

# 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

WRTARMACTRADINGLTD0502

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

If you require a shorter or longer duration licence, please provide details and your justification

Licence will be required for the duration of quarry operations at the site. No end point is currently specified on the licence.

## Abstraction details

Abstraction location name/reference

Hendre Quarry

Abstraction point type

Single point

National Grid Reference

SJ 19810 67680

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.

Abstraction is made using an electro-submersible pump - installed within the Dolfechlas Brook at NGR SJ 19810 67680. This supplies 2 no. nearby storage tanks (combined volume estimated 48m<sup>3</sup>) via a 40mm diameter connecting pipe. Water is abstracted from these tanks to fill the site towed bowser, which is subsequently used for direct application of dust suppression, topping up of the storage for the wheel wash and/or the sprinkler system.

The brook sump comprises a Panster PBX7-55011, 50mm unit. This can provide 290litres/minute (l/m) @2m head, 196l/m @6m head and 65l/m @12m head. Based on the anticipated head differential between the abstraction point and the tanks (estimated 6m head), current instantaneous abstraction rate is expected @ 196l/min or 3.3 litres/second.

Water is taken from the tanks into the bowser via a 4.5" suction hose connection.

## Abstraction quantities

Abstraction location name/reference

Hendre Quarry

What purpose will the water be used for?

Dust suppression and wheel wash

Period of abstraction

Will it be all year?

Yes

Maximum quantities (cubic metres)

**Annual** 58687

**Daily** 205

**Hourly** 17.3

Peak abstraction rate (in litres per second)

4.8

Number of hours of abstraction per day

12

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.

The proposed variation application will result in an associated reduction in permitted abstraction volumes as follows:

Current licence:  
78,009m<sup>3</sup>/annum  
not exceeding 272.76 m<sup>3</sup>/day

Proposed reduction (volumes to be applied for):  
58,687/annum  
not exceeding 205m<sup>3</sup>/day

The above figures are based on expected use details for the mobile bowser, wheel wash and expanded sprinkler system, as provided by Tarmac site operations. These uses are essential to the ongoing site operation, being required to prevent mobilisation of dust at the site and the removal of material on road vehicles heading to the public highway.

The calculations supporting the use figures are presented in the attached supporting information document ref. TTL\_Hendre\_AbsVar\_1\_Feb26. It is noteworthy that the proposed variation will result in an approximate 25% reduction in the currently licenced annual abstraction volume.

A series of figures detailing the site location, current and licensed abstraction points, and survey radius area, are appended here - doc ref. TTL\_Hendre\_AbsVar\_Figures\_Feb26

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

- File: TTL\_Hendre\_AbsVar\_1\_Feb26.pdf - [Download](#)
- File: TTL\_Hendre\_AbsVar\_Figures\_Feb26.pdf - [Download](#)

## Industry-specific requirements

## For industrial use

	Industry sector or process type	Water use per unit produced (state units)	Maximum units produced per year
	Quarrying	0.069m <sup>3</sup> /T	851,670 T (amount for 2025)
	-	-	-
	-	-	-
	-	-	-

## 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.

Meter

## 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.

Water is applied manually for dust suppression (via a towed bowser/sprinkler system). Water for the wheel wash is similarly topped up from the site bowser, to refill the storage tank. Both water uses are manually operated/controlled and are only applied as/when required. In addition to the above, the wheel wash captures and recycles utilised water to minimise overall use.

## 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 (opens in new tab)

	Intake	Outfall
Type of fish screen	Standard pump screen	-
Screen aperture size (mm)	7mm	-

## 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.

A survey extending 250m from the abstraction\* has not identified the presence of any water features (active abstractions, dwellings, ponds or wells) aside from the Dolfechlas Brook, from which the abstraction is made. The proposed variation is being made to move the currently permitted licenced abstraction point, to a location upstream on the same watercourse. As there have been no other water dependant features identified in proximity to the relocated abstraction point, the amended location is not expected to result in any additional negative impact on water users in the locality.

\*The survey area is shown at figure 3, which is included in the supplemental information provided earlier in the application.

## 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**      Deepa Valand-Mistry  
**Print name**   Deepa Valand-Mistry  
**position**      Permitting and Compliance Manager

If an agent is to sign on behalf of the Licence Holder, a letter of authorisation from the Licence Holder is required.

- File: TTL November 2025 - Letter of Authority. .docx.pdf - [Download](#)

Date

\* 13/02/2026

## Submit your application

Enter your email address to get a copy of your application

paul@bclhydro.co.uk