

Compliance Assessment Report CAR_NRW0043223

Permit being assessed: CP3735PB.

For: Nantycaws Landfill EPR/CP3735PB, **held by:** CWM Environmental Ltd

At: Nantycaws Landfill Site Llanddarog Road , Nantycaws, Carmarthen, Carmarthenshire, SA32 8BG.

Type of assessment: Report/Data Review,

Reason: Routine.

On: 31/12/2023.

Parts of permit assessed: See Section 4.

NRW Lead Officer: Benjamin Taylor.

Report sent to: Darren Sanders, Composting and Landfill Site Manager, on 24/01/2024.

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

Part of permitted activity assessed (compliance criteria)	Assessment result	Permit condition
IR3A - Emissions and monitoring - Emissions to water, air or land	C3 Minor	3.1.2 - Emissions to water, air or land
IR3A - Emissions and monitoring - Emissions to water, air or land	C3 Minor	3.2.3 - Emissions to groundwater
IR3A - Emissions and monitoring - Emissions to water, air or land	C3 Minor	3.2.3 - Emissions to groundwater
IR3E - Emissions and monitoring - Monitoring	Assessed (A)	
IR4B - Information - Reporting	Assessed (A)	
IR4C - Information - Notification	Action only (X)	

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

Total non-compliances recorded	Total non-compliance score
3	12

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?

Criteria	Action needed	Complete by
IR3A	Investigate potential sources of Ammoniacal Nitrogen within the vicinity/upstream of SW204/205 and submit findings to NRW.	28/03/2024
IR3A	Continue to review of Dissolved Cadmium trends across site monitoring network and submit to NRW.	28/03/2024
IR3A	Investigate potential sources of MCPPE within the vicinity of NACW203 and submit findings to NRW.	28/03/2024
IR4C	Ensure Schedule 6 notifications are provided within the specified timeframes, as per permit condition 4.3.2.	24/01/2024

Compliance 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

Introduction

This Compliance Assessment Report (CAR) is an assessment of the monitoring results and compliance notifications for Quarter 4 (Q4) October to December 2023 by CWM Environmental Ltd (the Operator).

Scope

The following monitoring returns and reports have been assessed within this Compliance Assessment Report (CAR):

- Surface Waters Q4 2023.
- Leachate Monitoring Q4 2023.
- Groundwaters Q4 2023.
- Gas Sampling Q4 2023.
- Schedule 6: Notifications.

Q4 2023 Monitoring Returns

Monitoring data was submitted by the Operator on the 9th of January 2024, which detailed measurements taken in relation to the following permit requirements:

- **Table S4.1** – *Leachate Level Limits and Monitoring*
- **Table S4.3** – *Point Source Emissions to Water (Other than Sewer)*
- **Table S4.5** – *Trigger Levels for Emissions into Groundwater*
- **Table S4.6** – *Landfill Gas in External Monitoring Boreholes*

This data was sent within the reporting period (28 days), which is **compliant** with permit condition 4.2.3.

The submitted data fulfilled all monitoring requirements outlined within permit condition 3.6.1a/b/c/d.

Leachate Level Limits and Monitoring

There were no reported exceedances of permitted levels noted during the Q4 reporting period.

Point Source Emissions to Water (Other than Sewer)

The Operator submitted a Schedule 6 Notification on the 18th of December 2023 regarding an exceedance of permitted levels detailed within Table S4.3.

Monitoring Date	Location	Parameter	Measured Value	Emission Limit Value (ELV)
07.12.2023	SW205	Ammoniacal Nitrogen as N (NH ₃ -N)	4.41mg/l	1mg/l

Table 1: List of exceedances of permitted values within Table S4.3

In addition to the above breach SW204 also recorded a similarly high concentration (4.97 mg/l), however there is no ELV set for Ammoniacal Nitrogen at this monitoring location.

Permit condition 3.1.2 below states:

'The limits given in schedule 3 shall not be exceeded.'

