# Application for an environmental permit Part B6 – New bespoke water discharge activity and groundwater (point source) activity



Fill in this part of the form, together with parts A, B2 and F1, if you are applying for a new bespoke permit for a water discharge activity or a point source discharge groundwater activity. Please check that this is the latest version of the form available from our website.

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

The form can be:

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

If you want to apply for a standalone discharge of treated domestic sewage effluent of up to fifteen cubic metres (15m³) a day to ground or up to twenty cubic metres (20m³) a day to surface water, please fill in form B6.5.

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

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# About the effluent – details and type

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

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

#### Table 1 – About the effluent

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Sewage effluent (non-water company)	1.3.8 Sewage effluent discharge with a volume greater than 15 m³/day to groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, f	-	a, b	All	-	d, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)		All	a, b, c, d	b, f	-	a, b	All	b, c, d	d, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.10 Sewage effluent discharge with a volume greater than 5 m³/day up to and including 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, f		a, b	All	-	b*, e*	a, b, c, f*, g, h	All
	1.3.11 Sewage effluent discharge with a volume greater than 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, f	-	a, b	All	-	b*, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)		All	a, b, c, d	b, f	-	a, b	All	b, c, d	b*, c, e*	a, b, c, d*, e*, f*, g, h	All
Water company WwTW treated sewage effluent	1.3.8 Sewage effluent discharge with a volume greater than 15 m³/day to groundwater (not requiring specific substances assessment)		All	a, b	a, f (b is optional)	-	-	All	-	a, d, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)		All	a, b	a, f (b is optional)	-	-	All	a, b, c, d	a, d, e*	a, b, c, d*, e*, f*, g, h	All

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# Table 1 continued

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
	1.3.10 Sewage effluent discharge with a volume greater than 5 m³/day up to and including 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b	a, f (b is optional)	-	-	All	-	a, b*, e*	a, b, c, f*, g, h	All
	1.3.11 Sewage effluent discharge with a volume greater than 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b	a, f (b is optional)	-	-	All	-	a, b*, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)		All	a, b	a, f (b is optional)	-	-	All	a, b, c, d	a, b*, c, e*	a, b, c, d*, e*, f*, g, h	All
Settled storm sewage	1.3.19 Combined sewer overflow		All	a, b	-	a, b, c, d, f, g, h, i, j, k	-	All	-	a, b*, d*, e*	b, g, h	All
Storm sewage	1.3.19 Combined sewer overflow		All	a, b	-	a, b, c, e, f, g, h, i, j, k	-	All	-	a, b*, d*, e*	b, g, h	All
Emergency overflow	1.3.20 Emergency overflows		All	a, b	-	a, l, m, n, o	-	All	-	a, b*, d*, e*	b, g, h	All
Trade and/or non-sewage – known volume	1.3.12 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume up to and including 5 m³/day (not requiring specific substances assessment)		All	a, b, c, d	b, c, f		a, b	All	-	b*, d*, e*	b, f*, g, h	All
	1.3.13 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume greater than 5 m³/day (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	-	b*, d*, e*	b, d*, e*, f*, g, h	All
	1.3.14 Trade and/or non-sewage effluent discharge to surface water or groundwater requiring specific substances assessment (any volume)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d	b*, c, d*, e*	b, d*, e*, f*, g, h	All

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# Table 1 continued

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Trade and/or non-sewage – rainfall-dependent	1.3.12 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume up to and including 5 m³/day (not requiring specific substances assessment)		All	a, b	b, e, f	-	-	All	-	b*, d*, e*	b, f*, g, h	All
	1.3.13 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume greater than 5 m³/day (not requiring specific substances assessment)		All	a, b	b, e, f	-	-	All	-	b*, d*, e*	b, d*, e*, f*, g, h	All
	1.3.14 Trade and/or non-sewage effluent discharge to surface water or groundwater requiring specific substances assessment (any volume)		All	a, b	b, e, f	-	-	All	b, d	b*, c, d*, e*	b, d*, e*, f*, g, h	All
Mixed effluent (sewage combined with trade and/or	1.3.8 Sewage effluent discharge with a volume greater than 15m³/day to groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	-	d, e*	a, b, c, d*, e*, f*, g, h	All
non-sewage) – known volume	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d	d, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.10 Sewage effluent discharge with a volume greater than 5m³/day up to and including 50m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	-	b*, e*	a, b, c, f*, g, h	All
	1.3.11 Sewage effluent discharge with a volume greater than 50m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	-	b*, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d	b*, c, e*	a, b, c, d*, e*, f*, g, h	All

