

28 November 2019

Permitting Receipt Centre  
Natural Resources Wales  
Ty Cambria  
29 Newport Road  
Cardiff  
CF24 0EY

Dear Sir/Madam,

**DECANTAE MINERAL WATER LIMITED**

**APPLICATION FOR NEW GROUNDWATER ABSTRACTION LICENCE FROM NEW  
BOREHOLE AT TROFARTH FARM, LLANGERNYW, ABERGELE, LL22 8RF**

Please find enclosed an application for a new groundwater abstraction on behalf of Decantae Mineral Water Limited to cover their future abstraction of groundwater for bottling from their new 'BH5' at Trofarth Farm, Llangernyw, Abergelle, LL22 8RF. An application to cover historic water use from their other abstraction points (PAN-007278) has been validated under the 'Transition Regulations'.

Enclosed is:

- Application Form WRA and WRD along with associated Figures and a Continuation Sheet for further information.
- A letter of authorisation from Decantae Mineral Water Limited allowing Envireau Water to sign forms relating to the abstraction licence application and liaise with Natural Resources Wales on their behalf.
- Justification of need for the new abstraction volume.

Please contact us 01332 871882 to arrange payment of the £135 application fee by credit card.

Please ensure that all correspondence regarding the application is directed to myself (the Agent) so that we are able to respond promptly. Please also ensure a draft licence copy is sent to myself for review prior to final sign off.

Yours faithfully,

*Tamsin Morey*

**Tamsin Morey MSc CEnv**  
**Principal Water Resources Specialist**



*The Prince Of Natural Waters*

Ref: P19-247 Cott DC Lic \ LET Auth NW DC

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Dear Sir/Madam,

**DECANTAE MINERAL WATER LIMITED**

**APPLICATION FOR NEW GROUNDWATER ABSTRACTION LICENCE FROM NEW  
BOREHOLE AT TROFARTH FARM, LLANGERNYW, ABERGELE, LL22 8RF**

We hereby authorise Envireau Water of Cedars Farm Barn, Market Street, Draycott, Derbyshire, DE72 3NB to represent and sign on our behalf, forms relating to the submission of an abstraction licence application for a new groundwater abstraction at Trofarth Farm.

Yours faithfully,

**Ian Spooner**  
**Director**

# FORM WRA: Applicant details and proposal outline

Water Resources Act 1991 (as amended by the Water Act 2003),  
Environment Act 1995, The Water Resources (Abstraction and Impounding)  
Regulations 2006, The Natural Resources Body for Wales (Functions) Order 2012



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

## 1. Application type and fee

For the application types listed, complete this form and/or the relevant additional forms named below. Please tick which forms have been included with your application. Forms should be completed with reference to Guidance Note WRX.

- |   |  |
|---|--|
| * Pre-application enquiry (non-hydropower)            | <input type="checkbox"/> Only complete this form           |
| * Pre-application enquiry (hydropower)                | <input type="checkbox"/> Also complete form WRB            |
| * Application for a Groundwater Investigation Consent | <input type="checkbox"/> Only complete form WRC            |
| New full abstraction licence                          | <input checked="" type="checkbox"/> Also complete form WRD |
| New temporary abstraction licence                     | <input type="checkbox"/> Also complete form WRD            |
| New licence to transfer water                         | <input type="checkbox"/> Also complete form WRD            |
| New impoundment licence                               | <input type="checkbox"/> Also complete form WRE            |
| Renewal of a time-limited licence                     | <input type="checkbox"/> Also complete form WRD            |
| Removal of an existing impoundment                    | <input type="checkbox"/> Also complete form WRE            |
| Technical variation of an abstraction licence         | <input type="checkbox"/> Also complete form WRD            |
| Technical variation of an impoundment licence         | <input type="checkbox"/> Also complete form WRE            |
| * Administrative variations to existing licences      | <input type="checkbox"/> Only complete form WRF            |
| * No fee required                                     |  |

Please indicate how you wish to pay your application fee and provide a reference number where relevant.

Cheque ☐ BACS ☐ Credit or debit card ☒

Your reference number

## 2. Applicant details

This is who the licence would be issued to and must be a legal entity such as an individual, registered company, charity or public body. If you are an agent acting on behalf of an applicant, provide their details here and yours in Section 3. See Guidance Note WRX for clarification of the details required and signatories permissible for organisations.

