

## Donnison, Nick

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**From:** Donnison, Nick  
**Sent:** 08 February 2023 10:01  
**To:** Warburton, Harry  
**Cc:** Dudley Bow, Vita; Hawkins, Mark; Enquiries; Cardiff & Vale Consultations; Walters, Dai; Feighoney, Ross; Hayton, Alice  
**Subject:** RE: Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required? NRW:00692312

Good Morning Harry,

Riverbank work - would likely take approx. 1 ½ weeks per side as long as everything goes smoothly. I think riverbank needs to be used loosely as the work is in the parks – a good distance away from the riverbanks.

River work – a similar scheme last summer took 3 weeks to complete – this had similar scope/depth of boreholes.

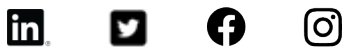
The information regarding the Salmon appears to us to be unfortunate for our planned works in the river though could we have some additional information to help understand the restrictions?

The equipment we will use/work from will be a barge and workboat – the barge will be stabilised via the use of a maximum of 4no. spud legs and a string of casing – we won't be creating a barrier of any sort.

We'd like extra information as we'll have to feed this information/news back to the client and the design team.

Kind Regards

**Nick Donnison** BSc FGS  
Senior Site Investigation Engineer  
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**From:** Warburton, Harry <harry.warburton@cyfoethnaturiolcymru.gov.uk>  
**Sent:** Tuesday, February 7, 2023 3:37 PM  
**To:** Donnison, Nick <Nick.Donnison@arcadis.com>  
**Cc:** Dudley Bow, Vita <Vita.DudleyBow@arcadis.com>; Hawkins, Mark <mark.hawkins@arcadis.com>; Enquiries <enquiries@cyfoethnaturiolcymru.gov.uk>; Cardiff & Vale Consultations <CardiffVale@cyfoethnaturiolcymru.gov.uk>; Walters, Dai <Dai.Walters@cyfoethnaturiolcymru.gov.uk>; Feighoney, Ross <Ross.Feighoney@arcadis.com>; Hayton, Alice <alice.hayton@arcadis.com>  
**Subject:** RE: Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required? NRW:00692312

Afternoon Nick,

With the proposed timescale of work, is the 3-4 week estimate for all boreholes, river and river bank? Or just for the in river works?

I have just had a response from our fisheries team and they have quoted this:

*"The following are therefore the restricted dates for working in rivers:*

*The Taff downstream of the water-taxi jetty at NGR ST 17761 76508: Work can only take place in January to March (inclusive)"*

This is because of the migration of Salmonid around the proposed area of works in the Taff.  
Due to the above, the work in River will only be able to take place between January and March.

Please let me know if there are any questions regarding this and I can get more details for our fisheries team.

Kind regards,

**Harry Warburton**

Swyddog Amgylcheddol / Environment Officer  
Cyfoeth Naturiol Cymru / Natural Resources Wales  
Ffôn Symudol / Mobile: 07977 831869  
Plas yr Afon, Caerdydd / Rivers House, Cardiff

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**From:** Warburton, Harry

**Sent:** 07 February 2023 11:53

**To:** Donnison, Nick <[Nick.Donnison@arcadis.com](mailto:Nick.Donnison@arcadis.com)>

**Cc:** Dudley Bow, Vita <[Vita.DudleyBow@arcadis.com](mailto:Vita.DudleyBow@arcadis.com)>; Hawkins, Mark <[mark.hawkins@arcadis.com](mailto:mark.hawkins@arcadis.com)>; Enquiries <[enquiries@cyfoethnaturiolcymru.gov.uk](mailto:enquiries@cyfoethnaturiolcymru.gov.uk)>; Cardiff & Vale Consultations

<[CardiffVale@cyfoethnaturiolcymru.gov.uk](mailto:CardiffVale@cyfoethnaturiolcymru.gov.uk)>; Walters, Dai <[Dai.Walters@cyfoethnaturiolcymru.gov.uk](mailto:Dai.Walters@cyfoethnaturiolcymru.gov.uk)>;

Feighoney, Ross <[Ross.Feighoney@arcadis.com](mailto:Ross.Feighoney@arcadis.com)>; Hayton, Alice <[alice.hayton@arcadis.com](mailto:alice.hayton@arcadis.com)>

**Subject:** RE: Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required? NRW:00692312

Good morning Nick,

From the information you have provided it seems unlikely that an abstraction permit would be required as you mentioned less than 20 cubic metres of water will be abstracted per day. Should you require more guidance free permitting guidance can be requested here [Natural Resources Wales / Pre-application advice service for water abstraction and impoundment licences](#)

It also seems that a discharge licence will also likely not be required, so long as the below from your method statement is followed:

*"Drilling flush will then be collected into IBC available onboard, let to settle before being pumped back into the river. If there are any evidence of contamination, the system will remain closed and impacted water disposed off-site to a suitable facility centre"*

From the mud tank heading

*"Once the sediment have settled, the water will be discharge back into the river via a tremie tube".*

As above, should further guidance be required it can be requested here [Natural Resources Wales / Pre application advice for environmental permits](#)

Should any pollution occur, please contact our incident reporting line on 0300 065 3000 so that we can be of assistance.

