

# 2023 C&I waste audit - garbage bag report





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We recognise Aboriginal peoples' spiritual and cultural connection and inherent right to protect the land, waters, skies and natural resources of NSW. This connection goes deep and has since the Dreaming.

We also acknowledge our Aboriginal and Torres Strait Islander employees who are an integral part of our diverse workforce and recognise the knowledge embedded forever in Aboriginal and Torres Strait Islander custodianship of Country and culture.

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# Executive summary

## Introduction

Since 2003 the NSW Government has commissioned four separate audits of commercial and industrial (C&I) sector waste at selected representative landfills and transfer stations across NSW. Data collected by conducting both visual assessments and bag audits, in accordance with a detailed methodology refined over time, determines the composition of the C&I waste stream and provides granularity not available from other data sources.

In 2003 and 2008 the first C&I waste audits were confined to the Sydney Metropolitan Area only. The 2014 audit expanded the geographic reach and assessed 14 sites across the NSW landfill levy paying regions. The 2014 audit supported the planning and delivery of the *Waste Less Recycle More* initiative delivered from 2013-2022 with \$802 million of funding. The audit provided baseline data on C&I recyclable materials being disposed of at landfills and determined the waste profiles by key industry sectors, regions and sub-regions with a focus on potentially recyclable material.

In 2021 the NSW Government announced a further significant investment in resource recovery as part of the transition to a circular economy under the *NSW Waste and Sustainability Materials Strategy 2041*. Stage 1 (2021-2027) of the Strategy outlines actions over a six-year period to move NSW towards a circular economy. Alongside the Strategy, the *Waste Delivery Plan* outlines how the NSW EPA will work with partners to deliver on the government's strategic waste priorities under both the *NSW Waste and Sustainable Materials Strategy* and the *NSW Plastics Action Plan*.

In 2023 the EPA engaged APC Waste Consultants (APC) to undertake an audit of C&I waste deliveries at 14 representative waste disposal facilities across the Metropolitan Levy Area (MLA), the Regional Levy Area (RLA) and Non-Levied Area (NLA). This is the first time that NLA has been included in the audit.

Between 31 July and 19 September 2023 field work entailed both visually assessing 1,515 C&I waste loads and attributing the composition to 50 identifiable visual categories. In addition, EC Sustainable extracted 3,540 individual bags of waste at 11 sites and sorted to a more detailed 170 categories.

This 2023 C&I audit data will provide an evidence base to support:

- government and industry investment decisions for the C&I sector
- development of future EPA waste and recycling programs
- other non-financial programs and policies to increase recycling of C&I waste
- regional and sub-regional waste and resource recovery planning
- benchmarking against 2014 audit data, and
- evaluation of the impacts of government initiatives including *Waste Less Recycle More (2013-2021)* and the *Waste and Sustainable Materials Strategy (2022 onwards)*.

This audit provides useful insights into the current composition of the NSW C&I waste stream, by selected material categories and sub-categories including:

- industry sector identifying which sectors generate the most C&I waste
- identifying potentially recoverable materials that are currently being landfilled
- addresses key focus material categories and sub-categories to help inform future public policy
- identifies geographically differences in composition by levy region
- identify key differences between the 2014 and 2023 audit findings.

The audit results provide meaningful and timely data that can be used by the entire sector to quantify the nature and quantum of the specific materials currently disposed to landfill and help guide all parties to



identify where new opportunities exist for further resource recovery and where the greatest effort should be directed.

Overall, garbage bags were 44.8% by weight of all C&I waste in this audit. The audit shows that the majority of C&I garbage bag waste was from the healthcare /social assistance, food and beverage services, shopping centres, retail and education and training sectors, and that the main components of the waste were organics, paper and cardboard and plastic.

Of the C&I garbage bag waste disposed of to landfill, 51.4% is currently recoverable. The main opportunities for materials in garbage bags that can be recovered now are food, paper, cardboard and plastic comingled.

In the future, better source segregation and new technologies will enable more materials to be accessed for recycling.

## Summary

A summary of the audit process and findings is presented below. The results in this report vary slightly to those reported in the visual audit. This is due to the garbage bag report being developed based on the sorted weights by region and the visual audit being based on the results by site factored to the tonnes delivered to each site. Factoring was not required in the garbage bag audit, because the audit was not based on whole loads.

## The field audit

The field audit took place at seven landfills and four transfer stations over 25 days during July and September 2023, including:

- 3 MLA landfills;
- 2 RLA landfills;
- 2 NRA landfills; and
- 4 MLA transfer stations.

The sample of 3,540 bags weighing 5.92 tonnes came from 354 business sites, with 44 from MLA landfills, 37 from RLA landfills, 45 from NLA landfills and 228 from MLA transfer stations.

These bags were sorted into 148 categories plus textiles / leather sub-sort to determine the detailed contents.

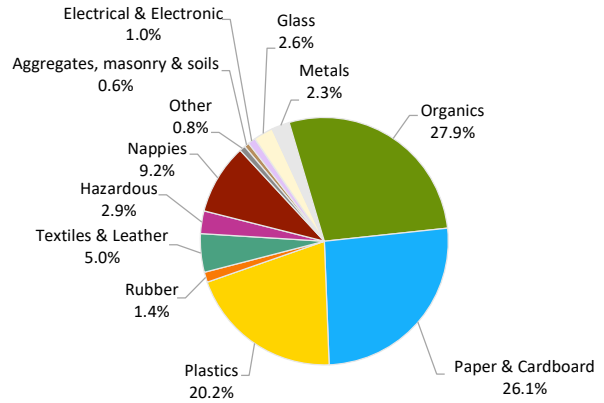
The contents were consolidated into the categories used in the visual audit and categories used to report recoverability.

## Composition of the overall garbage bags

The garbage bags sorted in this study contain (by weight) mainly:

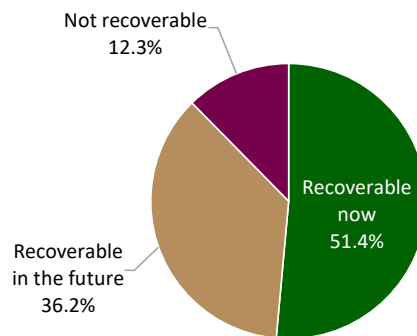
- Organics (27.9%).
- Paper and cardboard (26.1%)
- Plastics (20.2%).
- Nappies (9.2%).

Garbage bags also contain textiles and leather, metal, glass, electrical and electronic, hazardous, rubber and small amounts of aggregates, masonry and soils.



## Recoverability of the overall garbage bags

Currently, 51.4 % of materials in garbage bags from the C&I waste is recoverable, with an additional 36.2% that could be recovered in the future. The remaining 12.3% of bagged material is not recoverable.

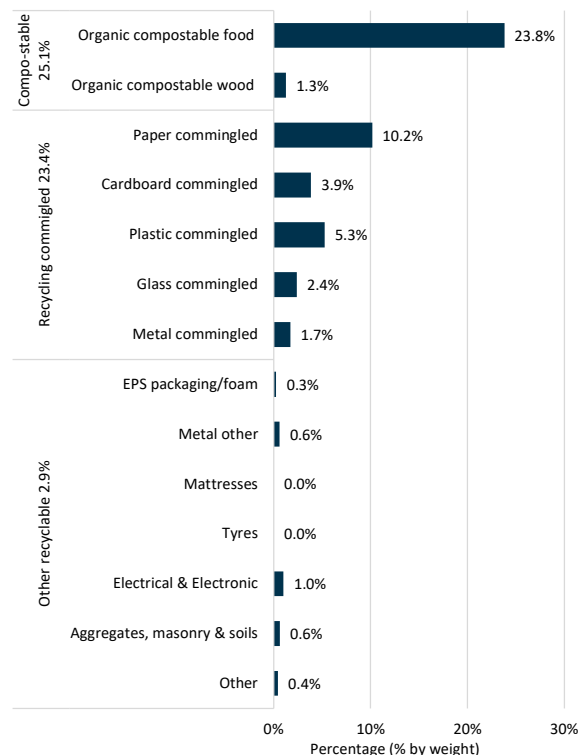


## Recoverable now material of the overall garbage bag waste

Of the 51.4% of material that is recoverable now, the main materials are:

- Compostable food (23.8%).
- Paper commingled (10.2%).
- Plastic commingled (5.3%).

Cardboard, glass and metal commingled, wood and electrical and electronic items are also opportunities for increasing recovery now, as are plastic film and nappies within material recoverable in the future.



# The trends in garbage bag composition compared to 2014

The audits undertaken in 2008, 2014 and 2023 help to understand the trends in generation of waste and recycling in garbage bags. The main changes in 2023 compared to the 2014 audit include:

## 1. MLA

### a. Recoverable now:

- i. A decrease of paper comingled, organic compostable wood and food.
- ii. An increase of plastic and cardboard comingled, and electrical and electronic items.

### b. Recoverable in the future:

- i. A decrease of plastic packaging – P6 and P7, organic other and plastic film.
- ii. An increase of nappies, textiles other, cardboard other, plastic other and rubber other.

## 2. RLA

### a. Recoverable now:

- i. A decrease of organic compostable food, glass and plastic comingled.
- ii. An increase of paper comingled, electrical and electronic items and organic compostable wood.

### b. Recoverable in the future:

- i. A decrease of plastic film, plastic packaging – P6 and P7, textiles other, and rubber other.
- ii. An increase of nappies, cardboard other, organic other, plastic other and liquid paperboard.

## The opportunity

This garbage bag audit provides insight into the materials in bags that are still being disposed of in landfills and the scope for recovery. The composition of garbage bags is a direct reflection of business practices and availability of storage and collection systems onsite. The garbage bag compositional data is critical in the determination of the overall material composition of the C&I waste disposed at landfills.

These audit results offer valuable insights into the effectiveness of the WLRM initiative and inform the success of the current Government's initiatives, such as the *Waste and Sustainable Material Strategy 2041* (WaSM), and the various business recycling programs developed and implemented by the Government as well as future directions for improving resource recovery and the transition to a circular economy in NSW.

Innovative recovery options should be investigated, programs developed and implemented, to reduce recoverable materials still present in the garbage bags. This includes waste minimisation, separation of material at source, storage provisions onsite, cost effective collections, innovative processing technologies and markets for recycled products.

The overall target materials are:

- Organic compostable food;
- Recycling commingled;
- Nappies;
- Plastic film;
- Textiles (except mattresses);
- Plastic other; and
- Organics other, such as packaged food and treated wood.

The other priority materials by weight for the regions of NSW are:

- MLA:
  - Cardboard other
  - Rubber (not tyres)
- RLA:
  - Cardboard other
  - Electrical and electronic
- NLA:
  - Electrical and electronic
  - Aggregates, masonry & soils

Programs should be developed and implemented to improve garbage bag contents recycling in specific regions and at specific industry sectors using the data and recommendations within this report.

# 1. Introduction

## 1.1. Purpose and objectives

Visual auditing (or surveying) methods are the most cost-effective way to obtain the composition data on the overall C&I stream. However, the contents of garbage bags cannot be assessed using visual auditing methods because the garbage bags are generally:

- Sealed or tied.
- Spread throughout loads and while they can be seen during tipping, they are inaccessible once the full load has been placed in the landfill face.
- Filled with a diversity of small items in the contents.
- Made from non-transparent materials and therefore need to be opened to be sorted and analysed.

Therefore, to obtain detailed data on the composition, this garbage bag audit was conducted whereby 3,540 bags were sampled from the waste generated by 354 businesses across 11 sites, including 3 MLA landfills, 2 RLA landfills, 2 NLA landfills and 4 MLA transfer stations. The sampled bags were then delivered to a sorting site for compositional analysis, with a total weight of 5.92 tonnages. This data was analysed and incorporated into the overall C&I composition report.

The purpose of this project is to:

1. Provide garbage bag composition data to assist with the overall C&I waste stream composition based on a visual audit of loads tipping.
2. Measure progress in resource recovery:
  - a. Since the previous audit in 2014.
  - b. After the 2017 Waste Less Recycle More (WLRM) extension was announced and measure the impact on the diversion from landfills of priority materials from the MSW and C&I waste streams.
3. Determine the weight and percentage composition of the material components of garbage bags disposed:
  - a. By region: MLA, RLA and NLA.
  - b. By industry sector:
    - i. Manufacturing food;
    - ii. Manufacturing other;
    - iii. Wholesale trade;
    - iv. Food retailing;
    - v. Other store retailing;
    - vi. Accommodation;
    - vii. Cafes and restaurants;
    - viii. Transport, postal and warehousing;
    - ix. Professional, scientific, and technical services;
    - x. Administrative and support services;
    - xi. Public administration and safety services;
    - xii. Arts and recreation services;
    - xiii. Education and training;
    - xiv. Healthcare and social assistance;
    - xv. Shopping centres;
    - xvi. Offices; and
    - xvii. Mixed small-to-medium Enterprises (SMEs).

## 1.2. Document structure

This report provides:

- Section 2 – Project method used to obtain the data.
- Section 3 – Assumptions and limitations.
- Section 4 – Results of the audit by region.
- Section 5 – Results of the audit by sector.
- Section 6 – Discussion.
- Section 7 – Conclusions.

Appendices provide additional information:

- Appendix A – CDS eligibility
- Appendix B – Definition of regions
- Appendix C – Management systems
- Appendix D – Audit photos
- Appendix E – Raw data
- Appendix F – Definitions of industry sectors

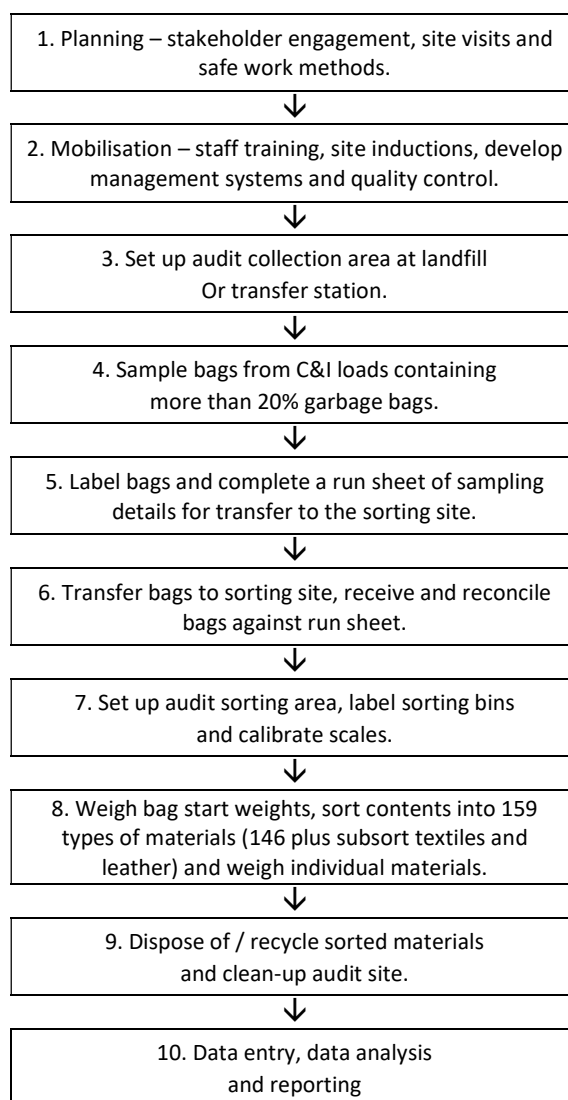
## 2. Project method

This audit was a detailed sorting of garbage bags extracted from the visually assessed C&I waste loads. Previous audits of garbage bags were conducted in 2008 and 2014. The garbage bag audit supports the visual audit reported in the document *Disposal based audit of the commercial and industrial waste stream in NSW (main report)* by providing insight into the composition of waste materials in garbage bags.

### 2.1. Overview

This section provides a summary of the project method. Quality control and Work Health and Safety (WHS) is outlined in Appendix C. Figure 1 provides a summary of the structure of the audit project method.

