Application for an environmental permit Part B6.5 – Discharging treated domestic sewage effluent (no trade) of up to 15 cubic metres (15m³) a day into ground or up to 20 cubic metres (20m³) a day to surface water



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

The form can be:

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

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

You should only use this form if your intended activity is limited to discharging treated domestic sewage effluent (no trade effluent) of up to 15 cubic metres (15m³) a day to ground or up to 20 cubic metres (20m³) a day to surface water.

A discharge into the ground, is, for example, to a drainage area, onto land or into a borehole (provided the discharge only results in an indirect discharge to groundwater).

A discharge to surface water is, for example, to a river, stream, canal, lake, estuary or the sea.

If you want to carry out any other activities, fill in the appropriate parts of the EPR application form on the website. It will take less than two hours to fill in this form.

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

Note: please read the guidance to this form before filling the form in.

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Note: You will need to fill in one form for each sewage treatment facility you are applying for.

1 About you

1a Who will be named on the permit?

Please give us the following details of who you want to be named on the permit.

An individual or group or organisation of individuals

Please give the details of the individual or, where relevant for groups or organisations of individuals, the main representative. Name

Title (Mr, Mrs, Miss and so on)	
First name	L]
Last name	L]
Now complete your address at 1b	
More than one individual	
If more than one individual will be named on the permit the deta address required by 1b below must be provided together on a se given this sheet.	ils for each additional individual required above along with their parate sheet, please tell us here the document reference you have
Document reference	
An organisation (group) of individuals	
Please give us the following details of the organisation of individ	luals.
Type of organisation	
For example, a charity, a partnership, a group of individual householders or a club and so on.	

1 About you, continued	
Name of organisation if relevant	
For example the name of the charity, partnership or club and so on	L
A company or corporate body	
Name of the company	
Company registration number	L
Date registered (DD/MM/YYYY)	
If you are applying as a corporate organisation that is not a limited of the reference number you have given the document containing this	
Document reference	L
Contact name for company	
Title (Mr, Mrs, Miss and so on)	
First name	L
Last name	L
1b Your address For companies this is the address on record at Companies House.	
Address	L
	L
Destes de	
Postcode	
Contact numbers, including the area code	
Phone	
Fax	L
Mobile	L
Email	L
	L
1c Agent or others acting on behalf of the applicant	
If you want us to contact an agent or another person not named abo someone acting as a consultant or an 'agent' for you.	ve in 1a their details must be provided below. This can be
Title (Mr, Mrs, Miss and so on)	

First name	LJ
Last name	L]
Position	L]
Address	
	L]
	L]
Postcode	

1 About you, continued

Contact numbers, including the area code	
Phone	
Fax	II
Mobile	
Email	
	l]

Now fill in section 2

2 About this application

2a Have you spoken to us already about this application?

If you have had pre-application discussions with us before your application, please provide details on a separate sheet. Tell us below the reference you have given this sheet.

Document reference

2b About your sewage treatment facility

The term 'sewage treatment facility' is used throughout this application form	. That term is explained in more detail in the guidance
document that accompanies this application form.	

Where is the sewage treatment facility? (name, address, postcode and national grid reference)

If the address is the same as given in answer to 1b tick this box, if not, enter the details below.	
Site name	LJ
Address	L
	L
Postcode	
2c National Grid Reference for the centre of your sewage t (for example, ST 12345 67890) To find out the 12-digit grid reference search on the UK Grid Referen	
2d What type of activity are you applying for? (tick one) A discharge to a surface water, for example a river, stream, canal, lake, estuary or the sea and so on (water discharge activity)	
A discharge into the ground, for example a drainage area, onto land, a borehole and so on (groundwater activity)	
2e Is your discharge new or existing?	
New 🗌	
Existing	
Now fill in section 3	

3 Your management system (see guidance note to part B6.5)

You must have a written management system to make sure that your sewage treatment facility is maintained and run effectively. Your permit requires you (as the operator) to ensure that you manage and operate your activities in accordance with a written management system.

