

# 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

WA/057/0022/0003

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 is for abstraction during existing mineral extraction. The licence to abstract will be for this worked phase and will likely look for an extension where an additional phase of mineral extraction is successfully granted planning.

## Abstraction details

Abstraction location name/reference

Quarry Sump

Abstraction point type

Area

National Grid Reference

ST 12998 96247

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

ST 12998 96247  
ST 13043 96216  
ST 13015 96182  
ST 12972 96220

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.

The abstraction licence application pertains to the current abstraction of captured waters within the sump area of the quarry, using a mobile abstraction pump. These captured waters believed to be a combination of intercepted groundwaters from within the Grovesend Formation aquifer, and captured surface waters from the quarry floor. These waters are pumped out of the quarry sump through a piped outlet along the southern boundary of the quarry to the quarry entrance, in the south-western corner, at which point the water is directed towards a large concrete chamber which discharges via a 225mm diameter pipe to a small section of open ditch, this ditch then discharges via a 300mm diameter pipe which directs the flow to a settlement lagoon system.

Full details are provided in the Hydrogeo Pump Test Report issued to NRW and dated December 2021

## Abstraction quantities

Abstraction location name/reference

Quarry Sump

What purpose will the water be used for?

Mineral Extraction

Period of abstraction Will it be all year?

Yes

### Maximum quantities (cubic metres)

**Annual** 200000

**Daily** 1574

**Hourly** 65.5

### Peak abstraction rate (in litres per second)

18.88

### 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.

Volume calculation based on previous pump test undertaken on site. Full details are provided within the Hydrogeo Pump Test Report dated December 2021 issued to NRW under separate cover. Volumes provided by pump tests substantiate the volume of water required in order to continue working.

## 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.

Application relates to the dewatering of Bryn Quarry in order to continue the abstraction of mineral resources. As detailed in the supporting reports.  
Water will be discharged to surface waters in accordance with the existing discharge consent (Permit EPR/CB3391ZY).  
Water is used where appropriate, such as the water used within the fire fighting lagoon on site.

## 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)
Outlet 1	312437,196214	1425m3/day	EPR/CB3391ZY
-	-	-	-
-	-	-	-
-	-	-	-

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

As detailed in Permit EPR/CB3391ZY

## 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.

Full details included in the Hydrogeo Pump Test Report undertaken in December 2021 as part of a groundwater investigation consent to support an abstraction license application (ref: PPN-00532).

Enquires were made with Caerphilly County Borough Council, and Natural Resources Wales with regards to a list of nearby groundwater abstractions. Both parties have confirmed they have no records of any groundwater abstractions within a 2km radius of the Site.

## Planning application

Have you sought advice on your planning application?

Yes

Submit a copy of the Planning Authority's response.

- File: 19\_0276\_NCC-DECISION\_-\_VERSION\_2-7166381.pdf - [Download](#)

## 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** ADPrice

**Print name** Alun Price

**position** Managing Director

Date

\* 10/05/2022

Would you like a copy of your submission?

Yes

Your email address

jcprice@bryngroup.co.uk