

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

WRALUNGRIFFITHS2602

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]

31/12/2024 (may need to be later dependent on when license determined)

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

License is for temporary dewatering so only required until works completed.

Abstraction details

Abstraction location name/reference

Beach Road SPS Dewatering Area

Abstraction point type

Area

National Grid Reference

SH 58635 72860 (See layout.pdf attached to Form WRA)

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

SH 58619 72897
SH 58580 72831
SH 58674 72739
SH 58725 72781

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 temporary dewatering works will be undertaken by a specialist contractor and is anticipated to comprise a wellpointing system installed no deeper than 12m below ground level connected to a series of surface vacuum pumps, together with filtered sump pumping. The abstracted water will be discharged to the Welsh Water combined sewer system, via a siltbuster and/or settlement tank.

Abstraction quantities

Abstraction location name/reference

Beach Road SPS Dewatering Area

What purpose will the water be used for?

Construction dewatering

Period of abstraction Will it be all year?

No

Start Date: [DD/MM/YY]

As soon as possible

End Date: [DD/MM/YY]

31/12/2024 (may need to be later dependent on when license determined by)

Maximum quantities (cubic metres)

Annual 73000

Daily 200

Hourly 8.33

Peak abstraction rate (in litres per second)

5

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.

Construction dewatering assumed to be operational 24/7 to enable construction in the dry.

Have assumed relatively conservative abstraction rate (anticipate abstraction rates experienced on site will be lower than 200m³/d). Calculation of flows outlined in B16888102503XXZZRPNAHY6704 Rev1 (appended to Form WRA).

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.

Other (please specify):

To be confirmed with contractor, but likely to be an inline flowmeter.

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.

Abstraction will only be undertaken, as necessary, to enable excavation in the dry. System will be managed (e.g. throttling back of wells) to prevent overabstraction.

System will be regularly monitored and maintained (e.g. checking for leaks etc).

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 abstractions in vicinity (see groundwater assessment appended to WRA for further details)

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 David Parr

Print name DAVID PARR

position Managing Director

Date

* 14/03/2024

GDPR, National Security, and Commercial Confidentiality

Only tick the box below if you wish to claim confidentiality for your application.

Please treat the information in my application as confidential

Would you like a copy of your submission?

Yes

Your email address

tom.goodfellow@arup.com