You can find guidance on management systems in the guidance notes to part B6.5 and on our website at www.gov.uk/government/ organisations/environment-agency.

Tick this box to confirm that you have read the application form	guidance	
and that your management system will meet our requirements.		Now fill in section 4

4 Your site plan

You must provide a plan for your sewage treatment facility as part of your application.

PLEASE NOTE THAT WE ARE UNABLE TO PROCESS YOUR APPLICATION WITHOUT YOUR PLAN. IF YOU DO NOT PROVIDE ONE WE WILL RETURN THE APPLICATION TO YOU.

For discharging sewage to a receiving surface water, your plan must show the sewage treatment plant, and the point where the sewage is discharged to the receiving surface water. For discharging sewage to ground, your plan must show the sewage treatment plant and how the sewage is discharged to the ground (for example, the drainage field, borehole or wetland area and so on).

Any sample point indentified in answer to 5f below should also be shown

The properties served by the facility are not part of the facility and do not have to be shown.

Please give the plan a reference number and write it below.

Document reference of the plan

Now fill in section 5

5 About your discharge

5a What type of premises does your sewage treatment facility serve, for example the number of houses or a description such as a pub, café, restaurant, office and so on

5b What is the maximum volume of effluent you will discharge in a day (in cubic metres)?

If your discharge comes from a single domestic property, use the table below to work this out.

Number of bedrooms in your house	Daily volume (cubic metres per day)
1 to 3	0.75
4 to 6	1.2
7 to 8	1.5

How to calculate the maximum daily discharge volume from multiple domestic properties

If you are discharging sewage from premises other than a single domestic property (for example, from a group of houses, a guest house or a very large house), the volume should be worked out using the industry code of practice known as 'Flows and Loads – 4', which is available from the British Water at www.britishwater.co.uk (To help you calculate this, we recommend you read the guidance notes on part B6.5 for more information)

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

Document reference for any extra sheet(s) used for question 5b	

5c Could your discharge be made to the foul sewer?

Foul sewer means public or private foul sewer

Before completing questions 5c and 5d, you must read the guidance notes that support this form. You will also need to contact 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.

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

5d To assess if it is reasonable to discharge your effluent into the foul sewer:

Discharges from domestic properties

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

Number of domestic properties served by the sewage treatment system

x 30 metres = Answer

metres

5 About your discharge, continued

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 multiple this figure by 30 metres.

Volume of the discharge	cubic]	
(answer to question 5b)	metres / 0.75 =	x 30 = Answer	metres

Is your answer to either question 5d above greater than the distance to the nearest foul sewer (answer to 5c)? No \Box

If no, you do not need to explain why you cannot discharge your effluent into the foul sewer at this point. However we may request this information from you when we determine your application.

Yes 🗌

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

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

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

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

The guidance document which supports this application will help you understand what information you need to provide in order to answer this question.

Document reference where you have given this justification

5e What type of sewage treatment system will you be using to treat your effluent?

Package treatment plant that meets British Standard BS 12566	
Septic tank	
Other	

You must provide design details of 'other' treatment including the stages of treatment carried out on your effluent and the final effluent discharge quality that the treatment system is designed to achieve. Provide this information in the box below and continue on a separate sheet if necessary, giving a reference for the extra sheet.

Document reference for any extra sheet(s) used for question 5e

5f You must provide a sample point where a sample of your discharge can be safely taken before it has mixed with any other discharges such as rainwater run off if you are making:

- an existing or new discharge to surface water
- an existing discharge to groundwater and the volume is more than 5 cubic metres (5m³) a day
- a new discharge to groundwater.

This does not apply if you are discharging to ground up to 5 cubic metres (5m³) a day from an existing system. If your sample point is not at your outlet you must give its grid reference and identify it on the plan required by section 4.

