16	Rainfall would increase strain on site drainage and increase flows at the inlet. However, volume could be handled by the UWWTD works with potential increased storm flow retention so no impact.	2	4	8
5. Sea level could be as much as 0.6m higher compared to today's level*.	1	1	1	1	The site sits within flood zone 1	1	1	1
6. Drier summers, potentially up to 34% 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 30% more than now, and at its lowest it could be 65% less than now.	2	1	1	1	None.	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.

**3.3 Form B4**

# Application for an environmental permit

## Part B4 – New bespoke waste operation permit



<p>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.</p> <p>Please read through this form and the guidance notes that came with it.</p> <p>You can apply online for waste bespoke environmental permits.</p> <p>Apply online for an environmental permit.</p> <p>The form can be:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2) printed off and filled in by hand. Please write clearly in the answer spaces.</li> </ol> <p>It will take less than three hours to fill in this part of the application form.</p>	<p><b>Contents</b></p> <ol style="list-style-type: none"> <li>1 What waste operations are you applying for?</li> <li>2 Point source emissions to air, water and land</li> <li>3 Operating techniques</li> <li>4 Monitoring</li> <li>5 How to contact us</li> </ol> <p>Appendix 1 – Specific questions for the recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes</p> <p>Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations</p>
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### 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 supporting information

#### 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](http://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			
Old Whittington WwTW	Physical treatment of waste; deposit of effluent into a sewage works	D13	0.00	1,370.00
For all waste operations	Total storage capacity (see note 2)			0.00
	Annual throughput (tonnes each year)			500,000.00

**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 supporting information

**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		Old Whittington WwTW		
<b>Point source emissions to air</b>				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				
<b>Point source emissions to water (other than sewers)</b>				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				
<b>Point source emissions to sewers, effluent treatment plants or other transfers off site</b>				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				
<b>Point source emissions to land</b>				
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		
Description of the waste operation Add extra rows if you need them	Appropriate measure (TGN reference)	Document reference (if appropriate)
See Supporting 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

Old Whittington WwTW - Supporting Information

#### 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 N / A
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 N / A
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](http://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

N / A

##### 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](http://www.gov.uk/government/organisations/environment-agency)).

Document reference of the assessment

N/A

#### 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](mailto:enquiries@environment-agency.gov.uk)

Website: [www.gov.uk/government/organisations/environment-agency](http://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).

**3.4 Additional Information for Form B4**

**3 Operating techniques**

**3a Technical standards**

Table 3a – Technical standards		
Description	Appropriate measure	Document reference (if applicable)
Non-hazardous and inert waste: appropriate measures for permitted facilities		Inert and non-hazardous waste appropriate measures cross check against the biological treatment appropriate measure requirements, submitted on 6/09/2023
Biological waste treatment: appropriate measures		Biological waste treatment - appropriate measures compliance for non-storage sites August 23

**3b General requirements**

Table 2 Odour Risk Assessment

What harm can be caused and who can be harmed			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains?
Tanker off-loading points	Residential and commercial properties, hospitals, schools, amenities such as parkland and footpaths	Air dispersion	Where odorous material is received at the site it is discharged in the head of works directly into the main WwTW flow. Pre-acceptance procedure for screening out highly odorous effluent.	Fairly probable	Nuisance issue to local populace and users of amenities	Moderate
Head of the works	Residential and commercial properties, hospitals, schools, amenities such as parkland and footpaths	Air dispersion	Pre-acceptance procedure for screening out highly odorous effluent.	Fairly probable	Nuisance issue to local populace and users of amenities	Moderate
Waste storage areas	Residential and commercial properties, hospitals, schools, amenities such as parkland and footpaths	Air dispersion	N/A	N/A	Nuisance issue to local populace and users of amenities	N/A



Table 3 Environmental Accident Assessment and Accident Management Plan

What harm can be caused and who can be harmed			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains?
Major fire / explosion	Local population. Ecological receptors	Windblown dispersion.	Fire alarm systems installed and maintained. Electric temperature sensor, flame arrestors, etc. Follow site Incident Response Plan and inform relevant authorities	Very unlikely	Severe	Acceptable
Minor fire / explosion	Local population. Ecological receptors	Windblown dispersion.	See above for major fire	Unlikely	Significant	Acceptable
Failure to contain firewater	Local water courses. Ground and groundwater	Surface water drainage system. Diffusion into ground.	Fire prevention measures as above. Drainage of wider wastewater treatment works contained and directed to the head of the works. Follow site Incident Response Plan and inform relevant authorities	Unlikely	Significant	Acceptable
Vandalism	Local population. Ecological receptors. Local water courses. Ground and groundwater	Windblown dispersion. Surface water drainage system. Diffusion into ground.	Site security measures are in place including perimeter fence with controlled access gates. Regular inspection of perimeter fences. Address any specific equipment damage. Reinstate and review security measures.	Somewhat unlikely	Noticeable	Acceptable
Deposit of unsuitable effluent	Ecological receptors and local water courses	Impact on wider WwTW and final effluent quality	All effluents subject to robust pre-acceptance and acceptance checks Pre-acceptance checks increased on more variable effluents Interlocking between key logger issued to authorised contractors and offloading point to prevent unauthorised deposits Deposits subject to random acceptance checks	Unlikely	Significant	Acceptable

