



**Fill in this form if you are applying for a transitional water resources licence to continue a previously exempt abstraction.**

This form is available in both English and Welsh. Please check that this is the latest version of the form available from our website before submitting your application.

Please ensure you use Guidance Note WRH to help you.

All relevant guidance documents can be found on our website.

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## 1. Application type and fee

### 1.1 Please select your application type from the list below.

A new transitional water resources full abstraction licence for a previously exempt abstraction ☒

A new transitional water resources transfer licence for a previously exempt abstraction ☐

A variation to an existing full abstraction licence to add a previously exempt abstraction ☐

A variation to an existing transfer licence to add a previously exempt abstraction ☐

### 1.2 Please indicate the amount and how you wish to pay your application

Amount paid

Cheque ☒

Credit or debit card ☐

BACS transfer ☐ BACS reference number

## 2 Applicant and agent details

This is the individual or organisation any resulting licence will be issued to, and must be a legal entity. If you are an agent acting on behalf of an applicant, provide their details here and yours in section 2.2.

### 2.1 Applicant details

Individual ☐ Public body ☐

Registered company ☒ Organisation or group of individuals ☐

Other ☐ If 'Other', please specify

Title

First name	Robert
Last name	Davies
Company, charity, body, or trading name (if relevant)	Pantmoch Ltd
Registered company or charity number (if relevant)	09106020
Address	Pantmoch
	Pontsian
	Llandysul
	Ceredigion
Postcode	SA44 4UN
Telephone - mobile	
Telephone - office	
Email address	rgfdavies@xlninternet.co.uk

We will contact you by email unless you tick here. ☒

## 2.2 Agent details

This is who we will correspond with unless otherwise informed. If you are an agent applying on behalf of an applicant, please include a letter of authorisation from the applicant allowing you to act as signatory, and provide a reference for this document in the box below.

Document reference	Pantmoch1	
Title	Mrs	
First name	Rebecca	
Last name	Jones	
Company or trading name	Kebek Ltd	
Position in company	Director	
Address	Tynant	
	New Quay	

	Ceredigion
Postcode	SA45 9SA
Telephone - mobile	07901339662
Telephone - office	
Email address	becky@kebek.co.uk

We will contact you by email unless you tick here. ☐

### 2.3 Site operation contact

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

Applicant	<input checked="" type="checkbox"/>	
Agent	<input type="checkbox"/>	
Other	<input type="checkbox"/>	Please provide contact details for the operational contact on a separate referenced document, and tell us this reference below.
Document reference		

### 2.4 Abstraction invoices and records contact

Please specify who we should contact for invoices and abstraction records (returns). Please note that these may not be not required for transfer licences.

#### Invoice address

Applicant	<input checked="" type="checkbox"/>	
Agent	<input type="checkbox"/>	
Other	<input type="checkbox"/>	Please provide contact details for the operational contact on a separate referenced document, and tell us this reference below.
Document reference		

#### Abstraction records

Applicant	<input checked="" type="checkbox"/>	
Agent	<input type="checkbox"/>	
Other	<input type="checkbox"/>	Please provide contact details for the operational contact on a separate referenced document, and tell us this reference below.
Document reference		

## 3. Site name

### 3.1 Please provide the site name below:

Site name	Pantmoch Farm
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#### 4. Entitlement to apply

##### 4.1 Have you abstracted water between 01 January 2011 and 31 December 2017 for the activity which you are applying to be licensed?

Yes ☒

No ☐ Please see our water abstraction and impounding webpage for further information on the correct application forms.

##### 4.2 What is your connection to the land where the abstraction takes place?

Please provide a map outlining your land ownership/occupation and include all abstractions and discharges where relevant.

Owner ☒

Occupier ☐

Document reference

Doc 2

##### 4.3 Do you have a legal right of access to the land where the abstraction take place?

No ☐

Yes ☒ Please provide further detail in the box below. If necessary continue on a separate referenced document, and tell us this reference.

Document reference

Doc 2

Pontmoch Farms have been in the ownership of the Davies family for over 30years. The SFP maps as documented in the supporting information is confirmation that they have the legal right to the land.

#### 5. Existing licence number(s)

If you are applying to change an existing licence please provide the licence number below.

Licence number(s)

N/A

#### 6. Cross border applications

As part of your site operation do you also abstract for a previously exempt activity in England?

No ☒

Yes ☐ Please provide detail of this cross border application in the box below. If possible, provide a reference or application number, or name of an Environment Agency contact with whom the application has been discussed.

Continue on a separate referenced sheet if necessary and tell us the reference for this document.

