



# Pollution inventory reporting - landfill guidance note

Environmental Permitting (England and Wales) Regulations 2010  
Regulation 60(1)

Version 5 January 2013

We are the Environment Agency. We protect and improve the environment and make it a better place for people and wildlife.

We operate at the place where environmental change has its greatest impact on people's lives. We reduce the risks to people and properties from flooding; make sure there is enough water for people and wildlife; protect and improve air, land and water quality and apply the environmental standards within which industry can operate.

Acting to reduce climate change and helping people and wildlife adapt to its consequences are at the heart of all that we do.

We cannot do this alone. We work closely with a wide range of partners including government, business, local authorities, other agencies, civil society groups and the communities we serve.

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# 1. Introduction

If we regulate your activity under the Environmental Permitting (England and Wales) Regulations 2010 (EPR) and we have served a Notice on you, you will need to submit data to the pollution inventory.

You need to report each year. The system opens for reporting on 1 January and the deadline for submitting is 28 February.

Our general guidance sets out how to report and provides information applicable to all business and industries.

In this guidance you will find helpful information specific to the landfill sector.

You can find additional information on our website:

Pollution Inventory guidance: [www.environment-agency.gov.uk/pi](http://www.environment-agency.gov.uk/pi)

This guidance is divided into three sections:

- general reporting requirements
- leachate releases
- releases to air

## 2. General reporting requirements

You must tell us how much of each specified substance you release each year where it exceeds a specific reporting threshold. The substances and current reporting thresholds are in the Schedule accompanying the Notice and also on the reporting form. For each substance you must report your release as one of:

- **n/a (not applicable)**

Where no release of the substance occurs or any release is below the limit of detection (see our general guidance document).

- **brt (below reporting threshold)**

Where the release has been determined and is below the specified annual reporting threshold.

- **Release**

The mass of the substance released annually, where this exceeds the reporting threshold.

Use the most accurate methods available to you without requiring additional monitoring, whether this is calculation (C) or estimation (E). You must report numbers to three significant figures regardless of how you derived them.

### 3. Leachate releases (releases to controlled waters and off site transfers)

For the purposes of PI reporting the term leachate refers to all contaminated water released from a landfill reaching controlled waters (surface and groundwater) and/or being transferred off-site for treatment at a wastewater plant. This includes consented discharges of surface water.

For each PI substance, you should sum the quantities in each individual release to controlled water from the site and compare this figure with the relevant reporting threshold. If this figure exceeds the threshold then you must report that release on the reporting form. You need to report substances in leachate transferred off-site (for example in a road tanker) in the same way. If a substance is present but does not exceed the reporting threshold for releases or transfers, you should report it as 'brt'.

#### Leachate disposal methods and how the data should be reported to the Pollution Inventory

	Method of disposal	PI reporting requirement
1	Leachate treated on site and released to open water.	Part 4) Release to Controlled Water
2	Leachate treated on site and released to public sewer.	Part 5) Transfer in Waste Water
3	Leachate transferred by any other means to an Urban Waste Water Treatment Directive Plant (i.e. a sewage works serving the public sewerage network)	Part 5) Transfer in Waste Water
4	Leachate transferred by any means to an Industrial Waste Water Treatment Plant. (i.e. a specialist plant not treating urban / public sewage)	Part 6) Off Site Waste Transfer

The Pollution Inventory reporting requirements aim to capture information on the destination of the pollutants, hence this classification. The reporting guidelines do not affect the controls applied to waste under the Waste Framework Directive.

## 4. Releases to air (landfill gas releases)

You must manage methane emissions properly to minimise climate change impacts.

You need to calculate an accurate prediction of methane generated at your site. You must use GasSim v2 or v2.5 where site-specific gas release data are unavailable. Report 'CO2 thermal' as 'Carbon dioxide from qualifying renewal sources' and 'CO2 chemical' as 'Carbon dioxide'. You must update your model each year to make sure it reflects properly the amount of waste you received at your landfill and that the gas generation, collection efficiency and utilisation in the model reflect what is seen at the landfill. You can use the resulting annual mass releases to complete the air releases section of the PI reporting form. Copies of GasSim 2.5 are available from [www.gassim.co.uk](http://www.gassim.co.uk).

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