What harm can be caused and who can be harmed			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains?
Misconnection of tanker offloading hoses	Local population. Ecological receptors. Local water courses. Ground and groundwater	Overtopping of tanks	Dedicated hoses on off-loading points. Pre-acceptance and acceptance testing of all third-party waste imports	Somewhat unlikely	Significant	Acceptable
Flooding from rivers / stream / canal / groundwater etc	Local water courses. Ground and groundwater	Surface water drainage system. Diffusion into ground.	The site is located in a flood zone 3 however the area benefits from flood defences. Follow site Incident Response Plan and inform relevant authorities. Take appropriate corrective and preventative actions to minimise environmental impact	Somewhat unlikely	Significant	Acceptable
Flooding due to drain blockages and/or excessive rainfall causing localised on site surface water flooding	Local water courses. Ground and groundwater	Surface water drainage system. Diffusion into ground.	Regular infrastructure and housekeeping inspections including visual inspection of drains and hard standing. Follow site Incident Response Plan and inform relevant authorities. Take appropriate corrective and preventative actions to minimise environmental impact	Somewhat unlikely	Noticeable	Acceptable
Generalised or localised power failure leading failure of pumps / control systems and possible leaks and escape of sludge	Local water courses. Ground and groundwater	Surface water drainage system. Diffusion into ground.	Back-up power / contingencies plans are in place to provide power to critical operations in the event of an electrical outage	Fairly probably	Minor	Insignificant

What harm can be caused and who can be harmed			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk management	Probability of exposure	Consequence	What is the overall risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains?
Fuel / oil spills during tanker refilling / handling operations	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	Invoke spill containment procedures. Clean up according to COSHH data sheets and appropriate disposal arrangements. Isolate affected pipework \ sources Drainage of wider WwTW is contained and directed to the head of the works. Follow site Incident Response Plan and inform relevant authorities	Somewhat unlikely	Noticeable	Acceptable
Failure of fuel / oil containment	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	Regular inspection of containment. Clean up spillage and transfer waste into appropriate containment for recovery or disposal. Provision of containment via bunded storage tanks. Drainage of wider sewage treatment works contained and directed to the head of the works. Follow site Incident Response Plan and inform relevant authorities	Unlikely	Significant	Acceptable
Pump / bearing failure leading to excessive noise	Local population	Air	Planned preventive maintenance system in place. Complaints handling and response system in place	Somewhat unlikely	Noticeable	Acceptable
Failure (cracks, splitting) of underground pipework (e.g. fuel, chemicals, sludge, site drains)	Ground and groundwater	Infiltration / percolation through ground	Planned maintenance systems in place In-line flow monitoring in key locations and tank level monitoring would identify losses	Somewhat unlikely	Significant	Acceptable

Table 4 Ranking Matrix for Risk Assessment

"S" Severity of environmental impact		"L" Likelihood of event	
1. Minor	Nuisance onsite only (no off-site effects) No outside complaint	1. Extremely unlikely	Incident occurs less than once in a million years
2. Noticeable	Noticeable nuisance offsite, e.g. discernible odours Minor breach of Permitted emissions, but environmental harm One or two complaints from the public	2. Very unlikely	Incident occurs between once per million and once every 10,000 years
3. Significant	Severe and sustained nuisance, e.g. strong offensive odour or noise disturbance Major breach of Permitted emissions with possibility of prosecution Numerous public complaints	3. Unlikely	Incident occurs between once per 10,000 years and once every 100 years
4. Severe	Hospital treatment required Public warning & off-site emergency plan invoked Hazardous substance releases into water course with ½-mile effect.	4. Somewhat unlikely	Incident occurs between once per hundred and once every 10 years
5. Major	Evacuation of local populace Temporary disabling and hospitalisation Serious toxic effect on beneficial or protected species Widespread but not persistent damage to land Significant fish kill over 5 mile range	5. Fairly probable	Incident occurs between once per 10 years and once per year
6. Catastrophic	Major airborne release with serious offsite effects Site shutdown Serious contamination of groundwater or watercourse with extensive loss of aquatic life	6. Probable	Incident occurs at least once per year

Table 3 Overall Assessment of Risk

Likelihood of Event	Severity of Environmental Impact					
	Minor	Noticeable	Significant	Severe	Major	Catastrophic
	1	2	3	4	5	6

Extremely Unlikely	1	1	2	3	4	5	6
Very Unlikely	2	2	4	6	8	10	12
Unlikely	3	3	6	9	12	15	18
Somewhat Unlikely	4	4	8	12	16	20	24
Fairly Probably	5	5	10	15	20	25	30
Probable	6	6	12	18	24	30	36

Table 6 Overall Assessment of Scores and Interpretation

Risk Score	Magnitude of Risk	Consideration
6 or less	Insignificant	Low or negligible levels of risk, low or negligible impacts. Adherence to good operational practices will adequately control these risks
8 – 12	Acceptable	Lower level of possible impact, but major severity or high likelihood would require consideration of actions to reduce risk
15 – 20	Unacceptable	Combination of high likelihood or major impact would require further assessment and possible actions to reduce risk
24 or more	Severe	Immediate resolution required

Table 7 Environmental Risk Assessment

Consideration		Receptors	Discussion	Detailed Environmental Risk Assessment?	Mitigation Required
Fugitive Emissions	Litter	Human health receptors: there are residential areas 200 m, 320 m and 525 m from the site, and schools 450 m and 415 m.  Designations: Bluebank pools (75m south west) and  Brearley Woods (75m north east).	The facility does not produce waste which results in litter	No	N/A
	Vermin and Pests	For human health receptors, see notes for Litter above.	The waste produced does not typically attract pests and vermin and is well contained	No	N/A
	Dust	For human health receptors, see notes for Litter above.	The facility handles wet wastes which do not result in dusts	No	N/A
Point source emissions to air  Emissions deposited from air to land	For human health receptors, see notes for Litter above.	There are no point source emissions to air from these activities	No	N/A	
Point source and fugitive emissions to water	The River Rother and River Whitting are situated 15 m south east and 300 m south east of the site.  Chesterfield Canal lies 100 m south east.  The wider site drainage is returned to the head of the site for treatment.	There are no point source or fugitive emissions to water associated with the permitted activities.  Drainage within the works is directed to the WwTW inlet.  Discharges of treated effluent from the WwTW are not covered under the Waste Framework Directive and are not	No	Waste pre-acceptance and acceptance checks for all incoming wastes to minimise the risk of unacceptable loads being delivered, impacting on the treatment processes on site	

