

Fill in this part of the form, together with Parts A and F1, if you are applying for a new abstraction licence and a discharge permit for a ground source or surface water source heating and/or cooling scheme.

If you are registering a ground source scheme as exempt from the need for a discharge permit, you must also fill in a Registration Form.

Note: a heating or cooling discharge from an open loop system serving a single domestic property does not require a discharge permit if it meets the criteria in our 'Regulatory Position Statement'. You will still require an abstraction licence for volumes greater than 20 cubic metres' each day.

If your scheme meets the criteria for Standard Rule SR 2010 No 2 Discharge to surface water: cooling water and heat exchangers (max volume 1,000 cubic metres per day) you will also need to fill in Part B1.

Please read through this form and the guidance notes that came with it. Please write clearly in the answer spaces.

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

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#### 1 Discussions before your application

If you have had discussions with us before your application, give us the permit reference or details on a separate sheet. Tell us below the reference you have given this extra sheet.

Perm	Permit or document reference				
2	Sch	eme details			
2a	Туре	of scheme			
Plea	se spe	ecify whether your scheme is:			
Heat	ing ar	nd cooling			
Heat	ing or	nly			
Cool	ing on	nly			
Do y	ou int	end to use the abstracted water for any other purposes?			
Yes No		Please give details below, including annual quantity			

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2	Scheme details, continued					
2b	Will the abstraction and discharge take place all year?					
Yes	∕es □					
No		Please give details of the months when you will b	pe abstracting and discharging.			
3	Ab	out the site location				
3a	Wha	at is the site name, address, postcode and nationa	al grid reference for the abstraction?			
Uniq	ue n	ame of abstraction point 1				
		e/surface water name				
Addr						
			1			
Posto	code					
		grid reference for the abstraction ple, ST 12345 67890)	L			
Мар	labe	·l				
Uniq	ue n	ame of abstraction point 2 (if applicable)				
Strat	a typ	pe/surface water name				
Addr	ess					
Posto						
		grid reference for the abstraction ple, ST 12345 67890)				
Мар	labe	d				
Conti Docu	inue men	on a separate sheet if you have more abstraction put reference of the extra sheet	points.			
3b	Wha	at is the site name, address, postcode and nationa	al grid reference for the discharge?			
Uniq	ue n	ame of discharge point 1				
Strat	a typ	pe/surface water name				
Addr	ess					
Posto	code					
		grid reference for the discharge ple, ST 12345 67890)				
Man	laha	.1				

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3	Abo	out the site location, continued		
Unio	que na	ame of discharge point 2 (if applicable)	ı	
Stra	ta typ	pe/surface water name		
Add	ress			
Post	tcode			
		grid reference for the discharge ple, ST 12345 67890)	1	
Мар	labe	l		
		uent to be discharged is to more than one point (borehole o ances under which each discharge point will be used.	r su	
Doc	umen	t reference of the extra sheet		
3с	F	Provide a plan or plans for the site showing (see the guidan	ice n	
•	the o	outline of the site		
		each abstraction point you intend to abstract water from		
		each discharge point		
		each monitoring point	-11	- in acception - 2 and 2h
		th point on the plan to match the grid references and map la	abei	s in questions 3a and 3b.
		It reference or references of the plans		2
3d	ро у	you intend to discharge all or part of the effluent to a foul se	ewer	•
Yes No		Now go to question 3e Now go to question 3f		
3e	Dox	you have permission from the water company to discharge	offlu	ant into the faul cower?
Yes	D0 y	you have permission from the water company to discharge	emu	ent into the loat sewer:
No				
3f	Will	the abstraction be from:		
Grou	undwa	ater (for example, boreholes)		Complete questions 4, 5 and 6
Surf	ace w	ater (for example, river or lake)		Go to question 6
4	Gro	oundwater investigation consent		
4a	Hav	re you undertaken a groundwater investigation on this site?		
No		Please contact us before proceeding further		
Yes		Please give the consent reference number below or details	s of	your contact at the Environment Agency
		Consent reference number or contact person		
4b	Are	any details in this application different from those you prov	/ide	d for the Groundwater Investigation Consent?
No	П	,,		
Yes		Please provide a brief description of the differences. Use a extra sheet. Please be aware that depending on the chang Investigation Consent.		

