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:

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

If you want to apply for a standalone discharge of treated domestic sewage effluent of up to fifteen cubic metres (15 m³) a day to ground or up to twenty cubic metres (20 m³) 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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1 About the effluent – details and type

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

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

Table 1 – About the effluent

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Sewage effluent (non-water company)	1.3.8 Sewage effluent discharge with a volume greater than 15 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
	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

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Table 1 – About the effluent, continued

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
	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, c, d	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, c, d	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
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, c, d	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, c, d	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

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Table 1 – About the effluent, 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) –	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, c, f	-	a, b	All	b, c, d	d, e	a, b, c, d*, e*, f*, g, h	All
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 5 m³/day up to and including 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d	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, c, f	-	a, b	All	b, c, d	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, d	a, b, c, d*, e*, f*, g, h	All
Mixed effluent (sewage combined with trade and/or non-sewage)	1.3.8 Sewage effluent discharge with a volume greater than 15 m³/day to groundwater (not requiring specific substances assessment)		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
containing rainfall- dependent effluent	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 5 m³/day up to and including 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d	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	b, c, d, e, f	-	a, b	All	b, c, d	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

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Table 1 – About the effluent, continued

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Trade – returned abstracted water (including ground source heating and	1.3.15 Cooling water or thermal discharge to surface water or groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	-	All	b, c, d, e, f	b*, d*, e*	a*, b, d*, e*, f*, g, h	All
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, c, d	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

^{*} 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	Ab	out the effluent – details and type, continued		
1a	Giv	e a brief description of the effluent discharge you want a pern	nit for, for example, treated dom	estic sewage effluent
1b You i		e this effluent a unique name	Lation and all accordated docume	
you i 1c		use this name to identify this effluent throughout this applic his a release from a dam, weir or sluice ('reservoir release') ur		
Yes	S ti	ils a release nom a dam, wen or stuice (reservou release / ar	fluer schedule 21 of the LFK med	Allilig of water discharge activity.
No				
1d (see		ve you obtained all the necessary permissions in addition to t ruidance notes for more details)?	this environmental permit to be a	able to carry out the discharge
Yes				
No N/A				
			the effect that	
2		out the effluent – how long will you need to disc	charge the entuent for:	~- / h
2a		at date do you want the permit for this effluent to start?		(DD/MM/YYYY)
cont	act u	ote that this is the date that your annual subsistence charges is to change (delay) the start date (see the guidance notes on e changed (delayed) after it has already passed.		
2b	Is th	he 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		the permit		
2c	Will	I the discharge take place all year?		
Yes				
No		Please give details of the months when you will make the discharge	1	
2d	Will	the discharge take place on more than six days in any year?		
Yes				
No				
3	Ho	w much do you want to discharge?		
3a	Wha	at is the daily dry weather flow?		cubic metres
3b in a d		at is the maximum volume of effluent you will discharge	1	cubic metres
Shov	,	w you calculated the figure given in the box below and continet	ue on a separate sheet if necess	

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3	How much do you want to discharge?, continued		
Docu	ment reference		
3c	What is the maximum rate of discharge?		litres a second
3d efflu	What is the maximum volume of non-rainfall dependent ent you will discharge in a day?		cubic metres
3e	What is the maximum rate of rainfall dependent discharge?		litres a second
3f	For each answer in question 3, show how you worked out the fig	gure on a separate sheet	
Docu	ment reference		
4	Intermittent sewage discharges		
4a	For each answer to $\ensuremath{\mathbf{b}}$ to o below, show how you worked out the	figure on a separate sheet	
Docu	ment reference		
4b	What is the total volume of the off-line/storm tank storage?		cubic metres
4c	What is the total volume of on-line storage?		cubic metres
4d settii	What is the pass forward flow at the settled storm overflow ng?		litres per second
4e	What is the pass forward flow at the storm overflow setting?		litres per second
4f	Is the discharge screened?		
Yes No	Answer the relevant questions from 4g to 4jNow go to 4k		
4g	What is the mesh screen spacing?		millimetres
4h mesl	What is the minimum screen capacity flow through the a screen?		litres per second
4i	What is the bar screen spacing?		millimetres
4j scree	What is the minimum screen capacity flow through the baren?		litres per second
4k Yes	Is the overflow constructed to good engineering design?		
No	On a separate sheet explain what standards the overflow	nas been constructed to	
Docu	ment reference		
4l wet v	What is the emergency storage capacity of the sewer and vell?		cubic metres
4m abov	What is the storage time within the sewer and the wet well e the top water level at dry weather flow?		hours and minutes
4n	What is the pass forward flow at the pumping station?		litres per second
40	For intermittent emergency overflows you must provide a docur	nent setting out the key protectior	n measures you will provide
Docu	ment 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.		
Befo	re answering these questions, you must read the guidance notes	s to part B6.	
	vill also need to contact your sewerage undertaker (usually your ect to a private foul sewer.	local water company) and you ma	y need to check if it is possible to
5a of th	How far away is the nearest foul sewer from the boundary e premises?		metres
5b	To assess whether it is reasonable to discharge your effluent in	to the foul sewer, please answer 5	b1 or 5b2

