



Government of **Western Australia**  
Department of **Water and Environmental Regulation**

# Commercial and industrial recovery amount protocol

Container deposit scheme

Department of Water and Environmental Regulation

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# 1 About this document

This document is a Recovery amount protocol (protocol) under the *Waste Avoidance and Resource Recovery (Container Deposit Scheme) Regulations 2019* (the Regulations).

This protocol sets out the methodology to be applied in determining the amounts payable to material recovery facility operators under the Western Australia container deposit scheme, where the material recovery facilities only processes material collected from commercial and industrial sources (C&I MRF).

Material recovery facility operators processing materials collected from commercial and industrial sources and a local government kerbside recycling program should refer to the [Recovery amount protocol](#) published by the Department of Water and Environmental Regulation (the Department) in September 2020.

This protocol should be read in conjunction with the C&I material recovery agreement which describes contract terms and conditions between C&I MRF operators and the scheme coordinator of the container deposit scheme for recovery amount payments.

## 2 Definitions

Terms within this protocol have the same meaning as defined within the *Waste Avoidance and Resource Recovery Act 2007* and the Regulations.

### Abbreviations and definitions

Claimed scheme material	Means any containers in respect of which a refund amount or recovery amount has already been claimed.
HDPE	High-density polyethylene.
LPPB	Liquid polymer paperboard (this includes liquid paperboard and aseptic containers).
Mixed plastics	An output material type at a C&I MRF that may include PET (1), HDPE (2) and other plastic types (3-7). A C&I MRF operator may segregate PET and HDPE outputs from other plastic types or PET and HDPE may be combined with other plastic types.
PET	Polyethylene terephthalate.
Plastic types	Plastic types as per the Society of the Plastic Industry (SPI) or resin identification code: <ol style="list-style-type: none"> <li>1. Polyethylene terephthalate (PET)</li> <li>2. High-density polyethylene (HDPE)</li> <li>3. Polyvinyl chloride (PVC)</li> <li>4. Low-density polyethylene (LDPE)</li> <li>5. Polypropylene (PP)</li> <li>6. Polystyrene (PS)</li> <li>7. Miscellaneous plastics (such as polycarbonate, polylactide, acrylic, acrylonitrile, butadiene, styrene, fibreglass and nylon)</li> </ol>
Quarter	The following periods in the year: <ol style="list-style-type: none"> <li>(i) 1 July to 30 September</li> <li>(ii) 1 October to 31 December</li> <li>(iii) 1 January to 31 March</li> <li>(iv) 1 April to 30 June</li> </ol> inclusive of the start and end dates.

## 3 Method for recovery amount claims

A C&I MRF operator may make a claim for the payment of a recovery amount by lodging a claim with the scheme coordinator in the approved form and manner, in accordance with the C&I material recovery agreement.

The exact count method must be used for estimating the total number of eligible containers processed for reuse or recycling by the C&I MRF operator during any given quarter.

### 3.1 Exact count (manual or automated)

Each C&I MRF operator using the exact count method for one or more output material types must count the number of individual eligible containers of each relevant output material type. This must exclude any scheme material for which a claim has already been made, delivered from the C&I MRF for reuse or recycling.

Counting may be undertaken on a manual or automated basis. Using this method, recounts must be undertaken monthly of the proportion of containers determined in accordance with the C&I MRF sampling plan prepared by the scheme coordinator and approved by the Chief Executive Officer (CEO) of the Department to assess the accuracy of the counting procedures undertaken.

Documentary evidence of all recounts must be maintained. Manual recounts can be undertaken concurrently where counting is undertaken on an automated basis.

### 3.2 Output material types

Output materials delivered from the C&I MRF for the purpose of reuse or recycling must be separated into each of the following output material types:

1. Aluminium
2. PET
3. HDPE
4. Mixed plastics (PET, HDPE and other plastics)
5. Glass
6. Steel
7. LPPB
8. Any other eligible containers.

## 4 Calculation of recovery amount claims

The amount payable by the scheme coordinator to a C&I MRF operator must be determined using the calculations detailed below.

### 4.1 Number of eligible containers by output material type

Where a C&I MRF operator makes a recovery amount claim using exact count, for a particular output material, the scheme coordinator must determine the estimated number of eligible containers processed for reuse or recycling during the quarter using the following calculation:

$$E_i = DC_i$$

Where:

$E_i$  is the estimated number of eligible containers processed for reuse or recycling during the quarter for output material type (i).

$DC_i$  is the total exact count number of eligible containers for output material type (i) delivered from the C&I MRF for reuse or recycling during the quarter, excluding any claimed scheme material.

### 4.2 Total recovery amount payable

The scheme coordinator must calculate the total recovery amount payable to a C&I MRF for each quarter using the following calculation:

$$P = \sum^i (E_i \times RA)$$

Where:

P is the total recovery amount payable to the C&I MRF operator for the quarter.

$\sum^i$  is the sum over each value of i (output material type) of ( $E_i \times RA$ ).

$E_i$  is the estimated number of eligible containers processed and delivered for reuse or recycling during the quarter for output material type (i), excluding any claimed scheme material.

RA is the refund amount per eligible container, as set out in the Regulations.