

Compliance Assessment Report CAR_NRW0041006

Permit being assessed: BP0015202

For: Pumped Storm and Emergency Overflow at Llanfarian Wastewater Treatment Works,
held by DWR CYMRU CYFYNGEDIG

At: Access track off A487, Opposite Royal Oak Garage, Llanfarian, Aberystwyth, SY23 4BS.

Type of assessment carried out: Audit, Reason: Routine.

On 06/12/2022, between 12:10 and 13:00.

Parts of permit assessed: See criteria listed below

NRW Lead Officer: Ffion Quan, accompanied by: Bethan Lewis.

Report sent to: CARS mailbox, CARS mailbox, on 30/01/2023.

1. Summary of our findings (full details in section 4)

Part of permitted activity assessed (criteria)	Assessment result	Permit condition
WQ-A1 - Management - General management	Assessed (A)	
WQ-B1 - Operations - Permitted activities	Assessed (A)	
WQ-B2 - Operations - The site	Assessed (A)	
WQ-B3 - Operations - Operating techniques	Assessed (A)	
WQ-C1 - Emissions and monitoring - Emissions to water	Action only (X)	
WQ-C1 - Emissions and monitoring - Emissions to water	Action only (X)	
WQ-C1 - Emissions and monitoring - Emissions to water	Action only (X)	
WQ-D1 - Information - Records	Action only (X)	

Result types are explained in more detail in the 'Important Information' section below.

2. What action is required?

Criteria	Action needed	Complete by
WQ-C1	Please confirm in writing the overflow setting for the CSO at Llanfarian WWTW	20/02/2023
WQ-C1	Please provide a photograph showing the aperture of the storm screen for the CSO at Llanfarian WWTW	20/02/2023
WQ-C1	Please confirm the location of the EDM on site	20/02/2023
WQ-D1	Please submit the requested data, as already discussed with DCWW EDM team	20/02/2023

Action criteria codes are listed in the 'Important information' section below.

3. What will happen next?

Any non-compliance we have identified and recorded on this form is an offence. It can result in criminal prosecution and/or suspension or revocation of your permit.

At this time, we do not intend to take any further action.

This statement does not stop us from taking additional enforcement action if further relevant information comes to light or offences continue.

4. Details of our assessment

This was a pre-planned audit carried out by Natural Resources Wales officers Ffion Quan and Bethan Lewis who were accompanied by Dwr Cymru operatives Sarah Mowlam and Daniel Williams.

This CAR is to be read in conjunction with CAR_NRW0040917 for Llanfarian WWTW.

General observations

The audit commenced at 12:10 hours on 06 December 2022. The weather at the time of the visit was dry.

Offices were taken through the works from the inlet, through the treatment system including the storm overflow, before finishing at the outlet discharge point into the Afon Ystwyth.

The treatment works at Llanfarian is a one filter bed system which includes the storm overflow and the emergency overflow. The site processes domestic effluent only and has telemetry in place for monitoring. The site operator visits the site three times a week.

The population equivalent for the site is 456.

The storm discharge process

The incoming flow into the works is pumped into the inlet and is screened into the flow regulating penstock (see photograph below), which is regulated at the rate of discharge at 5.7l/s. If the flow is in excess of the rate of discharge, the regulating penstock holds back the excess flow and the level of the screen slowly fills and will eventually spill to storm. The permitted overflow storm setting for the CSO at Llanfarian WWTW is 5.2l/s. Please can you confirm in writing the current overflow setting for the CSO at Llanfarian WWTW by the 20/02/2023. The asset was not spilling to storm at the time of the visit.



The flow is both gravity fed and pumped into the screen and basket, which runs through the channel into one storm tank at the works (see photograph below of the storm screen). A telemetry alarm is located at this point to notify of any failures of the screening system. As per the permit for the CSO at Llanfarian WWTW, the aperture of the storm screen should be 6mm x 6mm. At the time of the visit, officers were unable to view the aperture, therefore please could you confirm with a photograph the aperture of the storm screen at the works by the 20/02/2023.



Within the storm tank, there is a return setting which allows the flows to re enter the works for treatment if the levels continue to stay low. If the levels continue to rise due to rainfall or other factors, the asset will spill to storm.

There was a storm discharge sampling point located at the point of overflow. The works had four flow meters on site, the re-circulation flow, return liquors and the biofilter outlet. There was also a PFF flow meter located in the control room. See photographs below.



It is also a permit requirement to have EDM located at the point of overflow. Please confirm the location of the EDM at Llanfarian WWTW by the 20/02/2023.

There is an emergency overflow on the works pumping station, which only spills if the SPS is inoperative as a result of factors including electrical power failure and blockage of the downstream sewer. The emergency overflow was not spilling at the time of the visit.

There is a combined outfall at Llanfarian WWTW for both storm sewage and sewage in an emergency, which discharges into the Afon Ystwyth. No issues found at the day of the visit.