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Should your discharge be made to the foul sewer?, continued 5 5b1 Discharges from domestic properties Multiply the number of properties served by the sewage treatment system by 30 metres. Number of domestic properties served by the sewage treatment system \times 30 metres = metres 5b2 Discharges from all other premises including trade effluent Divide the volume of the discharge (in cubic metres) by 0.75 and then multiply this figure by 30 metres. Volume of the discharge cubic (answer to question 3b) metres / 0.75 = \times 30 = metres Is your answer to question 5b1 or 5b2 above greater than the distance to the nearest foul sewer (answer to 5a)? You do not need to explain why you cannot discharge your effluent into the foul sewer at this point. However, we may request this information from you when we determine your application. Now go to question 6. You must explain on a separate sheet why you cannot discharge your effluent into the foul sewer, giving a reference for the Yes П extra sheet. Before you submit the application, you must explore the possibility of connecting to the foul sewer, and send us evidence that you have approached the sewerage undertaker, including their formal response regarding connection, if relevant. You must also show the extra cost of connecting to a sewer compared with the treatment system you propose, and details of any physical obstacles such as roads, railways, rivers or canals. We will only agree to the use of private treatment systems within sewered areas if you can demonstrate that: the additional cost of connecting to the foul sewer would be unreasonable connection is not practically feasible, or the proposed private treatment system can be shown to significantly benefit the environment We are unlikely to grant a permit for a discharge of treated domestic sewage in circumstances where a private sewerage system is being proposed due to a lack of capacity in the nearest public sewerage network. The guidance notes to part B6 will help you understand what information you need to provide in order to answer this question. Document reference for where you have given this justification How will the effluent be treated? 6 Do you treat your effluent? 6a Yes Now go to question 6b You must explain why the effluent will not be treated No Document reference for where you have given this justification Fill in Table 2 for each stage of the treatments carried out on your effluent in the order in which they are carried out Table 2 - Treatments carried out on your effluent Order of treatment Code number Description First Second Third Fourth Continue on a separate sheet if you need more rows. If you prefer, you can also send us an overall design for the whole treatment process. Document reference You must provide details on a separate sheet of the final effluent discharge quality that the overall treatment system is designed to achieve Document reference

7 What will be in the effluent?

For all applications, whether to surface water, or onto or into ground, you should still check to see if your discharge is likely to contain any of the specific substances listed in the guidance documents on 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' – search for this term at www.gov.uk/government/organisations/environment-agency and answer the relevant questions for your discharge below.