What is the National Grid Reference of your discharge sample point if not at the outlet (for example, ST 12345 67890)

5g Where will your treated effluent discharge to?

Mark in the table below where this effluent discharges to and fill in the relevant appendix in terms of the information required.

5 About your discharge, continued

If you are sending in a paper version of this form you only need to print off and fill in one appendix to save on paper.

Receiving environment	Х	Relevant appendix
River, stream, ditch or canal		1
Into land (drainage field)		2
Onto land (e.g. via reed bed or grass plot)		3
Borehole or well or other deep structure		4
Tidal river, tidal stream, estuary or coastal waters		5
Lake or pond		6

5h Risk assessment requirements

A risk assessment must be undertaken in order to determine whether your proposed discharge is environmentally acceptable. For most discharges applicable to this application form, we will undertake a risk assessment for you. You must however provide sufficient information as required by this application form in order for us to carry out the risk assessment on your behalf. This is particularly important where an application to discharge to a borehole or other deep structure is concerned (see appendix 4).

If however you are proposing a new discharge of treated domestic effluent to ground via a shallow sub-surface infiltration system in a groundwater source protection zone 1 (SPZ1) with a discharge volume between 2 to 15 cubic metres a day, you must carry out a groundwater quantitative risk assessment following the guidance (search for 'Groundwater risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency). You must send us details of how the risk assessment / modelling was carried out and the outcome. See the web guidance for details of how you can find out if your proposed discharge is in a SPZ1.

If your discharge of treated domestic effluent is to ground and outside a SPZ1 with a discharge volume between 2 to 15 cubic metres a day and is existing, you do not need to submit a quantitative risk assessment at this point. However we may request this information from you when we determine your application.

YOU MUST ONLY ANSWER THIS QUESTION IF YOUR PROPOSED DISCHARGE IS TO GROUND

Are you required to submit a quantitative risk assessment as detailed above?

No D My proposed discharge does not require me to submit a separate quantitative risk assessment but to provide sufficient information as required by this application form to allow the risk assessment to be undertaken on my behalf

Yes 🗌 My proposed discharge requires me to submit a quantitative risk assessment as detailed above.

If you answered yes, please give document reference for your risk assessment repor	If you answered	ves, please give c	locument reference fo	r vour risk assessment report	:
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6 Payment

6a Are you a domestic household or an organisation operating for chartable purposes and is the maximum volume of effluent you will discharge five cubic metres (5m³) or less a day?

This is the figure you have given in question 5b.

Yes 🗌	A reduced	application	and subsiste	nce charge	applies.
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No 🗌

Please see 'Environment Agency charging scheme and guidance: environmental permits, licence and registration costs and fees' at https://www.gov.uk/government/publications/environmental-permitting-ep-charges-scheme-april-2014-to-march-2015 or contact us using one of the options in section 10, for details of the current application fees. Please note that the charges are revised on 1 April each year.

Now fill in questions 6b to 6g.

6b Who can we contact about your billing or invoice?

Details as in question 1a and 1b

Details as in question 1c

Please give details below if different from question 1a and 1b or 1c.