**Figure 1 Garbage bag audit project method summary**



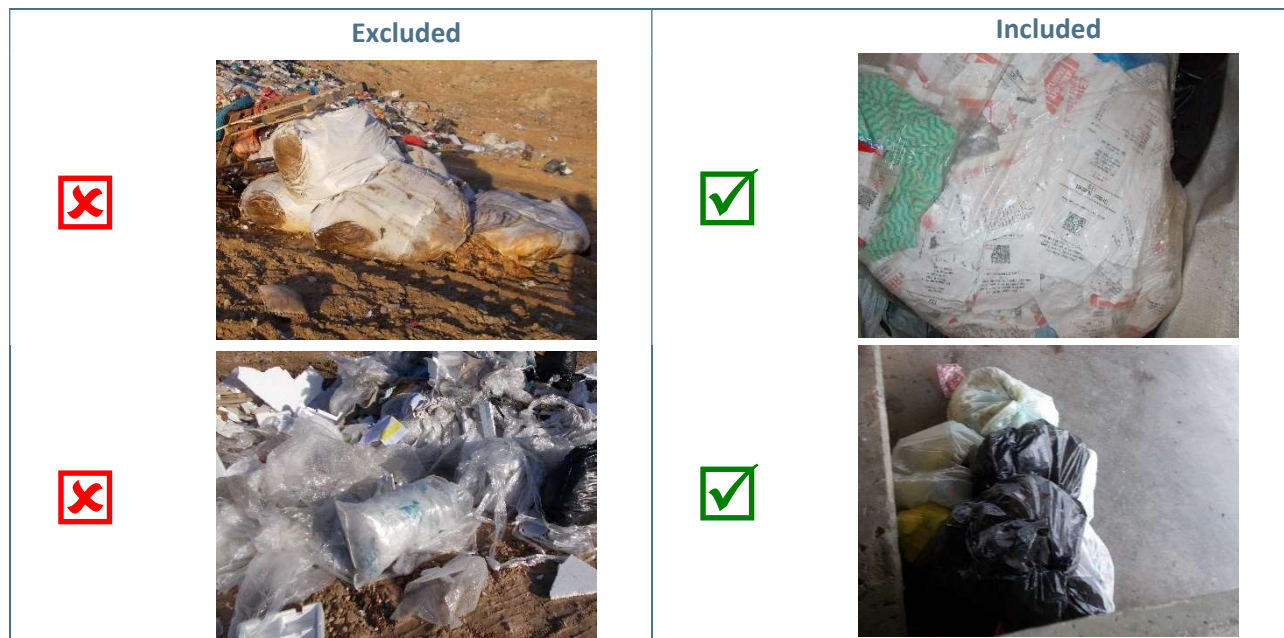
### 2.2. Timeframe

The garbage bag sampling was conducted over 25 days in July to September 2023 and the audit was carried out over 45 days in August to October 2023. The data was collected during the winter season, after the new financial year.

## 2.3. Definition of garbage bags

Garbage bags are defined as: Disposable plastic bags that are used to discard waste from onsite bins at C&I premises. Paper bags, hessian bags, bulka bags, small shopping carrier bags, bags containing bulk non-spec material from manufacturing processes, insulation wrap and packaging materials wrapped in plastic are excluded from this definition. Figure 2 provides an example of a type of bag included and excluded from the study.

**Figure 2 Garbage bag types included and excluded**



## 2.4. Sampling

### 2.4.1. Locations and sample size

The garbage bag audit was conducted at 11 sites across NSW sampling 3,540 garbage bags from 354 businesses (10 bags from each business load). The types of sites and the number of bags audited by region are shown in Table 1.

**Table 1 Garbage bag sample details**

Site type	Number of sites by region				Number of bags audited by region			
	MLA	RLA	NLA	Overall	MLA	RLA	NLA	Overall
Landfills	3	2	2	7	440	370	450	1,260
Transfer stations	4	0	0	4	2,280	0	0	2,280
<b>Total</b>	<b>7</b>	<b>2</b>	<b>2</b>	<b>11</b>	<b>2,720</b>	<b>370</b>	<b>450</b>	<b>3,540</b>



## 2.4.2. Bag sampling and collection process

This section provides the steps of the sampling and collection process for this audit.

### **Step 1**

The garbage bag audit team wait in the base audit area until a suitable load arrives at the facility. The two-person team then leave the area and adopts a position a safe distance from moving vehicles.

### **Step 2**

A C&I waste truck tips material at the waste and recycling facility. The vehicle registration and delivery truck details are recorded and communication is made with gatehouse audit and visual audit teams, to ensure that the load is C&I material, and if so, which industry source and that the load is confirmed as containing more than 20% garbage bags by volume.

### **Step 3**

The team approaches the load once the garbage delivery truck exits the area. The team then checks the surroundings to ensure a safe collection process and takes a trolley (or set of 240L Mobile Garbage Bins [MGBs]) to the delivered load to carry the bags with minimal manual handling risk.

### **Step 4**

The team assess the proportion of the type and colour of bags delivered and the size of the bags in the load and randomly select a representative 12 bags from the industry sector. The bags are placed in hessian bags to facilitate secure transfer to the base audit area.

### **Step 5**

The bags are taken to the base audit area so the bag sources can be checked and 2 bags of the 12 sampled are removed if they are not from the same industry source or 2 bags are removed at random if all of the bags are from the same source. The bags are then weighed and the volume measured and loaded onto a truck in hessian bags (one or two per sample of 10 bags). The sample details are recorded onto a runsheet and the bags are delivered to the sorting site.

### 2.4.3. Industry sectors

The garbage bag audit focuses on industry sectors that generate garbage bags and these are categorised into 18 ANZSIC industry sectors and 25 ANZSIC industry sub-sectors as shown in Table 2.

A total of 3,540 garbage bags were sourced from 354 individual samples. These 354 samples were coded into the industry sectors shown in Table 2.

**Table 2 Garbage bag sample details**

No.	Sector code	Sector name	Number of businesses audited	Number of bags audited
1	M	Manufacturing/factories	23	230
1a	M1 ^	Food product manufacturing	15	150
1b	M2 ^	Textile, leather, clothing and footwear	0	0
1c	M3 ^	Wood product manufacturing	0	0
1d	M4 ^	Polymer product and rubber product manufacturing	2	20
1e	M5 ^	Furniture and other manufacturing	6	60
2	W	Wholesale trade	6	60
2a	W1 ^	Grocery, Liquor and Tobacco product wholesaling	5	50
2b	W2 ^	Other good wholesalers	1	10
3	R	Retail trade	38	380
3a	R1 ^	Food retailing	11	110
3b	R2 ^	Other store retailing	27	270
4	AF	Accommodation and food services	74	740
4a	AF1 ^	Accommodation	13	130
4b	AF2 ^	Food and beverage	61	610
5	T	Transport, postal and warehousing	8	80
6	IT	Information media and telecommunications	0	0
7	F	Financial and insurance services	0	0
8	RE	Rental, hiring and real estate services	0	0
9	PS	Professional, scientific, and technical services	17	170
10	AD	Administrative and support services	3	30
11	G	Public administration and safety	2	20
12	ED	Education and training	24	240
13	H	Health care and social assistance	68	680
14	AR	Arts and recreation services	10	100
15	SC	Shopping centre	58	580
16	O	Offices	11	110
17	X	Other	0	0
18	U	Unknown	12	120
		<b>Total</b>	<b>354</b>	<b>3,540</b>

^ These sectors with a number are the sub-sector from the main industry sector that they have the same alphabetic character.

## 2.5. Material sorting

### 2.5.1. Sorting process

This section provides the steps of the garbage bag sorting process.

#### **Step 1**

The audit team receive the garbage bags at the sorting site and line them up in order of the sample number. Bags from the same load are placed on top of each other.

The gate fees are paid on entry to the sorting facility after the tonnages removed from the collection facility, to ensure that the appropriate levies were only paid once.

#### **Step 2**

Bags are sorted based on the sample number order by the sorting teams of up to eight staff, with each team having 2-4 people, including one consultant per team for data entry, sorting compliance checking, and general methods analysis.

These bags are first weighed as a complete sample to ensure the weight reconciles with the weight recorded at the collection site, and the weight of the separated materials following sorting.

#### **Step 3**

The composition of the ten bags in each of the sorting categories are sorted by the teams into 60L sorting bins each labelled with the material category using laminated sorting bin labels. The sorting categories are provided in Table 3.

#### **Step 4**

The consultant records the weight of each material category in the 60L sorting bins. A tare and gross bin weight is taken by the data recorder. The material is then tipped into 240L MGB's and removed for recycling or disposal at the sorting site.

## 2.5.2. Sorting categories

The materials were sorted and classified for analysis using the 148 categories shown in Table 3, labelled S-1 to S-148. Photos of the sorting are shown in Appendix D.

## 2.5.3. Consolidation of sorting categories

The consolidation of sorting categories for reporting was based on the groupings of materials shown in Table 3 in columns for:

- The visual auditing categories, the material categories used in the visual audit of C&I loads. This was conducted using the detailed 148 categories shown in Table 3 and using the 12 summary categories of:
  - Paper and cardboard
  - Plastics
  - Glass
  - Metals
  - Organics
  - Textiles and leather
  - Rubber
  - Electrical and electronic
  - Aggregates, masonry and soils
  - Hazardous
  - Nappies
  - Other
- The analysis of recoverability using the material categories deemed to be recoverable. This was conducted using the detailed categories shown in Table 3 and using the consolidated 3 categories of:
  - Recoverable now  meaning materials whereby collection provisions, processing and end-markets available are available at present.
  - Recoverable in the future  meaning materials whereby collection provisions, processing and end-markets available may be available in the future and may require additional separation at source.
  - Not Recoverable  meaning materials for which neither of the above criteria apply in the foreseeable future.
- Degradable Organic Carbon (DOC) materials, including categories that contain materials that would degrade and produce greenhouse gases when disposed in landfill, such as paper, cardboard, food, textiles, vegetation, and nappies.
- Packaging materials, including categories that contain materials used for packaging, such as paper, cardboard, glass, steel, aluminium, liquid paperboard.

**Table 3 Sorting categories and consolidation method**

	Sorting category	Visual category	Summary category	REC.	DOC	PACK AGIN G
S-1	Food organics - unpackaged	Food organics – unpackaged	Organic compostable food	☑	☑	☒
S-2	Food organics - packaged	Food organics – packaged	Organic other	○	☑	☒
S-3	Food organics - cooking oil	Food organics – liquid	Organic compostable food	☑	☑	☒
S-4	Food organics - other liquid	Food organics – liquid	Organic compostable food	☑	☑	☒
S-5	Garden organics	Garden organics	Organic compostable wood	☑	☑	☒
S-6	Organics - other putrescible	Garden organics	Organic compostable wood	☑	☑	☒
S-7	Wood/untreated - single-use items (e.g., bamboo cutlery, stirrers)	Wood – untreated	Organic other	○	☑	☒
S-8	Wood/untreated - board/pole	Wood – untreated	Organic compostable wood	☑	☑	☒
S-9	Wood/untreated - pallets	Wood – untreated – pallets	Organic compostable wood	☑	☑	☒
S-10	Wood/untreated - furniture	Wood – untreated – furniture	Organic compostable wood	☑	☑	☒
S-11	Wood/untreated - chipboard / MDF	Wood – MDF & chipboard	Organic other	○	☑	☒
S-12	Wood/untreated - sawdust	Sawdust	Organic compostable wood	☑	☑	☒
S-13	Wood/treated/painted - board/pole	Wood – treated/painted	Organic other	○	☑	☒
S-14	Wood/treated/painted - pallets	Wood – treated – pallets	Organic other	○	☑	☒
S-15	Wood/treated/painted - furniture	Wood – treated – furniture	Organic other	○	☑	☒
S-16	Wood/treated - chipboard / MDF	Wood – MDF & chipboard	Organic other	○	☑	☒
S-17	Wood/treated - sawdust	Wood – treated/painted	Organic other	○	☑	☒
S-18	Cardboard dry - packaging	Cardboard – dry	Cardboard commingled	☑	☑	☑
S-19	Cardboard dry - production spoils	Cardboard – dry	Cardboard commingled	☑	☑	☒
S-20	Cardboard dry - waxed	Cardboard – wet strength/waxed	Cardboard other	○	☑	☑
S-21	Cardboard wet - packaging	Cardboard – wet	Cardboard commingled	☑	☑	☑
S-22	Cardboard - NOT CDS - wine/champagne casks/sachets >1-3L	Cardboard – dry	Cardboard commingled	☑	☑	☑
S-23	Cardboard - pizza boxes	Cardboard – dry	Cardboard commingled	☑	☑	☑

Sorting category		Visual category	Summary category	REC.	DOC	PACK AGIN G
S-24	Cardboard wet - production spoils	Cardboard – wet	Cardboard commingled	☑	☑	☒
S-25	Cardboard wet - waxed / wet strength - boxes	Cardboard – wet strength/waxed	Cardboard other	○	☑	☑
S-26	Cardboard - disposable - coffee cups - compostable	Cardboard – wet strength/waxed	Cardboard other	○	☑	☑
S-27	Cardboard - disposable - coffee cups - non-compostable	Cardboard – wet strength/waxed	Cardboard other	○	☑	☑
S-28	Cardboard - disposable - other cups	Cardboard – wet strength/waxed	Cardboard other	○	☑	☑
S-29	Paper - photocopy paper	Paper – recyclable	Paper commingled	☑	☑	☒
S-30	Paper - magazines/catalogues	Paper – recyclable	Paper commingled	☑	☑	☒
S-31	Paper - brochures and leaflets	Paper – recyclable	Paper commingled	☑	☑	☒
S-32	Paper - books	Paper – recyclable	Paper commingled	☑	☑	☒
S-33	Paper - printing/writing (other office)	Paper – recyclable	Paper commingled	☑	☑	☒
S-34	Paper - other packaging	Paper – packaging	Paper commingled	☑	☑	☑
S-35	Paper - newsprint	Paper – recyclable	Paper commingled	☑	☑	☒
S-36	Paper - brown kraft paper	Paper – packaging	Paper commingled	☑	☑	☑
S-37	Paper - rolls of low grade	Paper – packaging	Paper commingled	☑	☑	☒
S-38	Paper - hand towels	Paper – non-recyclable	Organic compostable paper	☒	☑	☒
S-39	Paper - single-use items	Paper – recyclable	Paper commingled	☑	☑	☒
S-40	Paper - contaminated (incl. tissue; excl. hand towels)	Paper – non-recyclable	Organic compostable paper	☒	☑	☒
S-41	Plastic - PET beverage container (P1) - CDS	Plastic – rigid packaging	Plastic commingled	☑	☒	☑
S-42	Plastic - PET beverage container (P1) - NOT CDS - fruit & veg juice >1-3L	Plastic – rigid packaging	Plastic commingled	☑	☒	☑
S-43	Plastic - PET beverage container (P1) - NOT CDS - cordial	Plastic – rigid packaging	Plastic commingled	☑	☒	☑
S-44	Plastic - PET beverage container (P1) - NOT CDS - flavoured milk >1-3L	Plastic – rigid packaging	Plastic commingled	☑	☒	☑
S-45	Plastic - PET beverage container (P1) - NOT CDS - other	Plastic – rigid packaging	Plastic commingled	☑	☒	☑
S-46	Plastic - PET packaging (P1) (excl beverage container)	Plastic – rigid packaging	Plastic commingled	☑	☒	☑
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	Plastic – other	Plastic other	○	☒	☒
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	Plastic – other	Plastic other	○	☒	☒

