



# **Approved manner for estimating the volume or weight of waste received at and disposed of to landfills**

## *Waste Avoidance and Resource Recovery Levy Regulations 2008*

Approved by the CEO as required under Regulation 3 of the *Waste Avoidance and Resource Recovery Levy Regulations 2008*

Mike Rowe  
Chief Executive Officer  
Department of Water and Environmental Regulation

**Version: Final**

June 2018

**Produced and published by**

Department of Water and Environmental Regulation  
168 St Georges Terrace, Perth, Western Australia

June 2018

**Copyright © State of Western Australia 2018**

All material is the copyright of the State of Western Australia. Permission is not given for any commercial use or sale of this material. No part of the contents of the publication may be reproduced by any process, electronic or otherwise, distributed, adapted, broadcast, performed in public or communicated to the public without the written consent of Department of Water and Environmental Regulation, except as permitted under the *Copyright Act 1968*.

**Disclaimer**

The information contained in this document is provided by Department of Water and Environmental Regulation in good faith. However, there is no guarantee of the accuracy of the information contained in this document and it is the responsibility of users to make their own enquiries as to its accuracy, currency, relevance and correctness.

The State of Western Australia and Department of Water and Environmental Regulation and their servants and agents expressly disclaim liability, in negligence or otherwise, for any act or omission occurring in reliance on the information contained in this document, or for any incident or consequential loss or damage of such actor omission.

The State of Western Australia is committed to providing quality information and has made every attempt to ensure the accuracy, currency, reliability and correctness of the information contained in this document. However, changes in circumstances and legislation after the time of publication may impact on the correctness or quality of this information.

In addition the accuracy, currency, reliability and correctness of links or references to information sources referred to or provided by third parties is outside the control of State of Western Australia and it is therefore the responsibility of the user to make their own decisions on information found on those external sites. Confirmation of any of the information provided in this document may be sought from the relevant originating bodies or the department providing the information; however, users of this material should verify all relevant representations, statements and information with their own professional advisers.

The State of Western Australia and Department of Water and Environmental Regulation reserve the right to amend the content of this document at any time without notice.

The information contained in this document is general. It does not constitute, and should be not relied on as legal advice. The State of Western Australia recommends seeking advice from a qualified lawyer on the legal issues affecting you before relying on this information or acting on any legal matter.

**Questions regarding this document should be directed to:**

Department of Water and Environmental Regulation  
Locked Bag 33 Cloisters Square  
PERTH WA 6850

Phone: +61 8 6364 7000

Fax: +61 8 6364 7001

Email: [info-der@dwer.wa.gov.au](mailto:info-der@dwer.wa.gov.au)

Web: [www.dwer.wa.gov.au](http://www.dwer.wa.gov.au)

**Accessibility**

This document is available in alternative formats and languages on request.

## 1. Objective

To establish the Chief Executive Officer's (CEO) *approved manner* for estimating waste volume or weight received at and disposed of to landfill as referred to in regulations 9(1), 9(2A), 10(8) and 12A(2) of the *Waste Avoidance and Resource Recovery Levy Regulations 2008* (WARR Levy Regulations) and provide guidance on its use.

This document is intended for operators of category 63, 64 and 65 landfill premises (as defined under Schedule 1 of the *Environmental Protection Regulations 1987*) and Department of Water and Environmental Regulation (DWER) officers.

## 2. Background

The WARR Levy Regulations set out the means for calculating the amount of landfill levy payable in respect of waste at category 63 (class I inert), category 64 (class II or III putrescible) and category 65 (class IV secure) landfill sites. Under regulation 12 of the WARR Levy Regulations, landfill levy is calculated by volume (in cubic metres) or by weight (in tonnes) of the applicable waste received during a return period.

The *approved manner* refers to the manner of estimation of the volume or weight of waste as approved in writing by the CEO of the DWER as required by regulation 3 of the WARR Levy Regulations.

For further information in relation to the landfill levy, please refer to [https://www.der.wa.gov.au/images/documents/your-environment/waste/WARR\\_Landfill/es-approved-manner-landfills.pdf](https://www.der.wa.gov.au/images/documents/your-environment/waste/WARR_Landfill/es-approved-manner-landfills.pdf)

## 3. CEO approved manner

### 3.1 Waste received at category 63, 64 or 65 prescribed premises without a weighbridge and immediately disposed of to landfill

If the waste is received and the entire amount of the waste is **immediately** disposed of to landfill at a category 63, 64 or 65 landfill premises, follow the steps set out below with reference to Table 1<sup>1</sup> of this document.

**Step 1:** Select the relevant vehicle type that is being used to transport the waste to the premises from column 1 of Table 1.

**Step 2:** If the waste is being received at a category 63 landfill premises, select the volume in cubic metres of inert waste in column 2 of Table 1 that corresponds to the relevant vehicle type in column 1.

If the waste is being received at a category 64 or 65 landfill premises, select the weight in tonnes of waste in column 3 of Table 1 that corresponds to the relevant vehicle type in column 1.

<sup>1</sup> Table 1 specifies the amount of waste in tonnes and cubic metres based on vehicle type.



### **3.2 Waste received at category 63, 64 or 65 prescribed premises without a weighbridge and stored for disposal to landfill at a later date**

If the waste received at a category 63, 64 or 65 landfill premises is being stored for future disposal to landfill, follow the steps set out below with reference to Table 1<sup>2</sup> of this document.