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#### 5 Borehole information

5a	Are both the abstraction and discharge boreholes already constructed?
Yes	
No	☐ Please contact us before proceeding further
5b	Does your scheme involve switching boreholes (where the boreholes are fixed for abstraction and discharge)?
Yes	
No	

5c Fill in table 1 for each abstraction and discharge borehole.

You need to complete all columns if your scheme involves switching boreholes.

Where the boreholes are fixed for abstraction and discharge you need to provide answers to:

columns for abstraction: 1, 2, 3, 4, 5, 6, 9columns for discharge: 1, 2, 3, 4, 7, 8

#### Table 1

1 Abstraction, discharge or both?	2 Map label	Total depth (metres) (Specify the reference level you are using)	To what depth is the borehole or well sealed with unperforated linings or casing (in metres) below your reference level	5 Diameter (millimetres)	6 Lining-type and thickness of lining or linings	7 Does the borehole intermittently or permanently contact standing water?	8 What is the highest level the standing water reaches below your reference level?	9 How will overflow or leakage be prevented from artesian works?

L							l .	
If there are more than four boreholes, give details for the other boreholes on a separate sheet of paper.								
Document refe	rence of the ex	tra sheet		I				

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#### Abstraction and discharge quantity details 6

Fill in table 2 below to tell us what you will be using the water for and how much you need.

#### Table 2

Purpose of abstraction	Maximum yearly (m³)	Maximum daily (m³)	Maximum hourly (m³)	Hours per day	Maximum flow rate (litres per second)
Total					

Fill in table 3 with the maximum volume of effluent you will discharge. If you are discharging to more than one borehole or surface water, then complete a row for each borehole.

#### Table 3

Map label	Maximum daily (m³)	Peak instantaneous (litres/second)
_		
6c For each answer in question 6a and 6h s	how how you worked	out the quantity on a s

OC	Tor each answer in question ou and ob, show now you worked out the quantity on a separate sheet.
Doc	ument reference of the extra sheet

#### Method and measurement of abstraction 7

#### 7.1 Fill in the table below to tell us how you will abstract water and measure the amount abstracted.

Abstraction name (as you gave in 3a)	Structure and equipment	Measurement method	Flood defence consent number (if you need flood defence consent)

8	Abs	straction intake screening details			
8a	Have you had discussions with us regarding screening?				
No Yes		Contact us before you send in this application to find out who to speak to In the box below give details of the discussions you have had			

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## Abstraction intake screening details, continued 8 For surface water abstractions please provide details, in the box below, of the screen(s) (mesh size or bar spacing and type) to be used to protect fish, eels and elvers. Details of approach velocities and angle of screening should also be stated. Continue on a separate sheet if you need more space. Document reference of the extra sheet Entitlement to apply for abstraction licence Do you have, or expect to have, a right of access to the land which comprises the abstraction points? Have right of access or state 'occupier', if applicable ☐ from (give date DD/MM/YYYY) Expect to have right of access How have you marked the map you have enclosed to show the land you have or will have right of access to? Please note we can't grant a licence until we have been told the rights of access are in place. 10 Duration of abstraction licence We normally issue abstraction licences for a fixed period set by us (between six and 18 years). If you need to abstract water for a period of up to 24 years you will need to demonstrate that your scheme can meet the conditions set out in our 'Guidance on Long Duration Licences'. Set out your business case for a long duration licence in the box below or attach on a separate sheet. Continue on a separate sheet if you need more space. Document reference of the extra sheet If you would like us to consider a set start date for your licence, give the start date below.