Document reference

N/A

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## 7. Abstraction details

### 7.1 Site map

Please provide a map with details of the location(s) you abstract water from (points reaches, or areas). Tell us the reference for this map, below.

Site map reference

Doc Pantmoch 3 site map
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### 7.2 Please tell us details about the location(s) you abstract water from (points reaches, or areas) in the tables below.

The abstraction location, name, or reference must be the same as those used on the site map, in question 7.1. If you need more space, please continue on a separate referenced sheet if necessary and tell us the reference for this document

Document reference

Doc Pantmoch 4/5/6 site map
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Table 7. 1 - Surface water abstractions						
Abstraction location name or reference (As labelled on the site map)	Type of location (single point, reach, area)	Source of Supply	First National Grid Reference (12 digits)	Second National Grid Reference (12 digits)	Third National Grid Reference (12 digits)	Fourth National Grid Reference (12 digits)

If necessary, continue on a separate sheet and tell us the reference for this document.

Document reference(s)

Table 7. 2 Ground water abstractions										
Abstraction location name or reference (as labelled on map)	Source of Supply	National Grid Reference (12 digit)	Overall depth (metres)	Maximum diameter (millimetres) or area of excavation (square metres)	Screened section (metres below ground level)	Drift geology	Solid geology	Rest pump water level	Pumped water level	Pump Depth
GW 1	Groundwater	SN 43403-45852	36.6	125	8	Sand/Gravel	Tr Allt formation mudstone silty	6.3	22	31
GW 2	<i>Groundwater</i>	SN 43481-45880	97.5	125	12	Sand/Gravel	<i>Tr Allt formation mudstone silty</i>	16	45	92

If necessary, continue on a separate sheet and tell us the reference for this document.

Document reference(s)

8. Abstraction history and evidence

8.1 Please complete table 8.1 to document that the abstraction(s) and transfer(s) has or have been taking place during the qualifying period.

If necessary, continue on a separate sheet and tell us the reference for this document.

Document reference(s)

Doc 8 Pantmoch livestock calculations

Table 8.1											
Year	Abstraction location name or reference (as labelled on map)	Purpose(s) water used for	Period of abstraction	Maximum quantities abstracted						Means of measurement, or assessment of abstracted quantities	Are these the maximum quantities of water you wish to have licensed? (Yes or No)
			All year, or months, or days (provide specific dates)	Year (cubic metres)	Day (cubic metres)	Hour (cubic metres)	Peak instantaneous flow rate (litres per second)	Maximum number of hours of abstraction per day	Please indicate whether volume is actual (A) or estimated (E)		
01 January 2011 to 31 December 2011	ABS 2	Stock Watering	All year	6696	18.3	0.76	0.8	6.1	E	Water is abstracted on "livestock needs basis" and is based on average intake volumes per livestock age and intake volumes. In line with industry guidance	
	ABS 2	Parlour Washings	All Year	1109	3.0	0.12	0.8	1	E	The volume of water used is based on industry guidance	
	Domestic use = 165 m3 year										
	ABS 1	Stock Watering	All Year	1806	4.9	0.2	0.8	1.7	E	As Above	
									E		
	Total volume abstracted in 2011 = 9,776										
01 January 2012 to 31 December 2012	ABS 2	Stock Watering	All Year	11538	31.6	1.3	0.8	10.7	E	As Above	
	ABS 2	Parlour Washings	All Year	2102	5.7	0.24	0.8	1.9			
	Domestic use = 165m3 year										
	ABS 1	Stock Watering	All Year	2506	6.8	0.28	0.8	2.3	E	As Above	
									E		
	Total volume abstracted in 2012 = 16,311										
01 January 2013 to 31 December 2013	ABS 2	Stock Watering	All Year	12276	33.6	1.4	0.8	11.4	E	As Above	
	ABS 2	Parlour Washings	All Year	2066.4	5.6	0.23	0.8	1.9	E		
	Domestic use = 165m3 year										
	ABS 1	Stock Watering	All Year	1515.6	4.1	0.17	0.8	1.4	E	As Above	
	Total volume abstracted in 2013 = 16,023										
01 January 2014 to 31 December 2014	ABS 2	Stock Watering	All Year	12600	34.5	1.4	0.8	11.7	E	As Above	
	ABS 2	Parlour Washings	All Year	2138.4	5.8	0.24	0.8	2.0	E		
	Domestic use = 165m3 year										
	ABS 1	Stock Watering	All Year	1784.16	4.8	0.2	0.8	1.7	E	As Above	
									E		
	Total volume abstracted in 2014 = 16,687										
01 January 2015 to 31 December 2015	ABS 2	Stock Watering	All Year	12474	34.1	1.4	0.8	11.6	E	As Above	
	ABS 2	Parlour Washings	All Year	2016	5.5	0.23	0.8	1.9	E		
	Domestic use = 165m3 year										
	ABS 1	Stock watering	All Year	1568	4.2	0.17	0.8	1.5	E	As Above	
	Total volume abstracted in 2015 = 16,223										
01 January 2016 to 31 December 2016	ABS 2	Stock Watering	All Year	13086	35.8	1.49	0.8	12.1	E	As Above	
	ABS 2	Parlour Washings	All Year	2203.2	6.0	0.25	0.8	2.0	E		
	Domestic use = 165m3 year										
	ABS 1	Stock Watering	All Year	1335	3.6	0.15	0.8	1.2	E		