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# Table 1 continued

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Mixed effluent (sewage combined with trade and/ or non-sewage) containing rainfall- dependent effluent	1.3.8 Sewage effluent discharge with a volume greater than 15m³/day to groundwater (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	-	a, b	All	-	d, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d	d, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.10 Sewage effluent discharge with a volume greater than 5m³/day up to and including 50m³/day to surface water (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	-	a, b	All	-	b*, e*	a, b, c, f*, g, h	All
	1.3.11 Sewage effluent discharge with a volume greater than 50m³/day to surface water (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	-	a, b	All	-	b*, e*	a, b, c, d*, e*, f*, g, h	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d	b*, c, e*	a, b, c, d*, e*, f*, g, h	All
Trade – returned abstracted water (including ground	1.3.15 Cooling water or thermal discharge to surface water or groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	-	All	e, f	b*, d*, e*	a*, b, d*, e*, f*, g, h	All
source heating and cooling)	1.3.16 Cooling water or thermal discharge to surface water or groundwater requiring specific substances assessment		All	a, b, c, d	b, c, f	-	-	All	b, c, d, e, f	b*, c, d*, e*	a*, b, d*, e*, f*, g, h	All
	1.3.17 Aquaculture (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	-	All	-	b*, d*, e*	a*, b, d*, e*, f*, g, h	All
	1.3.18 Aquaculture requiring specific substances assessment		All	a, b, c, d	b, c, f	-	-	All	b, c, d	b*, c, d*, e*	a*, b, d*, e*, f*, g, h	All

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

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1 About the effluent – details and type	
1a Give a brief description of the effluent discharge you want a per	mit for, for example, treated domestic sewage effluent
1b Give this effluent a unique name You must use this name to identify this effluent throughout this appl	lication and all associated documents.
Name	
1c Please tick if this is a release from a dam, weir or sluice	
('reservoir release') under Schedule 21 of the EPR meaning	
of water discharge activity.	
2 About the effluent – how long will you need to dis	charge the effluent for?
2a What date do you want the permit for this effluent to start?	
(DD/MM/YYYY)	
Please note that this is the date that your annual subsistence charge contact us to change (delay) the start date (see the guidance notes of and cannot be changed (delayed) after it has already passed.	
2b Is the discharge time limited?	
Yes  Please give the date you expect the discharge to end but please note that your permit will not end on that date and you will still need to notify us to surrender the	
permit (DD/MM/YYYY)	
No 🗆	
2c Will the discharge take place all year?	
Yes □	
No Please give details of the months when you will make the discharge	
2d Will the discharge take place on more than six days in any year?	
Yes □	
No 🗆	
3 How much do you want to discharge?	
3a What is the daily dry weather flow (in cubic metres)?	
3b What is the maximum volume of effluent you will discharge in a day (in cubic metres)?	
Show how you calculated the figure given in the box below and cont	inua on a congreto choot if necessary giving a reference for the
extra sheet.	inde on a separate sneet if necessary, giving a reference for the
Document reference for any extra sheet or sheets used for	
question 3b	
3c What is the maximum rate of discharge (in litres a second)?	
3d What is the maximum volume of non-rainfall-dependent effluent you will discharge in a day (in cubic metres)?	