### Applicant type:

- |             |                          |                 |                                     |         |                          |                |                          |
|-------------|--------------------------|-----------------|-------------------------------------|---------|--------------------------|----------------|--------------------------|
| Individual  | <input type="checkbox"/> | Limited company | <input checked="" type="checkbox"/> | Charity | <input type="checkbox"/> | Corporate body | <input type="checkbox"/> |
| Partnership | <input type="checkbox"/> | Sole trader     | <input type="checkbox"/>            | Club    | <input type="checkbox"/> | Other          | <input type="checkbox"/> |
- If other, please specify

Title

Full Name

Company, Charity or  
Trading Name

Decantae Mineral Water Limited

Company or Charity  
Registration Number

01949922

Registered Address

C/O Aimia Foods Limited  
Penny Lane  
Haydock  
St Helens England  
Postcode: WA11 0QZ

Office:  
Mobile:

Telephone Number

Email Address

[mark@decantae.co.uk](mailto:mark@decantae.co.uk) (See CONT NW DC)

We will contact you by email unless you tick here ☐

Please specify who we should contact with regard to your site operation.

Site operations contact

Applicant ☒

Agent ☐

For applications for abstraction licences, please also specify who we should contact for invoices and abstraction records (returns).

Invoice address\*

Applicant ☒

Agent ☐

Abstraction records contact\*

Applicant ☒

Agent ☐

\* Not required for temporary or transfer licences.

Enter the agent's details in Section 3, or provide details of alternative or additional contacts on a separate sheet and tick here to show that you have done so. ☐

### 3. Details of agent or individual authorised to act as application contact

This is who we will correspond with unless otherwise informed. If an agent has signed on behalf of an applicant, please include a letter of authorisation from the applicant allowing the agent to act as signatory.

Title

Ms

Full Name

Tamsin Morey

Company, Charity or  
Trading Name

Envireau Water

Position in Company

Principal Water Resources Specialist

Registered Address

Cedars Farm Barn  
Market Street  
Draycott  
Derbyshire  
Postcode: DE72 3NB

Telephone Number

Office: 01332 871889  
Mobile: 07976 168997

Email Address

tamsin@envireauwater.co.uk

### 4. Entitlement to apply (only required for abstraction licence applications)

Does the applicant have a legal right of access to the point of abstraction?

Has a right of access

☐

Has an expected right of access

☐

Owner/occupier of land

☒

Date these access rights are expected

For formal abstraction licence applications where you are the landowner/occupier, provide a map with the land boundary and all abstraction and discharge point(s) marked. Please tick here to show that you have done this. ☒

For expected rights of access, please also provide the additional evidence as outlined in Guidance Note WRX. Please tick here to show that you have done this. ☐

## 5. Application reference number

Have you undertaken a pre-application enquiry or had any previous discussions with us?

No ☐ Yes ☒ Provide reference number or staff member's name

PAN- 007278  
Natalie Wrangham / Mary Beckett

## 6. Remediation work

Is this proposal as a result of a Restoring Sustainable Abstraction programme or other work requested by us?

No ☒ Yes ☐ If yes, provide your licence number

## 7. Source of supply

7.1 State where you intend to abstract from

Surface Water ☐ Groundwater ☒

Give Groundwater Investigation Consent number if applicable

PPN-00266

7.2 Provide a 12 digit National Grid Reference for the proposed or existing abstraction or impoundment point (e.g. ST 19057 76826)

BH5

SH 85863 70523

See CONT NW DC

7.3 Source of supply or location of proposed impoundment

Elwy Group

7.4 Site name / reference

Trofarth Farm

## 8. Proposal summary

Please provide an outline of your proposal as described in Guidance Note WRX, including any sketches. If you are submitting a pre-application enquiry, this must include the quantities of water you propose to abstract. If necessary continue on a separate sheet and tick here to show that you have done this. ☒

See CONT NW DC

## 9. Declaration

Please see Guidance Note WRX for details of who can sign this section and note the information in that document relating to the Data Protection Act 1998.

By signing below, you are declaring that as far as you know and believe the information given in this form, on any map and in any supporting or additional information, is true.

Signed

Tamsin Morey

Print name

Tamsin Morey

Position

Agent to Decantae Mineral Water Limited

Date

26/11/2019

### Application Checklist

Please tick the following checklist items to indicate that you have included the required information. If any sections of the form are left blank and no supporting information submitted, where we have insufficient information to make a decision on your application, we will return your application to you.