Any further questions, let me know.

Kind regards,

**Harry Warburton**

Swyddog Amgylcheddol / Environment Officer  
Cyfoeth Naturiol Cymru / Natural Resources Wales  
Ffôn Symudol / Mobile: 07977 831869  
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**From:** Donnison, Nick <[Nick.Donnison@arcadis.com](mailto:Nick.Donnison@arcadis.com)>

**Sent:** 03 February 2023 10:17

**To:** Warburton, Harry <[harry.warburton@cyfoethnaturiolcymru.gov.uk](mailto:harry.warburton@cyfoethnaturiolcymru.gov.uk)>

**Cc:** Dudley Bow, Vita <[Vita.DudleyBow@arcadis.com](mailto:Vita.DudleyBow@arcadis.com)>; Hawkins, Mark <[mark.hawkins@arcadis.com](mailto:mark.hawkins@arcadis.com)>; Enquiries <[enquiries@cyfoethnaturiolcymru.gov.uk](mailto:enquiries@cyfoethnaturiolcymru.gov.uk)>; Cardiff & Vale Consultations

<[CardiffVale@cyfoethnaturiolcymru.gov.uk](mailto:CardiffVale@cyfoethnaturiolcymru.gov.uk)>; Walters, Dai <[Dai.Walters@cyfoethnaturiolcymru.gov.uk](mailto:Dai.Walters@cyfoethnaturiolcymru.gov.uk)>;

Feighoney, Ross <[Ross.Feighoney@arcadis.com](mailto:Ross.Feighoney@arcadis.com)>; Hayton, Alice <[alice.hayton@arcadis.com](mailto:alice.hayton@arcadis.com)>

**Subject:** RE: Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required? NRW:00692312

Good Morning Harry,

The abstraction/discharge licence would only be required for the overwater locations (BH02, 03 and 04).

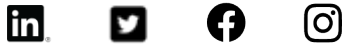
The other locations are land based and we would procure a standpipe from Welsh water for water supply used to drill these.

The work would be carried from a barge in the river (no cofferdam etc) so river would still be flowing.

Proposed time of year – licence application dependent but ideally March/April – work would likely take approx. 3 – 4 weeks in the river.

Thanks

**Nick Donnison** BSc FGS  
Senior Site Investigation Engineer



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**From:** Warburton, Harry <[harry.warburton@cyfoethnaturiolcymru.gov.uk](mailto:harry.warburton@cyfoethnaturiolcymru.gov.uk)>  
**Sent:** Friday, February 3, 2023 10:00 AM  
**To:** Donnison, Nick <[Nick.Donnison@arcadis.com](mailto:Nick.Donnison@arcadis.com)>  
**Cc:** Dudley Bow, Vita <[Vita.DudleyBow@arcadis.com](mailto:Vita.DudleyBow@arcadis.com)>; Hawkins, Mark <[mark.hawkins@arcadis.com](mailto:mark.hawkins@arcadis.com)>; Enquiries <[enquiries@cyfoethnaturiolcymru.gov.uk](mailto:enquiries@cyfoethnaturiolcymru.gov.uk)>; Cardiff & Vale Consultations <[CardiffVale@cyfoethnaturiolcymru.gov.uk](mailto:CardiffVale@cyfoethnaturiolcymru.gov.uk)>; Walters, Dai <[Dai.Walters@cyfoethnaturiolcymru.gov.uk](mailto:Dai.Walters@cyfoethnaturiolcymru.gov.uk)>; Feighoney, Ross <[Ross.Feighoney@arcadis.com](mailto:Ross.Feighoney@arcadis.com)>  
**Subject:** RE: Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required? NRW:00692312

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Good morning Dominic,

Thank you for your response and sending over the information. We are just gathering some advice from other teams, so apologies for the delay in response. There are couple more questions, is the work planning on being carried out in a dry working area, or will the drilling take place with the river still flowing through the work? And what is the proposed time of year for the works?

