

# Application for an environmental permit: Part B6 - new bespoke water discharge activity and groundwater (point source) activity v1

## About you

Who will be the permit holder?

A registered company (including limited liability partnerships) or other corporate body

## Registered company or other corporate body

Please provide details below

**Company name:** Mott MacDonald Bentley Ltd

**Company address:** Keighley Road  
Skipton, North Yorkshire

**Company postcode:** BD23 2QR

**Company registration number:** 03827321

**Date of registration (DD/MM/YYYY):** 17/08/1999

Contact name for the company

**Title** -

**First name:** Katherine

**Last name:** Doyle

**Email:** Katherine.Doyle@mottmac.com

**Telephone:** 01633287757

## Is somebody completing this application on your behalf?

Tell us if you're using an agent or somebody else to complete this application on your behalf

No – I'm completing this application for myself

## Agent or others acting on behalf of the applicant

### Complete your details:

**First name:** Katherine  
**Last name:** Doyle  
**Address:** Ty Awen, Spooner Close, Celtic Springs Business Park  
**Postcode:** NP10 8FZ  
**Telephone:** +441633287757  
**Email address:** Katherine.Doyle@mottmac.com

## 1 Pre-application discussions

Did you have pre-applications discussions with Natural Resources Wales about this activity?

No

## Where will you be discharging?

Please complete

**Site name** Llyn Celyn  
**Address** Llandderfel, Y Frongoch  
Gwynedd, Wales  
**Postcode** LL23 7NU

Please provide the 12 character national grid reference of the location of your septic tank / sewage treatment plant. This consists of two letters followed by 10 numbers (for example AB 12345 67890)

To find out the 12 character grid reference, you can search on the UK grid reference finder website: <http://www.gridreferencefinder.com/>

SH8800739984

## About the effluent

Give a brief description of the effluent discharge you want a permit for, for example, treated domestic sewage effluent.

Site drainage discharge.

Flocculate Gel will be used in order to reduce the discharge of sediment within the discharge to the river.

Give this effluent a unique name

This name will be used throughout the application and may be used in the permit to identify this effluent. If you have more than one effluent you must ensure that each name you use is distinct. For example, package sewage treatment plant effluent, septic tank effluent, cooling water, site drainage and so on.

Site Drainage

Is this a release from a dam, weir or sluice ('reservoir release') under Schedule 21 of the EPR meaning of water discharge activity?

No

Tell us the effluent type:

You must fill in a separate copy of this form for each type of effluent you plan to discharge.

Trade – rainfall dependent (such as site drainage)

## Trade – rainfall dependent: How long will you need to discharge?

What date do you want the permit for this effluent to start?

You cannot discharge your effluent prior to this start date on your permit. This is the date that your annual subsistence charges will start, even if you have not started to discharge.

\* 31/07/2024

Is the discharge time limited?

No

**Please give the date you expect the discharge to end but please note that your permit will not end on that date and you will still need to notify us to surrender the permit.**

10/12/2025

## Could your discharge from other premises be made to the foul sewer?

How far away is the nearest foul sewer from the boundary of the properties (in metres)?

You will need to check this with your sewerage undertaker (usually your local water company) and you may also need to check if it is possible to connect to a private foul sewer. Measure the shortest distance between the boundary of premises served by the private sewage treatment system and the nearest foul sewer and/or private sewer.

0

Discharges from all other premises, for example a pub, cafe, restaurant or office

Divide the volume of the discharge (in cubic metres) by 0.75 and then multiply this figure by 30 metres

	Volume of discharge (in cubic metres)	Divided by 0.75	Multiplied by 30 metres
<b>Your premises</b>	2304	3072	92160

Is this distance you've calculated greater than the distance to the nearest foul sewer you've provided above?

Yes

## Provide evidence why you cannot connect to the foul sewer

You must explain why you cannot connect to the foul sewer:

Temporary assessment of the capacity of the existing treatment works at Celyn has been completed by MMB. Site welfare facilities are connected to the existing treatment works. Conversations with the process engineer have taken place and the conclusions are the following:

- Max capacity on site connected to the treatment works 30 people based on the septic tank capacity – we asked for a maximum of 40 people to be assessed based on peak times during spillway construction.

- The assessment showed the existing treatment works does not meet DCWW spec requirements for dilution, therefore a pump is required to recirculate the effluent from the treatment works outlet back into the filter tank. Required pump capacity, 0.07l/s which is tiny, therefore a <0.5l/s pump capacity is recommended.

