

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

WRDM&RCREES1611

For hydropower abstractions, specify the capacity (in kilowatts) of your scheme.

25kW or less

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]

31/03/2040

Abstraction details

Abstraction location name/reference

Unnamed tributary of the Mochdre Brook, Mochdre, Newtown, Powys

Abstraction point type

Single point

National Grid Reference

SO 05000 83987

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.

Small impoundment with screened box.

This is an application to extend existing licence MD/054/0001/071 with all technical aspects unchanged from the original application. Please refer to original licence application for full details.

Abstraction quantities

Abstraction location name/reference

SO 05000 83987. This is an application to extend existing licence MD/054/0001/071 with all technical aspects unchanged from the original application. Please refer to original licence application for full details. So details repeated below.

What purpose will the water be used for?

Hydroelectric power

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 609,906.24

Daily 1,670.976

Hourly 69.624

Peak abstraction rate (in litres per second)

19.34

Number of hours of abstraction per day

24

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.

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Industry-specific requirements

	% abstraction and zone applied for	Average gradient of depleted reach (%)	Catchment size above abstraction point (kilometres squared)	Net head between abstraction and discharge points (metres)
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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.

Power Generated

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.

All water is returned to the watercourse after passing through the hydroelectric turbine.
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Fish and eel considerations (surface water abstractions only)

Does your proposal include measures to safeguard fish and eels? Only provide details of outfall screening if abstracted water is to be discharged back into a watercourse. For further guidance on appropriate screening Intake screening for fish

	Intake	Outfall
Type of fish screen	Perforated stainless steel sheet	Steel mesh
Screen aperture size (mm)	3mm diameter holes	10mm x 10mm square holes

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.

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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)
	Outfall	SO 05900 85243	All water abstracted	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

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

300mm diameter outfall pipe with steel screen on end (10mm x 10mm spacing). This is an application to extend existing licence MD/054/0001/071 with all technical aspects unchanged from the original application. Please refer to original licence application for full details.

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.

None

Planning application

Have you sought advice on your planning application?

Yes

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 D.M.Rees
Print name Daniel Rees
position Partner

Date

* 22/12/2021

Would you like a copy of your submission?

Yes

Your email address

dugwmfarm123@hotmail.com