Kind regards,

**Harry Warburton**

Swyddog Amgylcheddol / Environment Officer  
Cyfoeth Naturiol Cymru / Natural Resources Wales  
Ffôn Symudol / Mobile: 07977 831869  
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**From:** Donnison, Nick <[Nick.Donnison@arcadis.com](mailto:Nick.Donnison@arcadis.com)>  
**Sent:** 31 January 2023 18:07  
**To:** Warburton, Harry <[harry.warburton@cyfoethnaturiolcymru.gov.uk](mailto:harry.warburton@cyfoethnaturiolcymru.gov.uk)>  
**Cc:** Dudley Bow, Vita <[Vita.DudleyBow@arcadis.com](mailto:Vita.DudleyBow@arcadis.com)>; Hawkins, Mark <[mark.hawkins@arcadis.com](mailto:mark.hawkins@arcadis.com)>; Enquiries <[enquiries@cyfoethnaturiolcymru.gov.uk](mailto:enquiries@cyfoethnaturiolcymru.gov.uk)>; Cardiff & Vale Consultations <[CardiffVale@cyfoethnaturiolcymru.gov.uk](mailto:CardiffVale@cyfoethnaturiolcymru.gov.uk)>; Walters, Dai <[Dai.Walters@cyfoethnaturiolcymru.gov.uk](mailto:Dai.Walters@cyfoethnaturiolcymru.gov.uk)>;

Feighoney, Ross <[Ross.Feighoney@arcadis.com](mailto:Ross.Feighoney@arcadis.com)>

**Subject:** RE: Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required? NRW:00692312

Afternoon Harry,

Please see answers below/under your queries:

- Grid reference and area map for the proposed area of work  
See attached series of maps – the set of maps include the current exploratory hole plan, bathymetric survey completed in November 2022, 2no. maps showing the exploratory locations using aerial photo and the current coordinates of all planned locations – these may change slightly due to final bridge location but they will not vary massively.
- Timescale of the works  
Overwater boreholes will take approximately 3 weeks to complete.
- The location and size of the boreholes  
As previous – coordinates/maps attached.
- Quantity of water that will be used for abstraction  
I have spoken to the drilling contractor and they have estimated 6 cubic metres of water per day
- The COSHH sheets for this ‘mud’  
Attached – Pure-Bore is the product currently used by the drilling contractor.
- Why this ‘mud’ may or may not be required for use and how will you find this out?  
I suppose ‘additive’ is a better term than ‘mud’. We use the additive when we’ve had poor recovery of sample or the borehole is collapsing after we’ve removed the core barrel.
- Is this ‘mud’ water soluble? And does it have any colour? Or does the water appear unaffected when the ‘mud’ is added?  
Pure-Bore is a soluble powder additive that thickens the water slightly and acts like a glue to keep the borehole ‘open’ and/or the drilled material together so it can be retrieved from the borehole. It’s a white powder that dissolves in the water – doesn’t really have much of a colour or colours the water. The used drilling flush is discoloured as its been used to drill but will be stored in tanks on the barge to allow it to settle prior to being discharged below water level to allow it to settle naturally back to the river bed.

I’ve also attached a photograph of a recent/typical overwater drilling set up.

I’ve also attached a draft copy of the rotary drilling method statement.

If you require any additional information then please let me know.

Kind Regards

**Nick Donnison** BSc FGS

Senior Site Investigation Engineer

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**From:** Warburton, Harry <[harry.warburton@cyfoethnaturiolcymru.gov.uk](mailto:harry.warburton@cyfoethnaturiolcymru.gov.uk)>  
**Sent:** Tuesday, January 31, 2023 2:54 PM  
**To:** Donnison, Nick <[Nick.Donnison@arcadis.com](mailto:Nick.Donnison@arcadis.com)>  
**Cc:** Dudley Bow, Vita <[Vita.DudleyBow@arcadis.com](mailto:Vita.DudleyBow@arcadis.com)>; Hawkins, Mark <[mark.hawkins@arcadis.com](mailto:mark.hawkins@arcadis.com)>; Enquiries <[enquiries@cyfoethnaturiolcymru.gov.uk](mailto:enquiries@cyfoethnaturiolcymru.gov.uk)>; Cardiff & Vale Consultations <[CardiffVale@cyfoethnaturiolcymru.gov.uk](mailto:CardiffVale@cyfoethnaturiolcymru.gov.uk)>; Walters, Dai <[Dai.Walters@cyfoethnaturiolcymru.gov.uk](mailto:Dai.Walters@cyfoethnaturiolcymru.gov.uk)>  
**Subject:** RE: Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required? NRW:00692312

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Afternoon Nick,

Thank you for contacting us regarding this. A few more details will have to be provided to be able to give a full answer. Please can the following be provided:

- Grid reference and area map for the proposed area of work
- Timescale of the works
- The location and size of the boreholes
- Quantity of water that will be used for abstraction
- The COSHH sheets for this 'mud'
- Why this 'mud' may or may not be required for use and how will you find this out?
- Is this 'mud' water soluble? And does it have any colour? Or does the water appear unaffected when the 'mud' is added?

