

Compliance Assessment Report CAR_NRW0039408

Permit being assessed: AB3092CV.

For: Parc Adfer Energy Recovery Facility, held by Enfinium Parc Adfer Operations Ltd

At: Weighbridge Road, Deeside Industrial Park, Deeside, Flintshire, CH5 2LL.

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

On 30/12/2021.

Parts of permit assessed: Annual Performance and Returns Reporting

NRW Lead Officer: Berwyn Williams.

Report sent to: Jamie Williams, Environment Officer on 18/02/2022.

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)	
E5 - Emissions - Waste	Assessed (A)	
C2 - General Management - Management system and operating procedures	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)	
H2 - Resource Efficiency - Energy efficiency	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

Quarter 4 & Annual 2021 Returns Review

Performance - Operating hours between 01/10/2021 and 31/12/2021 is 7979 hours with no abnormal operations recorded.

The facility annual maintenance outage was completed between the 12th June and 25th June 2021. The purpose of the annual shutdown was to service and maintain all items of equipment that cannot be serviced or maintained while the plant is operating throughout the year. The outage was completed on time with the plant being returned to service on 26th June 2021 as planned.

Air Emissions -

CEMS reports for October

Emissions to air (Emission Point A1) for HCl (mg/Nm³), NH₃ (mg/Nm³), TOC (mg/Nm³), NO_x (mg/Nm³), SO₂ (mg/Nm³), N₂O (mg/Nm³) and Particulates shows no Half Hourly nor Daily Average ELV exceedances.

Emissions to air (Emission Point A1) for CO (mg/Nm³) shows no 10 minute nor Daily Average ELV exceedances. The ELV average (95th percentile) was not exceeded.

CEMS reports for November

Emissions to air (Emission Point A1) for HCl (mg/Nm³), NH₃ (mg/Nm³), TOC (mg/Nm³), NO_x (mg/Nm³), SO₂ (mg/Nm³), N₂O (mg/Nm³) and Particulates shows no Half Hourly nor Daily Average ELV exceedances.

Emissions to air (Emission Point A1) for CO (mg/Nm³) shows no 10 minute nor Daily Average ELV exceedances. The ELV average (95th percentile) was not exceeded.

CEMS reports for December

Emissions to air (Emission Point A1) for HCl (mg/Nm³), NH₃ (mg/Nm³), TOC (mg/Nm³), NO_x (mg/Nm³), SO₂ (mg/Nm³), N₂O (mg/Nm³) and Particulates shows no Half Hourly nor Daily Average ELV exceedances.

Emissions to air (Emission Point A1) for CO (mg/Nm³) shows no 10 minute nor Daily Average ELV exceedances. The ELV average (95th percentile) was not exceeded.

CO emissions limit and reference period for CO in Table S3.1 is 150mg/m³ as a 10-minute average in line with the Industrial Emissions Directive Annex VI, Part 3.

Waste Returns -

Waste Received - Overall tonnage for Q4 - 54,445.04 tonnes

Waste Removed - Overall tonnage for Q4 - 11,367.733 tonnes

Waste Received - Overall tonnage for the year - 199,469.75 tonnes

Waste Removed - Overall tonnage for the year - 46,414.533 tonnes

Residues -

Bottom Ash - TOC limit is 0.43% (95th'ile) Date of Analysis - Oct 2021.

NRW confirms the considerations for transporting all APC residue to undergo geotechnical testing to ensure it has suitable characteristics (strength, density) to be used to construct the permanent structure at the site of disposal/reuse up in Middlesbrough.

The construction of the Engineered Low Permeability Separation Structure at the Middlesbrough site eliminates the requirement for extraction of natural resources such as virgin aggregates to build the structure and saves CO2 that would have been emitted during the aggregate extraction, manufacturing, and transport process. The certificate for analysis appears to confirm the intention to change the APCr code from D09 to R05.

Indicative R1 Calculation states 0.67, based on 86% Boiler efficiency +/- 1.5%, which meets the minimum criteria for R1 status.

The following permit variations have been issued in 2021:

- 1) Minor technical variation to change the emission limit and reference period for CO in Table S3.1 from 100mg/m3 as a ½ hourly average to 150mg/m3 as a 10-minute average. Natural Resources Wales issued the revised permit on 18th January 2021.
- 2) Minor technical variation submitted to increase annual permitted waste tonnage by 32,000 tonnes to an annual allowance of 232,000 tonnes. Natural Resources Wales advised on 7th December 2020 that this proposal should be classified as a substantial variation rather than a minor. The substantial variation application was submitted to Natural Resources Wales on 1st April 2021. Enfinium Parc Adfer Operations Limited decided to withdraw the application on 9th July 2021.
- 3) An administrative name change variation was completed on 21st July 2021 to update the operator name to Enfinium Parc Adfer Operations Limited following company re-branding.
- 4) A permit application to add 20-01-99 EWC code to the list of acceptable wastes was submitted to NRW on 5th October 2021. This variation was limited to 20-01-99 as dog waste faeces from collection bins mixed with litter from park waste bins. This variation was amended on 15th November 2021 to include Absorbent Hygiene Products (AHP) under EWC code 20-01-99. The varied permit including the 20-01-99 EWC code was issued on 20th December 2021.

OMA was carried out by NRW on 10/11/2021 and is subject to a separate CAR form and audit report with summary findings.

No further actions required following investigations.

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 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.