Title (Mr, Mrs, Miss and so on)	
First name	L]
Last name	L]
Position	LJ

6 Payment, continue	d
Address	
Postcode	
Contact numbers, including the	he area code
Phone	
Fax	
Mobile	
Email	
6c What date do you want th (DD/MM/YYYY)	ne permit for this effluent to start?
Please note that this is the da contact us to change (delay) t	ate that your annual subsistence charges will start, even if you have not started to discharge, unless you the start date.
6d Is the discharge time limit	ited?
Yes D Please give the date (DD/MM/YYYY)	you expect the discharge to end
Please note that your permit v No \Box	will not end on that date and you will still need to notify us to surrender the permit.
6e Will the discharge take pl	lace all year?
Yes 🗌	
No 🗌 Please give details o the discharge	of the months when you will make
6f Will the discharge take pl	lace on more than six days in any year?
Yes 🗌	
No 🗌	
6g Tick below to show how y Cheque	you will make the payment.
Postal order	
Cash	
Credit or debit card	
Electronic transfer (for examp	
enclose your application refer	
Paying by credit or debit card	
	debit card, either we can call you or you can fill in the separate form CC1 and enclose it with the rour card details once we have processed your payment. We can accept payments by Visa, MasterCard or
Please call me to arrange pay	ment by credit or debit card \Box
I have enclosed form CC1 with	h my application
Paying by electronic transfer	
Company name	Environment Agency
Company address	SSCL (Environment Agency), PO Box 797, Newport Gwent, NP10 8FZ
Bank	RBS/Nat West
Address Sort code	London Corporate Service Centre, CPB Services, 2nd Floor, 280 Bishopsgate, London EC2M 4RB 60-70-80
Juit Coue	0070-00

Form EPB: Application for an environmental permit – Part B6.5 discharging up to 15m³ a day into ground or up to 20m³ a day to surface water

Account number	10014411
Account name	EA RECEIPTS
Payment reference number	PSCAPPXXXXXYYY

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

You should also email your payment details and reference number:

Remittance email ea_fsc_ar@sscl.gse.gov.uk

7 The Data Protection Act 1998

We, the Environment Agency, will process the information you provide so that we can:

- deal with your application;
- make sure you keep to the conditions of the licence, permit or registration;
- process renewals; and
- keep the public registers up to date.

We may also process or release the information to:

- offer you documents or services relating to environmental matters;
- consult the public, public organisations and other organisations (for example, the Health and Safety Executive, local authorities, the emergency services, the Department for Environment, Food and Rural Affairs) on environmental issues;
- carry out research and development work on environmental issues;
- provide information from the public register to anyone who asks;
- prevent anyone from breaking environmental law, investigate cases where environmental law may have been broken, and take any action that is needed;
- assess whether customers are satisfied with our service, and to improve our service; and
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (if the Data Protection Act allows).

We may pass the information on to our agents or representatives to do these things for us.

Now read section 8 below

8 Confidentiality and national security

Confidentiality

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential (see the guidance accompanying this form which explains what we mean by confidentiality).

You can ask for information to be made confidential by ticking the box below and enclosing a letter with your application giving your reasons (see the guidance accompanying this form which explains what we mean by confidentiality). 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.

Confidentiality is unlikely to be applicable for a small-scale sewage discharge except for information about ex-directory telephone numbers. In those cases please write to tell us that information should not go on the public register.

Only tick the box below if you wish to claim confidentiality for your application and have enclosed a letter stating your reasons. We will then have to assess your statement and therefore the progress of your application may take longer.

Please treat the information in my application as confidential. \Box

National security

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

You can find guidance on national security in 'Environmental permitting guidance: core guidance', published by Defra and available at gov.uk.

You cannot apply for national security via this application.

Now fill in section 9

9 Declaration

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

If you 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 2010.

A relevant person should make the declaration (see guidance notes on part B6.5). An agent acting on behalf of an applicant is NOT a relevant person.

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

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

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

Nar	ne
-----	----

Title (Mr, Mrs, Miss and so on)	
First name	L
Last name On behalf of (for example, if applying on behalf of a company – see guidance to this form)	
Position (if relevant, for example, in a company or organisation and so on)	I
Today's date (DD/MM/YYYY)	

10 How to contact us

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

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm) Textphone: 03702 422549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

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

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

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

11 Where to send your application (one copy of the application and each supporting document provided)

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

You must do the following:

Complete legibly all parts of this form that are relevant to you and your activities	
Identify relevant supporting information in the form and send it with the application	
Provide a plan that meets the standards given in the guidance note on part B6.5	
Provide a supporting letter for any claim that information is confidential	
Get the declaration completed by a relevant person (not an agent)	
Send the correct fee	

