

## Willett, Sarah

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**From:** Stewart, Ross <ross.a.stewart@aecom.com>  
**Sent:** 03 March 2020 09:59  
**To:** Hawkins, Hannah  
**Cc:** Dinwiddie, Neil; Neil Burke; Dickson, John  
**Subject:** Fw: Bradwell B 2020 Ground Investigation - Application for a water resources licence - Full abstraction licence  
**Attachments:** BRB\_Abs\_Licence\_Supporting\_Info\_v1 (updated).pdf

Good morning Hannah,

We have reviewed our submission against your comments and agree that there is a discrepancy. We have updated the supporting document (Section Question B13) to reflect the change and have provided some additional clarifying text to provide explanation to the other questions regarding the contingency allowance and allowance for storm events.

The revised values are provided in the table below (which is replicated in the updated supporting document attached).

**Table 2 - Summary of abstractive volumes**

Period of Operation	Timescale	Total annual abstraction volume (m <sup>3</sup> /annum)	Total daily abstraction volume (m <sup>3</sup> /d)	Total hourly abstraction volume (m <sup>3</sup> /hr)	Maximum flow rate (l/s)
<b>Year 1</b>					
Construction <i>(with 20% contingency)</i>	30 days	14,580 <i>(17,496)</i>	486 <i>(583)</i>	20 <i>(24)</i>	5.62 <i>(6.74)</i>
Long-term <i>(with 20% contingency)</i>	11 months	80,400 <i>(96,480)</i>	240 <i>(288)</i>	10 <i>(12)</i>	2.72 <i>(3.26)</i>
Storm Event	3.5 hour event in period	1,300	1,300	360	100
<b>Total</b>	<b>Year 1</b>	<b>116,000</b>	<b>1,300</b>	<b>360</b>	<b>100</b>
<b>Year 2 Onwards</b>					
Long-term <i>(with 20% contingency)</i>	1 year	87,600 <i>(105,120)</i>	240 <i>(288)</i>	10 <i>(12)</i>	2.72 <i>(3.26)</i>
Storm Event	3.5 hour event in period	1,300	1,300	360	100
<b>Total</b>	<b>Year 2 onwards</b>	<b>107,000</b>	<b>1,300</b>	<b>360</b>	<b>100</b>
<b>Licence Submission</b>		<b>116,000</b>	<b>1,300</b>	<b>360</b>	<b>100</b>

We trust that this clarifies the requirement and that the application can be formally accepted. We would, of course, be happy to discuss directly with the Environment Agency should you have any further questions.

Kind regards

Ross

**Ross Stewart** BSc MSc CEnv  
Environment Lead, Associated Development  
Joint Delivery Team (JDT)

**Bradwell Power Generation Company Limited (BRB)**  
**5F, Rex House, 4-12 Lower Regent Street, SW1Y 4PE**

M: +44 (0) 7919 217 553

[ross.a.stewart@aecom.com](mailto:ross.a.stewart@aecom.com) | <http://bradwellb.co.uk> | Twitter : [@CGNBradwellB](https://twitter.com/CGNBradwellB)

**From:** Stewart, Ross <[ross.a.stewart@aecom.com](mailto:ross.a.stewart@aecom.com)>

**Sent:** 27 February 2020 23:13

**To:** Hawkins, Hannah <[hannah.hawkins@environment-agency.gov.uk](mailto:hannah.hawkins@environment-agency.gov.uk)>

**Cc:** Neil Burke <[Neil.Burke@CGNUK.CO.UK](mailto:Neil.Burke@CGNUK.CO.UK)>; Dinwiddie, Neil <[neil.dinwiddie@environment-agency.gov.uk](mailto:neil.dinwiddie@environment-agency.gov.uk)>;

Dickson, John <[John.Dickson@atkinsglobal.com](mailto:John.Dickson@atkinsglobal.com)>

**Subject:** Re: Bradwell B 2020 Ground Investigation - Application for a water resources licence - Full abstraction licence

Hi Hannah,

Thank you for your email. Sorry, I'm currently out of country so am not available on my phone.

In relation to the first point, we had understood the need for a transfer licence, as advised by Neil, and had completed the form accordingly. In anticipation of the advised £1,500 fee we had this amount raised by our accounts department. However, the amount requested by the Environment Agency when it called to take payment was only £150. It seems, perhaps, that this was an administrative error?

I will arrange for another £1,500 to be raised but, concurrently, we will need the Environmental Agency to arrange for a refund of the initial payment. Who would be processing this, do you know? I can arrange for a colleague to make contact.

**Please accept this email as confirmation of change to license type.**

In relation to the second, i will have to defer to our permitting specialist, copied here. **John**, could you please circulate Hannah's query to the team and provide a response for Hannah's return to the office next Tuesday.