Sorting category		Visual category	Summary category	REC.	DOC	PACK AGIN G
S-49	Plastic - HDPE beverage container (P2) - CDS	Plastic – rigid packaging	Plastic commingled	✓	✗	✓
S-50	Plastic - HDPE beverage container (P2) - NOT CDS	Plastic – rigid packaging	Plastic commingled	✓	✗	✓
S-51	Plastic - HDPE packaging (excl beverage container) (P2)	Plastic – rigid packaging	Plastic commingled	✓	✗	✓
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	Plastic – other	Plastic other	○	✗	✗
S-53	Plastic - PVC beverage container (P3) - CDS	Plastic – rigid packaging	Plastic commingled	✓	✗	✓
S-54	Plastic - PVC beverage container (P3) - NOT CDS - cordial	Plastic – rigid packaging	Plastic commingled	✓	✗	✓
S-55	Plastic - PVC beverage container (P3) - NOT CDS - other	Plastic – rigid packaging	Plastic commingled	✓	✗	✓
S-56	Plastic - PVC packaging (excl beverage container) (P3)	Plastic – rigid packaging	Plastic commingled	✓	✗	✓
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	Plastic – other	Plastic other	○	✗	✗
S-58	Plastic - LDPE packaging (P4)	Plastic – rigid packaging	Plastic commingled	✓	✗	✓
S-59	Plastic - LDPE non-packaging (P4)	Plastic – other	Plastic other	○	✗	✗
S-60	Plastic - PP packaging (P5)	Plastic – rigid packaging	Plastic commingled	✓	✗	✓
S-61	Plastic - PP non-packaging (P5) - cups	Plastic – other	Plastic other	○	✗	✗
S-62	Plastic - PP non-packaging (P5) - other	Plastic – other	Plastic other	○	✗	✗
S-63	Plastic - PS packaging (P6)	Plastic – rigid packaging	Plastic commingled	○	✗	✓
S-64	Plastic - EPS packaging container (P6)	Plastic – rigid packaging	Plastic other	✓	✗	✓
S-65	Plastic - PS/EPS - straws	Plastic – other	Plastic other	✗	✗	✗
S-66	Plastic - PS/EPS - stirrers	Plastic – other	Plastic other	✗	✗	✗
S-67	Plastic - PS/EPS - cutlery	Plastic – other	Plastic other	✗	✗	✗
S-68	Plastic - PS/EPS - cups	Plastic – other	Plastic other	✗	✗	✗
S-69	Plastic - PS/EPS - coffee cup lids	Plastic – rigid packaging	Plastic other	✗	✗	✗
S-70	Plastic - PS/EPS - stemmed cotton buds	Plastic – other	Plastic other	✗	✗	✗
S-71	Plastic - PS - plates/bowls	Plastic – other	Plastic other	✗	✗	✗
S-72	Plastic - EPS - plates/bowls	Plastic – other	Plastic other	✗	✗	✗
S-73	Plastic - other plastic beverage container (P7) - CDS	Plastic – rigid packaging	Plastic commingled	○	✗	✓

Sorting category		Visual category	Summary category	REC.	DOC	PACK AGIN G
S-74	Plastic - other plastic beverage container (P7) - NOT CDS	Plastic – rigid packaging	Plastic commingled	○	☒	☑
S-75	Plastic - other plastic packaging (excl. beverage containers) (P7)	Plastic – rigid packaging	Plastic commingled	○	☒	☑
S-76	Plastic - other plastic non- beverage/ non-packaging (P7)	Plastic – other	Plastic other	○	☒	☒
S-77	Plastic - film - packaging - single use HDPE bags	Plastic – film packaging	Plastic film	○	☒	☑
S-78	Plastic - film - packaging - single use 'boutique' (LDPE) bags	Plastic – film packaging	Plastic film	○	☒	☑
S-79	Plastic - film - packaging - reusable non-woven PP bag	Plastic – film packaging	Plastic film	○	☒	☑
S-80	Plastic - film - packaging - other	Plastic – film packaging	Plastic film	○	☒	☑
S-81	Plastic - film - non-packaging	Plastic – other	Plastic film	○	☒	☒
S-82	Plastic - polystyrene foam (EPS)	Plastic – EPS foam	Plastic other	☑	☒	☑
S-83	Plastic - other	Plastic – other	Plastic other	○	☒	☒
S-84	Glass - containers beverage - CDS	Glass – packaging	Glass commingled	☑	☒	☑
S-85	Glass - containers beverage - NOT CDS - wine/champ	Glass – packaging	Glass commingled	☑	☒	☑
S-86	Glass - containers beverage - NOT CDS - spirits	Glass – packaging	Glass commingled	☑	☒	☑
S-87	Glass - containers beverage - NOT CDS - flavoured alcoholic beverage	Glass – packaging	Glass commingled	☑	☒	☑
S-88	Glass - containers beverage - NOT CDS - fruit & veg juice >1-3L	Glass – packaging	Glass commingled	☑	☒	☑
S-89	Glass - containers beverage - NOT CDS - cordial	Glass – packaging	Glass commingled	☑	☒	☑
S-90	Glass - containers beverage - NOT CDS - flavoured milk >1-3L	Glass – packaging	Glass commingled	☑	☒	☑
S-91	Glass - containers beverage - NOT CDS - unflavoured milk	Glass – packaging	Glass commingled	☑	☒	☑
S-92	Glass - containers beverage - NOT CDS - other	Glass – packaging	Glass commingled	☑	☒	☑
S-93	Glass - containers non-beverage	Glass – packaging	Glass commingled	☑	☒	☑
S-94	Glass - containers (fines)	Glass – packaging	Glass commingled	☑	☒	☑
S-95	Glass - plate/non-packaging (other glass)	Glass – non-packaging	Glass other	○	☒	☒
S-96	Metal (ferrous) - packaging beverage - CDS	Metal – ferrous – packaging	Metal commingled	☑	☒	☑
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	Metal – ferrous – packaging	Metal commingled	☑	☒	☑



Sorting category	Visual category	Summary category	REC.	DOC	PACK AGIN G
S-98 Metal (ferrous) - packaging beverage - NOT CDS - other	Metal – ferrous – packaging	Metal commingled	✓	✗	✓
S-99 Metal (ferrous) - packaging non-beverage	Metal – ferrous – packaging	Metal commingled	✓	✗	✓
S-100 Metal (ferrous) - non-packaging	Metal – ferrous – non-packaging	Metal other	✓	✗	✗
S-101 Metal (non-ferrous) - packaging beverage - CDS	Metal – aluminium – packaging	Metal commingled	✓	✗	✓
S-102 Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	Metal – aluminium – packaging	Metal commingled	✓	✗	✓
S-103 Metal (non-ferrous) - packaging beverage - NOT CDS - other	Metal – aluminium – packaging	Metal commingled	✓	✗	✓
S-104 Metal (non-ferrous) - packaging non-beverage	Metal – aluminium – packaging	Metal commingled	✓	✗	✓
S-105 Metal (non-ferrous) - non-packaging	Metal – aluminium – non-packaging	Metal other	✓	✗	✗
S-106 Textiles - carpet and underlay	Textiles – carpet & underlay	Textiles other	○	✓	✗
S-107 Textiles - mattresses	Textiles – mattresses	Textiles (mattresses)	✓	✓	✗
S-108 Textiles - cloth/rags ^	Textiles – cloth & rags	Textiles other	○	✓	✗
S-109 Leather	Leather	Textiles other	○	✓	✗
S-110 Rubber - tyres, tubes	Rubber – tyres	Rubber	✓	✗	✗
S-111 Rubber - other	Rubber – other	Rubber	○	✗	✗
S-112 E&E - TVs	E&E – TVs	Electrical & Electronic	✓	✗	✗
S-113 E&E - computers and peripherals	E&E – computers and peripherals	Electrical & Electronic	✓	✗	✗
S-114 E&E - mobile phones	E&E – other	Electrical & Electronic	✓	✗	✗
S-115 E&E - toner cartridges	E&E – other	Electrical & Electronic	✓	✗	✗
S-116 E&E - whitegoods	E&E – whitegoods	Electrical & Electronic	✓	✗	✗
S-117 E&E - photo-voltaic systems - rooftop	E&E – photovoltaic systems	Electrical & Electronic	✓	✗	✗
S-118 E&E - photo-voltaic systems - portable	E&E – photovoltaic systems	Electrical & Electronic	✓	✗	✗
S-119 E&E - smoke detectors	E&E – other	Electrical & Electronic	✓	✗	✗
S-120 E&E - other	E&E – other	Electrical & Electronic	✓	✗	✗

Sorting category		Visual category	Summary category	REC.	DOC	PACK AGIN G
S-121	C&D - concrete	A, M & soils – concrete, bricks & asphalt	Aggregates, masonry & soils	✓	✗	✗
S-122	C&D - bricks	A, M & soils – concrete, bricks & asphalt	Aggregates, masonry & soils	✓	✗	✗
S-123	C&D - tiles	A, M & soils – other	Aggregates, masonry & soils	✓	✗	✗
S-124	C&D - rock/dirt/soil	A, M & soils – soil, clay & rubble	Aggregates, masonry & soils	✓	✗	✗
S-125	C&D - asphalt	A, M & soils – concrete, bricks & asphalt	Aggregates, masonry & soils	✓	✗	✗
S-126	C&D - plasterboard	A, M & soils – plasterboard	Aggregates, masonry & soils	✓	✗	✗
S-127	Asbestos	Asbestos	Other	✗	✗	✗
S-128	Hazardous/special - batteries - lead acid (e.g. car)	E&E – batteries	Electrical & Electronic	○	✗	✗
S-129	Hazardous/special - batteries - large removable (e.g. e-bike/power tool)	E&E – batteries	Electrical & Electronic	○	✗	✗
S-130	Hazardous/special - batteries - other	E&E – batteries	Electrical & Electronic	○	✗	✗
S-131	Hazardous/special - gas bottles	Hazardous – Chemicals/other hazardous	Other	✓	✗	✗
S-132	Hazardous/special - fire extinguishers	Hazardous – Chemicals/other hazardous	Other	✓	✗	✗
S-133	Hazardous/special - fluorescent lamps (lights)	Hazardous – Chemicals/other hazardous	Other	✓	✗	✗
S-134	Hazardous/special - chemicals	Hazardous – Chemicals/other hazardous	Other	✓	✗	✗
S-135	Hazardous/special - paint	Hazardous – Chemicals/other hazardous	Other	✓	✗	✗
S-136	Hazardous/special - oil (empty)	Hazardous – Chemicals/other hazardous	Other	○	✗	✗
S-137	Hazardous/special - oil (with contents)	Hazardous – Chemicals/other hazardous	Other	○	✗	✗
S-138	Hazardous/special - pharmaceutical	Hazardous – Clinical	Other	✗	✗	✗

Sorting category		Visual category	Summary category	REC.	DOC	PACK AGING
S-139	Hazardous/special - personal care with microbeads	Hazardous – Clinical	Other			
S-140	Hazardous/special - clinical - sharps	Hazardous – Clinical	Other			
S-141	Hazardous/special - clinical - other	Hazardous – Clinical	Other			
S-142	Fines (<10mm)	Other waste	Other			
S-143	Liquid paperboard (cardboard) - CDS	Cardboard – wet strength/waxed	Cardboard commingled			
S-144	Liquid paperboard (cardboard) - NOT CDS	Cardboard – wet strength/waxed	Cardboard commingled			
S-145	Liquid paperboard (cardboard) - other packaging	Cardboard – wet strength/waxed	Cardboard commingled			
S-146	Nappies (incl. AHW)	Other waste	Nappies			
S-147	Insulation	Insulation	Other			
S-148	Other (specify in notes)	Other waste	Other			

## 2.6. Recoverability of C&I waste currently disposed

Each material in the C&I waste was classified as one of the three types of material based on recoverability as shown in Table 4:

- **Recoverable now** – using available technology.
- **Recoverable in the future** – through better source separation and/or emerging technologies; or
- **Not recoverable** – no current or emerging technologies that can feasibly recycle this material.

**Table 4 Material recoverability aggregation**

 Recoverable now	 Recoverable in the future	 Not recoverable
<ul style="list-style-type: none"> <li>• Food organics – unpackaged</li> <li>• Food organics – liquid</li> <li>• Garden organics</li> <li>• Wood – untreated</li> <li>• Wood – untreated – pallets</li> <li>• Wood – untreated – furniture</li> <li>• Sawdust</li> <li>• Cardboard – dry</li> <li>• Cardboard – wet</li> <li>• Paper – recyclable</li> <li>• Paper – packaging</li> <li>• Plastic – rigid packaging</li> <li>• Plastic – EPS foam</li> <li>• Glass – packaging</li> <li>• Metal – ferrous – packaging</li> <li>• Metal – ferrous – non-packaging</li> <li>• Metal – aluminium – packaging</li> <li>• Metal – aluminium – non-packaging</li> <li>• Textiles – mattresses</li> <li>• Rubber – tyres</li> <li>• E&amp;E – TVs</li> <li>• E&amp;E – computers and peripherals</li> <li>• E&amp;E – whitegoods</li> <li>• E&amp;E – photovoltaic systems</li> <li>• E&amp;E – other</li> <li>• Chemicals/other hazardous (except oils)</li> <li>• Aggregates, masonry &amp; soils</li> </ul>	<ul style="list-style-type: none"> <li>• Food organics – packaged</li> <li>• Wood – single-use items</li> <li>• Wood – treated/painted</li> <li>• Wood – treated – pallets</li> <li>• Wood – treated – furniture</li> <li>• Wood – MDF &amp; chipboard</li> <li>• Cardboard – wet strength/waxed</li> <li>• Plastic – other</li> <li>• Other plastics (P7)</li> <li>• Plastic film</li> <li>• Glass – non-packaging</li> <li>• Textiles – carpet &amp; underlay</li> <li>• Textiles – cloth &amp; rags</li> <li>• Leather</li> <li>• Rubber – other</li> <li>• Batteries</li> <li>• Oils</li> <li>• Nappies</li> </ul>	<ul style="list-style-type: none"> <li>• Hand towels and contaminated tissue</li> <li>• PS/EPS – single-use items</li> <li>• Fines</li> <li>• Floc (plastic and metal residue from shredding)</li> <li>• Building waste (composites)</li> <li>• Pharmaceutical</li> <li>• Asbestos</li> <li>• Clinical</li> <li>• Insulation</li> <li>• Miscellaneous (this included mixed boxes of items, luggage, bric-a-brac, brake residue, drums of charcoal, air filters, glue, lino, synthetic grass, ducting)</li> </ul>

## 2.7. Data verification and accuracy

Several quality control measures were used including third party checking of data and weighing aggregated samples prior to sub-sorting to achieve accuracy. In addition, some random bins were re-sorted by an audit supervisor to check the sorting quality.

Rounding has been applied to this data; therefore the data represented is a calculated approximation of the raw data and its exact mathematical value. The rounding of figures may cause some variances with totals.

## 2.8. Unit of measurement

All results in the tables, the charts and the text are represented as percentage by weight unless otherwise stated.

## 2.9. Raw data

The raw data is provided in Appendix E in a separate Excel file.

## 2.10. Comparison of 2023 audit project method with 2014

Table 5 provides a comparison of the garbage bag sample size and categories sorted for the 2014 and 2023 audits. To profile the bag composition more accurately, the bags were picked up from the loads delivered that represented the selected industry sectors.

