

## Compliance Assessment Report CAR\_NRW0041208

**Permit being assessed:** BB3891CG.

For: Cog Moors Wastewater Treatment Works, held by DWR CYMRU CYFYNGEDIG  
At: Green Lane, Dinas Powys, CF64 2TR.

**Type of assessment carried out:** Report/Data Review, Reason: Routine.

On 31/12/2022.

Parts of permit assessed: Annual Returns

**NRW Lead Officer:** Lewis Evans.

**Report sent to:** Keith Harris, AD Performance Manager on 16/02/2023.

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

| Part of permitted activity assessed (criteria)   | Assessment result | Permit condition |
|--|-------------------|------------------|
| E1 - Emissions - Air   | Assessed (A)      |                  |
| G1 - Monitoring and Records, Maintenance and Reporting - Monitoring of emissions and environment               | Assessed (A)      |                  |
| G4 - Monitoring and Records, Maintenance and Reporting - Reporting and notification to Natural Resources Wales | Assessed (A)      |                  |

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

| Total number of non-compliances recorded | Total non-compliance score |
|--|----------------------------|
| 0  | 0                          |

How we use the non-compliance score to calculate your annual fee is explained 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

### Dŵr Cymru Welsh Water Cog Moors Wastewater Treatment Works Advanced Anaerobic Digestion Facility

**Permit Reference: EPR-BB3891CG**

Dŵr Cymru Welsh Water (DCWW) submitted their annual Air emissions to Natural Resources Wales (NRW) on the 31st of January 2023.

#### Air Emissions

| Emission Point | Parameter   | Limit                    | Result                  |
|----------------|---|--------------------------|-------------------------|
| A1             | Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 190mg/m <sup>3</sup>     | 157.75mg/m <sup>3</sup> |
| A1             | Carbon Monoxide   | -                        | 247.23mg/m <sup>3</sup> |
| A1             | Sulphur Dioxide   | 40mg/m <sup>3</sup>      | 1.48mg/m <sup>3</sup>   |
| A2             | Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 190mg/m <sup>3</sup>     | 165.08mg/m <sup>3</sup> |
| A2             | Carbon Monoxide   | -                        | 253.57mg/m <sup>3</sup> |
| A2             | Sulphur Dioxide   | 40mg/m <sup>3</sup>      | 1.67mg/m <sup>3</sup>   |
| A3             | Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 200mg/m <sup>3</sup>     | 108.72mg/m <sup>3</sup> |
| A3             | Carbon Monoxide   | -                        | 16.98mg/m <sup>3</sup>  |
| A3             | Sulphur Dioxide   | 100mg/m <sup>3</sup>     | 1.37mg/m <sup>3</sup>   |
| A4             | Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 200mg/m <sup>3</sup>     | 60.36mg/m <sup>3</sup>  |
| A4             | Carbon Monoxide   | -                        | 15.13mg/m <sup>3</sup>  |
| A4             | Sulphur Dioxide   | 100mg/m <sup>3</sup>     | 2.66mg/m <sup>3</sup>   |
| A6             | Odour   | 1000 OUE/Nm <sup>3</sup> | 304OUE/Nm <sup>3</sup>  |

|    |       |                          |                        |
|----|-------|--------------------------|------------------------|
| A7 | Odour | 1000 OUE/Nm <sup>3</sup> | 226OUE/Nm <sup>3</sup> |
| A8 | Odour | 1000 OUE/Nm <sup>3</sup> | 229OUE/Nm <sup>3</sup> |

DCWW's annual emission results are all compliant with the permitted limits. The Odour control units were monitored and serviced with some recommendations held within the reports. Odour control unit B had 'critical' issues to resolve such as a leak coming from one of the holding tanks. Please can the leak be fixed and maintained to ensure no further leaks are found. Also, corrosion had been sotted nearby which could pose a hazard to the walk/work area below. There were also a number of advisory points for the site to resolve on all odour control units on site. I will arrange a date with the site to come visit to ensure the odour control units are maintained and any plans to resolve the points brought up in the reports.