**Step 1:** If the waste is being received at a category 63 landfill premises, select the volume of waste (V) in cubic metres of inert waste in column 2 of Table 1 that corresponds to the relevant vehicle type in column 1 and make a record of this volume (V).

If the waste is being received at a category 64 or 65 landfill premises, select the weight in tonnes of waste in column 3 of Table 1 that corresponds to the relevant vehicle type in column 1 and make a record of the weight (W).

**Step 2:** Immediately prior to disposal of any portion of the waste, make an estimation of the proportion, expressed as a decimal figure between 0 and 1, of the initial volume (V) or weight (W) received at the premises that is being disposed of to landfill (P).

**Step 3:** Determine the amount of waste disposed of to landfill for the relevant landfill premises in the CEO approved manner in accordance with the formula below:

Category 63 landfill premises: CEO approved manner =  $V \times P$

Category 64 or 65 landfill premises: CEO approved manner =  $W \times P$

where –

V is the volume, in cubic metres, of waste determined using:

(1) column 2 of Table 1 corresponding to the relevant vehicle type in column 1 transporting the waste to the category 63 landfill premises (in accordance with Step 1 of Item 3.2 of this document). This amount is required to be identified and recorded upon receipt of the waste at the premises (in accordance Step 2 of Item 3.2 of this document); or

(2) the conversion rate in Item 3.3, Step 1 of this document (in accordance with Step 1 of Item 3.3 of this document). This amount is required to be identified and recorded upon receipt of the waste at the premises (in accordance Step 1 of Item 3.3 of this document).

W is the weight, in tonnes, of waste determined using column 3 of Table 1 corresponding to the relevant vehicle type in column 1 transporting the waste to the category 64 or 65 landfill premises (in accordance with Step 1 of Item 3.2 of this document). This amount is required to be identified and recorded upon receipt of the waste at the premises (in accordance Step 2 of Item 3.2 of this document).

P is the proportion, expressed as a decimal figure between 0 and 1, of the volume of waste (V) that has been disposed of to landfill.

<sup>2</sup> Table 1 specifies the amount of waste in tonnes and cubic metres based on vehicle type.

Note: All CEO approved manner weights and volumes are calculated on full loads regardless of whether the vehicle is carrying a partial load.

**3.3 Waste received at a category 63 prescribed premises with a weighbridge for immediate disposal to landfill or stored for disposal to landfill at a later date**

If the waste received at a category 63 landfill premises with a weighbridge is received for immediate disposal to landfill or stored for future disposal to landfill, the occupier of those premises has the option of:

- following the steps below and use the weighbridge to estimate the volume of waste received for disposal; or
- use the manner of estimation specified under item 3.1 or 3.2 above.

**Step 1:** Waste received at a category 63 landfill premises with a weighbridge is to be weighed on the weighbridge and converted from weight (in tonnes) to a volumetric amount (in cubic metres) using the following conversion rate:

$$1 \text{ tonne} = 0.66 \text{ cubic metres}$$

**Step 2:** If the waste is disposed of immediately, the volume of waste calculated using the conversion rate in Step 1, Item 3.3 above is the total volumetric amount of waste disposed of to landfill.

If the waste is being disposed to landfill at a later date, make a record of the volume of waste (V) calculated using the conversion rate in Step 1 above and then go to Item 3.2 of this document and undertake Step 2 and Step 3 to determine the total volumetric amount of waste disposed of to landfill.

## Commencement

This Environmental Standard is to take effect from 12 June 2018.

## Review

This Environmental Standard is to be reviewed no later than as soon as practicable following the fifth year of its commencement.

**Table 1 – Estimating the volume or weight of waste by vehicle type**

Column 1: Vehicle type	Column 2 : Category 63 Volume (m <sup>3</sup> )	Column 3 : Category 64 or 65 Weight (tonnes)
Single axle trailer, ute, car and van	1	0.3
Tandem axle trailer	2	0.6
Open trucks, gross weight <5 tonnes	3	0.9
Open trucks, gross weight 5-12 tonnes	6	1.8
Open truck – 3 axles ("6 wheeler")	10	3
Open truck – 4 axles ("8 wheeler")	12	3.6
Open truck – 5 axles ("Bogy Semi" or "6 wheel pig trailer")	18	5.4
Open truck – 6 axles ("Tri-axle Semi")	20	6
Open truck – 8 axles	20	7.8
Open truck – 9 axles ("8 wheeler plus trailer")	32	9.6
Open truck – 11 axles ("Road Train")	40	12
Bins 2-4m <sup>3</sup>	3	1.2
Bins 4-8m <sup>3</sup>	6	2.4
Bins 8-12m <sup>3</sup>	10	5
Bins 12-19m <sup>3</sup>	15.5	6.5
Bins > 20m <sup>3</sup>	20	8
Compactor trucks <8m <sup>3</sup>	4	1.7
Compactor trucks 8-12m <sup>3</sup>	10	4.25
Compactor trucks 12-18m <sup>3</sup>	15.5	4.34
Compactor trucks 18-32m <sup>3</sup>	25	10.6
Compactor trucks >32m <sup>3</sup>	35	14.9