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3 How much do you want to discharge?, continued	
3e What is the maximum rate of rainfall-dependent discharge (in litres per second)?	
3f For each answer in question 3, show how you worked out the figure on a separate sheet	
Document reference of the extra sheet	
4 Intermittent sewage discharges	
4a For each answer to b to o below, show how you worked out the	figure on a separate sheet.
Document reference of the extra sheet	
4b What is the total volume of the off-line/storm tank storage (in cubic metres)?	
4c What is the total volume of on-line storage (in cubic metres)?	
4d What is the pass forward flow at the settled storm overflow setting (in litres per second)?	
4e What is the pass forward flow at the storm overflow setting (in litres per second)?	i
4f Is the discharge screened?	
Yes  Answer the relevant questions from 4g to 4i	
No ☐ Go to 4k	
4g What is the mesh screen spacing (in millimetres)?	
4h What is the minimum screen capacity flow through the	
mesh screen (in litres per second)?	
4i What is the bar screen spacing (in millimetres)?	
4j What is the minimum screen capacity flow through the bar screen (in litres per second)?	
4k Is the overflow constructed to good engineering design?	
Yes	
No  On a separate sheet explain what standards the overflow has been constructed to.	
Document reference of the extra sheet	
4l What is the emergency storage capacity of the sewer and wet well (in cubic metres)?	
4m What is the storage time within the sewer and the wet well above the top water level at dry weather flow (in hours and minutes)?	
4n What is the pass forward flow at the pumping station (in litres per second)?	
40 For intermittent emergency overflows you must provide a document setting out the key protection measures you will provide.	
Document reference for pumping station key protection measures	
5 Should your discharge be made to the foul sewer?	
Foul sewer means public or private foul sewer.	
Before answering these questions, you must read the guidance note	·
You will also need to contact your sewerage undertaker (usually your to connect to a private foul sewer.	r local water company) and you may need to check if it is possible
5a How far away is the nearest foul sewer from the boundary of the premises (in metres)?	
5b To assess whether it is reasonable to discharge your effluent into	o the foul sewer, please answer 5b1 or 5b2.
5b1 Discharges from domestic properties:	
Multiply the number of properties served by the sewage treatment s	ystem by 30 metres.
Number of domestic properties served by the sewage treatment system x 30 metres =	= metres

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5 Should your disc	charge be made to	the foul sewe	r?, continued		
5b2 Discharges from all or Divide the volume of the d	ischarge (in cubic metr	es) by 0.75 and tl	nen multiply this fig	ure by 30 meti	res.
Volume of the discharge (answer to question 3b)	cub	oic tres / 0.75 =	x 30 =		metres
Is your answer to question	5b1 or 5b2 above grea	ter than the dista	nce to the nearest fo	oul sewer (ans	swer to 5a)?
Yes □ No □					
If no, you do not need to exthis information from you				sewer at this p	oint. However, we may request
sheet. Before you submit t you have approached the	the application, you mu sewerage undertaker, in ng to a sewer compared	st explore the po ncluding their for	ssibility of connection mal response regard	ng to the foul s ding connectio	er, giving a reference for the extra sewer, and send us evidence that on, if relevant. You must also show ils of any physical obstacles such
We will only agree to the u	se of private treatment	systems within s	ewered areas if you	can demonsti	rate that:
<ul> <li>the additional cost of</li> </ul>	connecting to the foul	sewer would be ι	ınreasonable;		
<ul> <li>connection is not pra</li> </ul>	ctically feasible; or				
	treatment system can l	_	•		
,	• •		mation you need to	provide in ord	er to answer this question.
Document reference where	,				
We are unlikely to grant a peing proposed due to a la				stances where	e a private sewerage system is
6a Do you treat your efflu Yes ☐ Now go to questic No ☐ You must explain Document reference for wh 6b Fill in Table 2 for each	on 6b n why the effluent will n here you have given this	sjustification	our effluent in the o	rder in which t	hey are carried out
Table 2 – Treatments ca	arried out on your eff	luent			
Order of treatment	Code number	Description			
First					
Second					
Third					
Fourth					
process.	,	ws. If you prefer,	you can also send u	s an overall d	esign for the whole treatment
Document reference for th					
6c You must provide deta to achieve.	ails on a separate sheet	of the final efflu	ent discharge qualit	y that the ove	rall treatment system is designed
Document reference for th	e extra sheet				
7 What will be in t	he effluent?				
any of the specific substar to surface water or ground the relevant questions for	nces listed in the guidar lwater'– search for this your discharge below.	nce documents o term at www.gov	n 'Risk assessment .uk/government/org	for treated sev ganisations/er	your discharge is likely to contain wage or trade effluent discharges invironment-agency and answer of discharges to surface water or
groundwater' likely to enter  Yes   No   No					