	The site sits within Flood Zone 3	included in the works associated with this permit application.  There is a risk to processes on site in the event that inappropriate effluent streams are introduced to the works causing inhibition of treatment processes.		
Odour	Onsite workers and contractors.  For human health and ecological receptors, see notes for Litter above.	There is the potential for odorous effluent to be accepted at the site via tanker, however pre-acceptance checks should minimise this risk. Direct discharges into the WwTW inlet result in rapid mixing of effluent with the main works flow and dilution of any odour potential	Yes	Mitigations are summarised in the odour risk assessment (Table 5-5)  Wider works covered by odour management plan
Noise and Vibration	Onsite workers and contractors.  For human health and ecological receptors, see notes for Litter above.	The primary source of noise at the site is vehicular. All plant has been chosen to be low noise and white noise squawkers have been used in preference to beepers.  There is no history of noise related complaints at the site.	No	N/A
Accidents	Onsite workers and contractors.  For human health and ecological receptors, see notes for Litter above.  Secondary A Aquifers in bedrock and superficial deposits underlying the site.	There is potential for release of unauthorised waste or wastes of unknown composition into the treatment system, which could potentially lead to the treatment system not working correctly or requiring maintenance, as well as implications for sludge produced.  There is potential for accidental spills and leaks of waste to the ground surface. This could lead to a potential risk to the	Yes	The site has emergency plans and protocols within its EMS to reduce and minimise risk. Pre-acceptance checks are in place to minimise risk of accidental input of unauthorised waste. Mitigations are summarised in the environmental accident assessment and accident

		sensitive aquifer and surface waters in the surrounding area.		management plan (Table 5-6)
Waste Compatibility	UWWTD derived flow within the works, the biological, chemical, and physical processes within the WwTW and output quality (sludges and final effluent)	<p>YW has a robust waste pre-acceptance and acceptance procedure, which is linked to both site access for tankers and also offloading point operation by means of key fob-controlled loggers.</p> <p>All potential tankered effluents are subject to an assessment before permission to deposit is granted, with more detailed assessments being carried out on more complex or variable effluents.</p> <p>Incoming loads are subject to monitoring, including periodic random sampling and testing to check for compliance.</p> <p>All offloading points equipped with appropriate hoses and coupling to reduce the risk of misconnections and spillages.</p>	No	N/A
Protected Species	There is a protected species, water voles, located in the adjacent watercourse, with a deciduous woodland across the river.	There are no direct discharges to the River from the permitted activity. All imported wastes are treated within the WwTW in accordance with its discharge permit.	No	No
Flooding	The south western and western sides of the site lie within Flood Zone 1 with a low probability of flooding from rivers (<1:1000 annual probability of flooding). A small slice, running north west to south east, of the site lies within Flood Zone 2 with a medium probability of flooding from rivers (1:100 – 1:1000 annual probability of flooding). The	The site has registered for flood warnings and in the event of a major flood being forecast, tankered trade imports deliveries to the inlet will be diverted to alternative YW sites.	No	No



	remainder of the eastern side (predominantly the north east) lies within Flood Zone 3 with a high probability of flooding from rivers (>1:100 annual probability of flooding).			
Bioaerosols	Humans	<p>In line with Table 8 Bioaerosols risk assessment. there are no bioaerosols released from the acceptance of waste. For the reception and offloading of waste there is no release point, offloading through sealed pipe and connector.</p> <p>Only liquid wastes accepted with limited potential to generate bioaerosols. For the discharge of effluent to WwTW, there is no release point - discharge into wastewater inlet is below liquid level.</p> <p>Only liquid wastes accepted with limited potential to generate bioaerosols.</p>	No	<p>All pipes and connectors checked for integrity any damaged equipment removed from service and replaced.</p> <p>Waste pre-acceptance procedure.</p> <p>Waste acceptance procedure.</p>

Table 8 Bioaerosols Risk Assessment

Source	Secondary Source	Hazard	Pathway/ Occurrences	Receptor	Probability of a Pollutant Linkage	Severity of the Consequences	Risk Classification	Risk Management	Procedure
Reception and offloading of waste	Bioaerosols	Microbial infections. Allergies.	Inhalation of spores, bacteria, etc.	Humans	Very Low	Severe	Low	No release point, offloading through sealed pipe and connector. Only liquid wastes accepted with limited potential to generate bioaerosols.	All pipes and connectors checked for integrity any damaged equipment removed from service and replaced. Waste pre-acceptance procedure. Waste acceptance procedure.
Discharge of effluent to WwTW	Bioaerosols	Microbial infection. Allergies.	Inhalation of spores, bacteria etc	Humans	Very Low	Severe	Low	No release point, discharge into wastewater inlet below liquid level. Only liquid wastes accepted with limited potential to generate bioaerosols.	Waste pre-acceptance procedure.

## **Appendix A. Current Waste Pre-acceptance and Acceptance Procedures**

## **Waste Pre-acceptance checks**

### **Aim**

This document aims to detail a methodology for the assessment of waste enquiries for delivery to YW sites for treatment through the full works flow. It classifies enquiries as either low risk or higher risk, based on their composition, origin and other factors, and puts in place a framework for their assessment, including the required level of sign off.

### **Audience**

This document is aimed at members of the commercial and operations teams who receive waste enquiries and the tanker trade waste team responsible for agreeing imports.

### **Scope**

As an operator of wastewater treatment works, YW are approached by a range of organisations with liquid and / or easily pumpable sludges, who wish to transport these wastes to a suitable permitted waste water works by tanker, for them to be treated within the main flow.