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Date from (DD/MM/YYYY)

11	Oth	ner abstraction considerations					
11a	Are	any of the abstraction points in this application already lic	ense	d or in another application?			
No							
Yes		Please give details					
		Name of site					
		Address					
		Postcode					
		National grid reference (for example, ST 12345 67890)					
		Serial number of licence or date you applied for it					
11b	Are	you required to enter into a management agreement with N	latur	al England?			
No							
Yes							
11c	Doe	pes any part of the proposed project require planning permission?					
No		Now go to question 12					
Yes		Now go to question 11d					
11d	Wha	at is the current status of your planning application?					
Аррі	roved			Planning application reference number			
Pend	ding d	lecision		Planning application reference number			
Not	uat cu	ubmitted					
Refu		istilitied					
Kelu	seu		Ш				
12	Abo	out the discharge					
12.1	ls yo	our application for a ground source heating and/or cooling	syst	em?			
Yes		Go to question 12.2					
No		Go to question 12.3					
		ou intend to register your ground source heating and cooli See guidance notes on www.gov.uk/government/organisat					
Yes		Complete 'Low Risk GSHC Registration Form' available on	www	v.gov.uk/government/organisations/environment-agency.			
		Then go to question 20 to complete this form and return b	oth 1	forms to us, together with Part A – About you.			
No		Go to question 12.3					
		s your scheme meet the criteria for a Standard Facilities Peuk/government/organisations/environment-agency).	rmit	? (See details of 'Standard Rules SR2010 No2' at			
Yes		Fill in 'Application for an Environmental Permit Part B1 – S www.gov.uk/government/organisations/environment-age Then go to question 20 to complete this form and return b	ency				
No		Go to question 13	, Juli I	omis to as, together with Tall A About you.			

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13	Surface water discharge information				
13.1	Discharge point 1 - Map label				
13.1a	Does the discharge reach the watercourse by flowing throu	gh a	surface water sewer?		
No [ Yes [	Give the national grid references where the discharge en to receiving water  National grid reference for the discharge	ters t	he surface water sewer and	l whei	re subsequently discharged
	(for example, ST 12345 67890)	L			
13.1b	Is the discharge into a (directly or via a surface water sewe	r)			
Tidal r	iver		Go to 13.1c		
Tidal s	stream		Go to 13.1c		
Estuar	у		Go to 13.1c		
Coasta	al water		Go to 13.1c		
Non-ti	dal river		Go to 13.1d		
Non-ti	dal stream		Go to 13.1d		
Canal			Go to 13.1d		
Lake c	or pond		Go to 13.1e		
13.1c	Is the discharge point above the mean low water spring tid	e ma	rk?		
No [ Yes [	Please explain, on a separate sheet, why the discharge of Document reference of the extra sheet  Now go to Question 14 if there is a single discharge point				d discharge point.
12 14					<b>G</b> ,
13.1d	is the emuent dispersed (for example, open pipe of diffuse	:1 SyS	tem):		
No [ Yes [	<ul><li>If diffuser system please explain, on a separate sheet, th</li><li>Document reference of the extra sheet</li></ul>	e de:	sign of the diffuser system		
	Now go to Question 14 if there is a single discharge poin	nt or	Question 13.2 if there is a	secon	d discharge point.
13.1e	Select from the following table the type of lake or pond yo	u will	be discharging to and ans	wer th	e relevant questions.
Туре	of lake or pond				Relevant questions
	or pond which does not discharge into a river or watercourse or a river or watercourse	anoth	ner pond which discharges		Permit not required*
into a	or pond which does not discharge into a river or watercourse or a river or watercourse where you have had a notice served under nvironmental Permitting (England and Wales) Regulations 2010				13.1f, 13.1g, 13.1h
Lake or pond which discharges into a river or watercourse				13.1f, 13.1g, 13.1h	
	ess a Notice has been served under paragraph 5 of Schedule gulations 2010.	21 0	f the Environmental Permit	ting (E	England and Wales)
13.1f	What is the surface area of the lake or pond?	L		${\rm m}^2$	
13.1g	What is the maximum depth of the lake or pond?	L		m	
13.1h	What is the average depth of the lake or pond?			m	

Now go to Question 14 if there is a single discharge point or Question 13.2 if there is a second discharge point.