11 Where to send your application (one copy of the application and each supporting document provided), continued
Please send your filled-in application form to: Email: PSC-WaterQuality@environment-agency.gov.uk
Or Environment Agency Permitting and Support Centre Environmental Permitting Team Quadrant 2 99 Parkway Avenue Parkway Business Park Sheffield S9 4WF
Do you want all information to be sent to you by email?
Please tick this box if you wish to have all communication about this application sent via email (we will use the details provided in Part A).
Feedback
(You don't have to answer this part of the form, but it will help us improve our forms if you do.)
We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

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

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

L

Would you like a reply to your feedback?

Yes please

No thank you

For Environment Agency use only	
Date received (DD/MM/YYYY)	Payment received?
	No 🗌
Our reference number	Yes 🗌 Amount received
	f

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

Appendix 1 – Discharges to a river, stream, ditch or canal

If you are discharging to a river, stream, ditch or canal, you must answer questions 1.1 to 1.6 below.

1.1 Give the National Grid Reference of the discharge point (for example, ST 12345 67890)	
1.2 Give the name of the watercourse, canal or the main watercourse it is a tributary of if you know it	
1.3 Is the discharge into a	
(tick one)	
River, stream or ditch	
Canal	
1.4 Does the watercourse dry up for part of the year?	
No 🗆	
Yes Do you agree to install 10 metres of perforated pipe work before the discharge point?	
Yes 🗌	
No 🗌	
1.5 Does the discharge reach the watercourse or canal by fl	lowing through a surface water sewer?
Yes 🗌 Go to 1.6	
No 🗌	
1.6 Give the National Grid Reference where the discharge e the surface water sewer	nters

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Appendix 2 – D				
f you are dischargi	ng the effluent into land, you	must answer the releva	nt questions below.	
2.1 Give the Nation (for example, ST 12	al Grid Reference of the disch 345 67890)	narge point		
2.2 Is your infiltrat	on system new or existing?			
New 🗌 Nowg	o to question 2.4			
Existing 🗌 Now g	o to question 2.3			
2.3 When was it bu Now answer questi	ilt? ons 2.4–2.7 if you are able to	. If not go straight to 2.8		
2.4 Is your infiltrat time of installation		t to British Standards 6	97:2007 + A1:2008 or the	British Standards in force at th
Yes 🗌				
No 🗌	id you carry out a percolatior	n test and dig a trial hole	in line with British Standar	ds 6297:2007 + A1:2008?
No 🗌 2.5 On what date c		n test and dig a trial hole	in line with British Standar	ds 6297:2007 + A1:2008?
No 🔲 2.5 On what date o Date (DD/MM/YYY 2.6 What is your po	() rcolation value (Vp) result	n test and dig a trial hole لــــــــــــــــــــــــــــــــــــ	in line with British Standar	ds 6297:2007 + A1:2008?
No 🗌 2.5 On what date o Date (DD/MM/YYY 2.6 What is your po (in seconds per mil You must show in t	/) rcolation value (Vp) result imetre)?	ed out the percolation v]	ds 6297:2007 + A1:2008? Dur test sheets and any field no
No 2.5 On what date of Date (DD/MM/YYY 2.6 What is your po (in seconds per mil (ou must show in t	() rcolation value (Vp) result imetre)? ne table below how you work	ed out the percolation v]	
No 2.5 On what date of Date (DD/MM/YYY 2.6 What is your po (in seconds per mil You must show in t	() rcolation value (Vp) result imetre)? ne table below how you work de regarding ground conditic	ed out the percolation v	alue. Please also provide yo	our test sheets and any field n
No 2.5 On what date of Date (DD/MM/YYY 2.6 What is your po (in seconds per mil You must show in t or observations ma	() rcolation value (Vp) result imetre)? ne table below how you work de regarding ground conditic	ed out the percolation v	alue. Please also provide yo	our test sheets and any field n
No 2.5 On what date of Date (DD/MM/YYY 2.6 What is your per (in seconds per mil You must show in t or observations man Hole 1	() rcolation value (Vp) result imetre)? ne table below how you work de regarding ground conditic	ed out the percolation v	alue. Please also provide yo	our test sheets and any field n

p	× Vp	× 0.25 for septic tanks = A	
or			
p	× Vp	\times 0.20 for package treatment plants = A	

p Population based on maximum occupancy

Vp Percolation value in seconds/mm.