### **Exclusions**

This procedure does not apply to inter or intra company transfers from other waste water treatment works.

YW does not accept hazardous wastes. Any such enquiries should be rejected.

This procedure does not apply to enquiries relating to the delivery of wastes directly for anaerobic digestion. At present, YW does not hold suitable permits for such imports.

### **Definitions**

This document refers to two types of waste which may be enquired about:

Low risk wastes are those which are well understood and although individual loads may be variable, the framework of typical value is understood. This classification will apply to sewage and sewage derived wastes (e.g. cess pit, chemical toilet, septic tank wastes); landfill leachates from landfills classified as either inert or non-hazardous, where there is a range of data available on leachate composition; liquids from the food and drink industry relating to off-spec inputs or process washings.

Higher risk wastes are those where the waste is less understood or has the potential to be more variable. Generally, it will apply to all wastes not classified as low risk. Some producers or carriers may be classified as higher risk due to compliance or commercial concerns.

### **Procedure**

All waste pre-acceptance enquiries will require the enquirer to complete the waste pre-acceptance form, and for non-sewage derived wastes, provide a representative sample of the proposed waste stream.

Upon receipt of an enquiry, it should be logged and assigned to a member of the tanker trade waste team for assessment, including determination of the completeness of the application.

All enquiries are deemed to have sufficient information to assess if they include the following:

- Producer name (originating site, not haulier name)
- Waste description

- Process giving rise to waste
- SIC code giving rise to waste
- EWC code
- Nature of producers' business
- Haulier (if appropriate)
- Preferred delivery sites
- Tanker volume, frequency and variability
- Key chemical parameters

Assessment may continue prior to receipt of all information, but no acceptance can be granted until all relevant information is provided. If data is missing, including the provision of a suitable sample, the customer should be contacted within 2 working days. If data has not arrived within 10 working days, the case should be closed.

Initial screening should be undertaken to ensure that the proposed EWC code is correct based on the provided data and the description and that the code is on the list of permitted wastes. The proposed site should be screened to ensure it is permitted.

Analysis of the waste stream sample should be undertaken. This sample may either be provided by the producer, or from a YW sampling visit.

The sample should be subject to appropriate testing prior to acceptance:

All samples should be sampled for COD; ammonia; metals; pH; suspended solids and BOD.

For higher risk wastes, additional testing should be carried out dependent upon the provided data and the nature of the process giving rise to the waste. Specification of the testing should be agreed with the technical team, but may include biological inhibition testing as well as additional chemical parameters.

Where the customer provides analytical data, which must be from an accredited laboratory, for the assessment of their waste stream, a sample must be scheduled from the first delivered load.

The customer's preferred site should be checked for any site specific input restrictions with regard to COD and ammonia, along with any proposed alternative sites.

Where the waste stream is a lower risk waste stream, a decision can be made by the commercial team manager as to the acceptance of the waste, subject to agreement from the commercial team.

Where a higher risk waste stream is requested, this will require approval from the technical team, and potentially the technical manager depending on the nature of the waste stream.

Any queries or clarifications raised with regard to a waste enquiry must be recorded and retained.

Once an enquiry has been agreed, a sampling regime should be set for the waste stream, based around operational experience, variability of the waste stream and frequency of delivery. Higher risk waste streams should be sampled more often. The regime should be relayed to both operations staff at the site and the technical team. The commercial team should be informed of a new customer or waste stream.

The customer should be informed of the outcome. Where the waste stream is to be accepted, the customer should be issued with a written agreement of their movement, including site procedures for delivery and a keyfob / code for the logger. A site induction should be arranged for the customer and their driver prior to the first delivery.

### **Validity**

All waste streams should be subject to reassessment every 3 years, or 6 months from the last delivery, whichever is sooner. If the waste stream is low risk, then renewal should be automatic unless there are concerns raised by the commercial team or operations.

Where waste streams are higher risk, sampling data from the previous deliveries should be assessed to determine variability from the original assessment. The technical team may need to recheck permission in the event that sampling shows the waste is more variable than expected. Prior to reauthorisation, confirmation should be sought from operations and the commercial team that there are no outstanding issues.

### **Timescales**

Low risk enquiries should be determined within 2 working days of the receipt of the minimum information required.

Higher risk waste enquiries should be determined within 20 working days of the receipt of the minimum information required.

### **Emergency Loads**

Where an enquiry is received relating to a request for emergency permission to deposit tanker wastes, these must be directed to the tanker trade wate manager or their nominated deputy for approval, where the emergency is genuine (e.g. flooding related; major spillage; road traffic accidents; failure of customer infrastructure).

**Waste Acceptance**

All deliveries should be booked in for the day of delivery.

Prior to visiting site the driver must complete the YW online site induction and wear the correct YW compliant site PPE

Upon arrival at site, the customers driver will visit the waste import facility, couple up and log on.

The driver will call the YW controller and confirm booking and arrival on site. The controller should check that the delivery has been booked in for the appropriate day, and that the booking matches the waste transfer note or documentation presented by the driver. If the driver or load have not been booked in, the non-conforming load procedure should be followed.

The following detail should be checked for completeness prior to allowing any deposit. The operator should ensure that the following information is complete and accurate on the form and or booking.

- Delivery organisation and full name of driver
- Address of delivery organisation (if third party)
- Waste carriers registration number
- Originating location and contact there
- EWC code
- Waste description and SIC code
- Total volume
- Delivery address
- Date

If data is missing, it is the drivers responsibility to find the missing information

**CCTV coverage**

All the offloading is to be supervised remotely, the booking should still be checked as being pre-booked load. The sample should be observed being taken by the driver, who should hold it up to the camera for a visual check. Provide the visual check is acceptable and the transfer note is appropriate, then the offloading may be allowed to proceed, by controller approval.