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# Form EPB: Application for an environmental permit - Part B6 water discharge activity and groundwater (point source) activity 7 What will be in the effluent?, continued 7b Are any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' added to or present in the effluent as a result of the activities on the site? Yes 🗌 No $\square$ Have any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' been detected in samples of the effluent or in the sewerage catchment upstream of the discharge? No □ 7d Are there any other harmful or specific substances in your effluent not mentioned in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater'? Yes 🗌 No 🗌 7e Give the maximum temperature of your discharge in degrees Celsius The maximum expected temperature change compared to the incoming water supply Increase in degrees Celsius Decrease in degrees Celsius **Environmental risk assessments and modelling** You may need to carry out an environmental risk assessment or modelling to support your application. Please answer all the questions that are relevant to your discharge. If an environmental risk assessment or modelling is required, you must send it to us with your application. 8a Sewer modelling report (for discharges of final effluent from a water company WwTW or intermittent sewage discharges) You must carry out sewer modelling following the guidance 'Surface water pollution risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency. Send us details of how the modelling was carried out and the outcome. Document reference for the sewer modelling report 8b Discharges to lakes, estuaries, coastal waters or bathing waters You must carry out modelling following the guidance 'Surface water pollution risk assessment for your environmental permit' at www. gov.uk/government/organisations/environment-agency. Send us details of how the modelling was carried out and the outcome. Document reference for the modelling report 8c Discharges to freshwater (non-tidal) rivers If the discharge contains, or potentially contains, any specific substances, you must carry out screening following the guidance 'Surface water pollution risk assessment for your environmental permit' at www.gov.uk/government/organisations/environmentagency. The guidance notes on part B6 outline the information you must provide. Have you answered yes to any of 7a to 7d? Send us the completed screening tool, along with the raw data used to create the summary statistics. Document reference for the screening tool and raw data No □ 8d Discharges to groundwater You must carry out a groundwater quantitative risk assessment following the guidance in 'Groundwater risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency. Send us details of how the modelling was carried out and the outcome. For groundwater remediation schemes you must send us a site-specific remediation strategy that has been agreed with the local Environment Agency Groundwater and Contaminated Land Team.

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Document reference for the groundwater remediation report

Have you carried out an environmental impact assessment?

Document reference for the environmental impact assessment

Yes  $\square$  Send us details of how the assessment was carried out and the outcome.

8e Environmental impact assessment

No 🗌

9 Monitoring arrangements			
Note: If your effluent has a maximum volume of no		* *	, ,
9a What is the national grid reference of the inlet s			
9b What is the national grid reference of the efflue			
9c Do you have an Urban Waste Water Treatment [	Directi	ive final effluent sampling point?	
Yes Please provide the national grid reference (for example, SJ 12345 67890)			
No 🗆	٠.		
<ul><li>9d What is the national grid reference of the flow n</li><li>9e Does the flow monitor have an MCERTS certific.</li></ul>		oring point?	
Yes Please give the certificate number	ale:	ı	
No 🗆			
9f Do you have a UV disinfection efficacy monitor	ing po	oint?	
Yes $\square$ Please provide the national grid reference			
9g You should clearly mark on the plan the locatio	ns of	any of the above that apply to this effluen	t
Document reference for the plan	115 01		
9h Do you intend to do your own effluent monitoring	na?		
Yes	iig:		
No □			
10 Where will the effluent discharge to			
10a Mark in Table 3 where this effluent discharges You must use the name you gave to this effluent in			
or appendices.			,
Table 3 – Where the effluent discharges to			
Receiving environment	Х	Relevant appendix	
Borehole or well		1	
Into land (for example, through a drainage system)		2	
Onto land		3	
Tidal river, tidal stream, estuary or coastal waters		4	
Non-tidal river, stream or canal		5	
Lake or pond		6	
10b Is this effluent discharged through more than o	one o	utlet?	
No 🗆			
10c If yes, on a separate sheet, give details of the	circun	nstances under which each outlet would b	be used by this effluent
Document reference for this extra sheet		I	·
10d If you answered yes to question b above make	sure	you show clearly on your discharge point	appendix or appendices and site
plan that this one effluent can discharge to more th	an on	e discharge point	
You must give us all the details we need for each of	the d	ischarge points used by this effluent.	
11 How to contact us			
If you need help filling in this form, please contact t	he pe	rson who sent it to you or contact us as sh	nown below.
General enquiries: 03708 506 506 (Monday to Frida	ay, 8a	m to 6pm)	
Textphone: 03702 422 549 (Monday to Friday, 8am	to 6p	m)	
Fmail: enquiries@environment-agency gov uk			

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.

