

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

WRCRADO CGC2603

Are there any applications currently being assessed by us that are linked to this application?

Yes

Is the proposed abstraction going to be aggregated with another existing abstraction?

No

Linked applications

Please confirm how this application is linked to the other application(s)

Example: this application could be one of multiple abstractions and/or impoundment licence applications at the same site. The proposal could involve water rights trading, or this application could be linked to another application for a previously exempt activity.

An administrative change, specifically a change of licence holder, has been submitted through a Form WRF.

Linked application numbers

See Form WRF

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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]

In perpetuity

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

We have been informed by NRW (Charlotte Lillywhite) that the current term of the licence (in perpetuity) can be retained under the proposed technical change.

Abstraction details

Abstraction location name/reference

Cradoc Golf Club Borehole

Abstraction point type

Single point

National Grid Reference

301929 231129

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.

Existing borehole:

- Borehole drilled diameter = 150 mm.
- Borehole depth = 62 m.
- Datum elevation = 245 maOD.
- uPVC screened lining diameter = 100 mm.
- 0-9 mbGL grouted, assumed screened 9-62 mbGL.
- Submersible pump, max. capacity c. 1.5 m³/h.

Abstraction quantities

Abstraction location name/reference

Cradoc Golf Club Borehole

What purpose will the water be used for?
Spray irrigation

Period of abstraction Will it be all year?
No

Start Date: [DD/MM/YY]
01/03/22

End Date: [DD/MM/YY]
31/10/22

Maximum quantities (cubic metres)
Annual 5300
Daily 29
Hourly 1.4

Peak abstraction rate (in litres per second)
0.56

Number of hours of abstraction per day
21

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 abstraction is for golf course irrigation. The water demand is approximately:
 - 22 greens, aggregate area = 500 m², water demand = 0.025 m³/week. Water demand = 275 m³/week.
 - 22 tees, aggregate area = 500 m², water demand = 0.015 m³/week. Water demand = 165 m³/week.
 - Aggregate demand = 440 m³/week = 62.85 m³/day.
 The proposed abstraction rate (29 m³/day) is less than the demand, but it is accepted that this is effectively fixed under the existing licence. Further supply and demand management options are under consideration.

Industry-specific requirements

For golf course irrigation

	Maximum area to be irrigated daily (hectares)	Maximum depth of water to be applied daily (millimetres)
Tees	0.05	2.143
Greens	0.05	3.571
Fairways	-	-
Others	-	-

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.

- Irrigation demand is closely monitored, and irrigation is strictly demand-led.
- Irrigation will be concentrated during the night-time, when evaporation rates are lowest.
- Irrigation rates will be limited to avoid surface runoff from irrigated surfaces.
- The irrigation system is continuously monitored for leaks.

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.

None

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 Nicholas Morrell

Print name Nicholas Morrell

position Company Director

Date

* 26/03/2022

Would you like a copy of your submission?

Yes

Your email address

rob@rigare.co.uk