All samples will be left at the Import facilities sample storage point and collected and analysed in line with YW imported waste sampling policy. If approved for discharge the drivers log on to the system and begin discharge, All Loggers are fitted with PH probes and are restricted to PH 4- PH10

*If the pH of the discharge is outside of the accepted YWS parameters (4pH – 10pH), a local alarm will be triggered (siren and flashing beacon) and the WaSP Logger Screen display details of the pH alarm. If this occurs, then the driver must end the transaction immediately as the actuated valve will shut after 20 seconds of warning.*

*In the event of a pH alarm and the transaction ending, the driver should contact YW for assistance and advise on safe disposal of the load.*

*Any occurrence of pH alarm's & follow up response will be recorded by YWS.*

## **Appendix B. Site Condition Report**



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## **SITE CONDITION REPORT – Old Whittington**

For full details, see H5 *SCR guide for applicants* v2.0 4 August 2008

**COMPLETE SECTIONS 1-3 AND SUBMIT WITH APPLICATION**

**DURING THE LIFE OF THE PERMIT: MAINTAIN SECTIONS 4-7**

**AT SURRENDER: ADD NEW DOC REFERENCE IN 1.0; COMPLETE SECTIONS 8-10; & SUBMIT WITH YOUR SURRENDER APPLICATION.**

1.0 SITE DETAILS	
Name of the applicant	Yorkshire Water Ltd
Activity address	Old Whittington Waste water Treatment Works Station Lane Industrial Estate, Red Lane Old Whittington, Chesterfield S41 9QX
National grid reference	SK 39120 74241

Document reference and dates for Site Condition Report at permit application and surrender	Permit application, June 2021.
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Document references for site plans (including location and boundaries)	Please see drawings within permit application supporting document
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**Note:**

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

2.0 Condition of the land at permit issue	
Environmental setting including: <ul style="list-style-type: none"> <li>• geology</li> <li>• hydrogeology</li> <li>• surface waters</li> </ul>	The south western and western sides of the site lie within Flood Zone 1. A small slice, running north west to south east, of the site lies within Flood Zone 2. The remainder of the eastern side (predominantly the north east) lies within Flood Zone 3  The site lies on the Pennine Lower Coal Measures Formation bedrock consisting of

	<p>interbedded grey mudstone, siltstone and pale grey sandstone. Numerous coal seams have been inferred and observed on and surrounding the site. Superficial deposits (located in the north east of the site) consist of alluvium.</p> <p>The bedrock and superficial are classified as Secondary A aquifers.</p> <p>The site sits outside any source protection zone for groundwater.</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> <li>• pollution incidents that may have affected land</li> <li>• historical land-uses and associated contaminants</li> <li>• any visual/olfactory evidence of existing contamination</li> <li>• evidence of damage to pollution prevention measures</li> </ul>	<p>Historic maps show the site was agricultural land until 1898 when a sewage farm was built on the site, which was expanded in 1938.</p> <p>Foxley Oaks residential area was developed and a railway track ran parallel to the site by 1916.</p> <p>In 1916 Steel works were developed.</p> <p>Little change occurred in the site area until 1973 when further residential and commercial areas were developed.</p> <p>The works has undergone a series of changes with tanks being built and demolished between 1938-today</p>
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	None
Baseline soil and groundwater reference data	None collected
<b>Supporting information</b>	No historic supporting information included, YW will use internal drawings to identify any issues. Area of land within the permit boundary is impermeable with captured drainage back to the WwTW. No waste storage is undertaken.

<b>3.0 Permitted activities</b>	
Permitted activities	Acceptance and discharge of tankered trade waste into WwTW inlet, for treatment within

	the main works flow. There is no storage of waste within the permit.
Non-permitted activities undertaken	Operation of wider WwTW
Document references for: <ul style="list-style-type: none"> <li>• plan showing activity layout; and</li> <li>• environmental risk assessment.</li> </ul>	See plans included within the permit application supporting document. See the environmental risk assessment.

**Note:**

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as 'dangerous' under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

<b>4.0 Changes to the activity</b>	
<b>Have there been any changes to the activity boundary?</b>	If yes, provide a plan showing the changes to the activity boundary.
<b>Have there been any changes to the permitted activities?</b>	If yes, provide a description of the changes to the permitted activities
<b>Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?</b>	If yes, list of them
<b>Checklist of supporting information</b>	<ul style="list-style-type: none"> <li>• Plan showing any changes to the boundary (where relevant)</li> <li>• Description of the changes to the permitted activities (where relevant)</li> <li>• List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)</li> </ul>

<b>5.0 Measures taken to protect land</b>	
Use records that you collected during the life of the permit to summarise whether pollution prevention measures worked. If you can't, you need to collect land and/or groundwater data to assess whether the land has deteriorated.	
<b>Checklist of supporting information</b>	<ul style="list-style-type: none"> <li>• Inspection records and summary of findings of inspections for all pollution prevention measures</li> <li>• Records of maintenance, repair and replacement of pollution prevention measures</li> </ul>

<b>6.0 Pollution incidents that may have had an impact on land, and their remediation</b>	
Summarise any pollution incidents that may have damaged the land. Describe how you investigated and remedied each one. If you can't, you need to collect land and /or groundwater reference data to assess whether the land has deteriorated while you've been there.	
<b>Checklist of supporting information</b>	<ul style="list-style-type: none"> <li>• Records of pollution incidents that may have impacted on land</li> <li>• Records of their investigation and remediation</li> </ul>