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13	Surface water discharge information, continued				
13.2	Discharge point 2 - Map label				
13.2a	Does the discharge reach the watercourse by flowing throug	gh a	surface water sewer?		
No [ Yes [	Give the national grid references where the discharge ent to receiving water	ers t	he surface water sewer and	d wher	re subsequently discharged
	National grid reference for the discharge (for example, ST 12345 67890)				
13.2b	Is the discharge into a (directly or via a surface water sewer	)			
Tidal r	iver		Go to 13.2c		
Tidal s	stream		Go to 13.2c		
Estuar	у		Go to 13.2c		
Coasta	al water		Go to 13.2c		
Non-ti	dal river		Go to 13.2d		
Non-ti	dal stream		Go to 13.2d		
Canal			Go to 13.2d		
Lake o	or pond		Go to 13.2e		
13.2c No [ Yes [	Please explain, on a separate sheet, why the discharge ca				
	Now go to Question 14.				
13.2d No [	Is the effluent dispersed (for example, open pipe or diffuse	r sys	tem)?		
Yes [	□ □ If diffuser system please explain, on a separate sheet, the	e des	sign of the diffuser system		
	Document reference of the extra sheet	1			
	Now go to Question 14.				
13.2e	Select from the following table the type of lake or pond you	ı will	be discharging to and answ	wer th	e relevant questions.
Туре	of lake or pond				Relevant questions
	or pond which does not discharge into a river or watercourse or a a river or watercourse	noth	er pond which discharges		Permit not required*
into a	or pond which does not discharge into a river or watercourse or a a river or watercourse where you have had a notice served under p Invironmental Permitting (England and Wales) Regulations 2010				13.2f, 13.2g, 13.2h
Lake or pond which discharges into a river or watercourse   13.2f, 13.2g				13.2f, 13.2g, 13.2h	
	less a Notice has been served under paragraph 5 of Schedule gulations 2010.	21 o	f the Environmental Permit	ting (E	England and Wales)
13.2f	What is the surface area of the lake or pond?	ı	ı	$m^2$	
13.2g	What is the maximum depth of the lake or pond?			m	
13.2h	What is the average depth of the lake or pond?			m	

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Now go to Question 14.

14	Per	iod of operation	
		at date do you want the permit for this discharge to start?  MM/YYYY)	
	lease note that this is the date that your annual subsistence charges will start, even if you have not started to discharge, unless ou contact us to change (delay) the start date. The start date cannot be before the permit is issued.		
15	How will the discharged effluent be treated?		
15a	Do y	ou treat your effluent?	
No	☐ Now go to question 16		
Yes		Now go to question 15b	
		n the box below with details for each stage of the treatmen it, including each stage of periodic cleaning of heat exchan	ts carried out on your effluent in the order in which they are gers and screening.
Cont proc		on a separate sheet if you need more space. If you prefer, y	ou can also send us an overall design for the whole treatment
Docı	ument	t reference of the extra sheet	
16	Wh	at will be in the effluent?	
asse	ssme	see if your discharge is likely to contain any of the specific sent for treated sewage or trade effluent discharges to surfacture uk/government/organisations/environment-agency and ar	e water or groundwater – search for this term on
		any of the specific substances listed in 'Risk assessment fo water' added to or present in the effluent as a result of the	or treated sewage or trade effluent discharges to surface water activities on the site?
No			
Yes			
		e any of the specific substances listed in 'Risk assessment water' been detected in samples of the effluent?	for treated sewage or trade effluent discharges to surface water
No			
Yes	_		ant not montioned in (Diely accomment for tweeted accomme
		ient discharges to surface water or groundwater'?	ent not mentioned in 'Risk assessment for treated sewage or
No			
Yes	_	o discharge contains, or notentially contains, any specific o	substances, you must carry out screening following the
guid	ance	e discharge contains, or potentially contains, any specific s in 'Risk assessment for treated sewage or trade effluent dis nes the information you must provide.	scharges to surface water or groundwater'. The guidance to this
Have	e you	answered yes to any of 16a-16c?	
Yes		Send us the completed H1 screening tool, along with the $\ensuremath{\text{\textbf{I}}}$	raw data used to create the summary statistics
		Document reference for the screening tool and raw data	
No			
		rmal assessment and report	
		thermal assessment and report (see guidance notes).	
Docı	ument	t reference for the assessment	
16f	Give	the maximum temperature of your discharge	Degrees Celsius