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7 What will be in the effluent?, continued

	Are any of the specific substances listed in 'Risk assessment for ndwater' likely to enter the sewerage system upstream of the disc		
Yes			
No			
7b grou Yes No	Are any of the specific substances listed in 'Risk assessment for ndwater' added to or present in the effluent as a result of the acti		discharges to surface water or
7c	Have any of the specific substances listed in 'Risk assessment for		
	ndwater' been detected in samples of the effluent or in the sewer	rage catchment upstream of the c	discharge?
Yes No			
7d	Are there any other harmful or specific substances in your efflue	int not mantioned in 'Rick access	ment for treated sewage or trade
	ent discharges to surface water or groundwater??	in not mentioned in Kisk assess	mient for treated sewage of trade
Yes			
No			
7e	What is the maximum temperature of your discharge?		degrees Celsius
7f comi	What is the maximum expected temperature change pared to the incoming water supply?	1	increase in degrees Celsius
•	,		decrease in degrees Celsius
8	Environmental risk assessments and modelling		, and the second
			. Diago amourovalitha muostiama
that	may need to carry out an environmental risk assessment or mode are relevant to your discharge. If an environmental risk assessme ication.		
	Sewer modelling report (for discharges of final effluen harges)	t from a water company Ww	TW or intermittent sewage
disc You r	<u> </u>	rater pollution risk assessment fo	or your environmental permit' at
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disc Your www Docu 8b Your Docu Have Yes Docu No Your Forg	must carry out sewer modelling following the guidance 'Surface was gov.uk/government/organisations/environment-agency. Send use ment reference for the sewer modelling report Discharges to lakes, estuaries, coastal waters or bathing must carry out modelling following the guidance 'Surface water power, gov.uk/government/organisations/environment-agency. Send use ment reference for the modelling report Discharges to freshwater (non-tidal) rivers edischarge contains, or potentially contains, any specific substant repollution risk assessment for your environmental permit' at www.ance notes on part B6 outline the information you must provide. Eyou answered yes to any of 7a to 7d? Send us the completed screening tool, along with the raw of the complete of the screening tool and raw data Discharges to groundwater must carry out a groundwater quantitative risk assessment follow commental permit' at www.gov.uk/government/organisations/environmental permit' at www.gov.uk/government/organisations/enviro	vater pollution risk assessment for some details of how the modelling waters ollution risk assessment for your is details of how the modelling waters of how the modelling waters, you must carry out screening waters, you must carry out screening waters of the summary of the guidance in 'Groundwate vironment-agency. Send us detail	environmental permit' at as carried out and the outcome. environmental permit' at as carried out and the outcome. g following the guidance 'Surface ons/environment-agency. The statistics r risk assessment for your is of how the modelling was

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8 Environmental risk assessments and modelling, continued

							
8e	Environmental impact assessment						
Have	Have you carried out an environmental impact assessment?						
Yes	Send us details of how the assessment was carried out an	d the ou	ıtcome				
	ment reference for the environmental impact assessment						
No							
9	Monitoring arrangements						
Note	: If your effluent has a maximum volume of no more than 50 cubi	c metre	s a day you do not need to complete question 9d or 9e.				
9a poin	What is the national grid reference of the inlet sampling t? (for example, SJ 12345 67890)						
9b poin	What is the national grid reference of the effluent sample t?						
9c	Do you have an Urban Waste Water Treatment Directive final eff	luent sai	mpling point?				
Yes	Please provide the national grid reference						
No							
9d point	What is the national grid reference of the flow monitoring t?	ı					
9e	Does the flow monitor have an MCERTS certificate?						
Yes	☐ Please give the certificate number						
No							
9f	Do you have a UV disinfection efficacy monitoring point?						
Yes	Please provide the national grid reference						
No o~	Vou should clearly mark on the plan the leastions of any of the	hovo th	not apply to this offlyant				
9g	You should clearly mark on the plan the locations of any of the a	above tri	iat apply to this entuent				
	ment reference for the plan						
9h Yes	Do you intend to do your own effluent monitoring?						
No							
10	Where will the effluent discharge to?						
	Mark in Table 3 where this effluent discharges to and fill in the r	elevant :	annendiy or annendices				
	must use the name you gave to this effluent in answer to question						
	endices.	11 15 01 0	inis form when mains in your relevant appendix or				
Tab	le 3 – Where the effluent discharges to						
Rece	eiving environment		Relevant appendix				
Bore	phole or well		1				
Into	land (for example, through a drainage system)		2				
Onto	o land		3				
Tida	l river, tidal stream, estuary or coastal waters		4				
Non	-tidal river, stream or canal		5				
Lake	e or pond		6				
10b	Is this effluent discharged through more than one outlet?						
Yes	Give details, on a separate sheet, of the circumstances und	der whic	ch each outlet would be used by this effluent				
Docu	iment reference						
No							
	If you answered yes to question 10b above make sure you show that this one effluent can discharge to more than one discharge		on your discharge point appendix or appendices and site				