	Total volume abstracted in 2016 = 16,789										Yes
01 January 2017 to 31 December 2017	ABS 2	Stock Watering	All Year	13032	35.7	1.18	0.8	12.1	E	As Above	
	ABS 2	Parlour Washings	All Year	2196	6.0	0.25	0.8	2.0	E		
	Domestic use = 165m3 year										
	ABS 1	Stock Watering	All Year	1231	3.3	0.14	0.8	1.1	E	As Above	
	Total volume abstracted in 2017 = 16,624										



**8.2 Please complete the table below if you wish a lesser quantity of water to be licensed than that detailed in table 8.1.**

If necessary, continue on a separate sheet and provide a reference for this document.

Document reference

NA

<b>Table 8.2</b>							
Abstraction location name or reference (as labelled on map)	Purpose water is used for	Abstraction period	Maximum annual abstraction volume (cubic metres)	Maximum daily abstraction volume (cubic metres)	Maximum hourly abstraction volume (cubic metres)	Maximum number of hours of abstraction per day	Peak abstraction rate (litres per second)
N/A							

**8.3 Do you wish your abstracted quantities to be aggregated?**

You can aggregate:

- i) across some or all of the abstraction points, or reaches, or areas listed above.
- ii) with other abstractions you wish to have licensed through the transitional process.
- iii) abstractions you need to have licensed through the standard licensing process.
- iv) with existing licences you hold.

No



Yes



Provide details of any proposed aggregation in the box below. If necessary, continue on a separate sheet and provide a reference for this document.

Document reference

N/A

**8.4 Please provide a detailed description of how the abstraction(s) has/have taken place**

Use the box below to tell us about your abstraction(s). The description should include the following:

- A diagram or schematic of how the activity has been undertaken, using your abstraction point references and including any discharge points
- Details of the structure and equipment involved in the abstraction. This should include dimensions.
- Details of your means of measurement or assessment of abstraction quantities method

If necessary, continue on a separate sheet and tell us the reference for this document.

Document reference

Doc 6

Groundwater is pumped from 2 abstraction points and transferred to the underground tanks. From the reservoir that is located opposite the dairy complex, water enters the farm mains that services the house and animal housing complex. Water is distributed from the farm mains to the milking parlour and drinking troughs. The flow of water to the drinking troughs is regulated by pressure cut-off switch system and float valves that is governed by the drinking patterns of the livestock on a "needs basis".

#### GW1

The rest pump level has been measured at 6.3 depth and the pumped water level is 22m and pump depth is set at 31m.

#### GW2

The rest pump level has been measured at 16m and the pumped water level is 45m and pump depth is set at 92m.

There are no discharges of the abstracted water as all water is converted to excreta or parlour washings and stored as slurry or parlour washings in the slurry store at Pantmoch farm

There are currently no means to measure the volume of water abstracted. The pump rate is set at 3m<sup>3</sup> per hour. The volumes used are based on estimated volumes of drinking water per head per day. With reference to industry guidance the following volumes have been used. The estimated calculations are provided in Doc 8.

Parlour washings 30 l/head/day

Dairy cow in milk 110 l/head/day

Cow with calf 50 l/head/day

Heifers (12-24 month) 50 l/head/day

Youngstock (<12 months) 36 l/head/day

Bull 100 l/head/day

The above calculations for the dairy cows are based on animals producing 6000/9000lts per cow. These figures will vary depending on milk production from animals in higher or lower categories.

### 8.5 Please list the evidence you are providing to support your application

Use the box below. The evidence should demonstrate the following:

- That abstraction has taken place at some time during the seven year qualifying period.
- The quantities of water you have abstracted during the qualifying period. For example, records of meter readings, or cropping plans.

If necessary, continue on a separate sheet and provide a reference for this document.