Compliance:

The above NH₃-N result is in exceedance of the emission limits set in the permit for SW205. A non-compliance score of C3 against criteria IR3A has been allocated to this breach of permit condition 3.2.3.

Action:

Investigate potential sources of Ammoniacal Nitrogen within the vicinity/upstream of SW204/205 and submit findings to NRW.

Emissions into Groundwater

The Operator submitted two Schedule 6 Notifications on the 7th of November 2023 regarding exceedances of permitted levels detailed within Table S4.5, these are displayed within Table 2.

Monitoring Date	Location	Parameter	Measured Value	Emission Limit Value (ELV)
12.10.2023	NACW203	Mecoprop (MCP)	0.209µg/l	0.05µg/l
12.10.2023	NACW228	Cadmium (diss.filt.)	0.212mg/l	0.1mg/l

Table 2: List of exceedances of permitted values within Table S4.5

Re-occurrence of the Cadmium exceedance noted within NACW228, which was reported within the CAR_NRW0043066. It is noted that the reported concentration has almost doubled since the previous sample (0.108µg/l) which was taken on the 11th of July 2023.

Exceedance of MCP permitted levels within NACW203, a plan (referenced 97180F-F01 Rev A) provided by the Operator indicates that the impacted borehole is downstream of groundwater flow through the installation.

Compliance:

The above Cadmium result is in exceedance of the emission limits set in the permit for NACW228. A non-compliance score of C3 against criteria IR3A has been allocated to this breach of permit

condition 3.2.3.**Action:**

Continue to review of Dissolved Cadmium trends across site monitoring network and submit to NRW.

Compliance:

The above MCPP result is in exceedance of the emission limit set in the permit for NACW203. A non-compliance score of C3 against criteria IR3A has been allocated to this breach of permit condition 3.2.3.

Action:

Investigate potential sources of MCPP within the vicinity of NACW203 and submit findings to NRW.

Landfill Gas in External Monitoring Boreholes

There were no reported exceedances of permitted levels noted during the Q4 reporting period.

Schedule 6 Notification Submissions

There was delay in notifying NRW of all three breaches, permit condition 4.3.1 below states:

“Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in Schedule 6 to this Permit within the time specified within that schedule.”

Action:

Ensure Schedule 6 notifications are provided within the specified timeframes, as per permit condition 4.3.2.

This CAR report and assessment was undertaken on 24th January 2024. However, to ensure that the CCS score is attributed to the correct financial year (for billing) the date on CARS system has been altered to 31st Dec 2023.

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.

If your assessment result in Section 1 is suspended, what does this mean?

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 compliance criteria (used in section 1 and 2):

1. Management

- IR1A – General management
- IR1B – Finance (only applicable to Landfill)
- IR1C – Energy efficiency
- IR1D - Efficient use of raw materials
- IR1E - Avoidance, recovery and disposal of wastes produced by the activities
- IR1F - Multiple operator installations

2. Operations

- IR2A – Permitted activities
- IR2B – The site
- IR2C – Operating techniques
- IR2D – Technical requirements
- IR2E – Improvement programme
- IR2F – Pre-operational conditions
- IR2G – Landfill engineering (only applicable to Landfill)
- IR2H – Waste acceptance (only applicable to Landfill)
- IR2I – Leachate levels (only applicable to Landfill)
- IR2J – Closure and aftercare (only applicable to Landfill)
- IR2K – Landfill gas management (only applicable to Landfill)

3. Emission and Monitoring

- IR3A – Emissions to water, air or land
- IR3B – Emissions of substances not controlled by emission limits
- IR3C – Odour
- IR3D – Noise and vibration
- IR3E – Monitoring
- IR3F – Pests
- IR3G – Air quality management plans
- IR3H – Monitoring for the purposes of the Industrial Emissions Directive (this heading includes Large Combustion Plants)
- IR3I – Fire

4. Information

- IR4A – Records
- IR4B – Reporting
- IR4C – Notification

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.

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 to 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.