**Other comments**

As discussed during the visit with Sarah Mowlam and Daniel Williams, the CSO at Llanfarian WWTW spilled for a considerable amount of time during 2021 - for a total of 2,002 hours over 203 releases. NRW has requested data for the CSO from DCWW via a WAF 001 data request form. Please submit this data to NRW by 20/02/2023. A subsequent CAR will be sent following the review of the data received.

I would like to thank Sarah Mowlam and Daniel Williams for their time during the visits.

In this document 'Natural Resources Wales' means the Natural Resources Body for Wales established by Article 3 of the Natural Resources Body for Wales (Establishment) order 2012.

If you have any queries about this report, or to discuss completion of any actions, please contact the NRW Officer named above.

Important information

Legal status of this report

Your permit is issued to you under the Environmental Permitting Regulations. You have a responsibility to comply with the conditions of your permit and prevent pollution/harm to the environment. You must also ensure that you comply with any other relevant legislation that may apply to your site's operations.

This report explains the findings of our assessment and any action you are required to take. We categorise non-compliance using our guidance for assessing non-compliance at regulated sites.

When we find potential non-compliance/s we will normally give you advice on how to maintain compliance.

To correct non-compliance, we may:

- require you to take specific actions
- issue a notice
- review the conditions of your permit.

Any advice and guidance we give will be without prejudice to any other enforcement response that we consider may be required.

Assessment results and non-compliance categories (used in section 1):

Assessment result	Description
Assessed (A)	Assessed or assessed in part, no evidence of non-compliance found
Action only (X)	Action only relating to the activity assessment
Ongoing (O)	Ongoing non-compliance, not scored

Non-compliance category	Description
C1 Major	Potential to have a major, serious, persistent and/or extensive impact or effect on the environment, people and/or property
C2 Significant	Potential to have a significant impact or effect on the environment, people and/or property
C3 Minor	Potential to have a minor or minimal impact or effect on the environment, people and/or property
C4 No environmental impact	Non-compliance at a regulated site that cannot foreseeably have any impact on the environment, people and/or property

If your assessment result in Section 1 is suspended, what does this mean?

In line with our guidance, we may suspend non-compliance for up to six months to allow time for remedial action to be taken. These will be re-instated if the action is not completed.

Full list of water quality action criteria (used in section 1 and 2):**WQ A: Management**

- WQ-A1 General management

WQ B: Operations

- WQ-B1 Permitted activities
- WQ-B2 The site
- WQ-B3 Operating techniques
- WQ-B4 Improvement programme
- WQ-B5 Pre-operational conditions

WQ C: Emissions and monitoring

- WQ-C1 Emissions to water
- WQ-C2 Emissions to land
- WQ-C3 Emissions of substances not controlled by emission limits
- WQ-C4 Installation of monitoring boreholes

WQ D: Information

- WQ-D1 Records
- WQ-D2 Reporting
- WQ-D3 Notifications

Enforcement response

Any permit condition non-compliance is an offence and we may take legal action against you. Action we take can include prosecution, serving a notice on you and/or suspension or revocation of your permit. See our Enforcement and Sanctions Guidance for further information.

Data protection notice

You should make sure that anyone named in this report knows that the information it contains will be processed by Natural Resources Wales to fulfil its regulatory and monitoring functions and to maintain the relevant public register(s).

We may also use and/or disclose the report in connection with:

- offering or providing you with our literature or services relating to environmental matters
- consulting with the public, public bodies and other organisations (e.g. Health and Safety Executive, local authorities) on environmental issues
- carrying out statistical analysis, research and development on environmental issues
- providing public register information to enquirers
- investigating possible breaches of environmental law
- assessing customer service satisfaction and improving our service
- Freedom of Information Act or Environmental Information Regulations requests.

We may also pass it on to our agents or representatives to do these things on our behalf.

Disclosure of information – this report will be available to view on-line

If you think this report contains commercially confidential information that should not be placed on our public register, you must contact your local Natural Resources Wales office within **fifteen working days** of receiving this report, using the contact details in the accompanying email or letter. You must give a full explanation of why it should not be

added to our public register, including specifying which information is commercially confidential. We will assess your request and respond to you within 20 working days to let you know if we agree to your request.

What do I do if I disagree with the report or have a complaint?

If you disagree with this compliance assessment report, you should contact the lead officer without delay to discuss your concerns.

If you are unable to resolve the issue with the lead officer or their line manager you should contact our Customer Contact team on 0300 065 3000 (Monday to Friday 08:00 – 18:00), or email enquiries@naturalresourceswales.gov.uk for details of how to raise your dispute further through our Complaints and Commendations procedure.

If you are dissatisfied with our response, you can contact the Public Services Ombudsman for Wales by phone on 0300 7900203 or by email at ask@ombudsman.wales

Welsh Language Standards

We are committed to establishing Natural Resources Wales as a naturally bilingual organisation. We will provide compliance reports in your preferred language.