

Compliance Assessment Report CAR_NRW0051105

Permit being assessed: AG0011901

For: Bonvilston East Wastewater Treatment Works, **held by:** DWR CYMRU CYFYNGEDIG

At: Track off A48, Bonvilston, Cardiff, Vale of Glamorgan, CF5 6TN.

Type of assessment carried out: Site Inspection,

Reason: Routine.

On 17/03/2026, between 11:00 and 11:25.

Parts of permit assessed: Relevant

NRW Lead Officer: Harry Warburton, accompanied by: Hannah Jenkins.

Report sent to: CARS Mailbox, CARS Mailbox, on 06/08/2026.

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

Part of permitted activity assessed (criteria)	Assessment result	Non-compliant permit condition
WQ-A1 - Water Quality - Management - General management	Action only (X)	
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Result types are explained in more detail in the 'Important Information' section below.

2. What action is required?

Criteria	Action needed	Complete by
WQ-A1	Investigate the reasoning for the raising sludge in the primary and humus tanks.	07/09/2026
WQ-A1	Consider reed-seeding the reed bed with more reeds to cover the area of the bed for more effective treatment.	01/10/2026
WQ-A1	Provide the maintenance plan for sludge in the reed bed and how this will be removed/dealt with.	07/09/2026

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

Compliance inspection of AG0011901 for Bonvilston East STW undertaken by Environment Officer Harry Warburton and Senior Environment Officer Hannah Jenkins. Accompanied by DCWW pollution technician and performance manager. Weather at the time was dry and sunny.

Bonvilston East underwent improvement works under AMP7 which was completed mid 2025.

Inlet

The inlet is a mechanical screen with a bypass screen. Following the screened inlet is a distribution chamber which has an overflow to the reed bed. After the distribution chamber is ferric dosing for phosphate.



Primary Treatment

From the distribution chamber the flows are dosed with ferric and go to the primary settlement and SAF tanks with sludge removal. There was evidence of rising sludge in the primary and humus tanks. After primary treatment 60% of flows go to the percolating filter bed and humus tank as part of the old site and 40% being recirculated. Following this all flows go to the new aerated reed bed.



Secondary treatment

Following the primary tanks 60% of the effluent goes to the percolating filter bed and the humus tank, these are part of the old treatment works and appeared in good order. The 40% of effluent is recirculated through treatment.

Tertiary treatment

All treated flows enter the aerated reed bed. The overflow in the distribution chamber following the screen goes to the reed bed also.



The reeds were not distributed over the whole reed bed, only at the inlet channel to the bed. There was a build up of sludge below the inlet channel.

Actions:

- Investigate the reasoning for the raising sludge in the primary and humus tanks.
- Consider reed-seeding the reed bed with more reeds to cover the area of the bed for more effective treatment.
- Provide the maintenance plan for sludge in the reed bed and how this will be removed/dealt with.

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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

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

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.