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

11 How to contact us

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

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

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

Email: enquiries@environment-agency.gov.uk

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

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

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

Feedback

You don't have to answer this part of the form, but it will help us improve our forms if you do.)					
We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.					
How long did it take you to fill in this form?	-				
We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.					
Would you like a reply to your feedback?					
∕es please □					
No thank you					

Crystal Mark 19107	
19107 Clarity approv Plain English	ed by n Campaign

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

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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

the chacheronn.	
1.1 Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)	
1.2 Give the national grid reference of the discharge point	
1.3 Is the discharge to ground via a	
Well	
Borehole	
Other deep structure	☐ Please give details (e.g. concrete ring structure, shaft, natural swallow hole, soakage pit etc)
1.4 What is the diameter of the borehole, well or other deep structure that the effluent will be discharged into?	metres
 1.5 Is the borehole, well or other structure already constructed? Yes Now answer questions 1.6 to 1.9 No Now answer questions 1.10 to 1.12 	
Existing borehole, well or other deep structure	
1.6 What is the total depth to the bottom of the existing well, borehole or other structure?	metres below ground level
If you are unaware of the actual depth please estimate the depth base	ed on the following categories:
0–5 metres	
5–10 metres	
Greater than 10 metres	
Uncertain	
What evidence is the estimated depth above based on?	
1.7 Does the well, borehole or other structure extend into groundwa	ater?
Yes – always contains water	
Sometimes – water is present occasionally	
No – never contains water	
If groundwater is always, or sometimes, present, what is the highest \boldsymbol{l}	evel that the standing water reaches?
Measured	metres below ground level
Estimated	metres below ground level

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

- 1.8 Please provide any records, diagrams or borehole logs you may have that could help us understand:
- the method of construction (including any solid casings or linings used)
- the likely depth of the deep structure

What will the total depth be?

,	groundwater conditions			
			r example, if the documents	are large or bulky) please summarise any
	ormation you have on a	·		
		iagrams or borehole logs		
1.9 If any m please give de		rried out on your well, boreho	ole or other deep structure (fo	or example, to aid effective drainage),
Please now a	nswer question 1.13			
Proposed be	orehole, well or othe	r deep structure that has	not yet been constructe	ed .
1.10 Please t	ell us why you are unabl	e to install a shallow enginee	ered drainage system. This in	formation forms an important part of our
				hy did you decide these were not akage tests and summarise in the box
any relevant i	nformation supporting y			owners or physical constraints, or land
availability or	proximity to buildings).			
1.10a What	t was your percolation va	lue (Vn) result?		seconds per millimetre
		rked out the percolation valu	P	seconds per minimetre
	ercolation value	inca out the percolation valu	.	
Table 4 - Pt		Trial 2	Trial 3	Average
	Trial 1	Iffat 2	IIIdi 3	Average
Hole 1				
Hole 2				
Hole 3				
Hole 4				
		age system were feasible,		
system?	e the required surface ar	ea of your inflitration	ı	ı square metres
•	formation to explain why	vou are unable to install a s	hallow engineered drainage:	system can be appended to your
application.	Tomacion to oxprain mi	, you are analyse to motal a s	manion ongmoored diamage.	system can be appended to you.
Document ref	erence for these details			
1.11 Please t	ell us the type of deep s	tructure (for example, boreho	ole, well, deep soakage pit) yo	ou propose to install

