

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

Water Resources Act 1991, Environment Act 1995, The Water Resources (Abstraction and Impoundment) Regulations 2006, The Natural Resources Body for Wales (Functions) Order 2012

## 1. Application type

- New full abstraction licence  Give existing licence serial number and/ pre-application reference number
- New temporary abstraction licence
- New licence to transfer water  20/56/12/27 Application No. 40
- Renewal of a time-limited abstraction licence
- Technical variation to an abstraction licence

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

25kW or less  >25 to 50kW  >50 to 100kW  >100kW

## 2. Linked licences

**2.1** Does your proposal involve water rights trading?

No  Yes  If yes, provide licence serial number(s)

**2.2** Is the licence (to be) aggregated with any other licences?

No  Yes  If yes, provide licence serial number(s)

## 3. Abstraction details

Provide details of all points of abstraction. Details of abstraction location(s) should correspond with any maps submitted.

If necessary, continue on a separate sheet and tick here to show that you have done this

Abstraction location name / reference	Type (single point / reach)	National Grid Reference (12 digit)	If a reach, downstream National Grid Reference (12 digit)
Forge Pond	Single Point	SO2417908651	

## 4. Means of abstraction

Detail the structure and equipment involved in the abstraction process. If this information is detailed in a supporting document, provide the document reference. For groundwater abstractions, include borehole depth and diameter and provide details of screening and lining. If necessary, continue on a separate sheet and tick here to show that you have done this.

Abstraction point is located at the centre bottom of Forge Pond. There is a screen mesh at the abstraction point. The water is gravity fed through the pipework to a Water treatment plant located on the site. There is also a branch pipe at the bottom of the feed to a Fire Hydrant situated adjacent to the Water Treatment Plant. The approximate distance between the abstraction point and the Water Treatment Plant/Fire Hydrant is 100m.

**5. Abstraction quantities**

Provide details of the abstraction quantities and periods proposed, including any deregulated abstractions (< 20 cubic metres per day) you currently have. Details of abstraction locations should correspond with any maps submitted.

Abstraction location name / reference	Purpose which water will be used for	Abstraction period (state 'all year' or give months)	Maximum annual abstraction volume (cubic metres)	Maximum daily abstraction volume (cubic metres)	Maximum hourly abstraction volume (cubic metres)	Number of hours of abstraction per day	Peak abstraction rate (litres per second)
Forge Pond	Operational Cooling	All year	45480				
		<b>Total</b>	45480				

**6. Calculations and supporting information**

Please provide further details of your intended use of water, including calculations in support of the quantities you have requested, your operational regime and any management agreements. See Guidance Note WRX for details of what is required. If your proposal involves the provision of a residual flow via a notch or orifice, provide information on how this has been calculated. If necessary, continue on a separate sheet and tick here to show that you have done this.

Figures provided in 5. Abstraction quantities are the same as granted on the original Licence of Right to Abstract Water.

## 7. Industry-specific requirements

Complete the relevant table in line with the purpose of your proposal to demonstrate a justification of need for the quantities proposed. For uses not covered here or to provide further details, please use a separate sheet and tick here to show that you have done this

### 7.1 For agricultural use:

Crop type	Soil type (for multiple soil types, indicate approximate split)	Maximum area of crop to be irrigated annually (hectares)	Maximum annual depth of irrigation to be applied (millimetres)
<i>e.g. Carrots</i>	<i>Silty clay</i>	<i>10</i>	<i>90</i>

Livestock type	Number of animals	Maximum daily quantity of water used (cubic metres)	Comments
<i>e.g. Sheep</i>	<i>200</i>	<i>0.005 per animal</i>	<i>Drinking water</i>
<b>Provide details of any additional requirements (washing / cleaning)</b>			

### 7.2 For golf course irrigation:

Feature	Maximum area to be irrigated daily (hectares)	Maximum depth of water to be applied daily (millimetres)
<i>e.g. Greens</i>	<i>0.9</i>	<i>220</i>
<b>Tees</b>		
<b>Greens</b>		
<b>Fairways</b>		
<b>Others</b>		

### 7.3 For industrial use:

Industry sector or process type	Water use per unit produced (state units)	Maximum units produced per year
<i>Hot Forging process cooling</i>	<i>Not specific, as required</i>	

**7.4** For hydropower:

If you have submitted this information as part of your pre-application enquiry and no changes have been made to your proposal in the meantime, you are not required to provide these details again.

