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
WRSPATONE0104

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]
01/07/2040

Abstraction details

Abstraction location name/reference
bath house

Abstraction point type
Single point

National Grid Reference
SH77832 65305

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 borehole is installed horizontally into the mountain.
the borehole pipe is 37.1m in length and consists of an 8 inch outer casing a 6 inch inner casing within which a 3 inch pipe runs which carries the water.
a 1 inch stainless steel pipe is connected to the end ball valve and this runs to the pump and filter systems within the plant (attached document provides further details)
the water is gravity fed through the pipe from the mountain to the pump and filters inside the plant

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

- File: Water abstraction activities at Spatone final.docx - Download
- File: bore hole details.pdf - Download

Abstraction quantities

Abstraction location name/reference

bath house / SH77832 65305

What purpose will the water be used for?

filled into sachets for sale to the general public

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 6097

Daily 23.45

Hourly 1.0

Peak abstraction rate (in litres per second)

0.46

Number of hours of abstraction per day

24 hours a day for 5 days per week

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.

calculation for annual, daily and hourly rates are taken from the attached spread sheet and is an average of the quantities used we have also added 10% for any future increase

therefore.
5543 cubic meters per year + 10% = 6077 cubic meters
21.32 cubic meters per day +10% = 23.45 cubic meters per day
0.9 cubic meters per hour + 10% = 1.0 cubic meter per hour.

peak abstraction rate in lts per second is based on the highest daily cubic meters use = 39.6 which was recorded on 25 May 2021 and is equal to 0.46lts per second

Additional document. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)

- File: Copy of Spatone Flow Rate 03.2021-22-4-22.xlsx - Download

Industry-specific requirements

For industrial use

	Industry sector or process type	Water use per unit produced (state units)	Maximum units produced per year
	food	average fill volume of 25mls per sachet	40 million sachets
	-	-	-
	-	-	-
	-	-	-

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):
manual record from an inline flow 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.

monitoring of flow rates and for leaks in the production system.
any waste is returned to drain into the natural water courses adjacent to the 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)
	adjacent field	SH77852 65329	940	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

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

any water not used is discharged via the natural water systems into the land opposite the site.

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 nearby (see WSP report)

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	Kevin Pratt
Print name	Kevin Pratt
position	Health & Safety Adviser

If you need to submit additional signatures, please upload here in a separate document.
• File: signature.pdf - Download

Date
* 22/07/2022

Would you like a copy of your submission?
Yes

Your email address
kevinpratt@nelsons.net