**Table 5 Comparison of the 2023 audit project method with 2014**

Item	2014 garbage bag audit	2023 garbage bag audit
Number of bags audited	3,010	3,540
Number of sets of 10 bags	301	354
Weight of bags (tonne)	7.64	5.92
Sampling region	SMA, ERA and RRA	MLA, RLA and NLA
Interception points: landfills	8	7
Interception points: transfer stations	4	4
Number of sampling sites	12, with 4 SMA landfills, 3 ERA landfills, 1 RRA landfills and 4 SMA transfer stations.	11, with 3 MLA landfills, 2 RLA landfills, 2 NRA landfills and 4 MLA transfer stations
Number of sorting categories	85	218 including 72 textiles and leather sub-sort

# 3. Assumptions and limitations

The following limitations of the study are noted, although there are few limitations-based lessons learnt after the 2008 and 2014 audits which generally used similar methods:

- The sampling included only 11 waste disposal sites.  
These values are calculated based on the percentage composition of all samples sorted as one overall region. The garbage bag audit did not obtain true generation weights for any unit such as a source generator or truckload, therefore, the percentages have been used. The confidence intervals are only calculated for the visual auditing categories to match the original design specification of the audit.
- The audits do not account for season, or the impact of holidays and festivals on C&I waste composition.
- Sampling was conducted just after the end of the financial year which may have resulted in increased amounts of paper in the waste from records disposed by businesses that were not recycled.
- The garbage bags were mainly sourced from mixed business loads, such as rear lifts and front lifts. The garbage bag audit staff then separated bags and matched up sets of bags to up to three sources from within the load. A source was a single business from a single sector or in some cases mixed small businesses where a set of bags were not identified from a single business. The garbage bag audit provides additional data on the source sectors of wastes received in mixed loads.
- Some businesses might be suitable for more than one sector coding due to the description for some sectors is similar to another. However, only one sector code was used for each business sampled in the calculation. The final sector code was determined by the main purpose and function of the business. A list of definitions of per industry sector is provided in Appendix F.
- The bag weights decrease from the time of collection (start weight) to the time of sorting (individual category weights). This is likely to be due to evaporation within the truck. While this meant that all bags were sorted at a centralised safe location, some additional weights needed to be added to the liquids category in the sorting data for liquid correction.
- The results in this report vary slightly to those reported in the visual audit. This is due to the garbage bag report being developed based on the sorted weights by region and the visual audit being based on the results by site factored to the tonnes delivered to each site. Factoring was not required in the visual audit, because whole loads were not audited.

# 4. Results by region

## 4.1. Detailed composition using all sorting categories

Table 6 provides the detailed generation rate of each material category by percentage audited in this garbage bag audit using the 148 sorting categories (excluding the sub-sort of textiles and leather). Figures are shaded in orange if they are 10% higher than the overall result and in bold if they are 10% lower than the overall result.

**Table 6 Detailed composition – 148 categories – by region, percentage by weight**

Sorting category	MLA	RLA	NLA	Overall
S-1 Food organics - unpackaged	23.11	22.24	<b>18.20</b>	22.42
S-2 Food organics - packaged	2.16	<b>2.00</b>	2.96	2.25
S-3 Food organics - cooking oil	0.01	<b>0.00</b>	<b>0.00</b>	0.01
S-4 Food organics - other liquid	1.28	1.36	2.08	1.38
S-5 Garden organics	1.03	<b>0.50</b>	<b>0.77</b>	0.95
S-6 Organics - other putrescible	0.30	0.58	<b>0.10</b>	0.30
S-7 Wood/untreated - single-use items	0.37	<b>0.22</b>	<b>0.19</b>	0.33
S-8 Wood/untreated - board/pole	<b>0.00</b>	<b>0.00</b>	0.04	0.01
S-9 Wood/untreated - pallets	0.00	0.00	0.00	0.00
S-10 Wood/untreated - furniture	0.02	0.01	<b>0.00</b>	0.01
S-11 Wood/untreated - chipboard / MDF	0.00	0.00	0.00	0.00
S-12 Wood/untreated - sawdust	0.00	0.01	0.00	0.00
S-13 Wood/treated/painted - board/pole	0.01	0.07	0.01	0.01
S-14 Wood/treated/painted - pallets	0.00	0.01	0.00	0.00
S-15 Wood/treated/painted - furniture	<b>0.04</b>	<b>0.00</b>	0.17	0.06
S-16 Wood/treated - chipboard / MDF	0.06	<b>0.05</b>	<b>0.00</b>	0.06
S-17 Wood/treated - sawdust	0.12	<b>0.00</b>	<b>0.00</b>	0.09
S-18 Cardboard dry - packaging	2.77	<b>2.44</b>	3.70	2.85
S-19 Cardboard dry - production spoils	0.00	0.00	0.00	0.00
S-20 Cardboard dry - waxed	0.11	<b>0.05</b>	<b>0.03</b>	0.09
S-21 Cardboard wet - packaging	0.90	<b>0.23</b>	<b>0.15</b>	0.74
S-22 Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	<b>0.00</b>	<b>0.00</b>	0.04	0.01
S-23 Cardboard - pizza boxes	0.26	<b>0.23</b>	0.31	0.26
S-24 Cardboard wet - production spoils	0.00	0.00	0.00	0.00
S-25 Cardboard wet - waxed / wet strength - boxes	0.47	<b>0.17</b>	<b>0.00</b>	0.38
S-26 Cardboard - disposable - coffee cups - compostable	0.67	1.04	<b>0.39</b>	0.68
S-27 Cardboard - disposable - coffee cups - non-compostable	0.84	0.85	<b>0.69</b>	0.82
S-28 Cardboard - disposable - other cups	<b>0.08</b>	0.30	0.09	0.10

Sorting category		MLA	RLA	NLA	Overall
S-29	Paper - photocopy paper	0.03	0.00	0.00	0.02
S-30	Paper - magazines / catalogues	0.58	0.56	0.45	0.56
S-31	Paper - brochures and leaflets	0.03	0.00	0.01	0.02
S-32	Paper - books	0.13	0.41	2.12	0.40
S-33	Paper - printing/writing (other office)	3.43	5.04	2.74	3.51
S-34	Paper - other packaging	0.56	0.68	0.76	0.59
S-35	Paper - newsprint	0.47	0.47	0.38	0.46
S-36	Paper - brown kraft paper	0.11	0.00	0.02	0.09
S-37	Paper - rolls of low grade	0.24	0.08	0.37	0.24
S-38	Paper - hand towels	3.40	4.01	3.30	3.45
S-39	Paper - single-use items	4.27	4.54	4.18	4.29
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	5.98	5.33	2.47	5.48
S-41	Plastic - PET beverage containers (P1) - CDS	0.78	0.76	0.69	0.76
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.10	0.03	0.13	0.09
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.01	0.00	0.02	0.01
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.00	0.01	0.00	0.00
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.02	0.01	0.00	0.02
S-46	Plastic - PET packaging (excl beverage containers) (P1)	1.37	1.04	0.89	1.28
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.11	0.05	0.09	0.10
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.20	0.02	0.00	0.16
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.02	0.20	0.10	0.05
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.61	0.81	0.96	0.67
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.47	0.65	0.71	0.52
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.00	0.02	0.02	0.01
S-53	Plastic - PVC beverage containers (P3) - CDS	0.00	0.00	0.00	0.00
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.01	0.00	0.00	0.01
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.00	0.00	0.00	0.00
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.03	0.03	0.02	0.03
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.38	0.06	0.24	0.33
S-58	Plastic - LDPE packaging (P4)	0.01	0.05	0.02	0.02
S-59	Plastic - LDPE non-packaging (P4)	1.94	1.44	2.16	1.91
S-60	Plastic - PP packaging (P5)	1.84	1.73	1.67	1.81
S-61	Plastic - PP non-packaging (P5) - cups	0.10	0.11	0.08	0.10
S-62	Plastic - PP non-packaging (P5) - other	0.40	0.09	0.23	0.35
S-63	Plastic - PS packaging (P6)	0.09	0.04	0.10	0.08
S-64	Plastic - EPS packaging containers (P6)	0.03	0.00	0.01	0.02
S-65	Plastic - PS/EPS - straws	0.00	0.00	0.00	0.00
S-66	Plastic - PS/EPS - stirrers	0.00	0.00	0.00	0.00
S-67	Plastic - PS/EPS - cutlery	0.03	0.04	0.06	0.04



Sorting category		MLA	RLA	NLA	Overall
S-68	Plastic - PS/EPS - cups	0.03	0.03	<b>0.01</b>	0.03
S-69	Plastic - PS/EPS - coffee cup lids	0.21	<b>0.30</b>	<b>0.14</b>	0.21
S-70	Plastic - PS/EPS - stemmed cotton buds	0.00	0.00	0.00	0.00
S-71	Plastic - PS - plates/bowls	0.01	<b>0.00</b>	<b>0.02</b>	0.01
S-72	Plastic - EPS - plates / bowls	0.00	0.00	0.00	0.00
S-73	Plastic - other plastic beverage containers (P7) - CDS	0.00	0.00	0.00	0.00
S-74	Plastic - other plastic beverage containers (P7) - NOT CDS	0.00	0.00	0.00	0.00
S-75	Plastic - other plastic packaging (excl. beverage containers) (P7)	0.03	<b>0.00</b>	0.03	0.03
S-76	Plastic - other plastic non-beverage non-packaging (P7)	0.30	<b>0.19</b>	0.27	0.29
S-77	Plastic – film – packaging – single use HDPE bags	<b>0.31</b>	<b>0.17</b>	<b>0.17</b>	0.28
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	<b>0.10</b>	<b>0.01</b>	<b>0.15</b>	0.09
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.03	<b>0.00</b>	<b>0.06</b>	0.03
S-80	Plastic – film – packaging – other	4.03	<b>3.10</b>	4.29	3.97
S-81	Plastic – film – non-packaging	5.77	<b>4.35</b>	5.10	5.54
S-82	Plastic - polystyrene foam (EPS)	0.25	<b>0.03</b>	<b>0.26</b>	0.23
S-83	Plastic - other	<b>1.00</b>	<b>1.65</b>	<b>1.55</b>	1.14
S-84	Glass - containers beverage - CDS	<b>0.90</b>	<b>0.77</b>	<b>2.54</b>	1.09
S-85	Glass - containers beverage-not CDS-wine/champ	0.44	0.50	<b>0.60</b>	0.46
S-86	Glass - containers beverage-not CDS-spirits	0.11	<b>0.09</b>	<b>0.24</b>	0.12
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.00	0.00	0.00	0.00
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.00	0.00	0.00	0.00
S-89	Glass - containers beverage-not CDS-cordial	0.00	0.00	0.00	0.00
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.00	0.00	0.00	0.00
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.00	0.00	0.00	0.00
S-92	Glass - containers beverage-not CDS-other	0.00	0.00	0.00	0.00
S-93	Glass - containers non-beverage	0.56	<b>1.13</b>	<b>0.51</b>	0.61
S-94	Glass - containers (fines)	<b>0.12</b>	<b>0.04</b>	<b>0.02</b>	0.10
S-95	Glass - plate / non-packaging (other glass)	<b>0.11</b>	<b>0.00</b>	<b>0.73</b>	0.17
S-96	Metal (ferrous) - packaging beverage - CDS	<b>0.04</b>	<b>0.09</b>	<b>0.20</b>	0.07
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.00	0.00	0.00	0.00
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	<b>0.07</b>	<b>0.00</b>	<b>0.01</b>	0.06
S-99	Metal (ferrous) - packaging non-beverage	0.85	<b>1.06</b>	0.81	0.86
S-100	Metal (ferrous) - non-packaging	<b>0.30</b>	0.37	<b>0.95</b>	0.38
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.37	<b>0.59</b>	<b>0.29</b>	0.38
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.00	0.00	0.00	0.00
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	<b>0.05</b>	<b>0.00</b>	<b>0.00</b>	0.04
S-104	Metal (non-ferrous) - packaging non-beverage	<b>0.24</b>	<b>0.84</b>	<b>0.41</b>	0.32
S-105	Metal (non-ferrous) - non-packaging	0.24	0.25	<b>0.11</b>	0.23
S-106	Textiles - carpet and underlay	<b>0.06</b>	<b>0.00</b>	<b>0.00</b>	0.04

Sorting category		MLA	RLA	NLA	Overall
S-107	Textiles - mattresses	0.00	0.00	0.00	0.00
S-108	Textiles - cloth/ rags	4.51	<b>3.56</b>	4.67	4.43
S-109	Leather	<b>0.71</b>	<b>0.00</b>	<b>0.01</b>	0.56
S-110	Rubber - tyres, tubes	0.00	0.00	0.00	0.00
S-111	Rubber - other	<b>1.56</b>	<b>0.41</b>	<b>0.91</b>	1.37
S-112	E&E - TVs	<b>0.00</b>	<b>0.28</b>	<b>0.00</b>	0.03
S-113	E&E - computers and peripherals	<b>0.10</b>	<b>0.00</b>	<b>0.00</b>	0.08
S-114	E&E - mobile phones	0.00	0.00	0.00	0.00
S-115	E&E - toner cartridges	<b>0.20</b>	<b>0.00</b>	<b>0.00</b>	0.15
S-116	E&E - whitegoods	0.00	0.00	0.00	0.00
S-117	E&E - photo-voltaic systems - rooftop	0.00	0.00	0.00	0.00
S-118	E&E - photo-voltaic systems - portable	0.00	0.00	0.00	0.00
S-119	E&E - smoke detectors	0.00	0.00	0.00	0.00
S-120	E&E - other (specify in notes)	<b>0.54</b>	<b>0.92</b>	<b>1.93</b>	0.75
S-121	C&D - concrete	0.01	<b>0.06</b>	<b>0.00</b>	0.01
S-122	C&D - bricks	0.00	0.00	0.00	0.00
S-123	C&D - tiles	<b>0.30</b>	<b>0.00</b>	<b>0.87</b>	0.34
S-124	C&D - rock/dirt/soil	<b>0.18</b>	<b>0.15</b>	<b>0.78</b>	0.25
S-125	C&D - asphalt	0.00	0.00	0.00	0.00
S-126	C&D - plasterboard	<b>0.04</b>	<b>0.00</b>	<b>0.00</b>	0.03
S-127	Asbestos	0.00	0.00	0.00	0.00
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.00	0.00	0.00	0.00
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.00	0.00	0.00	0.00
S-130	Hazardous / special - batteries - other	<b>0.02</b>	<b>0.05</b>	<b>0.06</b>	0.03
S-131	Hazardous / special - gas bottles	<b>0.05</b>	<b>0.00</b>	<b>0.00</b>	0.04
S-132	Hazardous / special - fire extinguishers	0.00	0.00	0.00	0.00
S-133	Hazardous / special - fluorescent lamps (lights)	0.00	0.00	0.00	0.00
S-134	Hazardous / special - chemicals	<b>0.37</b>	0.32	<b>0.03</b>	0.32
S-135	Hazardous / special - paint	0.08	<b>0.00</b>	<b>0.13</b>	0.08
S-136	Hazardous / special - oil (empty)	<b>0.04</b>	<b>0.00</b>	<b>0.00</b>	0.03
S-137	Hazardous / special - oil (with contents)	<b>0.17</b>	<b>0.00</b>	<b>0.00</b>	0.13
S-138	Hazardous / special - pharmaceutical	0.06	<b>0.03</b>	0.06	0.06
S-139	Hazardous / special - personal care with microbeads	<b>0.09</b>	<b>0.00</b>	<b>0.30</b>	0.11
S-140	Hazardous / special - clinical - sharps	<b>0.12</b>	<b>0.03</b>	<b>0.01</b>	0.10
S-141	Hazardous / special - clinical - other	<b>1.42</b>	<b>3.26</b>	<b>5.23</b>	2.07
S-142	Fines (<10mm) not able to be categorised	0.00	0.00	0.00	0.00
S-143	Liquid paperboard (cardboard) - CDS	0.16	<b>0.19</b>	<b>0.13</b>	0.16
S-144	Liquid paperboard (cardboard) - NOT CDS	0.42	0.47	<b>0.59</b>	0.45
S-145	Liquid paperboard (cardboard) - other packaging	<b>0.46</b>	<b>0.24</b>	<b>0.17</b>	0.40

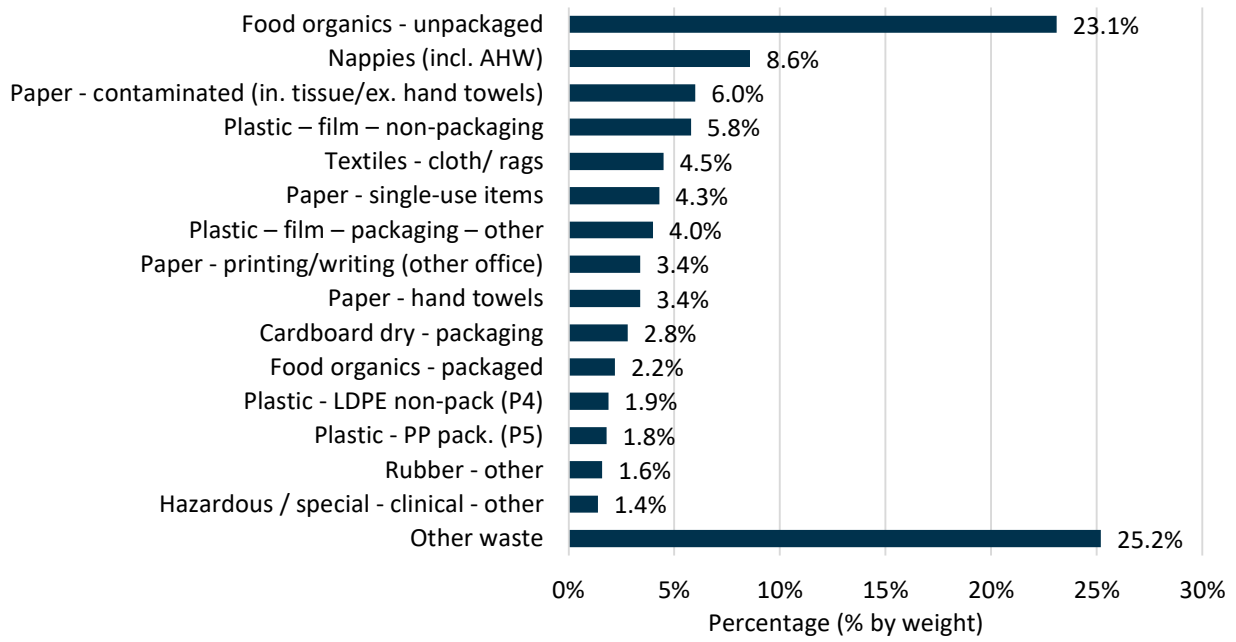
Sorting category		MLA	RLA	NLA	Overall
S-146	Nappies (incl. AHW)	8.60	13.43	9.30	9.18
S-147	Insulation	0.62	0.00	0.00	0.48
S-148	Other (specify in notes)	0.25	0.37	0.43	0.29
<b>Total</b>		<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

Table 7 shows the top 15 materials in garbage bags by region and Figures 3 to 6 show the data graphically. The data shows unpackaged food organics and nappies are the top 2 materials in all areas, with more contaminated paper in MLA and RLA, while there was more other clinical material in NLA.