2.8 If known, mark on the plan you have provided in response to section 4 the extent of the infiltration system. Please write on the plan the length and width of the sides in metres.

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

Yes 🗆

No 🗌

Identify the location of the well, spring or borehole on the plan you have provided for section 4 and answer question 2.10.

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

Yes 🗆

No 🗆

You must describe in the space below what the water supplied is used for.

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

Yes 🗌

No 🗌

Identify the location of the watercourse on the plan you have provided for section 4 of the application form.

Appendix 3 – Discharges onto land

If you are discharging the effluent onto land, you must answer questions 3.1 to 3.6 below.

3.1 Give the National Grid Reference of the discharge point

(for example, ST 12345 67890)

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

Area type	Х
Unlined reed bed	
Unlined grass plot	
Unlined wetland	
Other (please specify below)	
3.3 What is the surface area (in square metres) of the land used for your disposal?	

3.4 Is any part of your discharge within 50 metres of a well, spring or borehole?

Yes □ No □

Identify the location of the well, spring or borehole on the plan you have provided and answer question 3.5

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

Yes 🗌

No 🗌

You must describe in the space below what the water supplied is used for.

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

Yes 🗌

No 🗌

Identify the location of the watercourse on the plan you have provided for section 4 of the application form.

Appendix 4 – Discharges to a borehole or well (or other deep structure)

If you are discharging the effluent to a borehole or well or other deep structure (such as a shaft, natural swallow hole or deep soakage pit), we will undertake a groundwater quantitative risk assessment on your behalf in line with the guidance (search for 'Groundwater risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency). You must ensure that the discharge is indirect to groundwater. Direct discharges to groundwater cannot be permitted.

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

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

4.1 Give the National Grid Reference of the discharge point (for example, ST 12345 67890)	
4.2 Is the discharge to ground via a well or a borehole?	
Well	
Borehole	
Other deep structure	
If you have ticked the box for 'other deep structure' please	
give details (e.g. concrete ring structure, shaft,	L
natural swallow hole, soakage pit etc).	
4.3 What is the diameter (in metres) of the borehole, well or other deep structure that the effluent will be discharged into?	
4.4 Is the borehole or well or other structure already constructed?	
Yes Please now answer questions 4.5 to 4.8	
No Delease now answer questions 4.9 to 4.11	
Existing borehole, well or other deep structure	
4.5 What is the total depth to the bottom of the existing well, borehole or other structure (in metres below ground level)?	
If you do not know the actual depth, please estimate it based on the	following categories:
0-5m	
5-10m	
Greater than 10m	
Uncertain	
What evidence is the estimated depth above based on?	
4.6 Does the well, borehole or other structure always contain standi	ng water or is water present occasionally?
Yes - always contains water 🛛	
Sometimes - water is present occasionally 🛛	
No - never contains water 🛛	
If groundwater is always, or sometimes, present, please tell us what below ground level)?	the highest level is that the standing water reaches (in metres
Measured / estimated (delete as appro	priate)
4.7 If you have any records, diagrams or borehole logs which could h	nelp us understand:
• the method of construction (including any solid casings or lining	s used)
• the likely depth of the deep structure	
• the local groundwater conditions	
please provide photocopies where possible. If this is not possible (for summarise any additional information you have on a separate sheet.	

