

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

WRUNITEDPETFOODUKLTD0603

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]

31/03/42

Abstraction details

Abstraction location name/reference

Borehole A

Abstraction point type

Single point

National Grid Reference

SN 69659 28500

Do you have any further points of abstraction?

Yes

Abstraction details - Further points

Abstraction location name/reference
Borehole B
Abstraction point type
Single point
National Grid Reference
SN 69669 28470
Do you have any further points of abstraction?
Yes

Abstraction details - Further points

Abstraction location name/reference
Borehole C
Abstraction point type
Single point
National Grid Reference
SN 69699 28460
Upload any additional points of abstraction below. (Spreadsheet file formats need to be: .xls, .xlsx, or .ods)
<ul style="list-style-type: none">File: Borehole Locations.xlsx - Download

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.

Boreholes A-E with extraction pumps (x5)

Each Pump Capacity - not exceeding 11.1 litres per second

Depth of borehole approximately 20 meters.

Steel pipe lining diameter 12"

Extraction pipe diameter 4"

Abstraction quantities

Abstraction location name/reference

Borehole A SN 69659 28500 Borehole B SN 69669 28470 Borehole C SN 69669 28460 Borehole D SN 69728 28450 Borehole E SN 69751 28431

What purpose will the water be used for?

Commercial processing and washing operations

Period of abstraction Will it be all year?

Yes

Maximum quantities (cubic metres)

Annual 986905

Daily 3181

Hourly 146

Peak abstraction rate (in litres per second)

41

Number of hours of abstraction per day

variable up to 24 hours

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.

Volumes required for abstraction vary with customer orders creating production demand. For example, Chunk production uses more water than Loaf production. Chunk products are produced more frequently than the loaf product. The chunk process requires water to cool the product prior to cutting into chunks and to clean the cans (sprinkler) during the filling process. Therefore, this process uses more water. Attached is a document to show 3 types of production days - Chunk, Loaf and 1200g Chunk. Tray product is also produced in addition on these days. Production maybe 4 or 5 days a week depending on customer demand. In addition to the process, washdown water is used for dolavs and IBCs. This is separate from internal hygiene re-use of some of the retort cooling water. The Effluent Plant also uses water to dilute the effluent during processing.

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

- File: Breakdown of water use.xlsx - [Download](#)

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.

Retort cooling water is re-used at a rate of 59m³ (2 storage tanks) per day. High power hoses are used to clean dolavs and IBCs, therefore using less water than low pressure high volume hoses. The use of a Glycol re-circulation system for the retort process is currently being quoted for. This will reduce the amount of water demand for abstraction. A new bespoke effluent plant is being quoted for that will reduce water use, and clean to a higher standard. Water abstraction volumes are monitored, checked for leaks and metered as per environmental permit requirements. Rainfall harvesting is also being considered as part of the plant refurbishment.

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)
Discharge Point	SN 69608 28393	1000m3	EPR/CB3091HY
-	-	-	-
-	-	-	-
-	-	-	-

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

V Notch Channel with MCERTS PULSAR ULTRA 4 Flowmeter

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.

Anglers and canoeists

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 JP Cronje
Print name JP Cronje
position General Manager

If you need to submit additional signatures, please upload here in a separate document.

- File: 20231205 - POA - Jean Piere Cronje.docx.pdf - [Download](#)

Date

* 12/03/2024

Would you like a copy of your submission?

Yes

Your email address

z.nugent@unitedpetfood.co.uk