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metres below ground level

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

.12 Please tell us the reason this depth has been selected and, if you are aware of any relevant existing information on local water evels, please also tell us the depth to groundwater (in metres below ground level). What measures will you undertake to ensure the ischarge is not direct into groundwater? If the discharge will be direct to groundwater explain why you cannot make it indirect. Direct ischarges to groundwater cannot be permitted.
Proximity of your discharge to other receptors
.13 Is the borehole, well or other deep structure where the discharge is being/will be made within 50 metres of any other well, spring r borehole used to supply water for drinking water or food production purposes?
es Please show the location of the well, spring or borehole you identified in answer to question 1.13 on the plan you have provided for section 4 of the main application form. Please now answer question 1.14
o 🔲 Please now answer question 1.15
.14 Please tell us about the water supply (or supplies) used for drinking water or food production purposes identified in question 1.13 bove; for example, the name of the property or properties served by the water supply, what they use the water for (drinking water, food roduction) and where they are in relation to your discharge
.15 What is the distance to the nearest watercourse for example, surface water, river, stream or ditch)?
lease tell us whether you have considered discharging to surface water and why this is not feasible
n Table 5 please provide any further information required for us to complete a groundwater quantitative risk assessment on your behalf

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.

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

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

nformation Description		Existing structure	Proposed structure	Information supplied?			
Information supplied by the applicant This has already been requested earlier in the application form							
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			
Diameter of deep infiltration system (metres)		Appendix 1 Q4	Appendix 1 Q4	you have already supplied on			
Depth to the base of deep infiltration structure (metres)				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? Justification for a doop infiltration. What other options for disposal have been a Appendix 1.08		Appendix 1 Q10					
This is additional information we nealready available. If not, you can su	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		✓	✓				
Length of screened borehole section below the water table (metres) Depth in metres of the borehole screened section that is below the water table (This applies only to boreholes that have groundwater in the base)		✓ ✓ ✓					
Calculated area of infiltration system (square metres) Explain how the area of the infiltration system has been calculated – this is especially relevant if a non-circular system is used		✓ ✓					
Unsaturated zone parameters Unsaturated zone parameters The following represent the strata above the water table: hydraulic conductivity (metres per day) water-filled porosity (per cent) bulk density (grammes per cubic centimetre)		✓					
Saturated zone parameters	The following represent the strata 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)	✓	√				

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

Information	Description	Existing structure	Proposed structure	Information supplied?
Information provided by the Envir You are free to provide this inform provided this information (option	ation if you wish, or in some specific cases we may i	need to ask for this at	a later stage. Pleas	e tick if you have
The relevant environmental standard or compliance value against which we will assess your effluent discharge		*	*	
Half-life for degradation of the substance (days)		*	*	
Soil water partition coefficient (litres per kilogramme)	If you wish to know more about these parameters see 'Groundwater risk assessment for your environmental permit' at	*	*	
Mixing zone thickness (metres)	www.gov.uk/government/organisations/ environment-agency	*	*	
Distance to compliance point (metres)	- 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.

For e	xample	, 'Outle		a unique name Ist use this name	to identify the				
2.2 Give the national grid reference of the discharge point									
2.3	ls you	r infiltra	tion system	new or existing?					
New						☐ No	w go to question	2.5	
Exist	ing					☐ No	w go to question	2.4	
2.4a	When	was it b	uilt?						
2.4b	Now a	nswer q	uestions 2.	5−2.8 if you are a	ble to, if not leave the	em blank	k and go to questi	on 2 . 9	
2.5 time Yes No	of insta	allation?	·		ilt to British Standard sheet, of the design o				Standards in force at the
		•	nt reference	•		1	,		
2.6 trial l	On wh	at date	did you car	ry out a percolation				(DD)/MM/YYYY)
2.7	What i	s your p	ercolation	value (Vp) result?				sec	onds per millimetre
				you worked out th round conditions	e percolation value. F	Please al	so provide your te	est sheets a	nd any field notes or
Tabl	le 6 – I	Percola	ation valu	е					
			Trial 1		Trial 2		Trial 3		Average
Hole	2 1								
Hole	2								
Hole	2 3								
Hole	2 4								
2.8	Please	show ເ	ıs how you	have calculated th	ne area (A) of your inf	iltration	svstem		<u> </u>
"Г							·		
p [×Vp		× 0.25 for septic	tanks =	Α	squ	are metres
or Г					\neg		Γ		
р			× Vp		× 0.20 for packa	ge treatr	ment plants = A		square metres
p	•			kimum occupancy	,				
Vp			lue in seco						
2.9 of th	اf kno e sides	wn, mar in metre	k on the pla es.	in you have provid	led the extent of the i	infiltratio	on system. Please	write on the	e plan the length and width
2.10 No	Is any □	part of y	our infiltra	tion system withir	1 50 metres of a well,	spring o	r borehole?		
Yes	Yes 🔲 Identify the location of the well, spring or borehole on the plan you have provided and answer question 2.11								
2.11	2.11 Is the well, spring or borehole you have identified used to supply water?								
No									
Yes	□ Y	ou mus	t describe v	vhat the water sup	oplied is used for				
2.12	Is any	part of v	our infiltra	tion system withir	n 10 metres of a wate	rcourse?			
No		•							

