Form WRD: Application for a new abstraction licence or a technical variation to an abstraction licence

Application type

Reference number (The number you generated in form WRA). Example: WRNATURALRESOURCESWALES1101
WRCAERPHILLYCOUNTYBOROUGHCOUNCIL0312

Are there any applications currently being assessed by us that are linked to this application?
No

Is the proposed abstraction going to be aggregated with another existing abstraction?
No

Are any applications, at the same site; being assessed by the Environment Agency?
No

Tell us when you want your abstraction licence to end: [DD/MM/YY]
03/12/2042

If you require a shorter or longer duration licence, please provide details and your justification
This licence would be required for as long as possible please as the water abstraction is required as a permanent fixture year on year to maintain the overall heath of the canal.

Abstraction details

Abstraction location name/reference
Nant Carn Brook, Pontywaun

Abstraction point type
Single point

National Grid Reference
ST 22182 93494

Do you have any further points of abstraction?
No

Means of abstraction

Provide full details of the equipment you propose to use to abstract water, such as maximum pump capacity and any relevant dimensions, e.g. pipe diameter. For groundwater abstractions, include details about the borehole (depth and diameter) and details of screening and lining.
No equipment required. Gravity fed arrangement with Penstock Control. Refer drawing and report. Maximum capacity 9.76ML/day but Penstock is usually set at approximately half closed due to the chamber at the head of the canal surcharging.

Please upload your drawings and calculations here. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)
• File: Feeder Row Canal Feed.pdf - Download • File: Technical Note- Feeder Row Q75 Calculation_V04.pdf - Download

Abstraction quantities

Abstraction location name/reference
Nant Carn Brook Pontywaun

What purpose will the water be used for?
Water supply to the Monmouthshire and Brecon Canal Crumlin Arm but Newport CBC also rely on the same feed.

Period of abstraction Will it be all year?
No

Start Date: [DD/MM/YY]
03/03/25

End Date: [DD/MM/YY]
06/10/25

Maximum quantities (cubic metres)

Annual 2108160

Daily 9760

Hourly 406.67

Peak abstraction rate (in litres per second)

112.96

Number of hours of abstraction per day

24 (during March to October)

Add quantities for another location?

No

Calculations and supporting information

Use this section to show us how you have calculated the amount of water you require. This should include details of your operational regime (for example, number of hours and days you intend to abstract, number of units produced or area to be irrigated). We use this information to determine if the volumes you propose to abstract are appropriate for the purpose. Depending which industry you are in, you may need to provide additional information below.

If your proposal involves the provision of a residual flow via a notch or orifice, provide information on how this is being calculated. This should include details of the equation being used.

Refer Report

Additional document. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)

- File: Technical Note- Feeder Row Q75 Calculation_V04.pdf - Download

Means of measurement

State how you intend to measure the quantity of water you abstract. You do not need to do this for a temporary or transfer licence.

Other (please specify):
The maximum capacity that the feed can supply to the canal is 9.76ML/day and we only ever open the PenStock valve half way or the chamber at the head of the canal surcharges

Water efficiency

Provide details of what measures you provide or intend to implement, to ensure efficient use of water. This could include water storage, re-use or recirculation, monitoring and checking for leaks, undertaking water audits or other industry specific good practice.

To keep the canal healthy

Fish and eel considerations (surface water abstractions only)

Confirm the fish species present at your site. If you're not proposing any measures to protect fish and eels, you must justify this. For example, we may have confirmed in our pre-application response that the intake is inaccessible to fish or you undertook a fish survey to confirm.

There are no fish present in the Nant Carn Brook

Discharge details

If you intend to return any of the abstracted water to the environment, provide details below. Details of discharge location(s) should correspond with any maps submitted. Do not include discharges to a public sewage system.

	Discharge location name / reference	National Grid Reference of discharge point (12 digit)	Total volume to be discharged (cubic metres)	Environmental Permit for Water Discharge Activity number (if applicable)
	Pontywaun Overflow	ST 21962 92743	Unknown	N/A
	Dragons Teeth	ST 22685 91674	Unknown	N/A
	Strathhaven	ST 24697 90463	Unknown	N/A
	-	-	-	-

Provide a description of the structure and equipment involved in discharge.

There are x3 overflows along the Monmouthshire & Brecon Canal Crumlin Arm that allow water back to the Ebbw River however these are uncontrolled so unable to measure amount released back to the Ebbw River. These are only in operation during storm events.

Other abstractors / water users

Provide details of nearby abstractors or users of water who could be affected by your proposal. This should include deregulated users (exempt activities or abstractions < 20 cubic metres per day), anglers and canoeists.
Your local authority's environmental health will hold details of exempt domestic abstractors.

Pontymister Angling Club

Planning application

Have you sought advice on your planning application?

No

Declaration

By signing below, you are declaring that, to the best of your knowledge; the information given in this form, on any map and in any supporting or additional information; is true.

Signed S J Stook

Print name SARAH STOOK

position Principal Engineer

Date

* 03/12/2024

Would you like a copy of your submission?

Yes

Your email address

stooksj@caerphilly.gov.uk