## Reporting Forms

### Water 1

Total Water usage on site was 12,458m<sup>3</sup>.

### Energy 1

Electricity usage sin site was 4,768.41MWh with Natural Gas using a further 4,011.42MWh of energy.

## Performance 1

| <u>Parameter</u>   | <u>Result</u> |
|--|---------------|
| Biogas produced by Anaerobic Digestion process (m <sup>3</sup> ) | 4,655,206.67  |
| Total amount of waste treated (tonnes)                           | 1,638.02      |
| Energy Efficiency (MWh/m <sup>3</sup> )                          | 0.005         |
| Electrical energy drawn from the grid (MWh)                      | 4,768.41      |
| Electrical energy exported from the grid (MWh)                   | 0             |
| Generation of Residues (tonnes)                                  | 6,982.81      |
| Generation of Wastewater (m <sup>3</sup> )                       | 32,997,693.6  |
| Total raw material used (tonnes)                                 | 11,638.02     |

|   |           |
|---|-----------|
| Amount of biogas combusted in the Medium Combustion Plant (m <sup>3</sup> /day) | 12,376.47 |
| Amount of biogas sent to the emergency flare (m <sup>3</sup> )                  | 137,794.8 |
| Operational time of waste gas burner (emergency flare) (% of operational time)  | 5.13      |

This was the first full year of operation at Cog Moors since the handover in 2021. The issues with the combined heat and power (CHP) engines and circuit breakers on site have now been resolved.

**END**

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 of 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   | Score |
|----------------------------|---|-------|
| C1 Major                   | Potential to have a major, serious, persistent and/or extensive impact or effect on the environment, people and/or property | 60    |
| C2 Significant             | Potential to have a significant impact or effect on the environment, people and/or property                                 | 31    |
| C3 Minor                   | Potential to have a minor or minimal impact or effect on the environment, people and/or property                            | 4     |
| C4 No environmental impact | Non-compliance at a regulated site that cannot foreseeably have any impact on the environment, people and/or property       | 0.1   |

### How we use assessment scores

The number and severity of non-compliances recorded in a year will affect your annual subsistence fee the following year. A non-compliance factor is added to your site's Operator

Performance Risk Appraisal (OPRA) score when we calculate your fee to reflect the additional resource we use to assess permit compliance.

### **What are suspended scores?**

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

**Full list of Industry and Waste action criteria (used in section 1 and 2):**

#### **A: Permitted activities**

- A1 Specified by permit

#### **B: Infrastructure**

- B1 Infrastructure – Engineering for prevention and control of emissions
- B2 Infrastructure – Closure and decommissioning
- B3 Infrastructure – Site drainage engineering (clean and foul)
- B4 Infrastructure – Containment of stored materials
- B5 Infrastructure – Plant and equipment

#### **C: General management**

- C1 General management – Staff competency/training
- C2 General management – Management system and operating procedures
- C3 General management – Materials acceptance
- C4 General management – Storage, handling, labelling and segregation

#### **D: Incident management**

- D1 Incident management – Site security
- D2 Incident management – Accidents, emergency and incident planning

#### **E: Emissions**

- E1 Emissions – Air
- E2 Emissions – Land and groundwater
- E3 Emissions – Surface water
- E4 Emissions – Sewer
- E5 Emissions – Waste

#### **F: Amenity**

- F1 Amenity – Odour
- F2 Amenity – Noise
- F3 Amenity – Dust/fibres/particulates and litter
- F4 Amenity – Pests/birds and scavengers
- F5 Amenity – Deposits on road

#### **G: Monitoring and records, maintenance and reporting**

- G1 Monitoring and records, maintenance and reporting – Monitoring of emissions and environment
- G2 Monitoring and records, maintenance and reporting – Records of activity, site diary/journal/events
- G3 Monitoring and records, maintenance and reporting – Maintenance records
- G4 Monitoring and records, maintenance and reporting – Reporting and notification to Natural Resources Wales

#### **H: Resources efficiency**

- H1 Resource efficiency – Efficient use of raw materials
- H2 Resource efficiency – Energy efficiency

### **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.