

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

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

CRNC2801

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 78255 61608	SH 78255 61606
	-	-	-
	-	-	-

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 concrete weir, with coanda screen for the purposes of abstracting water for a hydropower scheme.

Description of impoundment

Name of watercourse

Nant Llyn Glan Gors

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)

No

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).

135.76m AOD to 137.34m AOD - 1580mm

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

137.34

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)?

0

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.

Permanent notches will control the hands off flows and residual flows. Further details of measurements have been provided with this application.

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)

Generating electricity
Daily – 5841
Annual - 2131831

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

Confirm the fish species present at your site.

Confirm the fish species present at your site.

The watercourse is too small and too steep for migratory fish. Brown trout may be present.

Please confirm type of fish screen

Intake Coanda

Outfall Bar

Please confirm screen height and width - intake (millimetres)

Width 2300mm

Height 450mm

Please confirm screen height and width - outfall (millimetres)

Width 450mm

Height 450mm

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.

The weir will be cleaned often and be checked for any damage and repaired.
Sediment will naturally flow over the weir 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.

A temporary weir upstream of the intake site will be constructed from sandbags. A temporary pipe will divert water from the working area.

Proposed Design of Structure

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

- File: Intake and GA v2.pdf - [Download](#)
- File: Powerhouse Dimensions and GA V3.0.pdf - [Download](#)
- File: Location and Site Plan V2.2.pdf - [Download](#)
- File: Flow Abstraction Calculations V1.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: Gemorph Map V3.pdf - [Download](#)
- File: Gemorph Photo Survey V3.pdf - [Download](#)
- File: Nant Llyn Glan Gors Hydro Scheme PEA Report (Final).pdf - [Download](#)

Other permissions

Planning permission advice received?

Yes

Is planning permission required?

Yes

What is the status of the planning permission?

Not 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	Geraint Jones
Print Name	Geraint Jones
Position	Company Secretary

Date

* 28/01/2025

Would you like a copy of your submission?

Yes

Your email address

gerbodchwil@googlemail.com