

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

About you

Please give details of the individual, or where relevant for groups or organisations of individuals, the main representative.

Title: Mr

First name: Simon

Last name: Grey

Please provide details below.

Are you applying as an individual, an organisation or group of individuals' (for example, a partnership), a company (this includes Limited Liability Partnerships) or a public body?

A registered company or other corporate body

Registered company or other corporate body

Please provide details below

Company name Llanmoor Development Company Ltd

Company registration number 870710

Date of registration (DD/MM/YYYY) 07/02/1966

Contact name for the company

Title Mr

First name Martyn

Last name Richards

Email address Martyn@llanmoor-homes.co.uk

Your address

For companies this must be the address on record at Companies House.

Address Llanmoor Development Company Ltd, 63-65 Talbot Road
Talbot Green
-
Postcode CF728AE
Telephone 07967133483
Email address simon@llanmoor-homes.co.uk

1 Pre-application discussions

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

No

Pre-application discussions

Give us the case reference or details of the pre-application advice you received. We will then be able to refer back to the information you've already given us, which will help us to determine your application.

Discussions and meetings have been held with NRW Officers in respect of surface water and silt management measures employed on site. Officers who we have been dealing with are Hannah Goddard and more recently Anna Wilmshurst and Natalie Wrangham.

Have you changed your proposal since you had pre-application discussions with us?

No

Where will you be discharging?

Please complete

Site name Parc Tondy (Llanmoor Housing Development)
Address Maesteg Road
Tondy
Postcode CF32 9HZ

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/>

SS 89002 84195 - Discharge point 1

SS 88803 83828 - Discharge point 2

About the effluent

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

Surface water runoff which has been treated with flocculant to settle out silt particles prior to discharge.

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.

Flocculant

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.

* 02/10/2023

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.

2028

Trade – rainfall dependent: could your discharge be made to sewer?

How far away is the nearest foul sewer from the boundary of the premises (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 sewage treatment facility and the nearest foul sewer and/or private sewer.

90m

If your answer to the above question is greater than the distance to the nearest foul sewer you must explain why you cannot discharge your effluent into the foul sewer.

You must 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 and send us their formal response regarding connection

Please provide your explanation below:

The permit required is for the use of flocculant to manage silt runoff from the construction site. The water is discharged via outfalls approved as part of the Planning process and subsequent Section 104 Agreement with Welsh Water (DCWW) and Ordinary Watercourse Consents (OWC) issued by Bridgend County Borough Council.

The site has significant surface water and silt runoff issues and a range of measures have been employed on site to channel, capture and store surface water during the construction process and in advance of the final drainage infrastructure being implemented. In addition and in order to manage silt runoff from this brownfield site, we have engaged with Frog Environmental Ltd who have advised on the use of flocculant products (Blocks and mats) to remove silts from the waster being discharged off-site. This permit application is to regularise the use of the flocculant products. The measures implemented on site have been reviewed by NRW officers and the outfalls are regularly monitored for water quality.

Therefore, it is not feasible to discharge to a foul sewer due to the approved drainage infrastructure and issues with site levels which would largely prevent such connections.

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)?

5000

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

11l/s and 68l/s

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

Discharge rates are controlled to those approved under the Planning Permission as part of the site wide drainage strategy. Storm water discharge and volumes are based on greenfield runoff rates using QBar values for each catchment. The attenuation areas proposed for the final scheme are also being used to manage surface water runoff, with additional measures in place to capture and treat water prior to discharge.

The construction surface water management plan is included in this application.

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

Do you treat your effluent?

Yes

If no, please explain why the effluent will not be treated:

Surface water runoff from the construction site will pick up silt particles as it runs over the bare ground as yet undeveloped areas of the site. In order to manage silt runoff from the site we have installed flocculant products in the form of blocks and mats to allow the silt particles to drop out of suspension into the floccing ponds prior to discharge.

Floc Block product information has been submitted with this application.

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	-
Fourth treatment	-

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: 360 Safety Data Sheet 2023.pdf - [Download](#)
- File: 494 Safety Data Sheet 2023.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

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
	Flocculant	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

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

SS 88803 83828

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

Mixed effluent – containing any rainfall dependent effluent: 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.

* 02/10/2023

Is the discharge time limited?

Yes

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.

October 2027

For seasonal discharges which only occur for part of the year, tells us when the discharge will take place. Where a discharge will continue at a significantly lower rate over a period you should complete this question and also send in details of the seasonal variation. For example, campsites which are closed in winter but have a residual throughput from residential properties on site all year.

Will the discharge take place all year?

Yes

Will the discharge take place on more than six days in any year?

If you answer 'no' you must be able to comply with the requirement to discharge on six days or fewer in any year as this will be a permit condition. It would apply only to batch processes such as the emptying of fish rearing ponds or planned shutdowns of plant or equipment.

Yes

Your management systems

What management system will you provide for your regulated facility?

Own management system

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: TONDU - On Site SW Management Measures May 2023.pdf - [Download](#)
- File: TONDU - PERMIT APPLICATION SUPPORTING INFORMATION.pdf - [Download](#)

Where will the effluent discharge to?

Where will the effluent discharge to?

Non-tidal river, stream or canal

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

If yes, please give details:

The surface water and silt management measures installed on site are designed to capture surface water runoff from the reclaimed development site and direct flows into a series of settlement ponds, the use of floc bloc products as detailed settle out suspended solids with great success and enable clean water to be discharged from site.

Floc products are typically used upstream of the settlement ponds to allow the chemical reaction to take place ahead of the ponds. The settled material can then be removed from the basins during dry periods and dried for re-use on site where appropriate.

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 1	SS 89002 84195	unnamed	surface water
2	Outlet 2	SS 88803 83828	unnamed	surface water
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-

Is the discharge into a

Stream

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: TONDU - On Site SW Management Measures May 2023.pdf - [Download](#)

How do you want to pay?

Who can we talk to you about your billing or invoice?

Same as application contact

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: EPRLlanmoor0001

Amount paid: £3504

National security

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

No

How we collect your personal data

I have read and understood this information

Yes

Freedom of Information

I have read and understood this information

Yes

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.

Title	Mr
First name	Simon
Last name	Grey
On behalf of (if applicable)	n/a
Date (DD/MM/YYYY)	20/07/23

Submit your application

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

Martyn@llanmoor-homes.co.uk