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16	What will be in the effluent, continued		
16g	Give the maximum expected temperature change compared with the abstracted water supply		Increase in degrees Celsius Decrease in degrees Celsius
17	Abstraction and discharge monitoring arrangement	ents	
whe	What is the national grid reference of the inlet sampling point re the temperature of the abstraction can be monitored? example, ST 12345 67890)	L	1
whe	What is the national grid reference of the inlet sampling point re the temperature of the discharge can be monitored? example, ST 12345 67890)		
poin	What is the national grid reference of the flow monitoring t? example, ST 12345 67890)	1	ı
No	Does the flow monitor have an MCERTS certificate?		
	Please give the certificate number  You should clearly label on the plan the locations of any of the section 3) label the above locations.	above that apply to this effluen	t. On the map you send us
-	Do you intend to do your own effluent monitoring?		
18	Your ability as an operator		
Mar	nagement systems for discharge		
18a	Does your management system meet the conditions set out in	our guidance?	
No Yes			
18b	What management system will you provide for your regulated f	acility?	
EC E	co-Management and Audit Scheme (EMAS)		
ISO :	14001		
BS 8	555 (Phases 1–5)		
Gree	n Dragon		
Own	management system		
Plea	se make sure you send us a summary of your management syste	em with your application.	
Docu	ument reference (or references)		
19	Supporting information		
19a	Provide a non-technical summary of your application.		
Docu	ument reference of the summary		
19b	Environmental risk assessment		
	ide an assessment of the risks each of your proposed regulated ronmental Impact Assessment please provide a copy of the Envi		
	vill also require a risk assessment using the process set out in 'l ırface water or groundwater' at www.gov.uk/government/organi		
Doci	iment reference of the assessment		

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### 20 Fees and charges

20 Tees allu cliaiges				
Please refer to our 'Abstraction Charges Scheme' and to our 'Environmental Permitting: Charging scheme and guidance', both of which can be found on www.gov.uk/government/organisations/environment-agency.				
rlease confirm you have enclosed the correct fees required to process your application by ticking this box				
21 Commercial confidentiality section for the discharges)	21 Commercial confidentiality and national security for the abstraction (Note: Part F2 also has this section for the discharges)			
You may be able to claim commercial c for this question, along with <b>'WR25</b> – <b>P</b>				
Tick the box if you want to claim commosome information in your application	ick the box if you want to claim commercial confidentiality for			
Please treat the information listed and	justified in the attached lett	er as commercially confidentia		
Note: You should make sure that we ca information you want us to treat as cor example, on separate pages marked 'c	nmercially confidential is p			
You can ask the Secretary of State for in including it would be a risk to national Secretary of State for this, and you mus public notice or public register unless t	security. With your applicati It still include the informatio	ion you must enclose a letter te on in your application. We will n	lling us that you have asked the	
You cannot apply for national security t	hrough this application.			
22 Abstraction declaration (d	eclaration for dischar	go is in Part F2)		
Information on who has authority to sig statement when applying for a licence.		•	n offence to make a false	
Type of licence holder Signature needed				
Registered company	Company director or company secretary			
Limited liability partnership A partner, company director or company secretary				
Individual	The individual			
Public body (for example, a local authority or NHS trust)	A person authorised to sign organisation	documents on behalf of the		
Group of individuals All individuals' signatures				
Partnerships	Partnerships One or more of the partners			
Trust	All trustees or the chairman	, treasurer or secretary		
I declare that to the best of my knowledge the statements made in the application forms for abstraction, including the map and any accompanying sheets, are true				
Signature				
Name				
Position				
Date (DD/MM/YYYY)			1	
23 The Data Protection Act 19				
<ul><li>We, the Environment Agency, will proce</li><li>deal with your application;</li></ul>	ess the information you prov	ride so that we can:		
<ul><li>deal with your application;</li><li>make sure you keep to the conditions of the licence, permit or registration;</li></ul>				

keep the public registers up to date.

process renewals; and

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#### 23 The Data Protection Act 1998, continued

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.

#### 24 How to contact us

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

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

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

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 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 and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please 
No thank you

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

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