<b>7.0 Soil gas and water quality monitoring (where undertaken)</b>

<p>Provide details of any soil gas and/or water monitoring you did. Include a summary of the findings. Say whether it shows that the land deteriorated as a result of the permitted activities. If it did, outline how you investigated and remedied this.</p>	
<p><b>Checklist of supporting information</b></p>	<ul style="list-style-type: none"> <li>• Description of soil gas and/or water monitoring undertaken</li> <li>• Monitoring results (including graphs)</li> </ul>

<p><b>8.0 Decommissioning and removal of pollution risk</b></p>	
<p>Describe how the site was decommissioned. Demonstrate that all sources of pollution risk have been removed. Describe whether the decommissioning had any impact on the land. Outline how you investigated and remedied this.</p>	
<p><b>Checklist of supporting information</b></p>	<ul style="list-style-type: none"> <li>• Site closure plan</li> <li>• List of potential sources of pollution risk</li> <li>• Investigation and remediation reports (where relevant)</li> </ul>

<p><b>9.0 Reference data and remediation (where relevant)</b></p>	
<p>Say whether you had to collect land and/or groundwater data. Or say that you didn't need to because the information from sections 3, 4, 5 and 6 of the Surrender Site Condition Report shows that the land has not deteriorated.</p> <p>If you did collect land and/or groundwater reference data, summarise what this entailed, and what your data found. Say whether the data shows that the condition of the land has deteriorated, or whether the land at the site is in a "satisfactory state". If it isn't, summarise what you did to remedy this. Confirm that the land is now in a "satisfactory state" at surrender.</p>	
<p><b>Checklist of supporting information</b></p>	<ul style="list-style-type: none"> <li>• Land and/or groundwater data collected at application (if collected)</li> <li>• Land and/or groundwater data collected at surrender (where needed)</li> <li>• Assessment of satisfactory state</li> <li>• Remediation and verification reports (where undertaken)</li> </ul>

<p><b>10.0 Statement of site condition</b></p>	
<p>Using the information from sections 3 to 7, give a statement about the condition of the land at the site. This should confirm that:</p> <ul style="list-style-type: none"> <li>• the permitted activities have stopped</li> <li>• decommissioning is complete, and the pollution risk has been removed</li> <li>• the land is in a satisfactory condition.</li> </ul>	

## **Appendix C. WAMITAB**



CIWM

# Operator Competence Certificate

## Title:

Non Hazardous transfer/with or without treatment (not otherwise specified) (4MPTNH6)

**This Certificate is awarded to**

**Kevin Spink**

Authorised:

Katie Cockburn  
Professional Services Director

Verification date: 01/08/2016

Learner ID: 28071

Certificate No.: 5198009

Date of Issue: 05/05/2022



The Chartered Institution  
of Wastes Management

This certificate is jointly awarded by WAMITAB and the Chartered Institution of Wastes Management (CIWM) and provides evidence to meet the Operator Competence requirements of the Environmental Permitting (EP) Regulations, which came into force on 6 April 2008.







# CIWM

## Units achieved by

**Kevin Spink**

### Units gained:

		Level
Y/601/5875	Monitor procedures to safely control work operations	L3
M/600/9712	Manage the environmental impact of work activities	L4
R/602/1609	Manage the reception of non hazardous waste	L4
A/602/1670	Manage the movement, sorting and storage of waste	L3
F/602/1671	Manage site operations for the treatment of non hazardous waste	L4
L/602/1429	Manage the transfer of outputs and disposal of residues from non hazardous waste treatment and recovery operations	L4

Authorised:

Katie Cockburn  
Professional Services Director

Verification date: 01/08/2016

Learner ID: 28071

Certificate No.: 5198009

Date of Issue: 05/05/2022

**ofqual**  
REGULATED  
register.ofqual.gov.uk



The qualifications regulators logos on this certificate indicate that the qualification is accredited only for England and Wales. Qualifications Wales regulates this qualification where it is awarded to learners assessed wholly or mainly in Wales.





CIWM

# Continuing Competence Certificate

This certificate confirms that

Kevin Spink

Has met the relevant requirements of the Continuing Competence scheme for the following award(s) which will remain current for two years from 20/12/2022

TSNH            Transfer - Non Hazardous Waste  
TMNH            Treatment - Non Hazardous Waste

**Expiry Date:**  
**20/12/2024**

Verification date: 07/12/2022

Authorised:

Professional Services Director

Learner ID: 28071

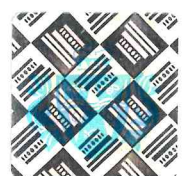
Certificate No.: 5213918

Date of Issue: 20/12/2022

CIWM Chief Executive Officer



The Chartered Institution  
of Wastes Management



## **Appendix D. EMS ISO140001 Certificate**

# Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

Yorkshire Water Services Ltd  
Western House  
Western Way  
Halifax Road  
Bradford  
BD6 2SZ  
United Kingdom

Holds Certificate Number:

EMS 685749

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

**The management and operation of clean and waste water assets and associated services.**

For and on behalf of BSI:

Andrew Launn, EMEA Systems Certification Director

Original Registration Date: 2015-04-01

Effective Date: 2021-04-02

Latest Revision Date: 2021-03-24

Expiry Date: 2024-04-01

Page: 1 of 1

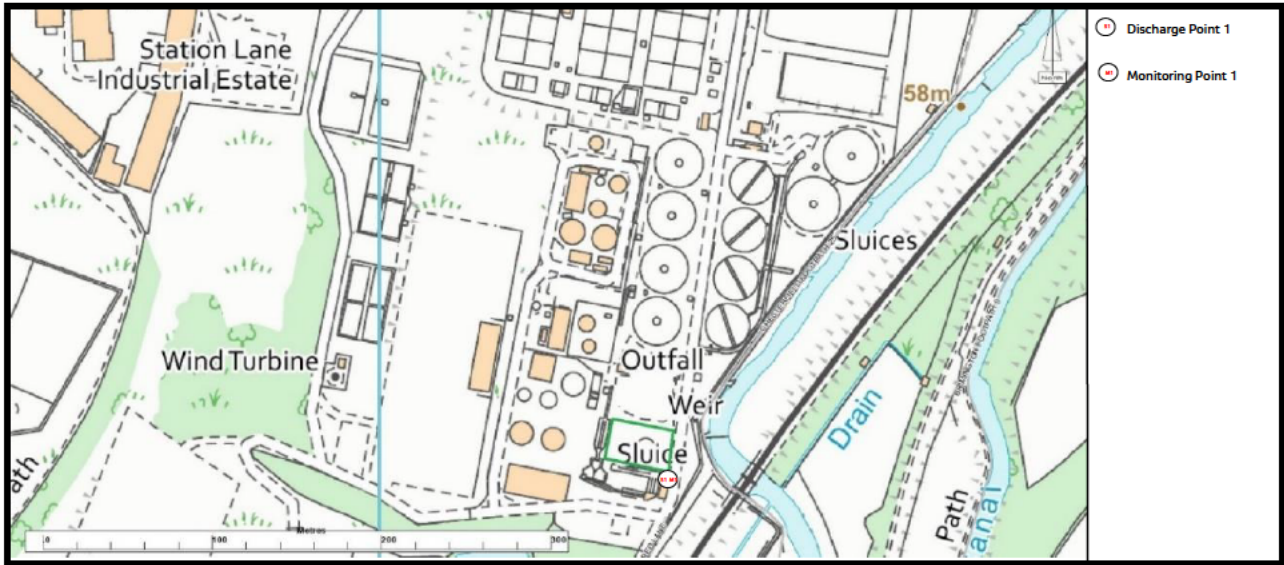


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## Appendix E. Site Plan with Permit Boundary



### Appendix F. Site Plan with Discharge and Monitoring Points



## **Appendix G. Site Drainage Plans**

# Waste Water Treatment Works Mapping.

SK3912874299

Date of survey : 07/04/20

Drawn by : J.Slicer

Site : Old Whittington STW

Reference : SAI00002521

Site Drainage Contained

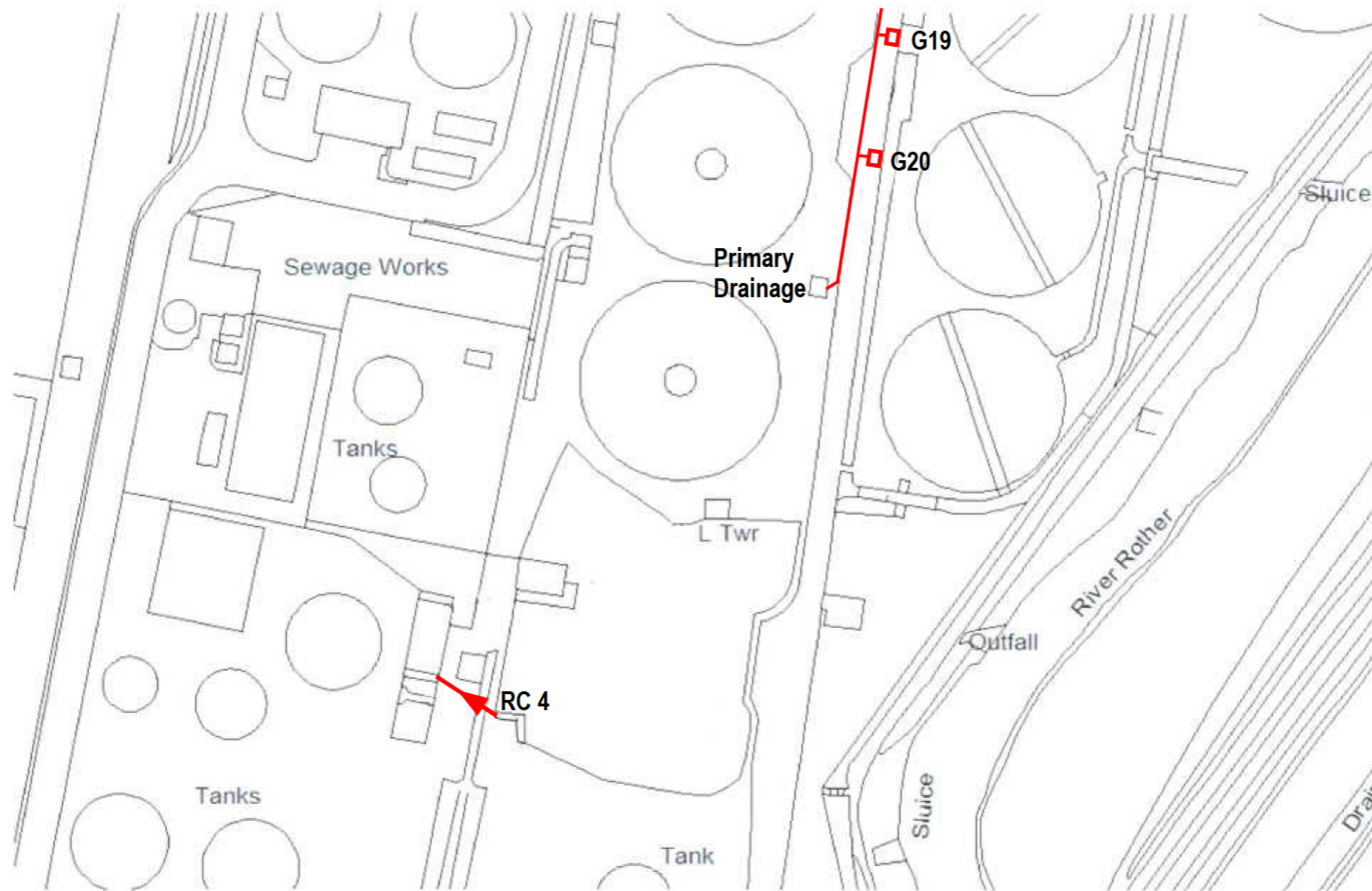


Plan 3 of 6

Notes.