#### Essential:

Letter of authorisation from the applicant, allowing the agent to act as signatory ☒

Map showing the land ownership boundary with all abstraction and discharge point(s) clearly marked ☒

#### Where relevant:

Evidence of negotiations of expected access rights, if applicable ☐

For groundwater abstractions, results of pump test (if not previously submitted) ☒

For Natural Resources Wales' use only:

Date received \_\_\_\_\_

Reference Number \_\_\_\_\_

Payment received Yes ☐ Amount received \_\_\_\_\_  
No ☐ Not required ☐

# FORM WRD: Application for a new abstraction licence or a technical variation to an abstraction licence

Water Resources Act 1991, Environment Act 1995, The Water Resources (Abstraction and Impoundment) Regulations 2006, The Natural Resources Body for Wales (Functions) Order 2012

## 1. Application type

- New full abstraction licence ☒ Give existing licence serial number and/  
New temporary abstraction licence ☐ pre-application reference number  
New licence to transfer water ☐  
Renewal of a time-limited abstraction licence ☐ PAN- 007278 / PPN-00266  
Technical variation to an abstraction licence ☐

For hydropower abstractions, specify the capacity (in kilowatts) of your scheme.

25kW or less ☐ >25 to 50kW ☐ >50 to 100kW ☐ >100kW ☐

## 2. Linked licences

### 2.1 Does your proposal involve water rights trading?

No ☒ Yes ☐ If yes, provide licence serial number(s)

### 2.2 Is the licence (to be) aggregated with any other licences?

No ☒ Yes ☐ If yes, provide licence serial number(s)

## 3. Abstraction details

Provide details of all points of abstraction. Details of abstraction location(s) should correspond with any maps submitted.

If necessary, continue on a separate sheet and tick here to show that you have done this ☐

Abstraction location name / reference	Type (single point / reach)	National Grid Reference (12 digit)	If a reach, downstream National Grid Reference (12 digit)
BH5	Single point	SH 85863 70523	

## 4. Means of abstraction

Detail the structure and equipment involved in the abstraction process. If this information is detailed in a supporting document, provide the document reference. For groundwater abstractions, include borehole depth and diameter and provide details of screening and lining. If necessary, continue on a separate sheet and tick here to show that you have done this. ☒

See 'CONT NW DC' and 'Test Pumping Report'

## 5. Abstraction quantities

Provide details of the abstraction quantities and periods proposed, including any deregulated abstractions (< 20 cubic metres per day) you currently have. Details of abstraction locations should correspond with any maps submitted.

Abstraction location name / reference	Purpose which water will be used for	Abstraction period (state 'all year' or give months)	Maximum annual abstraction volume (cubic metres)	Maximum daily abstraction volume (cubic metres)	Maximum hourly abstraction volume (cubic metres)	Number of hours of abstraction per day	Peak abstraction rate (litres per second)
BH5	Water Bottling	All Year	14,016	38.4	1.6	24	0.44
Total			14,016	38.4	1.6		

## 6. Calculations and supporting information

Please provide further details of your intended use of water, including calculations in support of the quantities you have requested, your operational regime and any management agreements. See Guidance Note WRX for details of what is required. If your proposal involves the provision of a residual flow via a notch or orifice, provide information on how this has been calculated.

If necessary, continue on a separate sheet and tick here to show that you have done this. ☒

See 'CONT NW DC', 'Test Pumping Report' and associated workbook 'DC Need NW.xlsx'



## 7. Industry-specific requirements

Complete the relevant table in line with the purpose of your proposal to demonstrate a justification of need for the quantities proposed. For uses not covered here or to provide further details, please use a separate sheet and tick here to show that you have done this ☐

### 7.1 For agricultural use:

Crop type	Soil type (for multiple soil types, indicate approximate split)	Maximum area of crop to be irrigated annually (hectares)	Maximum annual depth of irrigation to be applied (millimetres)
<i>e.g. Carrots</i>	<i>Silty clay</i>	<i>10</i>	<i>90</i>

Livestock type	Number of animals	Maximum daily quantity of water used (cubic metres)	Comments
<i>e.g. Sheep</i>	<i>200</i>	<i>0.005 per animal</i>	<i>Drinking water</i>
Provide details of any additional requirements (washing / cleaning)			

### 7.2 For golf course irrigation:

Feature	Maximum area to be irrigated daily (hectares)	Maximum depth of water to be applied daily (millimetres)
<i>e.g. Greens</i>	<i>0.9</i>	<i>220</i>
Tees		
Greens		
Fairways		
Others		

### 7.3 For industrial use:

Industry sector or process type	Water use per unit produced (state units)	Maximum units produced per year
<i>e.g. Ice cream</i>	<i>1.9 cubic metres per tonne of ice cream</i>	<i>10,000 tonnes</i>
Water Bottling	2.06m <sup>3</sup> per 1m <sup>3</sup> bottled	6,798m <sup>3</sup>
		*See DC Need NW.xlsx

#### 7.4 For hydropower:

If you have submitted this information as part of your pre-application enquiry and no changes have been made to your proposal in the meantime, you are not required to provide these details again.

