

Apply for a bespoke water discharge or groundwater activity permit

About you

Who will be the permit holder?

A registered company (including limited liability partnerships) or other corporate body

Registered company or other corporate body

Please provide details below

Company name:	WORLEY EUROPE LTD
Company address:	Floor 8, Building 6, 566 Chiswick High Road Chiswick, London
Company postcode:	W4 5HR
Company registration number:	04334425
Date of registration (DD/MM/YYYY):	05/12/2001

If you are applying as a corporate organisation that is now a limited company, please provide evidence of your status.

If you are an unregistered corporate body, you will need to give us evidence that you are a legal body and we can issue a permit to you.

- File: Appendix 13 - Padeswood Carbon Capture Unit - Letter of Authority.pdf - [Download](#)

Contact name for the company

Title	-
First name:	Andrew
Last name:	Bellis
Email:	Andrew.Bellis@Worley.com
Telephone:	+44 (0) 7720 244 500

Is somebody completing this application on your behalf?

Tell us if you're using an agent or somebody else to complete this application on your behalf

Yes – I'm completing this application on behalf of somebody else

Agent or others acting on behalf of the applicant

Complete your details:

First name: Stuart
Last name: Miller
Address: RSK Environment Limited, Spring Lodge, 172 Chester Road, Helsby, Cheshire
Postcode: WA6 0AR
Telephone: +44(0) 7917276729
Email address: smiller@rsk.co.uk

Pre-application discussions

Did you have pre-applications discussions with Natural Resources Wales about this activity?

No

Where will you be discharging?

Please complete

Site name Padeswood Carbon Capture Unit
Address Mold,
Flintshire
Postcode CH7 4HB

Please provide the 12 character national grid reference of the location of your septic tank / sewage treatment plant. This consists of two letters followed by 10 numbers (for example AB 12345 67890)

To find out the 12 character grid reference, you can search on the UK grid reference finder website: <http://www.gridreferencefinder.com/> (opens in new tab)

SJ 28709 61921
Unnamed tributary of the Black Brook

About the effluent

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

During construction of the development, surface water discharges from the site will be rainfall dependent and consist of run off from the active development area, including haul roads, earthworks, building footing and areas of disturbed/exposed ground following the installation of below-ground infrastructure.

The proposed construction surface water drainage strategy for the site has water falling under gravity through two trapezoidal ditches to direct flow to an attenuation pond. Prior to discharging in the unnamed tributary of the Black Brook, which flows westwards along the southern boundary. Appendix 4 provides a location map showing the proposed discharge point. Prior to the discharge all flows will be treated via an installed 'Silt Buster', with an oil water separator in addition to a treatment agent (details provided in Section 4.5). The final outflow from the 'Silt Buster' is rated at a maximum rate of 28l/s.

Give this effluent a unique name

This name will be used throughout the application and may be used in the permit to identify this effluent. If you have more than one effluent you must ensure that each name you use is distinct. For example, package sewage treatment plant effluent, septic tank effluent, cooling water, site drainage and so on.

Rainfall Dependent Trade Effluent (Site Drainage)

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

No

Tell us the effluent type:

You must fill in a separate copy of this form for each type of effluent you plan to discharge.

Trade – rainfall dependent (such as site drainage)

Trade – rainfall dependent: How long will you need to discharge?

What date do you want the permit for this effluent to start?

You cannot discharge your effluent prior to this start date on your permit. This is the date that your annual subsistence charges will start, even if you have not started to discharge.

* 01/09/2026

Is the discharge time limited?

Yes

Please give the date you expect the discharge to end but please note that your permit will not end on that date and you will still need to notify us to surrender the permit.

December 2029

Could your discharge from other premises be made to the foul

sewer?

How far away is the nearest foul sewer from the boundary of the properties (in metres)?

You will need to check this with your sewerage undertaker (usually your local water company) and you may also need to check if it is possible to connect to a private foul sewer. Measure the shortest distance between the boundary of premises served by the private sewage treatment system and the nearest foul sewer and/or private sewer.

NA

Discharges from all other premises, for example a pub, cafe, restaurant or office

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

	Volume of discharge (in cubic metres)	Divided by 0.75	Multiplied by 30 metres
Your premises	2419.2	3,225.6	96,768

Is this distance you've calculated greater than the distance to the nearest foul sewer you've provided above?

Yes

Trade – rainfall dependent: How much do you want to discharge?

What is the maximum volume of effluent you will discharge in a day (in cubic metres)?

2,419.2m³

What is the maximum rate of discharge (in litres a second)?

28

Tell us how you have calculate this figure in the box below, or upload a copy of your workings in the next question.

The maximum theoretical discharge is based upon the maximum discharge rate of 28l/s which is the maximum outfall rate of the onsite Silbuster

$60 \times 60 = 3,600$ seconds/hour

$3600 \times 24 = 86,400$ seconds/day

$86,400 \times 28 = 2,419,200$ litres/day

$2,419,200 / 1,000 = 2,419.2$ m³/day

Tell us how you have calculated this figure by uploading a copy of your workings.