Document reference

Doc8

Groundwater abstraction at Pantmoch farm has been in operation since before 2000 for the supply of livestock drinking water and dairy cleaning.

Documentation of livestock numbers have been provided from the Rural Payments Agency for the period 2012-2017 and are attached with this application.

### 9. Discharge details

**9.1 Please provide details on any discharge of abstracted water in table 9.1 below and on the map used to show abstraction locations.**

If necessary, continue a separate sheet and provide a reference for this document.

Document reference

N/A

**Table 9.1 - Details of any discharge of abstracted water**

Discharge location name or reference (as labelled on map)	National Grid Reference of discharge point (12 digit)	Total volume discharged (cubic metres)	Environmental Permit number for Water Discharge Activity number (if applicable)
N/A			

**9.2 Please provide a description of discharge structures and equipment**

All livestock water is converted to slurry and urine which is collected in the slurry lagoon prior to application to land as an organic fertiliser. Parlour washings are also contained in the slurry store at Pantmoch farm and applied to land as an organic fertiliser. This is a valuable and sustainable resource to minimise the use of inorganic fertilisers.

The Groundwater pump is a DAB S4C -19. We are unable to confirm the exact size of the underground storage tanks in this instance as no records exist.

If necessary, continue a separate sheet and provide a reference for this document.

Document reference

**10. Eel considerations**

Does your abstraction include measures to safeguard eels?

No



Yes



Provide details below

Ground water abstraction - safeguard for eels not required . The reservoir is sealed with a concrete lids to prevent access by eels. The water distribuaition network is a sealed system.

**11. Trickle Irrigation**

If you are applying to licence a trickle irrigation abstraction, do you wish to apply for a Two-Part Tariff agreement with your application?

No



Yes



We will contact you during determination of your application to arrange this agreement.

**12. Planned abstractions**

**12.1 Do you expect to increase the current rate of abstraction for the activity you are applying to have licensed from 01January 2018 onwards or to carry out further new abstractions (both termed 'planned' abstractions) at this site in the future?**

No



Yes



**12.2 Have you submitted a licence application (s) for any planned abstraction(s) as a result of the Water Act 2003 changes?**

No ☒

Yes ☐ Provide a reference number if you have already submitted an application(s) to cover any planned abstractions.

Document reference

**13. Other abstractions**

Please provide details of any other abstraction(s) (licensed or exempt) that are associated with this application in table 13.1 below.

Table 13.1 - Details of any other abstraction(s) (licensed or exempt) that are associated with this application					
National Grid Reference (12 digit) of where you abstract water	Source name and type	Purpose of abstraction	Where do you use the water?	When do you abstract the water?	Is this a pending application, or already licensed?  Please provide the application or licence number as appropriate

**14. Planning permission**

Complete table 14.1 below and provide details of any planning permissions or advice associated with the abstraction you are applying to have licensed where relevant. Provide a copy of any permissions or advice, providing a reference for this document below.

Document reference

N/A

Table 14.1 – Planning permission			
Abstraction location name or reference (as labelled on map)	Is planning permission needed, Yes or No?	Planning permission status (if required)	Have you received any planning advice for the abstraction?
N/A			

**15. Environmental impact assessment(EIA)**

Does your application require an EIA under The Water Resources (Environmental Impact Assessment) (England and Wales) Regulations 2003 (as amended)

No ☒

Yes ☐ Please provide a copy of your environmental impact assessment; provide a reference for this assessment below.

Document reference

**16. Licence duration**

**Tell us when you wish your abstraction licence to end**

Normally abstraction licences are granted for between 6 and 18 years in line with the catchment licence common end date. If you require a shorter or longer duration licence, please provide details and your justification in the box below.

If necessary, continue a separate sheet and provide a reference for this document.

Document reference

Require abstraction licence for maximum of 18 years duration as this water supply is essential for livestock drinking water and the operation of a viable and sustainable farm business

## 17 Declaration and data protection and commercial confidentiality

### Data protection:

Please read the guidance carefully for details on who can sign this section and note the information relating to the Data Protection Act 1998, our Public Register and exclusions.

### Commercial confidentiality:

Do you think your application should be confidential, and that information should not be placed on the public register?

No ☒

Yes ☐ You must send us supporting information to tell us why. Use the box below or a separate sheet, and tell us the reference you have given this document.

Document reference

### Declaration:

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.

A printed name in the 'signature' response box will be treated as the equivalent of an electronic signature.

Title

Mrs

R Jones

First name

Rebecca

Last name

Jones

Position

Director

Today's date

11/12/2019