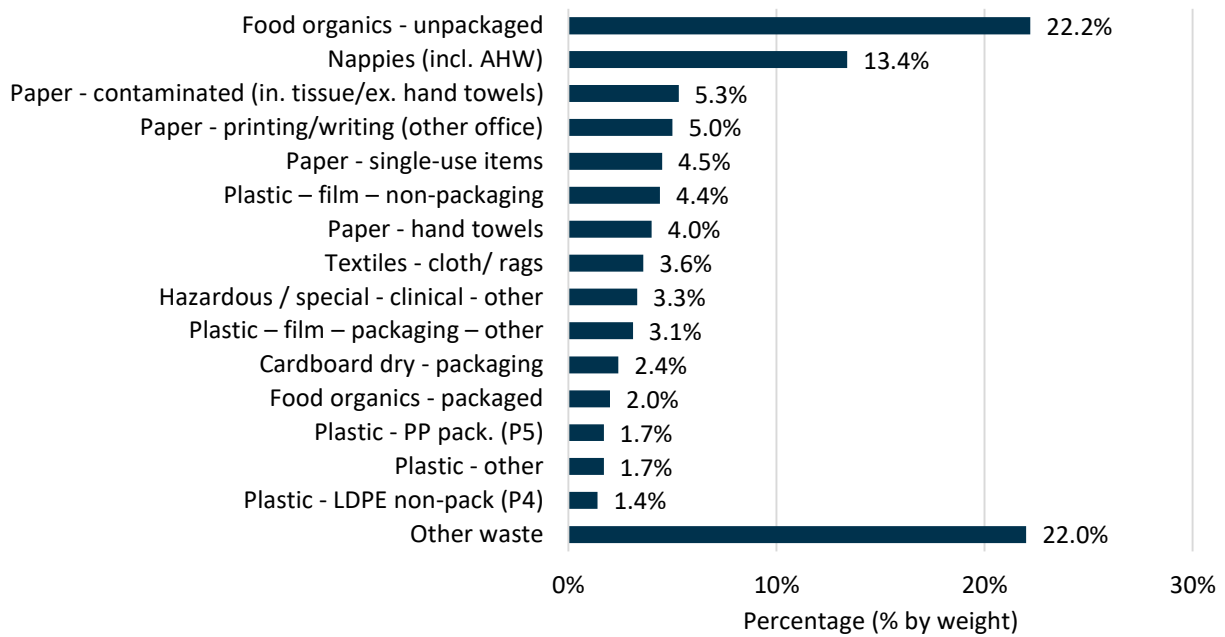
**Table 7 Top fifteen materials in garbage bags – by region, percentage by weight**

Rank	MLA	RLA	NLA	Overall
1	Food organics - unpackaged 23.1	Food organics - unpackaged 22.2	Food organics - unpackaged 18.2	Food organics - unpackaged 22.4
2	Nappies (incl. AHW) 8.6	Nappies (incl. AHW) 13.4	Nappies (incl. AHW) 9.3	Nappies (incl. AHW) 9.2
3	Paper - contaminated (in. tissue/ex. hand towels) 6.0	Paper - contaminated (in. tissue/ex. hand towels) 5.3	Hazardous / special - clinical - other 5.2	Plastic – film – non-packaging 5.5
4	Plastic – film – non-packaging 5.8	Paper - printing/writing (other office) 5.0	Plastic – film – non-packaging 5.1	Paper - contaminated (in. tissue/ex. hand towels) 5.5
5	Textiles - cloth/ rags 4.5	Paper - single-use items 4.5	Textiles - cloth/ rags 4.7	Textiles - cloth/ rags 4.4
6	Paper - single-use items 4.3	Plastic – film – non-packaging 4.4	Plastic – film – packaging – other 4.3	Paper - single-use items 4.3
7	Plastic – film – packaging – other 4.0	Paper - hand towels 4.0	Paper - single-use items 4.2	Plastic – film – packaging – other 4.0
8	Paper - printing/writing (other office) 3.4	Textiles - cloth/ rags 3.6	Cardboard dry - packaging 3.7	Paper - printing/writing (other office) 3.5
9	Paper - hand towels 3.4	Hazardous / special - clinical - other 3.3	Paper - hand towels 3.3	Paper - hand towels 3.5
10	Cardboard dry - packaging 2.8	Plastic – film – packaging – other 3.1	Food organics - packaged 3.0	Cardboard dry - packaging 2.9
11	Food organics - packaged 2.2	Cardboard dry - packaging 2.4	Paper - printing/writing (other office) 2.7	Food organics - packaged 2.3
12	Plastic - LDPE non-packaging (P4) 1.9	Food organics - packaged 2.0	Glass - containers beverage - CDS 2.5	Hazardous / special - clinical - other 2.1
13	Plastic - PP packaging (P5) 1.8	Plastic - PP packaging (P5) 1.7	Paper - contaminated (in. tissue/ex. hand towels) 2.5	Plastic - LDPE non-packaging (P4) 1.9
14	Rubber - other 1.6	Plastic - other 1.7	Plastic - LDPE non-packaging (P4) 2.2	Plastic - PP packaging (P5) 1.8
15	Hazardous / special - clinical - other 1.4	Plastic - LDPE non-packaging (P4) 1.4	Paper - books 2.1	Food organics - other liquid 1.4
-	Other waste 25.2	Other waste 22.0	Other waste 27.0	Other waste 25.3
-	<b>Total 100.0</b>	<b>Total 100.0</b>	<b>Total 100.0</b>	<b>Total 100.0</b>

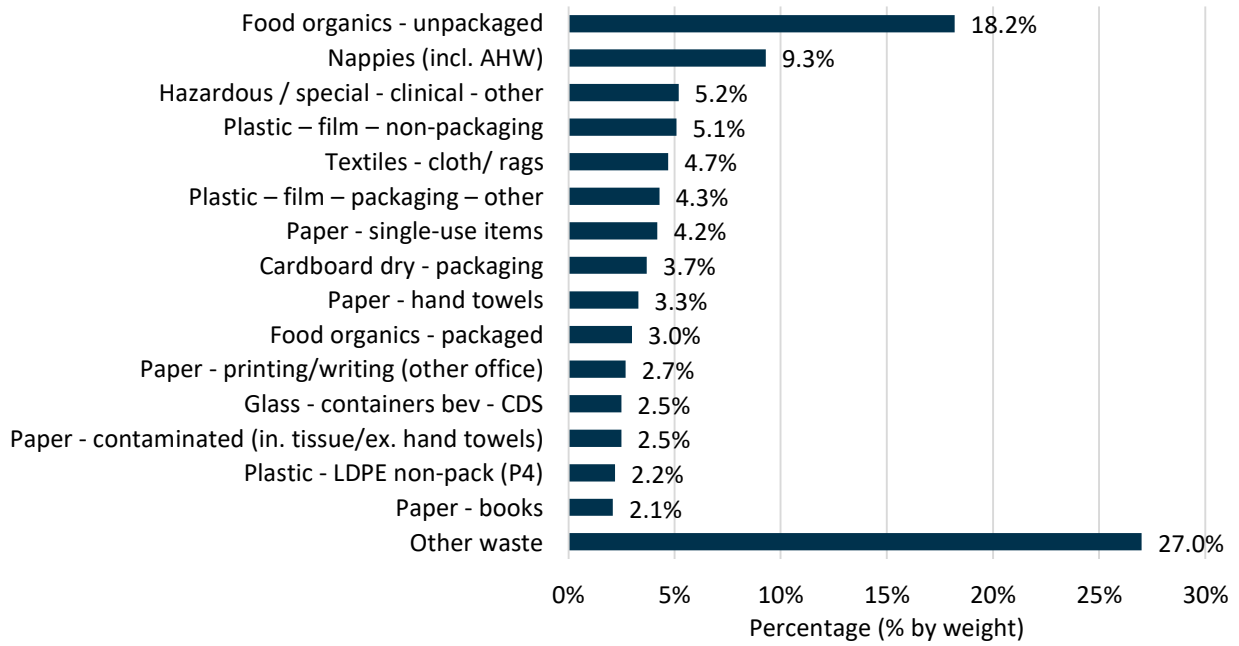
**Figure 3 Top 15 materials in garbage bags – MLA**



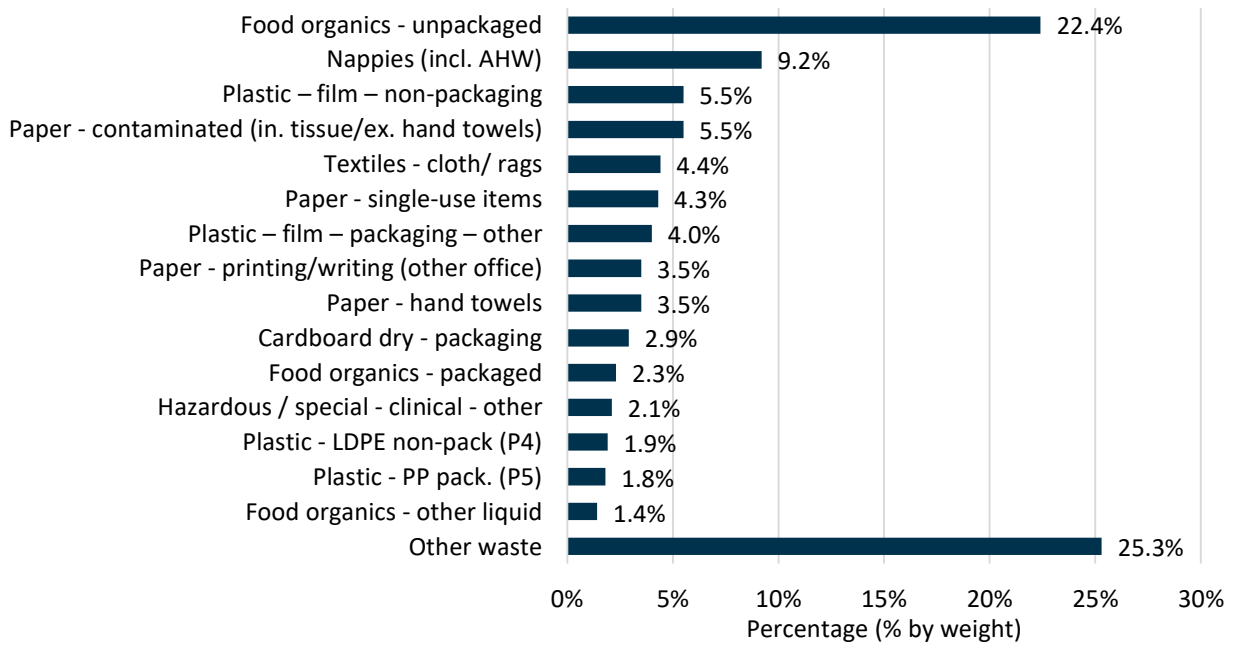
**Figure 4 Top 15 materials in garbage bags – RLA**



**Figure 5 Top 15 materials in garbage bags – NLA**



**Figure 6 Top 15 materials in garbage bags – overall**



## 4.2. Composition using visual audit categories

### 4.2.1. Consolidated composition

Table 8 shows the data as 12 consolidated categories rather than 148 detail sorting categories. These 12 categories are the same as used in the non-garbage bag visual audits of C&I waste (see main report).

The results show:

- Organics occupied most of the garbage bag contents in all regions, with a higher percentage in MLA and RLA at 28.5% and 27.1% respectively.
- Paper and cardboard is the second highest material in bags in all regions, with a higher percentage in RLA and MLA at 27.3% and 26.4% respectively.
- Plastics is the third highest material in bags in all regions, with a higher percentage in MLA and NLA at 20.6% and 20.3% respectively.
- Followed by nappies in all regions, with a higher percentage in RLA and NLA at 13.4% and 9.3% respectively.
- Textiles and leather are also high in all regions, with a higher percentage in MLA and NLA at 5.3% and 4.7% respectively.

**Table 8 Consolidated composition – visual audit categories – by region, percentage by weight**

Consolidated visual category	MLA	RLA	NLA	Overall
Paper and cardboard	26.37	27.33	23.09	26.05
Plastics	20.62	17.02	20.25	20.22
Glass	2.24	2.53	4.64	2.55
Metal	2.16	3.20	2.78	2.34
Organics	28.51	27.05	24.52	27.88
Textiles and leather	5.28	3.56	4.68	5.03
Rubber	1.56	0.41	0.91	1.37
Electrical and electronic	0.86	1.25	1.99	1.04
Aggregates, masonry and soils	0.53	0.21	1.65	0.63
Hazardous	2.40	3.64	5.76	2.94
Nappies	8.60	13.43	9.30	9.18
Other	0.87	0.37	0.43	0.77
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

## 4.2.2. Detailed composition

Table 9 provides the detailed composition of each material category by percentage using the 50 material categories used in the visual audit. The total percentage is calculated based on the sum of the tonnes for each of MLA, RLA and NLA.