We would like to see a method statement in regards to this so we can have more details as well as having the above questions clarified.

Any further questions let me know.

Kind regards,

**Harry Warburton**

Swyddog Amgylcheddol / Environment Officer  
Cyfoeth Naturiol Cymru / Natural Resources Wales  
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**From:** Cardiff & Vale Consultations <[CardiffVale@cyfoethnaturiolcymru.gov.uk](mailto:CardiffVale@cyfoethnaturiolcymru.gov.uk)>  
**Sent:** 31 January 2023 10:56  
**To:** Warburton, Harry <[harry.warburton@cyfoethnaturiolcymru.gov.uk](mailto:harry.warburton@cyfoethnaturiolcymru.gov.uk)>  
**Subject:** FW: Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required? NRW:00692312

Hiyaa,

Can you take a look at this one please, either let me know you've responded or CC in the inbox.

Thank you,  
Kayleigh

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**From:** Enquiries <[enquiries@cyfoethnaturiolcymru.gov.uk](mailto:enquiries@cyfoethnaturiolcymru.gov.uk)>  
**Sent:** 31 January 2023 09:46  
**To:** Cardiff & Vale Consultations <[CardiffVale@cyfoethnaturiolcymru.gov.uk](mailto:CardiffVale@cyfoethnaturiolcymru.gov.uk)>  
**Subject:** FW: Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required? NRW:00692312

Hi team,

Please see the below email, Is this one for your team? Please advise if this is intended for another team.

Kind regards,

**John Littlemore**

Cymorth Cyswllt Cyfoeth / Customer Hub Support

Cwsmeriaid, Cyfathrebu a Masnachol/Customer, Communications and Commercial Directorate

Cyfoeth Naturiol Cymru/Natural Resources Wales

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**Croesewir gohebiaeth yn Gymraeg a byddwn yn ymateb yn Gymraeg, heb i hynny arwain at oedi**  
**Correspondence in Welsh is welcomed, and we will respond in Welsh without it leading to a delay**

----- Original Message -----

**From:** Donnison, Nick <[Nick.Donnison@arcadis.com](mailto:Nick.Donnison@arcadis.com)>;  
**Received:** Mon Jan 30 2023 17:16:33 GMT+0000 (Greenwich Mean Time)  
**To:** Enquiries Queue <[enquiries@cyfoethnaturiolcymru.gov.uk](mailto:enquiries@cyfoethnaturiolcymru.gov.uk)>;  
**Cc:** [Vita.DudleyBow@arcadis.com](mailto:Vita.DudleyBow@arcadis.com); [mark.hawkins@arcadis.com](mailto:mark.hawkins@arcadis.com);  
**Subject:** Channel View Footbridge, Cardiff - Abstraction/Discharge Licence - Required?

Good Afternoon,

I'm in the process of gaining a band 1 licence to carry out a site investigation in and next to the River Taff in Cardiff and the NRW licensing team have asked me to email yourselves regarding a query about abstraction and discharge licensing.

We are currently looking at drilling 3no. boreholes from a barge in the River Taff in Cardiff – I can supply plans and coordinates if required?

After reading the section 'which abstractions do not need a licence' then it leads me to think I don't need an abstraction licence as we won't use 20 cubic metres a day etc.

However, we will be discharging this water back into the River Taff as part of the water recirculation process – the flush system we tend use is ‘water flush’ to keep the core bit clear during the drilling process.

As part of the flushing system we would extract water from the River Taff, pump this through the drilling rig and casing/core barrel and then it would be discharged under the surface of the water to cause minimal disturbance.

If required then a ‘mud’ would be added to the water (pumped from the Taff into water tanks on the barge) – this ‘mud’ aids sample recovery in weak strata and is both biodegradable and environmentally friendly so won’t harm the ecosystems. COSHH data sheets can be provided.

Can you confirm that we will not need an abstraction licence and please let me know what is required for discharge?

Kind Regards

**Nick Donnison** BSc FGS

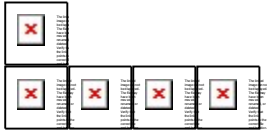
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