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

Yes 🗌

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.

For exam	re the discharge point a unique name uple, 'Outlet 1' (you must use this name to identify the point on the plan)		
3.2 Give	re the national grid reference of the discharge point		
3.3 Sel	lect from the table below the type of area where the effluent	is dispo	posed of
Area type	е		
Unlined r	reed bed		
Unlined g	grass plot		
Unlined v	wetland		I
Other			Please specify below
3.5 Is a No □ Yes □	nat is the surface area of the land used for your disposal? any part of your infiltration system within 50 metres of a well Identify the location of the well, spring or borehole on the he well, spring or borehole you have identified used to supp	plan yo	you have provided and answer question 3.6
3.7 Is a No □ Yes □	any part of your infiltration system within 10 metres of a wate		

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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.

For e	Give the discharge point a unique name example, 'Outlet 1' (you must use this name to identify the harge point on the plan)	
4.2	Give the national grid reference of the discharge point	
4.3 area	Give the name of the tidal river, tidal stream, estuary or of coastal water if you know it	
4.4	Is the discharge into a	
Tida	l river	
Tida	l stream	
An e	estuary	
Coas	stal water	
4.5	Does the discharge reach the watercourse by flowing through	a surface water sewer?
Yes	Give the national grid reference where the discharge enters the surface water sewer	
No		
4.6	Is the discharge point above the mean low water spring tide r	mark?
Yes	☐ Please explain, on a separate sheet, why the discharge	cannot be made below this point
Doci	ument reference	
No		
4.7 For e	How is the effluent dispersed? example, open pipe or diffuser system	
If dif	ffuser system go to question 4.8	
4.8	Give details, on a separate sheet, of the design of the diffuse	r system
Doci	ument reference	1

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

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

	Give the discharge point a unique name kample, 'Outlet 1' (you must use this name to identify the arge point on the plan)	
5.2	Give the national grid reference of the discharge point	
5.3 wate	Give the name of the watercourse, canal or the main rcourse it is a tributary of if you know it	
5.4	Is the discharge into a	
Non-	tidal river	
Strea	m	
Cana	l	
5.5	Does the discharge reach the watercourse or canal by flowing the	rough a surface water sewer?
Yes	Give the national grid reference where the discharge enters the surface water sewer	L
No		
5.6 No Yes	Does the watercourse dry up for part of the year? □ □	

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Appendix 6 - Discharges to a lake or pond

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

	Give the discharge point a unique name example, 'Outlet 1' (you must use this name to identify the narge point on the plan)				
6.2	Give the national grid reference of the discharge point				
6.3	Give the name of the lake or pond if you know it				
6.4	Select from the following table the type of lake or pond you will	be discha	arging to and answer th	e relevant q	uestions
Туре	e of lake or pond		Relevant questions		
Lake	e or pond which is not connected to a river or watercourse		Permit not required*		
have	e or pond which is not connected to a river or watercourse, where you e had a notice served under paragraph 5 of Schedule 21 of the ronmental Permitting (England and Wales) Regulations 2016	ι 🗍	6.5, 6.6, 6.7		
Lake	e or pond that discharges into a river or watercourse		6.5, 6.6, 6.7		
* Un 2016	less a Notice has been served under paragraph 5 of Schedule 21	of the En	vironmental Permitting	(England ar	nd Wales) Regulations
6.5	What is the surface area of the lake or pond?		ا	square m	eters
6.6	What is the maximum depth of the lake or pond?		ا	meters	
6.7	What is the average depth of the lake or pond?			meters	

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