Kind regards,

Ross

**Ross Stewart** BSc MSc CEnv  
Environment Lead, Associated Development  
Joint Delivery Team (JDT)

**Bradwell Power Generation Company Limited (BRB)**  
**5F, Rex House, 4-12 Lower Regent Street, SW1Y 4PE**

M: +44 (0) 7919 217 553

[ross.a.stewart@aecom.com](mailto:ross.a.stewart@aecom.com) | <http://bradwellb.co.uk> | Twitter : [@CGNBradwellB](https://twitter.com/CGNBradwellB)

**From:** Hawkins, Hannah <[hannah.hawkins@environment-agency.gov.uk](mailto:hannah.hawkins@environment-agency.gov.uk)>

**Sent:** 27 February 2020 11:57

**To:** Stewart, Ross <[ross.a.stewart@aecom.com](mailto:ross.a.stewart@aecom.com)>

**Cc:** Neil Burke <[Neil.Burke@CGNUK.CO.UK](mailto:Neil.Burke@CGNUK.CO.UK)>; Dinwiddie, Neil <[neil.dinwiddie@environment-agency.gov.uk](mailto:neil.dinwiddie@environment-agency.gov.uk)>

**Subject:** RE: Bradwell B 2020 Ground Investigation - Application for a water resources licence - Full abstraction licence

Hello Ross,

Thank you for submitting the application for dewatering as part of the load testing at Bradwell B - as mentioned on my voicemail the application has now been allocated to me.

I've reviewed the information you've submitted but have a few queries that need to be resolved before I can formally accept the application.

As mentioned in my voicemail, you have applied for a full abstraction licence however based on the details of the application we had advised that a transfer licence would be needed for this activity – see email from Neil Dinwiddie on 29/01/2020 (attached for information).

In order to proceed with the application we would need something in writing from you confirming the change in licence type and to arrange for the additional fee to be paid. A transfer licence attracts a fee of £1,500.

I also have a query with the quantities that you have applied for. In the construction phase you have based the annual quantity on abstracting for 365 days, rather than the 30 day period suggested in the timescale column – see screen shot below. Based on 30 days the quantity should be 14,580m<sup>3</sup> (30x486m<sup>3</sup>/day). This change would then affect the total quantity applied for.

Table 2 - Summary of abstractive volumes

Period of Operation	Timescale	Total annual abstraction volume (m <sup>3</sup> /annum)	Total daily abstraction volume (m <sup>3</sup> /d)	Total hourly abstraction volume (m <sup>3</sup> /hr)	Maximum flow rate (l/s)
Construction <i>(with contingency)</i>	30 days	177,232 <i>(212,679)</i>	486 <i>(583)</i>	20 <i>(24)</i>	5.62 <i>(6.74)</i>
Long-term <i>(with contingency)</i>	35 months	73,164 <i>(87,796)</i>	200 <i>(240)</i>	8 <i>(10)</i>	2.32 <i>(2.78)</i>
Storm Event and Licence Submission	-	220,000	1,300	360	100

The pump rates shown in the above table are also slightly different to the data provided in the interim drainage strategy – based on this report the construction period should be 5.8l/s and the longer term should be 2.72l/s. Can you confirm which figures should be used?

I'm not in the office from 12.30 today until next Tuesday (note my working days below) but it would be helpful to either chat this through or if you prefer you can respond to this email.

I look forward to hearing from you soon,

Kind regards, Hannah

**Hannah Hawkins**  
**Senior Permitting Officer - Water Resources**  
National Permitting Services - (Part of National Services E & B)

My working days are all day Tuesdays, all day Wednesdays and Thursday mornings.

Environment Agency, Icen House, Cobham Road, Ipswich IP3 9JD

☎ Internal 58394  
☎ External 02030 258394  
Email: [hannah.hawkins@environment-agency.gov.uk](mailto:hannah.hawkins@environment-agency.gov.uk)

**Help us to improve our service and complete our customer survey – click [NPS Survey](#)**

**Do you have a water abstraction or  
impoundment licence?**

Register for our digital service to manage your licence.



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**From:** Stewart, Ross [<mailto:ross.a.stewart@aeacom.com>]

**Sent:** 07 February 2020 16:49

**To:** PSC-WaterResources <[PSC-WaterResources@environment-agency.gov.uk](mailto:PSC-WaterResources@environment-agency.gov.uk)>

**Cc:** Neil Burke <[Neil.Burke@CGNUK.CO.UK](mailto:Neil.Burke@CGNUK.CO.UK)>; Dinwiddie, Neil <[neil.dinwiddie@environment-agency.gov.uk](mailto:neil.dinwiddie@environment-agency.gov.uk)>;  
Dickson, John <[John.Dickson@atkinsglobal.com](mailto:John.Dickson@atkinsglobal.com)>

**Subject:** Bradwell B 2020 Ground Investigation - Application for a water resources licence - Full abstraction licence

Good afternoon,

Please find attached Bradwell Power Generation Company Limited's (BRB) application for a water resource licence - full abstraction licence - in relation to planned geotechnical investigation works at the Bradwell B site. I am authorised to submit this application on behalf of BRB. Please note Neil Burke contact details should you require any further assistance.

This submission includes:

- Completed water resource licence forms, Parts A, B and C - ATTACHED
- Hydrogeological Impact Appraisal - BRB\_Abs\_Licence\_HIA\_v1.pdf - TO BE INCLUDED IN TRANSFER LINK
- Supporting Information - BRB\_Abs\_Licence\_Supporting\_Info\_v1.pdf - TO BE INCLUDED IN TRANSFER LINK
- Supporting Information Appendix F: Ecological Appraisal - TO BE INCLUDED IN TRANSFER LINK

These email will be followed by a WeTransfer download link.

As indicated on the forms, BRB intends to pay for this application via card. Please contact the named person for details.

Regards,

Ross

**Ross Stewart** BSc MSc CEnv  
Environment Lead, Associated Development  
Joint Delivery Team (JDT)

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**5F, Rex House, 4-12 Lower Regent Street, SW1Y 4PE**

**M:** +44 (0) 7919 217 553

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