



**Cyfoeth
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Natural
Resources
Wales**

Tir John Landfill (Closed)
Fabian Way
Port Tennant
Swansea
SA1 8QP

Our ref: JB3597TN

+ VP3935AT

Date: 26th September 2023

Dear Sir/Madam

Environmental Permitting (England and Wales) Regulations 2016 Information Request

Permit reference: JB3597TN

Operator: Swansea City Council

Facility: Tir John Landfill, Fabian Way, Swansea, SA1 8QP

+ VP3935AT
Enovent south ltd

Welsh Governments Net Zero Carbon Budget 2 (2021-2025) was published in 2021. The budget sets the foundations towards the 2050 target of net zero emissions. Landfill emissions contributes to 2% of the total carbon releases across all sectors in Wales, and 80% of all emissions from the waste sector.

NRW has an incomplete overview of landfill emissions in Wales. This is due to the limited number of sites reporting the volume of landfill gas flared and utilized under the National Atmospheric Emissions Inventory (NAEI) reporting and permitting requirements. As part of the Landfill Emissions Reduction Project (LERP) NRW has the aim to get a complete picture of landfill gas utilization and flaring in Wales and to reduce uncertainty in the carbon emissions reporting for the Welsh landfill sector.

This letter sets out the information we require in order to get a more complete picture of landfill emissions in Wales. Subject to your response to the attached Notice, we may undertake landfill gas audits to ensure compliance with the Environmental Permitting (England and Wales) Regulations 2016 and the landfill directive.

Please find enclosed an information notice issued under Regulation 61(1) of The Environmental Permitting (England and Wales) Regulations 2016 that relates to the above permit. The Notice specifies the information you need to send and when it must be submitted.

Where the information specified in the Notice has been previously submitted to and accepted by Natural Resources Wales, and where this remains current and valid, then it will not need to be submitted again. However, you will need to state this in your submission, specifying the nature of the information and the date it was submitted. For example, if the information has been submitted in annual reports to NRW.

While we have set the latest date for the written return of the information specified in the Notice as **1st Dec 23**, you may provide the information sooner. If you have any concerns about providing the information in time, then please contact me to discuss.

If you have any questions about this notice, please contact Katie Lewis-Davies on 03000 65 4636 or email LERP@cyfoethnaturiolcymru.gov.uk or speak to your regulatory officer.

Yours sincerely,

Katie Lewis-Davies 
Officer 2, Industry Regulation & Waste

cc: LERP@cyfoethnaturiolcymru.gov.uk



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Statutory Notice

**Environmental Permitting (England and Wales) Regulations 2016
Regulation 61(1)**

NOTICE REQUIRING INFORMATION

To: Tir John Landfill (Closed) + OPEN

Permit reference: JB3597TN + VP3935AT
Regulated Facility: Tir John Landfill (Closed), Fabian Way, Swansea, SA1 8QP

The Natural Resources Body for Wales ("Natural Resources Wales"), in exercise of its powers under Regulation 61(1) of the above Regulations, requires you to provide the information specified in Schedule 1 by **1st December 2023**.

The information must be sent in writing to:

**LERP
Natural Resources Wales
Ty Cambria
29 Newport Road
Cardiff
CF24 0TP**

Or by email to LERP@cyfoethnaturiolcymru.gov.uk

Signed:

Date:

26/9/23

Please see over for notes.

Environmental Permitting (England and Wales) Regulations 2016 Regulation 61(1)

Notes:

General

1. For the purposes of discharging its functions under the Environmental Permitting (England and Wales) Regulations 2016, Natural Resources Wales may (by virtue of Regulation 61(1) of those Regulations), require any person to provide information, within the period it specifies in this notice.
2. Failure to comply with this notice without reasonable excuse is an offence under Regulation 38(4)(a) of the Environmental Permitting (England and Wales) Regulations 2016 and may lead to legal action being taken against you.
3. Making any statement in response to this notice that you know to be false or misleading in a material, or recklessly making any statement which is false or misleading in a material is an offence under Regulation 38(4)(b) of the Environmental Permitting (England and Wales) Regulations 2016 and may lead to legal action being taken against you.
4. There is no right to appeal against this notice.
5. You may wish to seek independent legal advice.