- File: Padeswood Sab Phase 1b - Discharge Consent - Supporting Documentation.pdf - [Download](#)

Trade - rainfall dependent: How will the effluent be treated?

Do you treat your effluent?

Yes

If no, please explain why the effluent will not be treated:

All surface water arising from rainfall will be directed to the attenuation basin which will allow initial settlement to take place. Prior to the discharge the surface water will pass through a Siltbuster dosing unit, at which point a plant based flocculant (AQUATAN 100) will be added. Following dosing the additional treatment will be undertaken in the main Siltbuster unit prior to discharging to the water course.

A validation test on the use of the flocculant has been undertaken, the findings demonstrate that the use of a treatment agent achieved a 99.1% reduction in Total Suspended Solids (TSS) within 12 minutes. Whilst there is a near reduction in suspended solids, over a 12-minute period, in reality the retention time within the Siltbuster will be the shortest possible. The Siltbuster system will be appropriately calibrated and adjusted during operation to ensure compliance with the applicable regulatory limits for suspended solids.

Please fill in the table below for each stage of the treatments carried out on your effluent in the order in which they are carried out. . If you prefer, you can upload an overall design for the whole treatment process below

	Code number
First treatment	29 Settlement
Second treatment	04 Chemical
Third treatment	-
Fourth treatment	-

Final effluent discharge quality

You must provide details of the final effluent discharge quality that the overall treatment system is designed to achieve. This should be after all the stages of treatment you have listed in the table above. For discharges of treated domestic sewage effluent this must include biochemical oxygen demand, suspended solids and ammonia. For trade effluent discharges, the substances should reflect the substances that are likely to be present in the final effluent discharge.

Please upload this and any supporting documents here.

- File: APPENDIX 8 - SETTLEMENT TEST AND FLOCCULANT VALIDATION REPORT.xls - [Download](#)

Trade – rainfall dependent: What will be in the effluent?

Are any 'specific substances' added to or present in the effluent as a result of the activities on the site?

You may add chemicals to the effluent during the treatment process; for example, iron salts to remove phosphate. Or you may have substances present in your effluent as a result of activities on your site; for example, chromium can be present in effluents from concrete batching plants.

No

Have any 'specific substances' been detected in samples of the effluent or in the sewerage catchment upstream of the discharge?

No

Are there any other harmful or hazardous substances in your effluent not mentioned in the environmental risk assessment guidance ?

The list in the environmental risk assessment guidance is not exhaustive and if you accept, add or detect any other harmful substance (including hazardous substances or relevant non-hazardous pollutants as described above) you will need to tell us.

No

Give the maximum temperature of your discharge in degrees Celsius

16

Trade – rainfall dependent: Monitoring arrangements

Please provide the 12 character national grid reference of the final effluent sample point.

This is the sample point used to assess compliance with any water quality emission limits on your permit. You must ensure that it allows a representative sample of the discharge to be obtained. You must also ensure that all constituents of the discharge pass through the sampling point at all times. The sample point can be where the effluent meets the receiving environment only in cases where no other effluent is added before this point. You must provide a permanent means of access to monitoring points.

A 12 character national grid reference consists of two letters followed by 10 numbers (for example AB 12345 67890). To find out the 12 character grid reference, you can search on the UK grid reference finder website: gridreferencefinder.com (opens in new tab)

SJ 28709 61921

Do you have a UV disinfection efficacy monitoring point?

This type of monitoring point is only required for discharges that undergo some form of disinfection. For example, ozone or ultraviolet disinfection, membrane filtration etc.

No

What is the 12 character national grid reference of the flow monitoring point?

A 12 character national grid reference consists of two letters followed by 10 numbers (for example AB 12345 67890). To find out the 12 character grid reference, you can search on the UK grid reference finder website gridreferencefinder.com (opens in new tab)

SJ 28709 61921

Does the flow monitor have an MCERTS certificate?

No

If yes, please give the certificate number:

NA

Your management systems

What management system will you provide for your regulated facility?

Own management system

I confirm that I have read the guidance and that my management system will meet NRW requirements.

Yes

You must send a suitable summary of your management system with your application – that includes enough information to allow us to assess whether your full system meets the standards set out in our guidance.

- File: Padeswood Sab Phase 1b - Discharge Consent - Supporting Documentation.pdf - [Download](#)

Where will the effluent discharge to?

Where will the effluent discharge to?

Non-tidal river, stream or canal

Is this effluent discharged through more than one outlet?

Effluents are usually discharged to one location in one receiving environment. If your effluent will be discharged to more than one location within the same receiving environment, for example, two different discharge points on a non-tidal river, you can provide details of every discharge point on the next page.

If your effluent discharges to more than one location in a different receiving environment, for example, into land and to a non-tidal river you will need to select both receiving environments above and complete the relevant sections on the following pages.

No

Are there any other factors we need to take into account as part of your application?

