

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

WRButtercupPoultry0906

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]

09/06/2043

Abstraction details

Abstraction location name/reference

Borehole 2

Abstraction point type

Single point

National Grid Reference

SO 13732 72634

Do you have any further points of abstraction?

Yes

Abstraction details - Further points

Abstraction location name/reference
Borehole 3

Abstraction point type
Single point

National Grid Reference
SO 12718 72224

Do you have any further points of abstraction?
Yes

Abstraction details - Further points

Abstraction location name/reference
Borehole 6

Abstraction point type
Single point

National Grid Reference
SO 12776 72312

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.
BH2 - Thought to be drilled to ~110m below ground level. No drill log or installation details available for this borehole. Submersible electric pump installed at ~88mBGL. Maximum flow rate of borehole recorded at 1.5m³/hour BH3 - Drilling log and installation details attached. Maximum flow rate recorded at 2.82m³/hour BH6 - No drilling log or installation details available. Submersible electric pump installed at ~26mBGL. Maximum borehole flow rate of 2.5m³/hour.

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

- File: SO127723 Ddol Farm, Llanbister (Lewis) Log 1809.pdf - [Download](#)

Abstraction quantities

Abstraction location name/reference

Borehole 2

What purpose will the water be used for?

Poultry and Cattle - Wash down and drinking

Period of abstraction

Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 13140

Daily 36

Hourly 1.5

Peak abstraction rate (in litres per second)

0.42

Number of hours of abstraction per day

24

Add quantities for another location?

Yes

Abstraction quantities - Another location

Abstraction location name/reference

Borehole 3

What purpose will the water be used for?

Poultry and Cattle - Wash down and Drinking

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 24,703

Daily 67.68

Hourly 2.82

Peak abstraction rate (in litres per second)

0.78

Number of hours of abstraction per day

24

Add quantities for another location?

Yes

Abstraction quantities - Another location

Abstraction location name/reference

Borehole 6

What purpose will the water be used for?

Poultry and Cattle - Washdown and Drinking

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 21,900

Daily 60

Hourly 2.5

Peak abstraction rate (in litres per second)

0.69

Number of hours of abstraction per day

24

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

- File: Hydrogeo letter.docx - [Download](#)

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.

As there are no pressure gauges associated with the boreholes, no adjustments were made to the borehole pipework valves during the Pump Testing to avoid any damages to the pump and associated pipeworks. Therefore, borehole valves remained in a fully-open position, with testing conducted at the maximum achievable flow rates at each of the borehole positions.

The applicant has indicated that a total combined volume of 90m³/day from the three boreholes is sufficient for site operations.

Industry-specific requirements

For agricultural use

	Livestock type	Number of animals	Maximum daily quantity of water used (cubic metres)	Comments
	Chickens	180,000	-	Drinking water and wash down
	Cows	300	-	Drinking and wash down
	-	-	-	-

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):

Boreholes BH2, BH3 and BH6 now fitted with flow meters

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.

All boreholes feed storage tanks. These tanks and associated pipework are to be checked at regular intervals to ensure that no breaks or leaks in the pipework and tanks that may result in water being wasted, and additional abstraction because of water loss to ground.

The storage tanks contain float switches which control the electric submersible borehole pumps, and therefore control the periods of groundwater abstraction. This results in an intermittent pumping pattern over the long term, where periods of groundwater abstraction are followed by periods of groundwater level recovery. This prevents over-abstraction of the underlying aquifer, and subsequent excessive drawdown impacts.

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.

Water Feature Survey progressed as part of the GIC Application did not identify any Private Water Supplies within the vicinity of the Site. We have not been informed by the EA regarding the presence of any licensed abstraction within the vicinity of the Site

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 C.Betts
Print name Chris Betts
position Hydrogeo (Agent) Director

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

- File: Hydrogeo letter.docx - [Download](#)

Date

* 17/06/2026

Submit your application

Enter your email address to get a copy of your application

scott@hydrogeo.co.uk