You must also send us evidence that you have: Approached the sewerage undertaker or owner(s) of the private sewer to reach an agreement for a connection to the foul sewer If the sewerage undertaker refuses connection to the public sewer, provided evidence that you have requested that they adopt the proposed treatment system If the sewerage undertaker refuses both of the above, you must appeal the refusal with Ofwat and provided evidence of the outcome of that appeal

- File: Confirmation that foul sewer is not able to take surface run-off..png - [Download](#)

## Trade – rainfall dependent: How much do you want to discharge?

What is the maximum volume of effluent you will discharge in a day (in cubic metres)?

2304

What is the maximum rate of discharge (in litres a second)?

26.66

Tell us how you have calculate this figure in the box below, or upload a copy of your workings in the next question.

Please see uploaded document below.

Tell us how you have calculated this figure by uploading a copy of your workings.

- File: Llyn Celyn Gel Flocculant Environmental Carry Over Calculation.pdf - [Download](#)

## Trade - rainfall dependent: How will the effluent be treated?

Do you treat your effluent?

Yes

Please fill in the table below for each stage of the treatments carried out on your effluent in the order in which they are carried out. . If you prefer, you can upload an overall design for the whole treatment process below

	Code number
First treatment	04 Chemical
Second treatment	10 Lagoon
Third treatment	04 Chemical
Fourth treatment	03 Filtration tertiary

Final effluent discharge quality

You must provide details of the final effluent discharge quality that the overall treatment system is designed to achieve. This should be after all the stages of treatment you have listed in the table above. For discharges of treated domestic sewage effluent this must include biochemical oxygen demand, suspended solids and ammonia. For trade effluent discharges, the substances should reflect the substances that are likely to be present in the final effluent discharge.

Please upload this and any supporting documents here.

- File: Llyn Celyn Gel Flocculant Environmental Carry Over Calculation.pdf - [Download](#)

## Trade – rainfall dependent: What will be in the effluent?

Are any 'specific substances' added to or present in the effluent as a result of the activities on the site?

You may add chemicals to the effluent during the treatment process; for example, iron salts to remove phosphate. Or you may have substances present in your effluent as a result of activities on your site; for example, chromium can be present in effluents from concrete batching plants.

Yes

Have any 'specific substances' been detected in samples of the effluent or in the sewerage catchment upstream of the discharge?

No

Are there any other harmful or hazardous substances in your effluent not mentioned in the environmental risk assessment guidance ?

The list in the environmental risk assessment guidance is not exhaustive and if you accept, add or detect any other harmful substance (including hazardous substances or relevant non-hazardous pollutants as described above) you will need to tell us.

No

If you have answered yes to either of the above two questions, please fill in the table below or upload further information on a separate sheet.

	Substance	Unit	Maximum concentration	Minimum concentration	Average concentration	Number of samples	Total or dissolved
	Aluminium	mg/l	0.011	-	-	-	-
	Acrylamide	ug/l	0.071	-	-	-	-
	Polyelectrolyte	mg/l	0.294	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

You must also send us any information on samples that you may have

- File: Llyn Celyn Gel Flocculant Environmental Carry Over Calculation.pdf - [Download](#)
- File: FC4327 JNBentley Llyn Celyn Settlement Test and Flocculant Validation Report.pdf - [Download](#)

Give the maximum temperature of your discharge in degrees Celsius

15

## Trade – rainfall dependent: Monitoring arrangements

Please provide the 12 character national grid reference of the final effluent sample point.

This is the sample point used to assess compliance with any water quality emission limits on your permit. You must ensure that it allows a representative sample of the discharge to be obtained. You must also ensure that all constituents of the discharge pass through the sampling point at all times. The sample point can be where the effluent meets the receiving environment only in cases where no other effluent is added before this point. You must provide a permanent means of access to monitoring points.

A 12 character national grid reference consists of two letters followed by 10 numbers (for example AB 12345 67890). To find out the 12 character grid reference, you can search on the UK grid reference finder website: [gridreferencefinder.com](http://gridreferencefinder.com)

SH 88194 39927

Do you have a UV disinfection efficacy monitoring point?

This type of monitoring point is only required for discharges that undergo some form of disinfection. For example, ozone or ultraviolet disinfection, membrane filtration etc.

No

What is the 12 character national grid reference of the flow monitoring point?

A 12 character national grid reference consists of two letters followed by 10 numbers (for example AB 12345 67890). To find out the 12 character grid reference, you can search on the UK grid reference finder website [gridreferencefinder.com](http://gridreferencefinder.com)

SH 88200 39927

Does the flow monitor have an MCERTS certificate?

No

## Your management systems

What management system will you provide for your regulated facility?

ISO 14001

I confirm that I have read the guidance and that my management system will meet NRW requirements.

Yes

You must send a suitable summary of your management system with your application – that includes enough information to allow us to assess whether your full system meets the standards set out in our guidance.