% abstraction and zone applied for (see HGN2)	Average gradient of depleted reach (%)	Catchment size above abstraction point (kilometres square d)	Net head between abstraction and discharge points (metres)
Turbine efficiency (%)	System efficiency (%)	Maximum power output (kilowatts)	Annual capacity (kilowatt hours)

State the length of depleted reach (in metres)

#### Provide the flow data (in cubic metres per second) & ratios specified below:

Q95	
Q10	
Qmean	
What is the ratio of Q95:Qmean?	
What is the ratio of Q10:Qmean?	

Please send us a copy of the full flow duration curve for the site and confirm the method used to derive this. If you have used modelling software such as LowFlows, please provide us with a copy of the output (graph, data and catchment map) including the Long Term Average rainfall.

What low flow protection\* do you propose to maintain in the depleted reach when the hydropower scheme is operating (in m<sup>3</sup>/s)?

\* Low flow protection is the flow rate above which abstraction can begin and is separate to the abstraction % take, see HGN2 for details.

#### 8. Means of measurement

State how you intend to measure abstracted quantities at each abstraction point.

Meter ☒ Power Generated ☐ Other ☐

If other, please specify

#### 9. Water efficiency

Describe all steps you have taken or intend to introduce to ensure efficient use of water, such as water storage, re-use or conservation provision. If necessary, continue on a separate sheet and tick here to show that you have done this. ☐

Regular checks for leaks are carried out and any repairs undertaken ASAP.

## 10. Fish and eel considerations (surface water abstractions only)

**10.1** Confirm the fish species present at your site. If you are submitting a survey or report with your application, please tick here to show that you have done this. ☐

N/A
-----

**10.2** Does your proposal include measures to safeguard fish and eels? Only provide details of outfall screening if abstracted water is to be discharged back into a watercourse.

	Intake	Outfall
Type of fish screen		
Screen aperture size (mm)		

## 11. Discharge details

**11.1** 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.

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)
Soakaway	SH 85767 70598	5-20 m <sup>3</sup> /d	In progress

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

See 'CONT NW DC'
------------------

## 12. 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.

See 'Test Pumping Report'

## 13. Planning application

Have you sought advice on your planning application?

No ☒ Yes ☐

If yes, submit a copy of the Planning Authority's response.

## 14. Declaration

Please see Guidance Note WRX for details of who can sign this section and note the information in that document relating to the Data Protection Act 1998.

By signing below, you are declaring that as far as you know and believe the information given in this form, on any map and in any supporting or additional information, is true.

Signed

Tamsin Morey

Print name

Tamsin Morey

Position

Agent to Decantae Mineral Water Limited

Date

26/11/2019

### Application Checklist

Please tick the following checklist items to indicate that you have included the required information. If any sections of the form are left blank and no supporting information submitted, where we have insufficient information to make a decision on your application, we will return your application to you.

#### Essential:

Form WRA completed

☒

Map showing applicant's land boundary with all abstraction and discharge point(s) clearly marked

☒

Evidence of negotiations of expected access rights, if applicable

☐

State number of continuation sheets (enter 0 if none included)

3 sides

#### Where relevant:

Letter of authorisation from the applicant, allowing the agent to act as signatory

☒

Form WRE completed, if your proposal also requires an impoundment licence

☐

Further information requested in our pre-application response letter to you

☐

For hydropower applications, full flow duration curve for the site, confirmation of the method used to derive this and a copy of the output (graph, data and catchment map) including the Long Term Average rainfall, where available ☐

Planning Authority response, where available ☐

Additional supporting information - please list below:

# APPLICATION FOR A NEW ABSTRACTION LICENCE FROM GROUNDWATER FROM NEW 'BH5' AT TROFARTH FARM

## DECANTAE MINERAL WATER LIMITED

### Continuation Sheet

#### Overview/Background

Groundwater has been abstracted at Trofarth Farm, Llangernyw since the 1950's. Groundwater is now used for commercial water bottling by Decantae Mineral Water Limited (Decantae). Mains water is used domestically.

Water bottling commenced in 1986 after official recognition of the Decantae Spring as a Natural Mineral Water. The Decantae brand is recognised as one of the top 5 bottled water brands in the premium sector of the market. The water is served throughout the UK and Europe in top hotels, restaurants and conferencing venues. The site manufactures glass, PET and cuplets for a number of high-profile accounts including: Savoy, D and D London, Thistle Hotels, KLM airlines worldwide and Air Lingus.



The site is located in an upland, rural setting and covers an area of approx. 13Ha. The land is used to grow grass as a crop for silage.