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

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### 11 How to contact us, continued

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.

<b>Feedback</b>
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(You don't have to answer this part of the form, but it will help us in	nprove our forms if you do.)
We want to make our forms easy to fill in and our guidance notes eacomments you may have about this form or the guidance notes that	
How long did it take you to fill in this form?	
We will use your feedback to improve our forms and guidance note: made simpler.	s, and to tell the Government how regulations could be
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
I	

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

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

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

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

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

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

1 Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)		
2 Give the national grid reference of the discharge point		
3 Is the discharge to ground via a		
Well		
Borehole		
Other deep structure		and a second of a street was about most one and a second as all as
If you have ticked the box for 'other deep structure' please give det hole or soakage pit).	alls (for exar	mple, concrete ring structure, snart, natural swallow
What is the diameter of the borehole, well or other deep structure that the effluent will be discharged into (in metres)?		
5 Is the borehole, well or other structure already constructed?		
Yes Now answer questions 6 to 9		
No Now answer questions 10 to 12.		
Existing borehole, well or other deep structure		
6 What is the total depth to the bottom of the existing well, borehole or other structure (in metres below ground level)?		
If you are unaware of the actual depth please estimate the depth b	ased on the	following categories:
0–5 metres	П	
5–10 metres		
Greater than 10 metres		
Uncertain		
What evidence is the estimated depth above based on?		
<ul> <li>Does the well, borehole or other structure extend into groundw</li> </ul>	vater?	
Yes – always contains water		
Sometimes – water is present occasionally		
No – never contains water		
If groundwater is always, or sometimes, present, what is the highest level that the standing water reaches		
(in metres below ground level)?		Measured/estimated (delete as appropriate)
8 Please provide any records, diagrams or borehole logs you ma	y have that c	could help us understand:
• the method of construction (including any solid casings or lining	ngs used); aı	nd
• the likely depth of the deep structure; and		

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the local groundwater conditions.

Appendix	( 1 – Discharges	to a borehole or v	vell (or other deep str	ucture such as a mine	eshaft), continued		
any additio	nal information you	have on a separate she	eet.	he documents are large or l	oulky) please summarise		
Document reference number for the records, diagrams or borehole logs							
9 If any n	naintenance has bee	en carried out on your v	well, borehole or other dee	p structure (for example, to	aid effective drainage),		
please give	details below.						
Please now	answer question 13	3.					
Proposed	borehole, well or	other deep structure	e that has not yet been o	constructed			
our permit of feasible to relevant inf availability 10a What w	determination proce take forward? Please	ss. Which methods of e answer questions 10a g your decisions (for ex lings).	shallow disposal have you a and 10b to provide the re	ystem. This information for considered, and why did yo sults of soakage tests and s from landowners or phys	ou decide these were not summarise in the box any		
	•	ou worked out the per	colation value.				
	ercolation value						
	Tria	ıl 1	Trial 2	Trial 3	Average		
Hole 1							
Hole 2							
Hole 3							
Hole 4							
10b If a sha		inage system were fea	sible, what would be the re	equired surface area of you	r infiltration system (in		
application	•		to install a shallow engine	eered drainage system can	be appended to your		
	reference number for						
well or deep		eep structure (for exam ropose to install and w low ground level.					
levels, plea discharge is	se also tell us the de	epth to groundwater (in Indwater? If the discha	n metres below ground leve	of any relevant existing info el). What measures will you lwater explain why you can	undertake to ensure the		
•		to other receptors	and a disclosure of the first	911 ha marda a 2012 - 50	and a firm and the same of the		
			e the discharge is being/w food production purposes	ill be made within 50 metre??	es of any other well, spring		
Yes 🗌							
No $\square$	Please now answer question 15						

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

If yes, please show the location of the well, spring or borehole you identified in answer to question 13 on the plan you have provided for section 4 of the main application form.

14 Please tell us about the water supply (or supplies) used for drinking water or food production purposes identified in question 13

food production) and where they are in relation to your discharge.					
15 What is the distance in metres to the nearest watercourse (for example, surface water, river, stream or ditch)?					
Please tell us whether you have considered discharging to surface water and if so, why this is not feasible.					