- File: FC4327 JNBentley Llyn Celyn Settlement Test and Flocculant Validation Report.pdf - [Download](#)
- File: Celyn Silt Mitigation Works Layout Plan.pdf - [Download](#)

## Where will the effluent discharge to?

Where will the effluent discharge to?

Non-tidal river, stream or canal

Is this effluent discharged through more than one outlet?

Effluents are usually discharged to one location in one receiving environment. If your effluent will be discharged to more than one location within the same receiving environment, for example, two different discharge points on a non-tidal river, you can provide details of every discharge point on the next page.

If your effluent discharges to more than one location in a different receiving environment, for example, into land and to a non-tidal river you will need to select both receiving environments above and complete the relevant sections on the following pages.

No

Are there any other factors we need to take into account as part of your application?

Yes

**If yes, please give details:**

Discharges of Aluminium, Acrylamide and Polyelectrolyte are below Environmental Quality Standard values.

Flow rate monitor to be installed.

See site plan for full details of treatment.

## Discharges to non-tidal river, stream or canal

Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan), the national grid reference and the name of the watercourse, canal or the main watercourse it is a tributary of if you know it

	Discharge point name	National grid reference	Watercourse name	Name of effluent discharged through this discharge point
1	Outlet	SH 88194 39927	Afon Tryweryn	Site Drainage
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-

Is the discharge into a

Non-tidal river



Does the discharge reach the watercourse or canal by flowing through a surface water sewer?

No

Does the watercourse dry up for part of the year?

Effluent should discharge to watercourses which flow all year. Discharging to a dry watercourse may cause the effluent to pond and cause other environmental or amenity issues"

No

Environmental risk assessment and modelling

Have you carried out any river quality modelling? Read the 'Surface water pollution risk assessment for your environmental permit' guidance available on Gov.UK to determine if you need to provide this modelling.

No

## Site plan

You must provide a site plan for your proposed discharge which is A4 in size or larger, and at 1:10,00 scale or larger.

On your plan you must show: which direction North is; the premises discharging effluent; the site in relation to the local area; any watercourses, wells, springs or boreholes on the site (or within 50 metres); the location of the wastewater treatment system all outlets where effluent will be discharged into the receiving environment; where samples of effluent can be taken automatically or manually (if required); where flow or quality will be measured (if required).

You may submit more than one plan if necessary.

Please upload your plan(s) below

- File: Celyn Silt Mitigation Works Layout Plan.pdf - [Download](#)

## How do you want to pay?

If a new contact, please provide details:

<b>Title</b>	-
<b>First name</b>	Jordan
<b>Last name</b>	Davies
<b>Address</b>	Ty Awen, Spooner Close, Celtic Springs Business Park
<b>Postcode</b>	NP10 8FZ
<b>Telephone</b>	+441633287726
<b>Email address</b>	jordan.davies@jnbentley.co.uk

How do you want to pay for your application fee?

Electronic transfer (e.g. BACS)

## Paying by electronic transfer

Please provide your reference for the payment.

**Payment reference:** EPRJNBENTLEYSW36

**Amount paid:** 10076

## How we collect your personal data

We will process the information provided by you in line with the Data Protection legislation. For more information on how we manage, store and use your data, see our Privacy Notice (opens in new tab)

I have read and understood this information

## Freedom of Information

Under the Freedom of Information Act 2000, anybody may request information from a public authority. The Act grants two statutory rights: to be told if the public authority holds that information; and if so, to have that information communicated to you.

Find out how to request information under the Freedom of Information Act.

I have read and understood this information

## Confidentiality and National Security

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential. Confidential information is information that is commercially or industrially confidential in relation to any person and is unlikely to be applicable for small-scale sewage discharges.

You can ask for information in the public register to be made confidential or withheld in the interests of national security by answering the question below and provide information on the next page giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application.

Do you believe that for reasons of confidentiality or national security your details should not be included on the public register?

No

# Declaration

If you knowingly or recklessly make a statement which is false or misleading to help you get an environmental permit (for yourself or another person), you are committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

I understand that if I knowingly or recklessly make a false or misleading statement: I may be prosecuted; and if convicted, I may have to pay a fine and/or go to prison.

By signing below, you are confirming that you understand and agree with the declaration above.

<b>Title</b>	-
<b>First name</b>	Ian
<b>Last name</b>	Bester
<b>On behalf of (if applicable)</b>	Mott MacDonald Bentley Ltd
<b>Date (DD/MM/YYYY)</b>	15/07/2024

# Submit your application

Enter the email address you'd like a copy of your application sent to:

Katherine.Doyle@mottmac.com