A spring supply (Spr) and two boreholes (BH1 & BH4) currently provide water for water bottling purposes (Figure 1) and an application covering the historic abstraction from these points has been validated under the 'Transitional Regulations' (PAN-007278).

A new borehole (BH5) which was constructed and test pumped under GIC PPN-00266, is currently being licensed through this application. BH5 will act as an additional water source to cover business expansion through new bottling contracts from 2020.

New investment of £550k is supporting the construction of a new warehouse facility and purchase of a new cuplet line for the site which will allow increased production in both cuplets and glass. The increased cuplet production is being driven by Decantae being the first people to manufacture in the first 100 % recyclable cup made from 100% recyclable PET which has created significant extra interest in the brand.

**Form WRA – Section 7- Source of supply**

BH5 targets the Elwy Group of the Ludlow series.

BH5 is located at SH 85863 70523 at an elevation of 243 m AOD. BH5 was constructed in April 2018 to a depth of 41 m with a final drilled diameter of 250 mm. The borehole was completed with a 12m grouted steel surface casing (380mm) and has 150mm uPVC casing from 0 – 41mbgl. The top 11m is plain, 11-36mbgl is slotted and the bottom ~5m of the borehole comprises plain plastic casing.

**Form WRA – Section 8- Proposal Summary**

The results of the test pumping (presented in the accompanying report) showed that the hole can support an abstraction rate of 1.6m<sup>3</sup>/hour without adversely impacting the local groundwater or surface water environment. It is therefore appropriate for an abstraction licence to be issued based on the following maximum abstraction rates:

- Hourly: 1.6m<sup>3</sup>
- Daily: 38.4 m<sup>3</sup>
- Annual: 14,016 m<sup>3</sup>

The annual volume above would support a proposed growth in production covering 86ml recycled cuplets and 750ml glass bottles over and above the existing production at the site up to the maximum production figures presented in the table below:

	Max Units	Capacity (ml)	Bottled Volume (m3)
Recycled cuplets	41,982,000	86	3,610
Glass bottles	4,250,000	750	3,188
<i>Total Sales Volume</i>			6,798

At the site, abstraction was measured between Feb 2018 and February 2019 (data presented with the Transitional Application PAN-007278) to represent 206% of the sales volume. The calculations in the above table are presented in the accompanying Excel workbook 'DC Need NW.xlsx'.

**Form WRD – Section 4- Means of Abstraction**

Borehole construction is summarised in **WRA – Section 7** above. A permanent electric submersible pump of appropriate capacity will be installed.

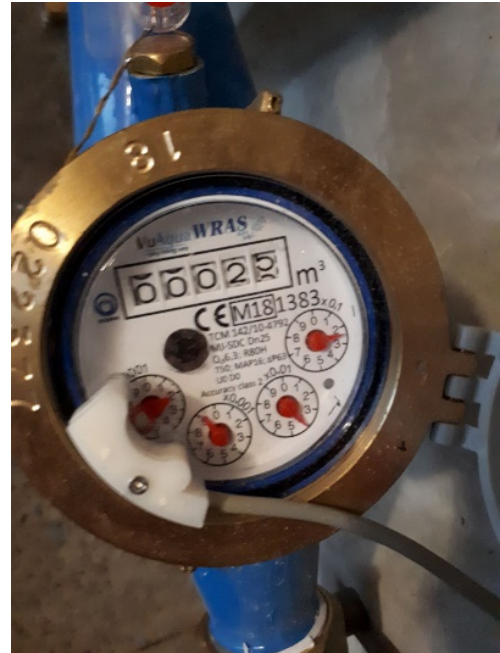
The Spring and borehole sources combine to form a single water supply used for bottling at the factory (Figure 2). BH5 will feed into the same system via the collection tank adjacent to the factory. Figure 2 presents the water distribution and storage at the Site.

**Form WRD- Section 7 – Industry Specific Requirements**

The ratio of abstraction to bottling at the site is 206%, therefore the proposed annual licensed volume would be equivalent to 6,798 units (m<sup>3</sup>) per year. See 'DC Need NW'.xls.

**Form WRD Section 8- Means of measurement**

A meter was installed at BH5, inside the pumphouse, during the test pumping and this will continue to be used to measure abstraction:

**Form WRD- Section 11- Discharge details**

Water not bottled (i.e. any spillages/overfilling/ used for CIP/ processing) plus any site runoff is discharged to a soakaway in front of the factory (Figure 1).

**Form WRD Section 12- Other abstractors/Water users**

A Water Features Survey was conducted as part of the Groundwater Investigation Consent (GIC) for BH5. No other abstractors were identified within a 250 m radius of BH5.

Envireau Water  
26/11/19



