

Form WRE: Application for a new impoundment licence, technical variation to an impoundment licence or the removal of an existing impoundment

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

WRERWFAETHLON1123

Are you applying for a licence for a new impoundment or an existing impoundment

a new impoundment

Impoundment details

All information should correspond with any maps and drawings submitted with this application

	Impoundment location name/reference	Left bank National Grid Reference	Right bank National Grid Reference
	Intake	SH 63035 99339	SH 63033 99339
	-	-	-
	-	-	-

Provide details about the type of impoundment you propose to construct at the points specified above and how the works will operate. This should include a description of any existing works and how your proposal will affect the flow of inland water.

Tell us the purpose of the works. If the water is to be impounded for more than one purpose, list both the primary and secondary purpose

A small weir, featuring a pre-fabricated stainless steel box with coanda screen for the purposes of hydropower.

Description of impoundment

Name of watercourse

Un named watercouse

Will your proposed impoundment result in a change to the submerged area (downstream) or new submerged areas behind (upstream of) the impounding works?
(If yes, ensure this is shown on any map or drawings submitted)

Yes

Will the ponded area created by the impoundment be lined?

No

Give the height of the impoundment structure, from the downstream toe to crest or top of spillway (in metres above Ordnance Datum). If the proposal involves an existing impoundment, state the change in height (in millimetres).

~1000mm

What is the overflow or crest level of the impoundment (in metres above Ordnance Datum)?

155

Will the proposal create a raised reservoir?

(A raised reservoir is one where water is stored at a level above the natural level of the lowest level of the surrounding area.)

No

What is the proposed capacity of the impoundment when full to spillway level (in cubic metres)?

2

Does the proposal involve the controlled release of water to safeguard downstream flows?

This could be the release of flood attenuation flows, reservoir compensation flows or a residual flow via a notch or orifice.

Yes

Tell us what the proposed flow at the outlet will be and how you intend to measure this. If the works involve monitoring of levels or flows, include details of this.

Hands off flows and residual flows provided by notches. Details of this have been included in the associated application for an impoundment licence

Is the impounded water to be used for a subsequent purpose?

Yes

Provide details of subsequent purpose (for abstractions, state the daily and annual quantities in cubic metres).

Micro hydro scheme with rated flow of 0.015m³/s.

How will the impounded area be filled initially, and subsequently refilled if applicable?

Example: by rainwater, overland flow or pumped from another source.

By the watercourse itself

Fish and eel passage

Confirm the fish species present at your site.

The site is too steep for access migratory fish. It is a very small stream but brown trout may be present.

Please confirm type of fish screen

Intake Coanda

Outfall Bar

Please confirm screen height and width - intake (millimetres)

Width 0.5m

Height 0.45m

Please confirm screen height and width - outfall (millimetres)

Width 0.5m

Height 0.5m

Please confirm screen aperture size (millimetres)

Intake 3mm

Outfall 40mm

Please confirm type of upstream fish/eel passage intake

Eel chain

Please confirm type of downstream fish/eel passage

Plunge pool

Please confirm proposed flow for fish pass

HOF and residual flow

Construction, maintenance and operation

Provide details of maintenance or activities relating to the operation of the impoundment. Include the extent and frequency of activities. This could include the operation of scour valves or maintenance of a fish pass.

Describe any sediment management plan associated with the impoundment.

Cleaning of the screen with a brush if and when required (roughly monthly perhaps). Sediment will fill the area behind the weir wall and will then naturally overflow and continue downstream.

Do you intend to divert the flow of the inland water while you are building, changing or removing the impounding works?

Yes

How do you intend to divert the flow of the inland water while you are building, changing or removing the impounding works. Give details.

We expect to divert the flow by piping it from upstream of the intake site to downstream in order to construct in the dry. A sandbag dam will be used to divert water into the diversion pipe.

Proposed Design of Structure

Upload design drawings and calculations here. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)

- File: Location Plan Rev A.pdf - [Download](#)

Please upload your stage 1 geomorphology photosurvey. Find out more on how to complete your survey on our Geomorphology Photosurveys for Hydropower developments page

- File: Erw Faethlon Geomorphology Survey - Rev A.pdf - [Download](#)

Other permissions

Planning permission advice received?

No

Is planning permission required?

Yes

What is the status of the planning permission?

Submitted

Have you applied for or do you hold a Flood Risk Activity Permit (FRAP) for the proposed works?

No

Commercial confidentiality and national security

Are you applying for Commercial Confidentiality?

No

Have you applied to the Welsh Ministers for national security for your 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 Mari Evans
Print name Mari Evans
Position Owner/Applicant

Date

* 16/11/2023

Would you like a copy of your submission?

Yes

Your email address

Nick@NBhydro.co.uk