In Table 5 please provide any further information required for us to complete a groundwater quantitative risk assessment on your behalf in line with the guidance 'Groundwater risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency. Without this information we will be unable to carry out a hydrogeological risk assessment on your behalf.

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

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

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

Information	Description	Existing structure	Proposed structure	Information supplied?
Information supplied by the appl This has already been requested				
National grid reference of the discharge point		Appendix 1 Q2	Appendix 1 Q2	
Volume of effluent (m³ per day)		Q3b	Q3b	
Type of effluent treatment	Septic tank, package treatment plant, other	Q6	Q6	
Type of deep infiltration system  Borehole, well, concrete ring structure, other		Appendix 1 Q3	Appendix 1 Q3	Information you have
Diameter of deep infiltration system (metres)		Appendix 1 Q4	Appendix 1 Q4	already supplied on
Depth to the base of deep infiltration structure (metres)		Appendix 1 Q6	Appendix 1 Q11	the application form
Depth to water table (metres)	Is discharge above or below water table?	Appendix 1 Q7, Q8	Appendix 1 Q12	
Why are you unable to install a shallow infiltration system?  What other options for disposal have been considered?  Provide full details of the infiltration tests undertaken plus results		Appendix 1 Q8 if available	Appendix 1 Q10	

Table continues on next page

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

Information supplied by the applicant This is additional information we need from you that is not provided elsewhere on the application form. Site data should be given where it is already available. If not, you can submit the relevant literature values quoting the source of the data and justification of the values you have selected. Please tick the right-hand column to confirm you have provided this essential information.						
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	<b>√</b>	<b>√</b>			
Length of screened borehole section below the water table (metres)	Depth in metres of the borehole screened section that is below the water table (This applies only to boreholes that have groundwater in the base)	<b>~</b>	<b>√</b>			
Calculated area of infiltration system (square metres)	Explain how the area of the infiltration system has been calculated – this is especially relevant if a non-circular system is used	<b>√</b>	✓			
Unsaturated zone parameters	The following represent the strata above the water table:  • hydraulic conductivity (metres per day)  • water-filled porosity (per cent)  • bulk density (grammes per cubic centimetre)	<b>√</b>	✓			
Saturated zone parameters	The following represent the strata above the water table:  • hydraulic conductivity (metres per day)  • water-filled porosity (per cent)  • bulk density (grammes per cubic centimetre)  • hydraulic gradient of the water table (fraction)	<b>~</b>	<b>√</b>			
Information provided by the Environment Agency where possible You are free to provide this information if you wish, or in some specific cases we may need to ask for this at a later stage. Please tick if you have provided this information (optional).						
Environmental standard	The relevant environmental standard or compliance value against which we will assess your effluent discharge	*	*			
Half-life for degradation of the substance (days)	If you wish to know more about these	*	*			
Soil water partition coefficient (litres per kilogramme)	parameters see 'Groundwater risk assessment for your environmental	*	*			
Mixing zone thickness (metres)	permit' at www.gov.uk/government/	*	*			
Distance to compliance point (metres)	organisations/environment-agency	*	*			

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# Appendix 2 - Discharges into land

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

1 Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)							
	_			point			
-	on syst	em new or existin	ıg:	_	7 Ma	to acception 5	
New				L	_	to question 5	
Existing				L	] Now go	to question 4	
4a When was it bu		. Г. О :f.,,а,, ака ак	lata if m		ماد مسط مم	to supplier 0	
4b Now answer qu 5 Is your infiltrati time of installation?	on syst					+ A1:2008 or the British St	andards in force at the
Yes	•						
	vida da	taile on a conara	to choot	of the decign crite	ria usad f	or your infiltration system	
•		·	ie sneet, i	or the design crite	iia useu i	or your minutation system	
Document		ce carry out a percol	ation tost	and dig a			
trial hole in line with Date (DD/MM/YYY)	h Britisl						
		on value (Vp) resu					
millimetre)? You mu		v in the table belo	w how yo	u worked			
out the percolation		oct choote and an	ufiold not	os or observation	c made re	egarding ground conditions	
riease also provide	your te	est sheets and an	y neta not	es of observation	5 made re	garding ground conditions	· 
		Trial 1		Trial 2		Trial 3	Average
Hole 1							
Hole 2							
Hole 3							
Hole 4							
8 Please show us	s how yo	ou have calculate	d the area	(A) of your infiltra	ation syst	em (in square metres).	
р	× Vp		× 0.25 fo	r septic tanks = A			
or							
р	× Vp	× Vp × 0.20 for package treatment plants = A					
p Population based on maximum occupancy							
Vp Percolation value in seconds/mm.							
9 If known, mark of the sides in metr		plan you have pro	ovided the	e extent of the infi	ltration sy	stem. Please write on the	plan the length and width
10 Is any part of your infiltration system within 50 metres of a well, spring or borehole?							
No □							
Yes  Identify the location of the well spring or borehole on the plan you have provided and answer question 11.							
11 Is the well spring or borehole you have identified used to supply water?							
No □							
Yes 🗌 You must describe what the water supplied is used for.							
12 Is any part of your infiltration system within 10 metres of a watercourse?							
Yes □							
No 🗆							
dentify the location of the watercourse on the plan you have provided for section 4 of part B2							