**Table 9 Detailed composition – 50 visual audit categories – by region, percentage by weight**

Consolidated visual category		MLA	RLA	NLA	Overall
V-1	A, M & soils – concrete, bricks & asphalt	0.01	0.06	0.00	0.01
V-2	A, M & soils – plasterboard	0.04	0.00	0.00	0.03
V-3	A, M & soils – soil, clay & rubble	0.18	0.15	0.78	0.25
V-4	A, M & soils – other	0.30	0.00	0.87	0.34
V-5	E&E – batteries	0.02	0.05	0.06	0.03
V-6	E&E – computers and peripherals	0.10	0.00	0.00	0.08
V-7	E&E – TVs	0.00	0.28	0.00	0.03
V-8	E&E – whitegoods	0.00	0.00	0.00	0.00
V-9	E&E – photovoltaic systems	0.00	0.00	0.00	0.00
V-10	E&E – other	0.74	0.92	1.93	0.90
V-11	Glass – non-packaging	0.11	0.00	0.73	0.17
V-12	Glass – packaging	2.13	2.53	3.91	2.38
V-13	Metal – ferrous – non-packaging	0.30	0.37	0.95	0.38
V-14	Metal – ferrous – packaging	0.96	1.15	1.02	0.99
V-15	Metal – aluminium – non-packaging	0.24	0.25	0.11	0.23
V-16	Metal – aluminium – packaging	0.66	1.43	0.70	0.74
V-17	Food organics – unpackaged	23.11	22.24	18.20	22.42
V-18	Food organics – packaged	2.16	2.00	2.96	2.25
V-19	Food organics – liquid	1.29	1.36	2.08	1.39
V-20	Garden organics	1.33	1.08	0.87	1.25
V-21	Sawdust	0.00	0.01	0.00	0.00
V-22	Wood – treated/painted	0.13	0.07	0.01	0.10
V-23	Wood – MDF & chipboard	0.06	0.05	0.00	0.06
V-24	Wood – treated – furniture	0.04	0.00	0.17	0.06
V-25	Wood – treated – pallets	0.00	0.01	0.00	0.00
V-26	Wood – untreated ^	0.37	0.22	0.23	0.34
V-27	Wood – untreated – furniture	0.02	0.01	0.00	0.01
V-28	Wood – untreated – pallets	0.00	0.00	0.00	0.00
V-29	Cardboard – dry	3.03	2.67	4.05	3.12
V-30	Cardboard – wet	0.90	0.23	0.15	0.74
V-31	Cardboard – wet strength/waxed	3.21	3.31	2.09	3.08
V-32	Paper – recoverable	8.94	11.02	9.88	9.26
V-33	Paper – non-recoverable	9.38	9.34	5.77	8.93
V-34	Paper – packaging	0.91	0.76	1.15	0.92
V-35	Plastic – EPS foam	0.25	0.03	0.26	0.23



Consolidated visual category		MLA	RLA	NLA	Overall
V-36	Plastic – film packaging	4.47	3.28	4.67	4.37
V-37	Plastic – other	10.48	8.35	9.97	10.22
V-38	Plastic – rigid packaging	5.42	5.36	5.35	5.40
V-39	Rubber – other	1.56	0.41	0.91	1.37
V-40	Rubber – tyres	0.00	0.00	0.00	0.00
V-41	Leather	0.71	0.00	0.01	0.56
V-42	Textiles – cloth & rags	4.51	3.56	4.67	4.43
V-43	Textiles – carpet & underlay	0.06	0.00	0.00	0.04
V-44	Textiles – covered furniture	0.00	0.00	0.00	0.00
V-45	Textiles – mattresses	0.00	0.00	0.00	0.00
V-46	Asbestos	0.00	0.00	0.00	0.00
V-47	Insulation	0.62	0.00	0.00	0.48
V-48	Hazardous – Chemicals/other hazardous	0.71	0.32	0.16	0.60
V-49	Hazardous – Clinical	1.69	3.32	5.60	2.34
V-50	Other waste	8.85	13.80	9.73	9.47
<b>Total</b>		<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

## 4.3. Recoverability of materials in garbage bags

Table 10 provides the consolidated composition for the recoverability of materials in garbage bags by region. Figure 7 provides a chart of the results. Recoverability of materials is based on Table 3. The data shows that:

- Approximately 51.4% of garbage bag contents is recoverable now. It was higher in NLA and RLA at 52.3% and 52.2% respectively and lower in MLA at 51.2%.
- Approximately 36.2% of garbage bag contents could be recovered in the future. It was higher in MLA and NLA at 36.5% and 35.6% and lower in RLA at 34.4%.
- Approximately 12.3% of material cannot be recovered. It was higher in RLA at 13.4% and lower in NLA and MLA at 12.0% and 12.2%.

**Table 10 Recoverability consolidated composition – by region, percentage by weight**

Recoverability	MLA	RLA	NLA	Overall
Recoverable now	51.24	52.19	52.33	51.44
Recoverable in the future	36.54	34.41	35.64	36.23
Not recoverable	12.22	13.40	12.03	12.33
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

**Figure 7 Recoverability consolidated composition – by region, percentage by weight**

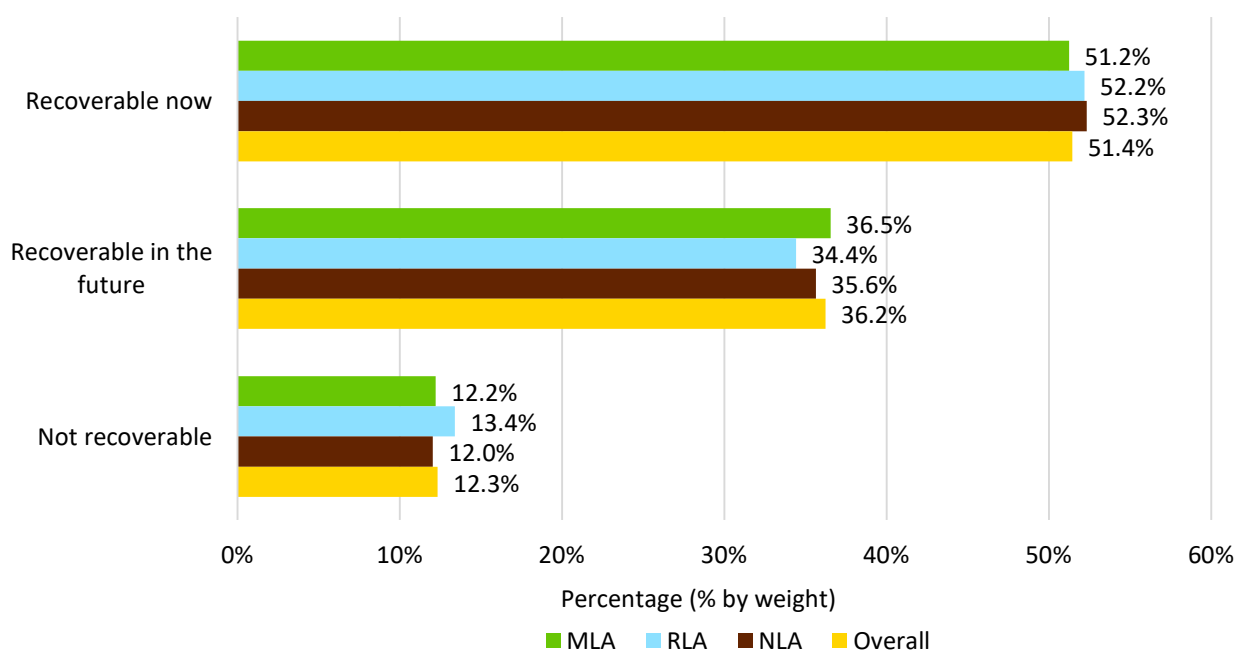


Table 11 provides the detailed composition for the recoverability of materials in garbage bags by region. The data shows that overall:

- Most material recoverable now is organic compostable food, recycling commingled, organic compostable wood and electrical and electronic respectively.
- Most material recoverable in the future is plastic film, nappies, textiles other, plastic other, cardboard other, organic other, rubber and liquid paperboard respectively.

**Table 11 Recoverability detailed composition – by region, percentage by weight**

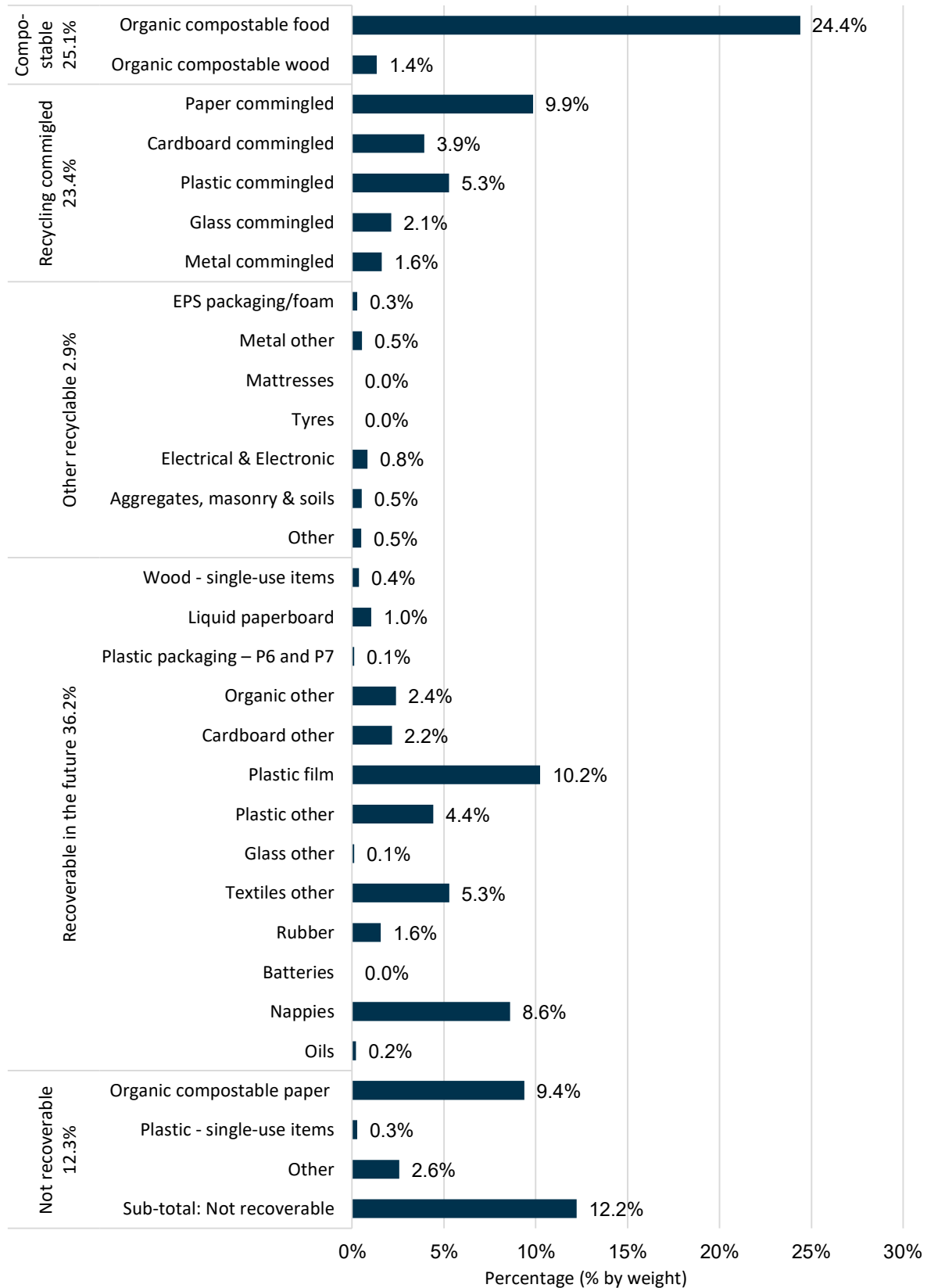
Recoverability category detail	MLA	RLA	NLA	Overall
Organic compostable food	24.40	23.60	20.28	23.81
Organic compostable wood	1.35	1.10	0.91	1.27
Paper commingled	9.85	11.78	11.03	10.18
Cardboard commingled	3.93	2.90	4.20	3.86
Plastic commingled	5.27	5.32	5.21	5.27
Glass commingled	2.13	2.53	3.91	2.38
Metal commingled	1.62	2.58	1.72	1.73
EPS packaging/foam	0.28	0.03	0.27	0.25
Metal other	0.54	0.62	1.06	0.61
Mattresses	0.00	0.00	0.00	0.00
Tyres	0.00	0.00	0.00	0.00
Electrical & Electronic	0.84	1.20	1.93	1.01
Aggregates, masonry & soils	0.53	0.21	1.65	0.63
Other ^	0.50	0.32	0.16	0.44
<b>Sub-total: Recoverable now</b>	<b>51.24</b>	<b>52.19</b>	<b>52.33</b>	<b>51.44</b>
Wood – single-use items	0.37	0.22	0.19	0.33
Liquid paperboard	1.04	0.90	0.89	1.01
Plastic packaging – P6 and P7	0.12	0.04	0.13	0.11
Organic other	2.39	2.13	3.14	2.47
Cardboard other	2.17	2.41	1.20	2.07
Plastic film	10.24	7.63	9.77	9.91
Plastic other	4.43	3.63	4.64	4.39
Glass other	0.11	0.00	0.73	0.17
Textiles other	5.28	3.56	4.68	5.03
Rubber	1.56	0.41	0.91	1.37
Batteries	0.02	0.05	0.06	0.03
Nappies	8.60	13.43	9.30	9.18
Oils	0.21	0.00	0.00	0.16
<b>Sub-total: Recoverable in the future</b>	<b>36.54</b>	<b>34.41</b>	<b>35.64</b>	<b>36.23</b>
Organic compostable paper	9.38	9.34	5.77	8.93
Plastic single-use items	0.28	0.37	0.23	0.29
Other	2.56	3.69	6.03	3.11
<b>Sub-total: Not recoverable</b>	<b>12.22</b>	<b>13.40</b>	<b>12.03</b>	<b>12.33</b>
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

The trends vary by region in the following ways in MLA:

- Material recoverable now had more organic compostable food and wood, cardboard commingled and other (i.e., gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint).
- Material recoverable in the future had more single-use wood items, liquid paperboard, plastic film, textiles other and rubber.

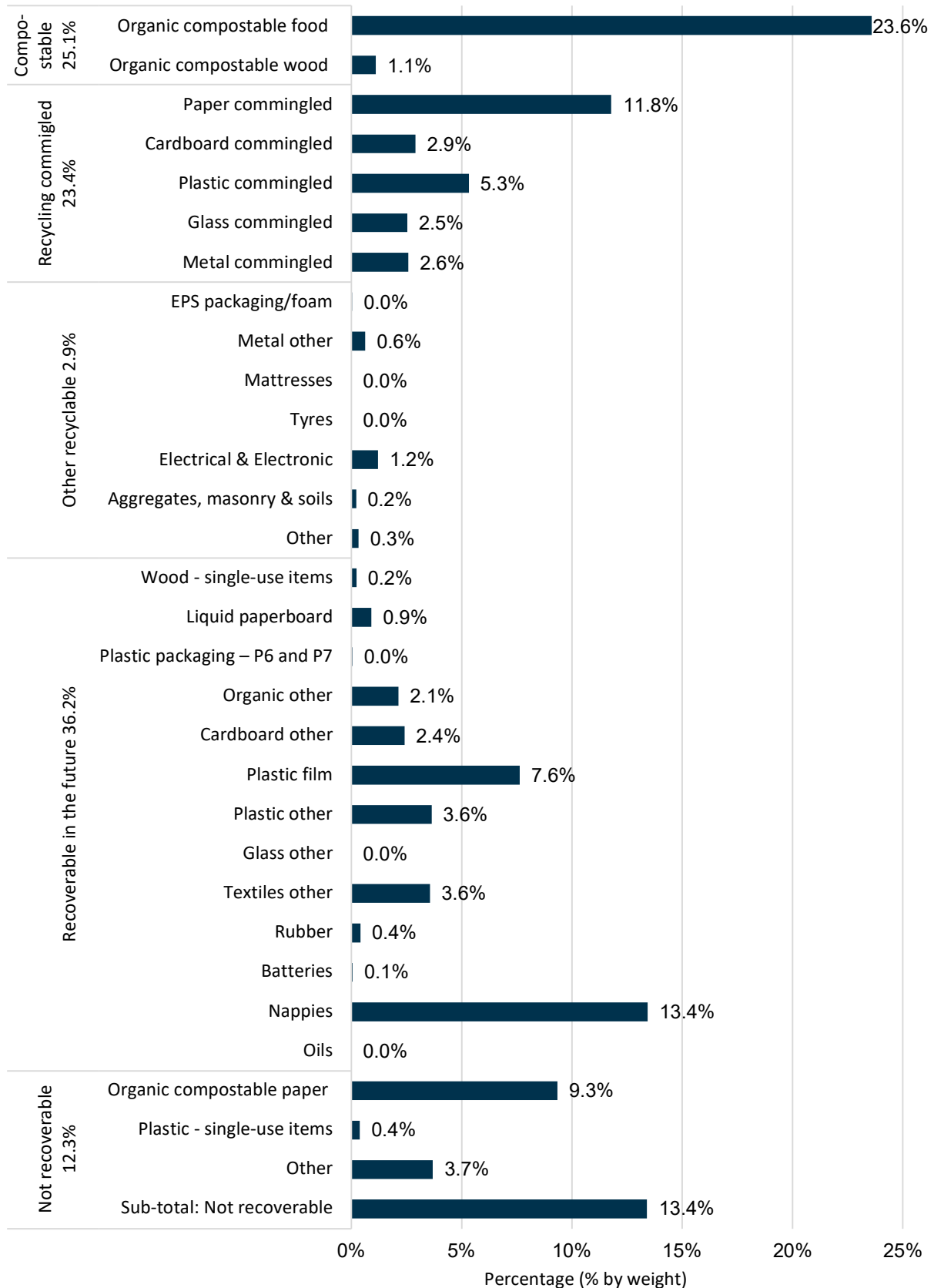
**Figure 8 Recoverability detailed composition – MLA**



The trends vary by region in the following ways in RLA:

- Material recoverable now had more paper, plastic, glass and metal commingled and electrical and electronic.
- Material recoverable in the future had more cardboard other and nappies.