Document reference for these details

Appendix 4 – Discharges to a borehole or well (or other deep structure), continued

4.8 Please tell us about any maintenance that has been carried out on your well, borehole or other deep structure, for example, to aid effective drainage.

Please now answer question 4.12.

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

4.9 Please tell us why you are unable to install a shallow engineered drainage system: this information forms an important part of our permit determination process. Which methods of shallow disposal have you considered and why were these considered unfeasible to take forward? Please answer questions 4.9 a and b below to provide the results of soakage tests and summarise in the box below any relevant information which supports your decisions e.g. permission refusals from land owners or physical constraints, or e.g. land availability or proximity to buildings.

a. What was your percolation value (Vp) result (in seconds per millimetre)?

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

b. If a shallow engineered drainage system were feasible, what would be the required surface area of your infiltration system

(in square metres)?

You can include any supporting information in relation to why you are unable to install a shallow-engineered drainage system with your application.

Document reference for these details

4.10 Please tell us the type of deep structure (for example, borehole, well, deep soakage pit) you propose to install and what the total depth will be in metres below ground level.

Form EPB: Application for an environmental permit – Part B6.5 discharging up to 15m³ a day into ground or up to 20m³ a day to surface water

Appendix 4 – Discharges to a borehole or well (or other deep structure), continued

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

Proximity of your discharge to other receptors

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

Yes D Please now answer question 4.13

No 🗌 Please now answer question 4.14

If yes, please show the location of the well spring or borehole you identified in answer to question 4.12 on the plan you have provided for Section 4 of the main application form.

4.13 Please tell us about the water supply (or supplies) used for drinking water or food production purposes identified in question 4.12 above e.g. the name of the property or properties served by the water supply, what they use the water for (drinking water, food production) and where they are in relation to your discharge.

4.14 Please tell us the distance in metres to the nearest watercourse (e.g. surface water, river, stream or ditch)

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

Appendix 4 – Discharges to a borehole or well (or other deep structure), continued

Please fill in Table 4A below.

Without this information we will be unable to carry out a hydrogeological risk assessment on your behalf.

Table 4A summarises the information which is required to allow us to undertake a hydrogeological risk assessment of your discharge to a deep infiltration system – without this information your application will be rejected. You will already have provided some of this information earlier in this application form. We also need you to provide additional information indicated by a tick (\checkmark) in Table 4A. To find out what further information is required please search for 'Groundwater risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency. You may require the advice of an environmental consultant to collate this information.

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

Information	Description	Existing Structure	Proposed Structure	Information Supplied?
Information supplied by the a	pplicant – this has already been requ	ested earlier in the app	lication form	
National grid reference of the discharge point.		Question 2c	Question 2c	
Volume of effluent (in m³/day)		Question 5d	Question 5d	
Type of effluent treatment	Septic Tank, Package Treatment Plant, Other	Question 5e	Question 5e	
Type of Deep Infiltration System	Borehole, Well, Concrete ring structure, other	Appendix 4 Q 4.2	Appendix 4 Q 4.2	Information you have
Diameter of Deep Infiltration System (in m)		Appendix 4 Q 4.3	Appendix 4 Q 4.3	already supplied on
Depth to the base of Deep Infiltration Structure (in m)		Appendix 4 Q 4.5	Appendix 4 Q 4.10	the application form.
Depth to Water Table (in m)	Is discharge above or below water table?	Appendix 4 Q 4.6 & Q4.7	Appendix 4 Q 4.11	
Justification for a DeepWhy are you unable to install a shallow infiltration system?Justification for a DeepWhat other options for disposal have been considered?Infiltration SystemProvide full details of the infiltration tests undertaken plus results.		Appendix 4 Q 4.7 – if available	Appendix 4 Q 4.9	

Information supplied by the applicant – this is additional information we need you to provide that is not covered elsewhere on the application form. Site data should be provided where it is already available, if not then relevant literature values can be submitted with the source of the data and justification of the values selected quoted.