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# Appendix 3 - Discharges onto land

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

1 Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)	
2 Give the national grid reference of the discharge point	
3 Select from the table below the type of area where the effl	uent is disposed of
Area Type	
Unlined reed bed	
Unlined grass plot	
Unlined wetland	
Other	pelow
4 What is the surface area of the land used for your disposal (in square metres)?	
5 Is any part of your infiltration system within 50 metres of a No $\Box$	well, spring or borehole?
Yes $\ \square$ Identify the location of the well spring or borehole on	the plan you have provided and answer question 6.
6 Is the well spring or borehole you have identified used to s	upply water?
No 🗆	
Yes $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	
7 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 p	rovided for section 4 of part B2.

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

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

1 Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)	
2 Give the national grid reference of the discharge point	1
3 Give the name of the tidal river, tidal stream, estuary or area of coastal water if you know it	
4 Is the discharge into a	
Tidal river	
Tidal stream	
An estuary	
Coastal water	
5 Does the discharge reach the watercourse by flowing through a surface water sewer?	
Yes  Give the national grid reference where the discharge enters the surface water sewer	L
No 🗆	
6 Is the discharge point above the mean low water spring tide mar	k?
Yes $\square$ Please explain, on a separate sheet, why the discharge can	not be made below this point
Document reference	
No 🗆	
7 How is the effluent dispersed? For example, open pipe or diffuser system	
If diffuser system go to question 8	
8 Give details, on a separate sheet, of the design of the diffuser sy	ystem
Document reference	
Appendix 5 – Discharges to non-tidal river, stream or of Answer all the questions below. Use a separate line for each effluent Remember, when linking your effluent to a discharge point you must in the effluent form.  1 Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)	t if more than one effluent discharges using this discharge point.
2 Give the national grid reference of the discharge point	
3 Give the name of the watercourse, canal or the main	
watercourse it is a tributary of if you know it	L
4 Is the discharge into a	
Non-tidal river	
Stream	
Canal	
5 Does the discharge reach the watercourse or canal by flowing th	rough a surface water sewer?
Yes $\square$ Give the national grid reference where the discharge enters the surface water sewer	L
No 🗆	
6 Does the watercourse dry up for part of the year?	
Yes □	
No 🗆	

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# Appendix 6 - Discharges to a lake or pond

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

	Give the discharge point a unique name rexample 'Outlet 1' (you must use this name to identify the scharge point on the plan)		
2	Give the national grid reference of the discharge point		
3	Give the name of the lake or pond if you know it		
4	Select from the following table the type of lake or pond you will	be discharging to	and answer the relevant questions
T	ype of lake or pond		Relevant questions
	ake or pond which does not discharge into a river or watercourse or nother pond which discharges into a river or watercourse		Permit not required*
a h	ake or pond which does not discharge into a river or watercourse or nother pond which discharges into a river or watercourse where you lave had a notice served under paragraph 5 of Schedule 21 of the nvironmental Permitting (England and Wales) Regulations 2010		5, 6, 7
L	ake or pond which discharges into a river or watercourse		5, 6, 7
	nless a Notice has been served under paragraph 5 of Schedule 2 gulations 2010	1 of the Environme	ental Permitting (England and Wales)
5	What is the surface area of the lake or pond (in square metres)?		
6	What is the maximum depth of the lake or pond (in metres)?		
7	What is the average depth of the lake or pond (in metres)?	1	

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