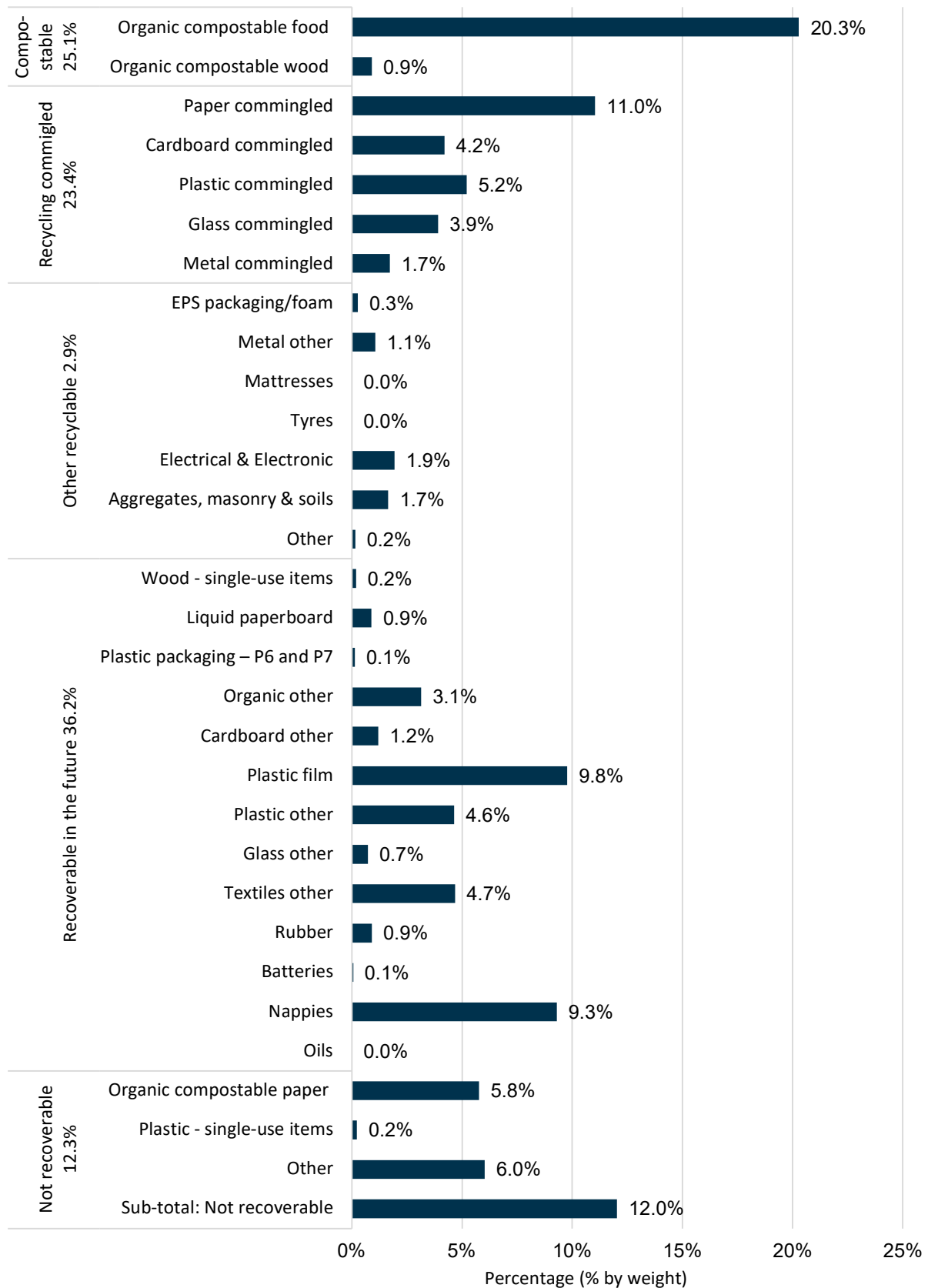
**Figure 9 Recoverability detailed composition – RLA**



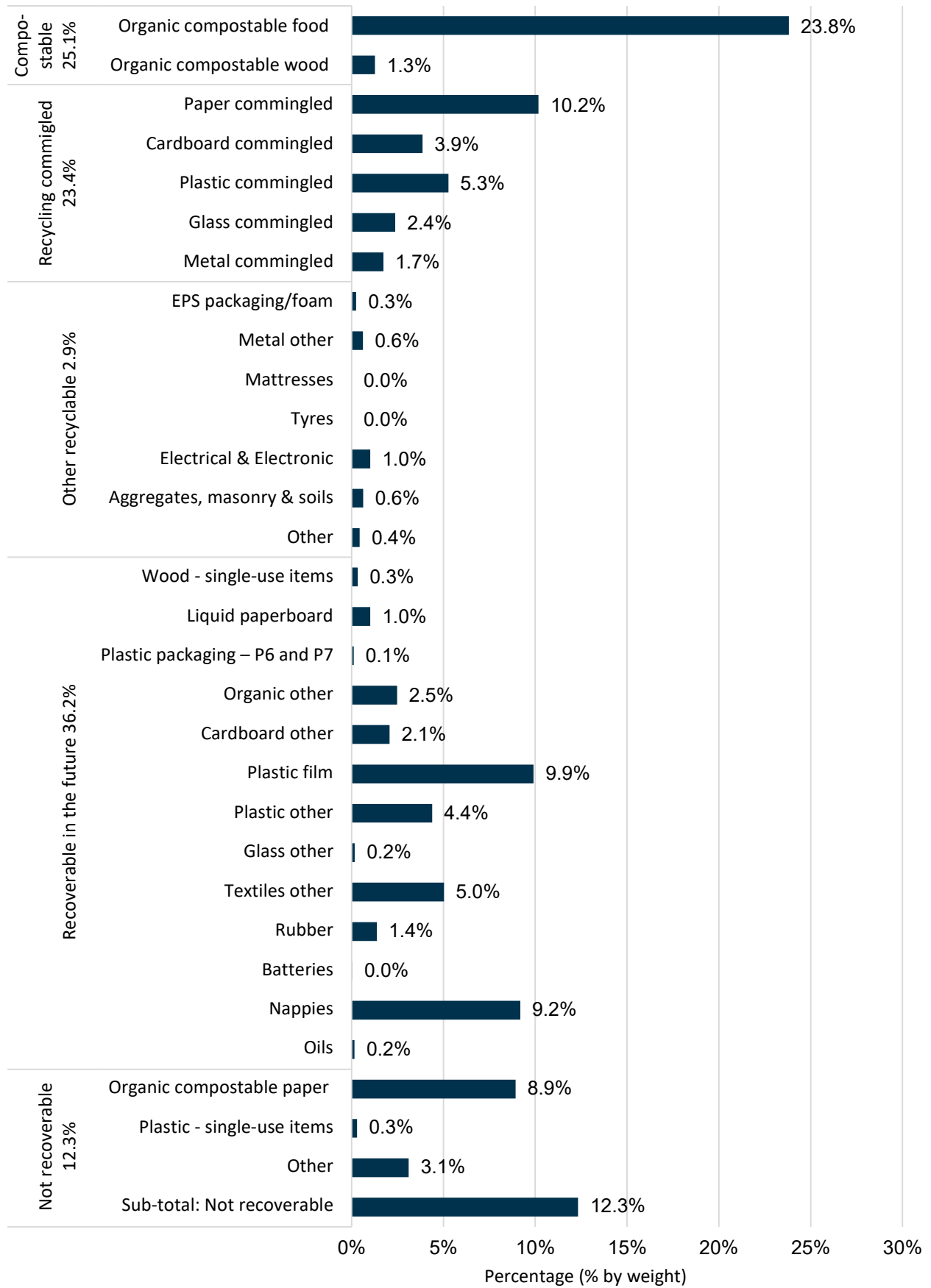
The trends vary by region in the following ways in NLA:

- Material recoverable now had more paper, cardboard and glass commingled, metal other, electrical and electronic and masonry.
- Material recoverable in the future had more other organics, plastic and glass and nappies.

**Figure 10 Recoverability detailed composition – NLA**



**Figure 11 Recoverability detailed composition – overall**



## 4.4. Focus material categories

This section provides data for the focus material categories, such as degradable organic content (DOC), packaging material, food organics, textiles and leather, CDS eligible beverage containers, other beverage containers and single-use items.

### 4.4.1. Degradable organic content (DOC)

Table 12 provides the DOC by region. DOC comprises of food, garden organics, wood, cardboard, paper, textiles, leather and nappies, based on the categories shown in Table 3. Figure 12 shows the data graphically.

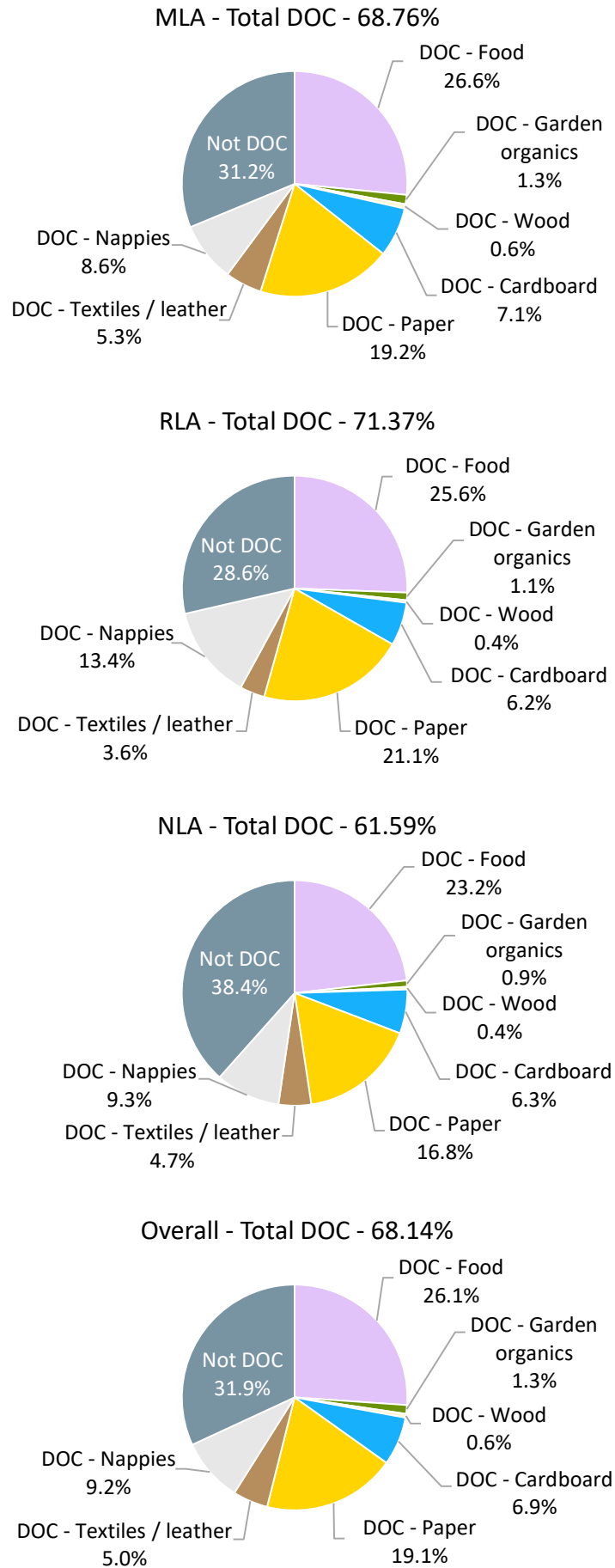
The data shows that approximately 68.1% of garbage bag contents is DOC. This ranges from 61.6% in NLA to 71.4% in RLA (with MLA being similar at 68.8%).

**Table 12 Focus material – DOC – by region, percentage by weight**

DOC type	MLA	RLA	NLA	Overall
DOC – food	26.56	25.60	23.24	26.06
DOC – garden organics	1.33	1.08	0.87	1.25
DOC – wood	0.62	0.37	0.41	0.57
DOC – cardboard	7.14	6.21	6.29	6.94
DOC – paper	19.23	21.12	16.80	19.11
DOC – textiles and leather	5.28	3.56	4.68	5.03
DOC – nappies	8.60	13.43	9.30	9.18
<b>Sub-total – DOC</b>	<b>68.76</b>	<b>71.37</b>	<b>61.59</b>	<b>68.14</b>
Other waste	31.24	28.63	38.41	31.86
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>



Figure 12 Focus material – DOC – by region



## 4.4.2. Packaging material

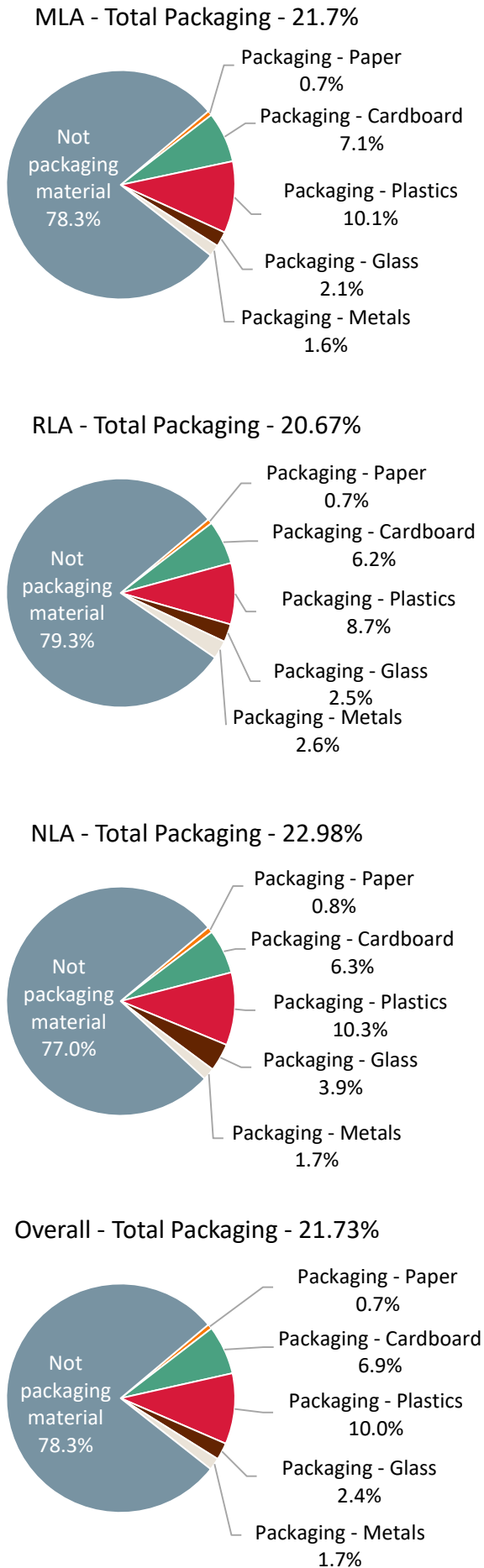
Table 13 provides the packaging material by region. Packaging material comprises of the categories shown in Table 3. Figure 13 shows the data graphically.