Working on behalf of



## Site plan key

- |  |                                      |  |                         |  |         |  |                 |
|--|--------------------------------------|--|-------------------------|--|---------|--|-----------------|
|  | Non-Contained Drainage (CW)          |  | Contained Drainage (CW) |  | Manhole |  | Node point      |
|  | Non-Contained Drainage (SW)          |  | Contained Drainage (SW) |  | Gully   |  | Drainage Capped |
|  | Non-Contained Drainage (FW)          |  | Contained Drainage (FW) |  | Outfall |  |                 |
|  | Existing Drainage from Sewer Records |  |                         |  |         |  |                 |



# Waste Water Treatment Works Mapping.

SK3912874299

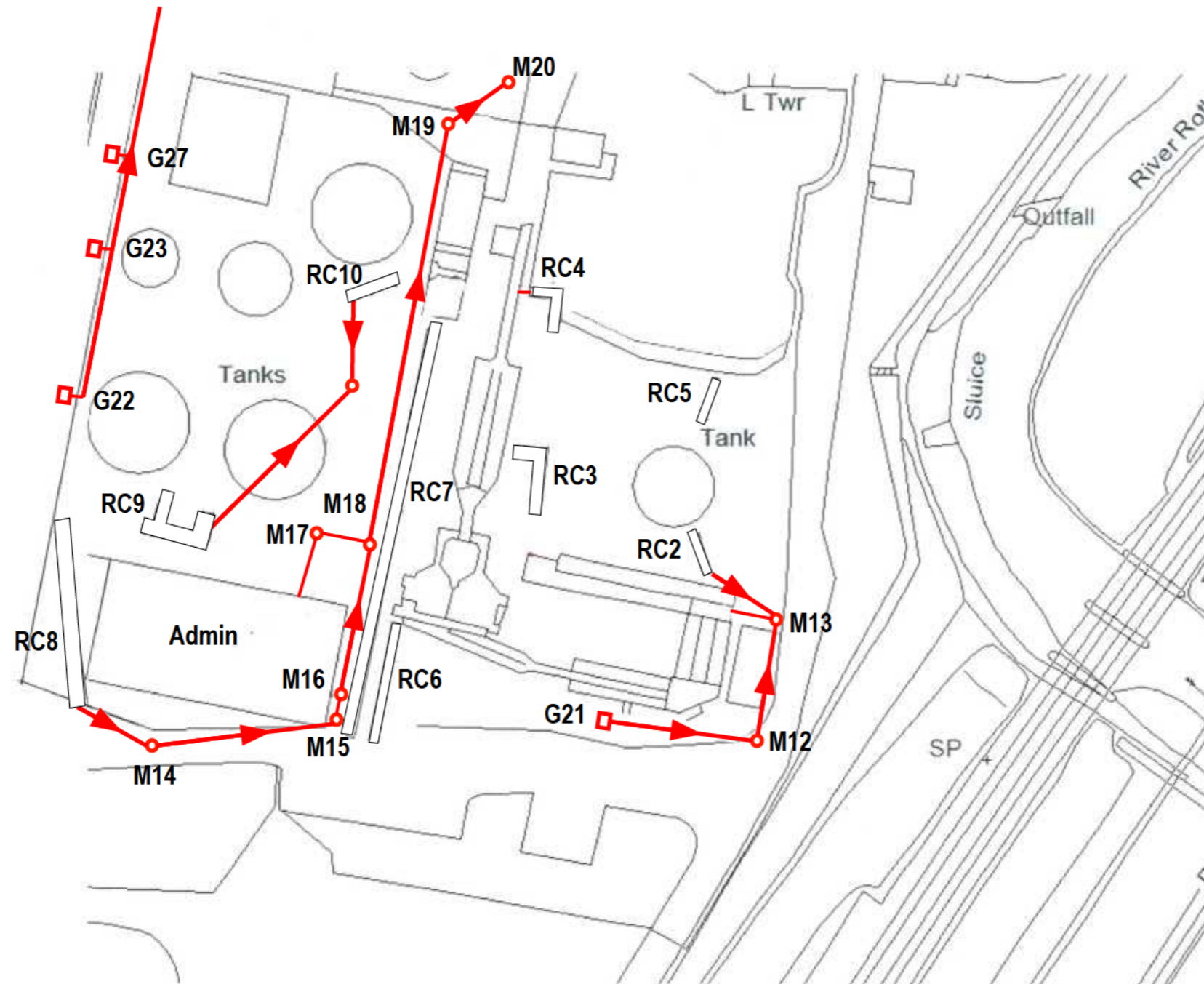
Date of survey : 07/04/20

Drawn by : J.Slicer

Site : Old Whittington STW

Reference : SAI00002521

Site Drainage Contained



Plan 4 of 6

Notes.

calm  
part of the Ipsumgroup

Working on behalf of



## Site plan key

- |  |                                      |  |                         |  |         |  |                 |
|--|--------------------------------------|--|-------------------------|--|---------|--|-----------------|
|  | Non-Contained Drainage (CW)          |  | Contained Drainage (CW) |  | Manhole |  | Node point      |
|  | Non-Contained Drainage (SW)          |  | Contained Drainage (SW) |  | Gully   |  | Drainage Capped |
|  | Non-Contained Drainage (FW)          |  | Contained Drainage (FW) |  | Outfall |  |                 |
|  | Existing Drainage from Sewer Records |  |                         |  |         |  |                 |