No

If yes, please give details:

The discharge is solely of rainfall dependant runoff

Discharges to non-tidal river, stream or canal

Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan), the national grid reference and the name of the watercourse, canal or the main watercourse it is a tributary of if you know it

	Discharge point name	National grid reference	Watercourse name	Name of effluent discharged through this discharge point
1	Outlet 1	SJ 28709 61921	Unnamed tributary of the Black Brook	Rainfall Dependent Trade effluent (surface water)
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-

Is the discharge into a

Stream

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

No

Does the watercourse dry up for part of the year?

Effluent should discharge to watercourses which flow all year. Discharging to a dry watercourse may cause the effluent to pond and cause other environmental or amenity issues"

No

Environmental risk assessment and modelling

Have you carried out any river quality modelling? Read the 'Surface water pollution risk assessment for your environmental permit' guidance available on Gov.UK to determine if you need to provide this modelling.

No

Site plan

You must provide a site plan for your proposed discharge which is A4 in size or larger, and at 1:1,000 scale or larger.

On your plan you must show:

which direction North is; the premises discharging effluent; the site in relation to the local area; any watercourses, wells, springs or boreholes on the site (or within 50 metres); the location of the wastewater treatment system all outlets where effluent will be discharged into the receiving environment; where samples of effluent can be taken automatically or manually (if required); where flow or quality will be measured (if required).

You may submit more than one plan if necessary.

Please upload your plan(s) below

- File: Appendix 4 - Padeswood Carbon Capture Unit - Discharge Location.pdf - [Download](#)

How do you want to pay?

If a new contact, please provide details:

Title	-
First name	Stewart
Last name	Mitchell
Address	Padeswood Works, Chester Road, Padeswood, Mold, Flintshire
Postcode	CH7 4HB
Telephone	07773 318884
Email address	stewart.mitchell@heidelbergmaterials.com

How do you want to pay for your application fee?

Electronic transfer (e.g. BACS)

Paying by electronic transfer

Please provide your reference for the payment.

Payment reference: EPRWORLEY0001

Amount paid: £10,691

How we collect your personal data

We will process the information provided by you in line with the Data Protection legislation. For more information on how we manage, store and use your data, see our Privacy Notice (opens in new tab)

I have read and understood this information

Freedom of Information

Under the Freedom of Information Act 2000, anybody may request information from a public authority. The Act grants two statutory rights: to be told if the public authority holds that information; and if so, to have that information communicated to you.

Find out how to request information under the Freedom of Information Act (opens in new tab).

I have read and understood this information

Confidentiality and National Security

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential. Confidential information is information that is commercially or industrially confidential in relation to any person and is unlikely to be applicable for small-scale sewage discharges.

You can ask for information in the public register to be made confidential or withheld in the interests of national security by answering the question below and provide information on the next page giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application.

Do you believe that for reasons of confidentiality or national security your details should not be included on the public register?

No

Declaration

A relevant person should make the declaration. You must be a relevant person or have the authority of a relevant person to sign this application on their behalf. An agent acting on behalf of an applicant is NOT a relevant person.

Each individual (or individual trustee) who is applying for their name to appear on the permit must complete this declaration. You can send a separate document with the relevant information if there are not enough spaces to sign below.

Relevant people means each applicant, and in the case of a company, a director, manager, company secretary or any similar officer or employee listed on current appointments in Companies House. In the case of a Limited Liability Partnership (LLP), it includes any partner. If the permit holder is an organisation of individuals, each individual (or individual trustee) must complete the declaration.

To simplify and speed up the application process, we recommend that the declaration is filled in by an officer of a company or one of the partners in a Limited Liability Partnership (LLP).

If you wish a manager, employee or consultant etc. to sign the declaration on behalf of a relevant person, we will need written confirmation from a relevant person; that is, an officer of the company, a partner in the LLP or the individual, confirming that the person has the authority to fill in the declaration.

If you are joint permit holders, you should each fill in your own declaration. We have provided extra spaces for this below. Please upload a separate sheet with your application if you need more room for signatories.

Where the operator is the subject of any insolvency procedure, the declaration must be filled in by the official receiver/appointed insolvency practitioner.

I have included written confirmation from a relevant person to confirm I can sign on their behalf

Upload written confirmation here

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If you knowingly or recklessly make a statement which is false or misleading to help you get an environmental permit (for yourself or another person), you are committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

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

I understand that if I knowingly or recklessly make a false or misleading statement: I may be prosecuted; and if convicted, I may have to pay a fine and/or go to prison.

By signing below, you are confirming that you understand and agree with the declaration above.

Title	-
First name	Andrew
Last name	Bellis
On behalf of (if applicable)	Worley Europe Limited
Date (DD/MM/YYYY)	28/07/2026

If you knowingly or recklessly make a statement which is false or misleading to help you get an environmental permit (for yourself or another person), you are committing an offence under the Environmental Permitting (England and Wales) Regulations 2016. I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

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Title	-
First name	Andrew
Last name	Bellis
On behalf of (if applicable)	Worley Europe Limited
Date (DD/MM/YYYY)	28/07/2026

Submit your application

Enter the email address you'd like a copy of your application sent to:

smiller@rsk.co.uk