

Compliance Assessment Report CAR_NRW0039618

Permit being assessed: BW5103201

For: LLANTWIT MAJOR WWTW (STW) WICK ROAD, held by DWR CYMRU CYFYNGEDIG

At: LLANTWIT MAJOR WWTW (STW), WICK ROAD, LLANTWIT MAJOR, ,, .

Type of assessment carried out: Site Inspection, Reason: Routine.

On 08/03/2022, between 10:00 and 11:15.

Parts of permit assessed: Conditions 4, 9a(i), 9a(ii), 10a-h and 11,

NRW Lead Officer: Chloe James, accompanied by: Hannah Jenkins, Alex Grabham.

Report sent to: Matthew Roberts, Catchment performance manager central catchment, on 31/03/2022.

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

Part of permitted activity assessed (criteria)	Assessment result	Permit condition
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

Site Inspection

On the 8th March 2022 Natural Resources Wales (NRW) conducted a routine site inspection of Llantwit major WwTW's tertiary treated sewage effluent permit (BW5103201) by Environment officers Chloe James, Alex Grabham, Hannah Jenkins and Adam Evans. During the inspection NRW officers were accompanied by Matthew Roberts (DCWW

Catchment performance manager central catchment), Mark Mason, Daniel Blocksage (DCWW area supervisor) and Robert Jenkins (DCWW Scientist).

Inlet:

The grit traps at the inlet had evidence of some rag, which was said to have been a historic flood event that the site experienced.

Aeration tanks:

There is no primary settlement at this site. To resolve issues that have been experienced with the mixing of the aeration tanks, two automatic blowers have been installed, one in each lane. It was mentioned that the blowers are likely to be directly controlled by the DO meters, which also have one installed per lane. There are three standby blowers. The blowers have helped mitigate issues that have been faced with the mixing system becoming blocked. The retention time in these aeration tanks is approximately 8-9 hours. The flow to the tank looked consistent and controlled during our inspection.

Final settlement:

There are two final sewage tanks at Llantwit major WwTW. In the photograph below the skimmer is in operation and it was highlighted that some debris is making it's way to the final effluent stage.



The MCERT electromagnetic flow meter is located beneath a manhole cover adjacent to the tank. The site calibration date was not checked during this inspection.

Tertiary treatment:

Final effluent is treated using UV disinfection prior to the coastal discharge point into the Severn estuary. The sample points before and after UV treatment are clearly labelled.

Sludge:

RAS (returned activated sludge) is recirculated through the treatment process, the SAS (surplus activated sludge) is stored on site and tankered off site for further treatment usually

at Cardiff sewage treatment works.

Site documentation & systems:

The site diary has a detailed record of maintenance that occurs on site and includes the daily flows which were below the permitted limit on the day of inspection.

The most recent sample taken at the works was on the 14th of December 2021 which remains compliant with the permit parameters listed in condition 10a-h since 2019.

Note: A bathing water designation application has been submitted for Llantwit major beach, therefore future treatment requirements may need to be considered by DCWW.

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.