

Compliance Assessment Report CAR_NRW0046447

Permit being assessed: BU2110IS.

For: Barry Site EPR/BU2110IS, **held by:** Cabot Carbon Ltd

At: Barry Site Sully Moors Road , Sully, Penarth, Vale of Glamorgan, CF64 5RP.

Type of assessment: Report/Data Review,

Reason: Routine.

On: 31/01/2025.

Parts of permit assessed: 4.1.2 & 4.1.3 Reporting .

NRW Lead Officer: Brigid Armstead.

Report sent to: Sian Llewellyn, Quality and Environmental Manager, on 25/02/2025.

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

Part of permitted activity assessed (compliance criteria)	Assessment result	Permit condition
IR4B - Installations - Information - Reporting	Assessed (A)	
IR3A(1) - Installations - Emissions and monitoring - Emissions to water	Assessed (A)	
IR3A(2) - Installations - Emissions and monitoring - Emissions to air	Assessed (A)	

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

Total 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

4.1.2 Quarterly Reports and Annual Emissions Monitoring

Cabot submitted forms A2, A3 and W1 for Q4 2024 on 29th January 2025.

The Q4 monitoring was delayed to January 2025 due to production downtime in Q4 2024. NRW were kept informed during delays.

Emissions to air of Chlorine, Chloromethanes, Hydrogen Chloride and Carbon Monoxide from emission point A1 are all compliant with the permit limits.

Emissions to water at emissions points W1, W2 and W3 are all compliant with the permit.

4.1.3 Annual production and performance parameters

Cabot submitted forms R1, WU1, E1 and PI1 for 2024 on 29th January 2025.

Cabot disposed of a total of 87.2 tonnes of waste in 2024 which is similar to 2023 and significantly lower than previous years.

Total waste for recovery in 2024 was 447.9 tonnes, which is higher than usual. An explanation was given that “Drain replacement to improve surface water run off and flood protection resulted in 300MT of soil and hardcore in 2024”.

Water usage in 2024 was 126,680 m³. This is a higher quantity than has been used in recent years. The water usage performance parameter has also increased to 17.7m³/t.

Cabot have reported that water efficiency measures as required under permit condition 2.4.1.2 (see below).

Energy usage and CO₂ production increased from 2023 but are lower than levels recorded from 2011 to 2020.

Chlorosilane and Hydrogen usage

Chlorosilane usage has remained consistent with previous years.

Hydrogen usage appears to be steadily increasing since 2021.

Action: Please provide further information on the reason for the increased Hydrogen usage per tonne of fumed silica. Due 31st March 2025

Carbon monoxide and waste silica

Following a high CO report in 2023, CO emissions for 2024 are back in line with previous years. Waste silica has increased compared to 2023 while remaining similar to previous years.

4.1.5 Cabot environmental objectives EMS update

Cabot submitted an EMS update to NRW on the 29th January 2025 as per permit condition 4.1.5.

2.4.1.2 Waste minimisation and water efficiency

Cabot submitted the waste minimisation and water efficiency 4 yearly progress report submitted to NRW on 29th November 2024

Cabot has identified the following improvement opportunities for waste minimisation:

- Reduction in off quality material
- Landfill diversion of off quality silica
- Waste management recycling initiatives
- Packaging initiatives

Cabot has identified the following improvement opportunities for water efficiency:

- Cooling tower water chemistry and discharge rate improvements
- HCl desorption system improvements

2.8.2 Accident Management Plan review

A review of the Accident management plan was received by NRW on 29th November 2024.

Cabot have initiated the following actions to improve the overall effectiveness of the Emergency Management Plan:

- Site wide evacuation drills
- Contractor induction
- Chemical complex meetings
- Plant deluge system test
- Flood protection works
- Bronze control training

2.11 Cabot Site Closure and Decommissioning

- Notwithstanding condition 2.11.1 of Cabot's Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.
- In 2022 Cabot have reviewed the 2019 closure plan and concluded that the plan remains applicable. The closure plan should be reviewed again in 2026

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.

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.