Legislation notes

In this document "Natural Resources Wales" means the Natural Resources Body for Wales established by Article 3 of the Natural Resources Body for Wales (Establishment) Order 2012.

Environmental Permitting (England and Wales) Regulations 2016
Regulation 61(1)

SCHEDULE 1
INFORMATION REQUIRED

Description of information required

In response to the Welsh Governments net zero targets NRW is gathering information on landfill gas utilization and flaring in Wales. This request below sets out the information we require from you to allow NRW to get a complete picture of landfill emissions in Wales.

Subject to your response to the attached Notice, we may undertake landfill gas audits to ensure compliance with the Environmental Permitting (England and Wales) Regulations 2016 and the landfill directive.

If any of the points below are not applicable to your site, please state this within your submission.

The attached form and questions below must be reported back to NRW by **1st December 2023**, you may provide the information sooner. If you have any concerns about providing the information in time, then please contact NRW to discuss.

Questions 1 to 11 must be filled in using the attached data request form.

- | |
|---|
| 1. Does the landfill site have a gas collection system? |
| 2. Does the landfill site have a gas management plan |
| 3. The mass or volume of methane, or mass or volume of landfill gas combusted in an engine for the previous 2 years |
| 4. The mass or volume of methane, or mass or volume of landfill gas flared for the previous 2 years |
| 5. If gas volumes are reported above, the mean methane concentration of the landfill gas |
| 6. If gas volumes are reported above, the mean landfill gas flow |
| 7. If gas volumes are reported above, the hours of flare operating |
| 8. If gas volumes are reported above, the temperature of the gas flared (optional) |
| 9. The methods used to measure, calculate, or estimate items 4 to 8 if applicable |
| 10. Information on the gas engine type, capacity (thermal input) and age |
| 11. Information on the flare type, capacity, height, and age |

Reg 61 Data Request Form

Site Name: Tir John Landfill (Closed) + OPEN
Permit Reference: JB3597TN + VP3935AT
Post Code: SA1 8QP

The gas from both permitted landfills is managed together and it is impossible to report separately. This submission covers both permits.

LANDFILL GAS			
Does the site have a landfill gas collection system? Yes or no	Yes	Is the landfill gas collected measured, estimated or calculated?	Calculated
		Does the site have a gas management plan. Yes or no	Yes

Year	METHANE % AND GAS FLOW		GAS UTILISATION		
	Methane concentration of landfill gas %v/v (mean)	Landfill Gas Flow m ³ /hr (mean)	Gas utilization at the landfill (yes or no)	Gas utilized m ³ /yr	Methane utilized m ³ /yr
2022	44.2	500 m ³ /hr	Normally yes, but not in 2022 due to engine failure	0	0
2021	46.18	419 m ³ /hr	Yes. The engine failed in Dec 2021. (Replaced Apr 2023)	3,046,196	1,401,250
					4,328,410

Year	FLARE				ENGINE AND FLARE DETAILS	
	Flare present (Yes or No)	Landfill Gas flared m ³ /yr	Methane flared m ³ /yr	Hours of flare operating. Hrs total	Gas engine type. Comment on number and type/spec of engines. Engine capacity. Age. Hours run.	Flare type. Comment on type/spec of flare. Flare capacity. Flare Height. Age. Temperature of flare.
2022	Yes	4,330,000	1,914,000	8700	None operational	Uniflare enclosed flare. 1000 m ³ /hr capacity. 6m tall. 8 yrs old.
2021	Yes	628,000	288,880	1256	Terbacher J320 822 kw/hr capacity. 195,000 hrs run. 26 years old.	Hofstetter enclosed flare. 1000 m ³ /hr capacity. 6m tall. ~ 20 yrs old.

Any additional notes:

The gas from both permitted landfills is managed together and it is impossible to report separately. This submission covers both permits. Some of the data has already been submitted in annual reports.

Data provided by: Graham Ball Date: 29/11/23

Contact Telephone Number: 01785 251555