

## Compliance Assessment Report CAR\_NRW0040917

**Permit being assessed:** BP0015201

For: LLANFARIAN WWTW LLANFARIAN CERED'N, held by DWR CYMRU CYFYNGEDIG  
At: LLANFARIAN WWTW, LLANFARIAN, CEREDIGION, .

**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-C1 - Emissions and monitoring - Emissions to water	Assessed (A)	

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

### 2. What action is required?

No action required.

### 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\_NRW0041006 for the pumped storm and emergency overflow at 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 sewage 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 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 flow and the level of the screen slowly fills and will eventually spill to storm.



The flows pumped through the regulating penstock enter a primary tank (see photograph below), which is manually de sludged three times a week by the site operator. The sludge is pumped into two sludge holding tanks at the works. Prior to removal of the sludge by a tanker, the top water is pumped back to the inlet for treatment. The primary tank consists of two outlets, where most of the flows enter the Submerged aerated filter (SAF) tank and the remaining overflows over the weir.



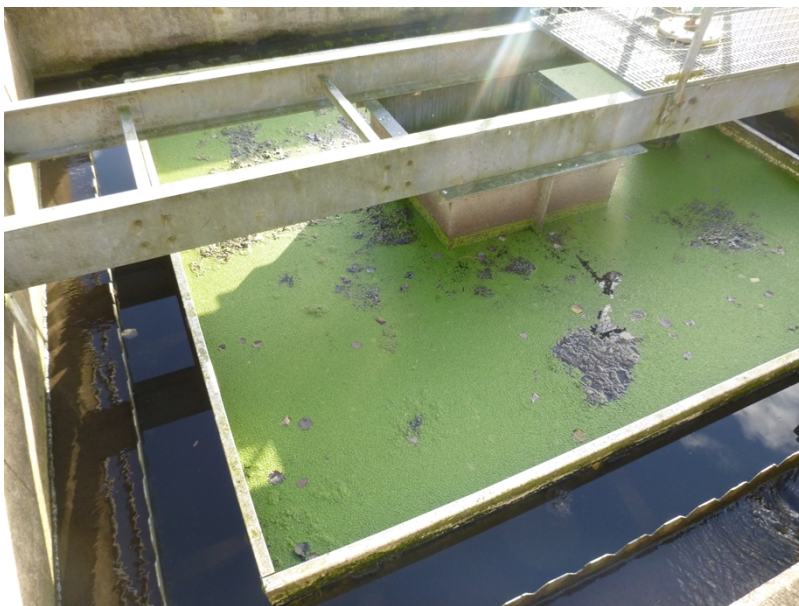
Within the SAF tank (below picture), ammoniacal treatment takes place. This technology is a process used to reduce the organic loading within domestic wastewater, which will reduce the overall biological oxygen demand and suspended solids.



The flows are then pumped to the filter bed on site, containing stone media, as shown in the photograph below. The rotation arms are water driven and were moving free and unhindered. During the visit, the filter beds seem to work effectively with no sign of ponding or dry patches with no obvious leakages to the filter bed walls.



Following the filter bed treatment, the flows enter one final settlement tank. The final tank seemed to work effectively at the time of the visit with no signs of built up sewage fungus.



A final effluent sampling point was marked as shown in the photograph below. There is also MCERTS flow monitoring with an on-site visual display, as also shown in the photograph below.



The final effluent from Llanfarian WWTW enters the Afon Ystwyth through a combined outfall. There were no issues found at the day of the visit.



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](mailto: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](mailto: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.