Table continues on next page

Appendix 4 – Discharges to a borehole or well (or other deep structure), continued

Distance to compliance point (in m)	organisations/environment-agency.	*	*		al)
Mixing zone thickness (in m)	www.gov.uk/government/	*	*		otion
Soil water partition coefficient (in litres/kg)	these parameters please see 'Groundwater risk assessment for your environmental permit' at	*	*		ded (op
Half life for degradation of the substance (in days)	If you wish to know more about	*	*		f provi
Environmental Standard	The relevant environmental standard or compliance value against which we will assess your effluent discharge.	*	*		Tick to show if provided (optional)
	nvironment Agency where possible – cases we may need to ask for this at		e this information		∃
Saturated Zone Parameters	 These represents the strata below the water table Hydraulic Conductivity (as m/day) Water Filled Porosity (as a %) Bulk Density (as g/cm³) Hydraulic gradient of the water table (as a fraction) 	~	✓		nformation
Unsaturated Zone Parameters	These represents the strata above the water table • Hydraulic Conductivity (as m/day) • Water Filled Porosity (as a %) • Bulk Density (as g/cm ³)	~	\checkmark		his essential i
Calculated area of infiltration system (in m2)	Explain how the area of the infiltration system has been calculated – this is especially relevant if a non circular system is used.	~	~		Tick to confirm you have provided this essential information
Length of screened borehole section below the water table (in m)	Depth in metres of the borehole screened section which is below the water table. This only applies to boreholes which have groundwater in the base)	~	\checkmark		o confirm you l
Concentration of relevant substances entering the infiltration system	For discharges of domestic effluent we will routinely assess the concentration of Nitrogen species, particularly the ammonium concentration.	✓	✓	Tick to	

Appendix 5 – Discharges to tidal river, tidal stream, estuary or coastal waters

If you are discharging the effluent to tidal waters, you must answer questions 5.1 to 5.6 below.

5.1 Give the National Grid Reference of the discharge point (for example, ST 12345 67890)	
5.2 Give the name of the tidal river, tidal stream, estuary or area of coastal water if you know it	LJ
5.3 Is the discharge into a	
(tick one)	
Tidal river	
Tidal stream	
Estuary	
Coastal water	
5.4 Is the discharge point above the mean low water spring tide man	rk?
Yes 🗌	

No 🗌

Please explain, in the box below, why the discharge cannot be made below this point and continue on a separate sheet if necessary, giving a reference for the extra sheet.

Document reference for any extra sheet(s) used for question 5.4

5.5 Does the discharge reach the tidal river, tidal stream, estuary or area of coastal water by flowing through a surface water sewer?

Yes 🗌 Now go to question 5.6

No 🗌	
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5.6 Give the National Grid Reference where the discharge enters the surface water sewer (for example, ST 12345 67890)

Appendix 6 – Discharges to a lake or pond

If you are discharging the effluent to a lake or pond, you must answer questions 6.1 to 6.6 below

6.1 Give the National Grid Reference of the discharge point

(for example, ST 12345 67890)

6.2 Give the name of the lake or pond if you know it

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

Type of lake or pond	х	Relevant question(s)		
Lake or pond that does not discharge into a river or watercourse or another pond that then discharges into a river or a watercourse		Permit not required*		
Lake or pond that does not discharge into a river or watercourse or another pond that then discharges into a river or a watercourse, where you have had a notice served under paragraph 5 of Schedule 21 of the Environmental Permitting (England and Wales) Regulations 2010		6.4, 6.5		
Lake or pond that discharges into a river or watercourse		6.4, 6.5, 6.6		
Unless a notice has been served under Schedule 21 of the Environmental Permitting (England and Wales) Regulations 2010				

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6.4 What is the surface area of the lake or pond in square metres?

6.5 What is the maximum depth of the lake or pond in metres?

6.6 What is the average depth of the lake or pond in metres?