

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

WRAGGREGATESEXPRESS1223

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]

14/12/2041

Abstraction details

Abstraction location name/reference

Forest Wood Quarry Sump

Abstraction point type

Area

National Grid Reference

BELOW

Downstream National Grid Reference (If abstracting from a reach), or corners of the area.

ST 01350 79871
ST 01607 79930
ST 01761 79615
ST 01507 79470

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.

Forest Wood Quarry Sump Abstraction:
Up to three submersible Flygt BS 2400 HT~243 90 kW pumps (2 during standard use, 3 during heavy rainfall)
Rated at 55 l/s at 70 m head
Total abstraction rate ~165 l/s
0.45 m diameter pipe to discharge point

If necessary, continue on a separate sheet and upload below.

- File: FW Pump Specs.pdf - [Download](#)

Abstraction quantities

Abstraction location name/reference

Forest Wood Quarry Sump

What purpose will the water be used for?

Dewatering

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 5203440

Daily 14256

Hourly 594

Peak abstraction rate (in litres per second)

165

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.

Using maximum instantaneous flow rate of discharge - 165 l/s

Assuming dewatering 24 hours a day, 365 days a year

Tie in with existing discharge consent (EPR/CB3696CN) allowing for a maximum rate of discharge of 175 l/s

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.

Site operates under Environmental Management System ISO 14001:2004.
Checking for leaks along pipes, monitoring and reporting of environmental performance.
Abstracted water is discharged and returned to the same aquifer.

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)
	Piped Discharge	ST 02259 79523	5203440	EPR/CB3696CN
	-	-	-	-
	-	-	-	-
	-	-	-	-

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

Connection from settlement pond using 450 mm diameter pipe. Flow via gravity to connect to existing 900 mm diameter culvert south of Cowbridge Road.

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.

No nearby abstractors have reported being affected over 30+ years of historical abstraction at Forest Wood Quarry.

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 Gavinder Meetca

Print name Gavinder Meetca

position Hydrogeologist

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

- File: 392. BCL authority.pdf - [Download](#)

Date

* 14/12/2023

Would you like a copy of your submission?

Yes

Your email address

gavinder@bclhydro.co.uk