

## Compliance Assessment Report CAR\_NRW0050543

**Permit being assessed:** BN0160301

**For:** LLANRHYSTUD WWTW CEREDIGION, **held by:** DWR CYMRU CYFYNGEDIG

**At:** LLANRHYSTUD WWTW, LLANRHYSTUD, CEREDIGION, .

**Type of assessment carried out:** Site Inspection,

**Reason:** Routine.

**On** 02/10/2025, between 09:53 and 10:28.

**Parts of permit assessed:** See criteria listed below

**NRW Lead Officer:** Bethan Lewis.

**Report sent to:** CARS mailbox, CARS mailbox, on 04/02/2026.

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

| Part of permitted activity assessed (criteria)                        | Assessment result | Non-compliant permit condition |
|---|-------------------|--------------------------------|
| WQ-B1 - Water Quality - Operations - Permitted activities             | Assessed (A)      |                                |
| WQ-B2 - Water Quality - Operations - The site                         | Assessed (A)      |                                |
| WQ-C1 - Water Quality - 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 site inspection of Llanrhystud Wastewater Treatment Works (WwTW) (permit number: BN0160301) carried out by Natural Resources Wales (NRW) officer Bethan Lewis. The NRW officer was accompanied during the site inspection by two Dŵr Cymru Welsh Water (DCWW) operatives.

For observations concerning the Storm and Emergency Overflow at Llanrhystud WwTW Sewage Pumping Station (SPS) (permit number: BN0160302), please refer to Compliance Assessment Report (CAR): CAR\_NRW0050544.

### **Summary**

The site inspection commenced at 09:53 hours on the 02 October 2025 and concluded at 10:28 hours. The weather at the time of the inspection was dry. It had also been dry the previous day.

The NRW officer was led through the treatment process, with the DCWW operatives explaining how the works operated.

Llanrhystud WwTW is visited by a DCWW operator twice a week.

The population equivalent for the site is 2608, although when excluding non-residents, predominantly from local caravan parks, this reduces to 1550. As non-residents make up over 40% of Llanrhystud WwTW's population equivalent, DCWW see large seasonal differences in flows arriving at the site.

A fixed generator at Llanrhystud WwTW ensures that the site can continue to function in the event of an external power outage.

### **Treatment Process**

Flows partly arrive at Llanrhystud WwTW by gravity. The gravity inlet is shown in photograph 1 below. Flows arriving at the gravity inlet are pumped to a perforated screw screen as shown in photograph 2 below. Flows pumped from the village of Llanon enter Llanrhystud WwTW at the location of this screen. Screenings are collected in a skip as shown in photograph 3 below.



*Photograph 1: Gravity inlet*



*Photograph 2: Perforated screw screen*



*Photograph 3: Screenings deposited into skip*

Flows passed forward from the perforated screw screen enter an aeration ditch as shown in photograph 4 below. Activated sludge from the final settlement tank on site enters the aeration ditch via the return pipe shown in photograph 4.



*Photograph 4: Aeration ditch and activated sludge return pipe*

Flows exiting the aeration ditch enter a final settlement tank as shown in photograph 5 below. An appropriately labelled final effluent sample point exists at the outlet of the final settlement tank as shown in photographs 6 and 7 below. Final effluent appeared clear at the final effluent sample point at the time of the inspection.



*Photograph 5: Final settlement tank*



*Photograph 6: Final effluent sample point*



*Photograph 7: Final effluent sample point signage*

After passing the final effluent sample point, final effluent collects in a chamber as shown in photograph 8 below. Final effluent is pumped from this chamber to coastal waters at Llansaintffraid at SN 50771 67621. Flows pumped from the chamber pass an MCERTS flow meter as shown in photograph 9 below. The trend for the MCERTS flow meter can be viewed on a screen within the site's control room. At the time of the inspection, the trend showed that the site had not discharged final effluent at a rate of more than 17-18l/s in the previous 24 hours.



*Photograph 8: Final effluent collection chamber*



*Photograph 9: MCERTS flow meter*

A sludge treatment system exists at Llanrhystud WwTW as shown in photograph 10 below. The treatment system separates the liquid and solid fractions of sludge by filtration. The liquid fraction is returned to the treatment process whilst the solid fraction is stored in a sludge holding tank on site as shown in photograph 11 below.



*Photograph 10: Sludge treatment system*



*Photograph 11: Sludge holding tank*

### **Final comments**

We wish to thank the DCWW operatives for accompanying the NRW officer at the time of the above site inspection. If DCWW wish to discuss the content of this Compliance Assessment Report (CAR), we encourage them to contact the NRW officer noted above.

*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 required for the permit condition assessed to avoid non-compliance. No non-compliance scored at this time |
| 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       |

**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 Monitoring
- WQ-C5 Installation of monitoring boreholes

**WQ D: Information**

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

**Enforcement response**

Any non-compliance with a permit condition 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 twenty working days to let you know if we agree to your request.

**Disputing the Content of this Compliance Assessment Report Form**

If you disagree with the content of this Compliance Assessment Report form, you should submit your concerns, in writing, to the regulating officer who issued it within **15 working days** of its issue. This will be treated as a **Stage 1 review**.

If you are not satisfied with the outcome of the stage 1 review, you may request a **Stage 2 appeal**. This request must be submitted **within 21 working days** of receiving the response from the stage 1 review.

Further details on our review and appeal process are available at: [Natural Resources Wales / Appeal a regulatory decision from Natural Resources Wales](#)

**Concerns Not Related to the Content of this Compliance Assessment Report Form**

If your concerns do not relate to the content of the Compliance Assessment Report form, you should first attempt to resolve the issue with the regulating officer or their line manager.

If the issue remains unresolved, please contact our **Customer Contact Team**:

- **Telephone:** 0300 065 3000 (Monday to Friday, 09:00–17:00)
- **Email:** [enquiries@naturalresourceswales.gov.uk](mailto:enquiries@naturalresourceswales.gov.uk)

They will provide details on how to escalate your concerns through our **Complaints and Commendations procedure**.

If you are dissatisfied with our response, you may contact the **Public Services Ombudsman for Wales**:

- **Telephone:** 0300 790 0203
- **Email:** [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.