% abstraction and zone applied for (see HGN2)	Average gradient of depleted reach (%)	Catchment size above abstraction point (kilometres square d)	Net head between abstraction and discharge points (metres)
Turbine efficiency (%)	System efficiency (%)	Maximum power output (kilowatts)	Annual capacity (kilowatt hours)

State the length of depleted reach (in metres)

**Provide the flow data (in cubic metres per second) & ratios specified below:**

Q95	
Q10	
Qmean	
What is the ratio of Q95:Qmean?	
What is the ratio of Q10:Qmean?	

Please send us a copy of the full flow duration curve for the site and confirm the method used to derive this. If you have used modelling software such as LowFlows, please provide us with a copy of the output (graph, data and catchment map) including the Long Term Average rainfall.

What low flow protection\* do you propose to maintain in the depleted reach when the hydropower scheme is operating (in m<sup>3</sup>/s)?

\* Low flow protection is the flow rate above which abstraction can begin and is separate to the abstraction % take, see HGN2 for details.

**8. Means of measurement**

State how you intend to measure abstracted quantities at each abstraction point.

Meter  Power Generated  Other

If other, please specify

**9. Water efficiency**

Describe all steps you have taken or intend to introduce to ensure efficient use of water, such as water storage, re-use or conservation provision. If necessary, continue on a separate sheet and tick here to show that you have done this.

Conservation provision provided by way of weekly visual checks of water levels & weekly meter readings. If abstracted water is not available or is obviously low, local town water provided by Welsh Water will be used as a substitute.

**10. Fish and eel considerations (surface water abstractions only)**

**10.1** Confirm the fish species present at your site. If you are submitting a survey or report with your application, please tick here to show that you have done this.

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**10.2** 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.

	Intake	Outfall
Type of fish screen		
Screen aperture size (mm)		

**11. Discharge details**

**11.1** 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.

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)

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

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**12. 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.

**13. Planning application**

Have you sought advice on your planning application?

No  Yes

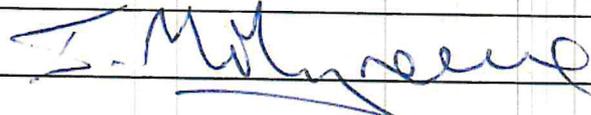
If yes, submit a copy of the Planning Authority's response.

**14. Declaration**

Please see Guidance Note WRX for details of who can sign this section and note the information in that document relating to the Data Protection Act 1998.

By signing below, you are declaring that as far as you know and believe the information given in this form, on any map and in any supporting or additional information, is true.

Signed



Print name

IAN MOLYNEUX

Position

Director

Date

24<sup>th</sup> October 2019

**Application Checklist**

Please tick the following checklist items to indicate that you have included the required information. If any sections of the form are left blank and no supporting information submitted, where we have insufficient information to make a decision on your application, we will return your application to you.

**Essential:**

Form WRD completed

Map showing applicant's land boundary with all abstraction and discharge point(s) clearly marked

Evidence of negotiations of expected access rights, if applicable

State number of continuation sheets (enter 0 if none included)

**Where relevant:**

Letter of authorisation from the applicant, allowing the agent to act as signatory

Form WRE completed, if your proposal also requires an impoundment licence

- Further information requested in our pre-application response letter to you
  - For hydropower applications, full flow duration curve for the site, confirmation of the method used to derive this and a copy of the output (graph, data and catchment map) including the Long Term Average rainfall, where available
  - Planning Authority response, where available
- Additional supporting information - please list below:

Please note that paragraph E of Part III details the Authorised Means of Extraction as being "Piped from Coity Pond and Forge Pond". This Technical variation is a request to remove the reference to Coity Pond.

- Original Abstraction Licence Serial No. 20/56/12/27. Application No. 40 dated 15th December 1965.
- Map showing applicant's land boundary with marked abstraction point.