The data shows that packaging material ranges 21-23% of garbage bag contents by region. It ranges from 20.7% in RLA to 23.0% in NLA, with MLA being in the middle at 21.7%.

**Table 13 Focus material – packaging material – by region, percentage by weight**

Packaging type	MLA	RLA	NLA	Overall
Packaging – paper	0.67	0.68	0.78	0.68
Packaging – cardboard	7.14	6.21	6.29	6.94
Packaging – plastics	10.14	8.67	10.28	10.00
Packaging – glass	2.13	2.53	3.91	2.38
Packaging – metals	1.62	2.58	1.72	1.73
<b>Sub-total – packaging material</b>	<b>21.70</b>	<b>20.67</b>	<b>22.98</b>	<b>21.73</b>
Other waste	78.30	79.33	77.02	78.27
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

**Figure 13 Focus material – packaging material – by region**



### 4.4.3. Food organics

Table 14 provides the data of food organics content by region. Food organics comprises of the categories shown in Table 3. These categories include food organics (unpackaged), food organics (packaged), food organics (oil) and food organics (other liquid). Food organics – oil and other liquid are classed as food organics – liquid. Figure 14 shows the data graphically.

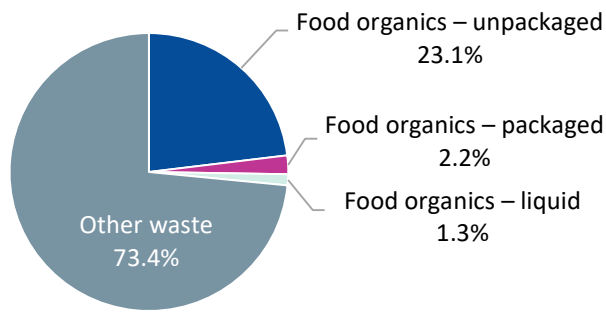
The data shows that approximately 23-27% of garbage bag contents is food organics. It ranges from 23.2% in NLA to 26.6% in MLA (with RLA being similar at 25.6%). Of the food organics, 22.4% is loose food, 2.3% is packaged food and 1.4% is liquid which is usually contained in a container.

**Table 14 Focus material – food organics – by region, percentage by weight**

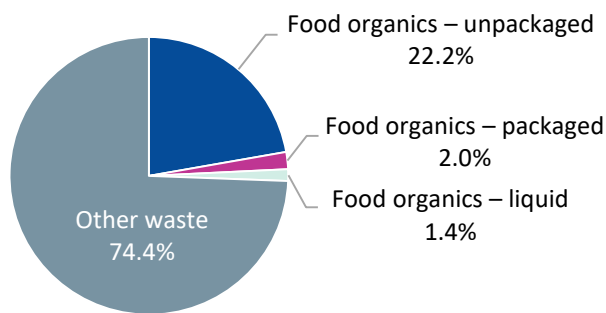
Food organics type	MLA	RLA	NLA	Overall
Food organics – unpackaged	23.11	22.24	18.20	22.42
Food organics – packaged	2.16	2.00	2.96	2.25
Food organics – liquid	1.29	1.36	2.08	1.39
<b>Sub-total – food organics</b>	<b>26.56</b>	<b>25.60</b>	<b>23.24</b>	<b>26.06</b>
Other waste	73.44	74.40	76.76	73.94
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Figure 14 Focus material – food organics – by region

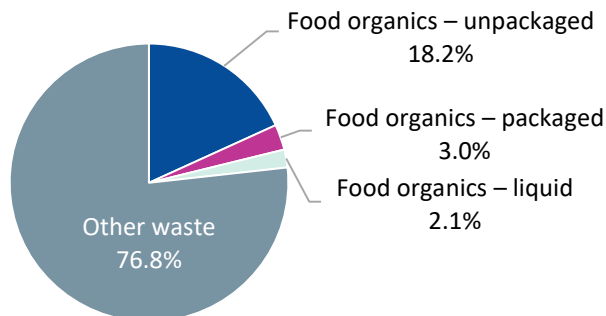
MLA - Total Food organics - 26.56%



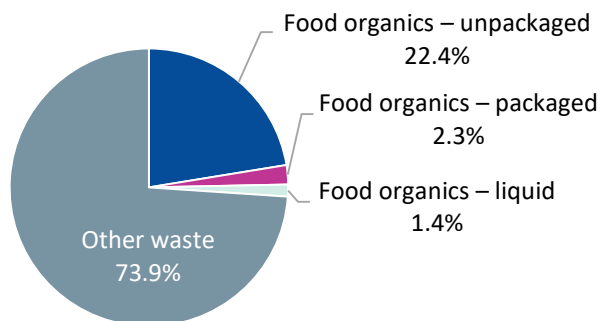
RLA - Total Food organics - 25.6%



NLA - Total Food organics - 23.24%



Overall - Total Food organics - 26.06%



#### 4.4.4. Textiles and leather

Tables 15 and 16 provide the textiles and leather sub-sort categories as a percentage of garbage bags and textile and leather by region. Figure 15 shows the data graphically by region. The data shows:

- MLA had a higher percentage of textiles and leather in garbage bags at 5.2%. Of this material 86.5% is textiles, with 33.4% mixed fibres textiles, 30.2% synthetic fibres textiles and 22.9% natural fibres textiles.
- No leather was audited in RLA and leather was only 0.3% of textiles / leather in NLA.
- RLA had a relatively even allocation of the three types of textiles whereas NLA and a higher percentage of natural fibres textiles at 41.8% of textiles / leather.

**Table 15 Textiles / leather – by region, percentage by weight of all contents in garbage bags**

Textiles / leather type			MLA	RLA	NLA	Overall
Natural fibres	Textiles	Nappies - cloth	0.00	0.00	0.01	0.00
Natural fibres	Textiles	Clothing - wearable	0.60	0.95	0.25	0.59
Natural fibres	Textiles	Clothing - unwearable	0.10	0.00	0.19	0.10
Natural fibres	Textiles	Shoes - wearable	0.00	0.00	0.08	0.01
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.17	0.00	1.16	0.28
Natural fibres	Textiles	Towels	0.14	0.00	0.26	0.14
Natural fibres	Textiles	Tableware	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Pillows	0.06	0.00	0.00	0.05
Natural fibres	Textiles	Dooners	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.05	0.02	0.00	0.04
Natural fibres	Textiles	Soft toys	0.01	0.00	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Other	0.07	0.00	0.00	0.05
<b>Sub-total: Textiles</b>			<b>1.20</b>	<b>0.97</b>	<b>1.95</b>	<b>1.26</b>
Natural fibres	Leather	Clothing – wearable	0.01	0.00	0.00	0.01
Natural fibres	Leather	Clothing – unwearable	0.01	0.00	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.03	0.00	0.00	0.03
Natural fibres	Leather	Shoes - unwearable	0.00	0.00	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00	0.00	0.00
Natural fibres	Leather	Other	0.01	0.00	0.00	0.01
<b>Sub-total: Leather</b>			<b>0.06</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>
<b>Sub-total: Natural fibres</b>			<b>1.26</b>	<b>0.97</b>	<b>1.95</b>	<b>1.31</b>
Synthetic fibres	Textiles	Nappies - cloth	0.02	0.00	0.03	0.02
Synthetic fibres	Textiles	Clothing - wearable	0.14	0.00	0.01	0.10
Synthetic fibres	Textiles	Clothing - unwearable	0.31	0.16	0.14	0.28

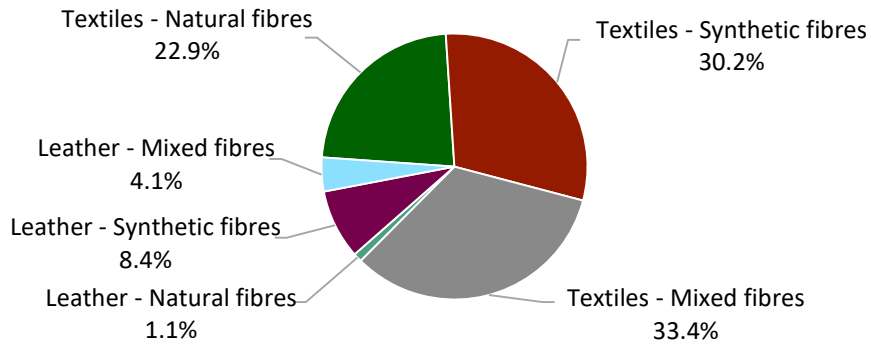
Textiles / leather type			MLA	RLA	NLA	Overall
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00	0.06	0.01
Synthetic fibres	Textiles	Shoes - unwearable	0.01	0.00	0.00	0.01
Synthetic fibres	Textiles	Bedding (Manchester)	0.02	0.00	0.00	0.02
Synthetic fibres	Textiles	Towels	0.02	0.00	0.00	0.02
Synthetic fibres	Textiles	Tableware	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.01	0.00	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.51	0.92	0.33	0.53
Synthetic fibres	Textiles	Soft toys	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Other	0.53	0.28	0.46	0.50
<b>Sub-total: Textiles</b>			<b>1.57</b>	<b>1.36</b>	<b>1.03</b>	<b>1.49</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.25	0.00	0.00	0.20
Synthetic fibres	Leather	Shoes - wearable	0.17	0.00	0.00	0.13
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00	0.00	0.00
Synthetic fibres	Leather	Other	0.02	0.00	0.00	0.01
<b>Sub-total: Leather</b>			<b>0.44</b>	<b>0.00</b>	<b>0.00</b>	<b>0.34</b>
<b>Sub-total: Synthetic fibres</b>			<b>2.01</b>	<b>1.36</b>	<b>1.03</b>	<b>1.83</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.52	0.20	0.25	0.46
Mixed fibres	Textiles	Clothing - unwearable	0.46	0.39	0.25	0.42
Mixed fibres	Textiles	Shoes - wearable	0.07	0.10	0.00	0.06
Mixed fibres	Textiles	Shoes - unwearable	0.01	0.00	0.00	0.01
Mixed fibres	Textiles	Bedding (Manchester)	0.26	0.12	0.27	0.24
Mixed fibres	Textiles	Towels	0.06	0.15	0.10	0.07
Mixed fibres	Textiles	Tableware	0.01	0.00	0.00	0.01
Mixed fibres	Textiles	Pillows	0.00	0.00	0.00	0.00
Mixed fibres	Textiles	Dooners	0.02	0.00	0.00	0.02
Mixed fibres	Textiles	Curtains	0.00	0.00	0.12	0.02
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.08	0.09	0.17	0.09
Mixed fibres	Textiles	Soft toys	0.06	0.00	0.00	0.05
Mixed fibres	Textiles	Cushions	0.05	0.00	0.00	0.04
Mixed fibres	Textiles	Covered furniture	0.00	0.00	0.00	0.00
Mixed fibres	Textiles	Other	0.14	0.18	0.53	0.19

Textiles / leather type			MLA	RLA	NLA	Overall
<b>Sub-total: Textiles</b>			<b>1.74</b>	<b>1.23</b>	<b>1.69</b>	<b>1.68</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00	0.01	0.00
Mixed fibres	Leather	Clothing – unwearable	0.01	0.00	0.00	0.01
Mixed fibres	Leather	Shoes - wearable	0.00	0.00	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.17	0.00	0.00	0.13
Mixed fibres	Leather	Tableware	0.02	0.00	0.00	0.02
Mixed fibres	Leather	Cushions	0.00	0.00	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00	0.00	0.00
Mixed fibres	Leather	Other	0.01	0.00	0.00	0.01
<b>Sub-total: Leather</b>			<b>0.21</b>	<b>0.00</b>	<b>0.01</b>	<b>0.17</b>
<b>Sub-total: Mixed fibres</b>			<b>1.95</b>	<b>1.23</b>	<b>1.70</b>	<b>1.85</b>
<b>Total</b>			<b>5.22</b>	<b>3.56</b>	<b>4.68</b>	<b>4.99</b>

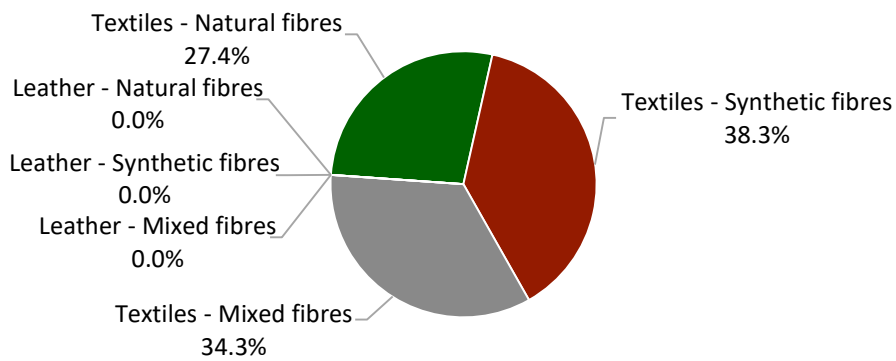


Figure 15 Textiles / leather – by region

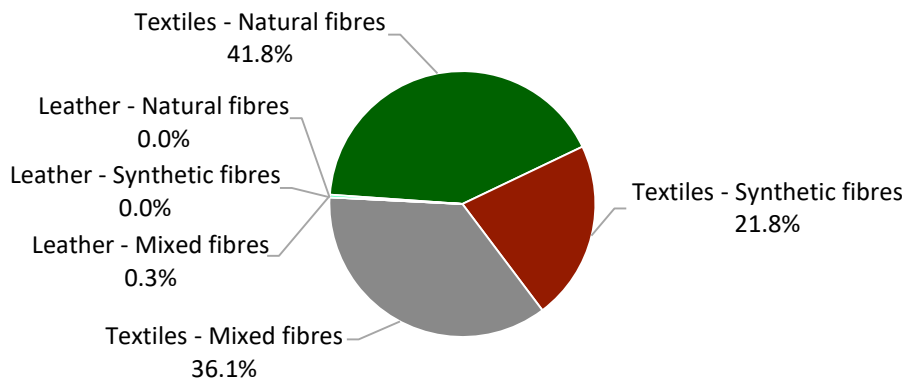
MLA - Textiles / leather - 5.2% of all contents



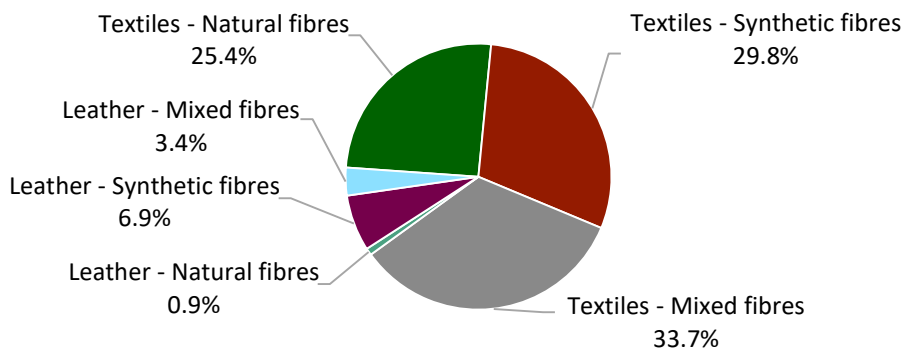
RLA - Textiles / leather - 3.6% of all contents



NLA - Textiles / leather - 4.7% of all contents



Overall - Textiles / leather - 5% of all contents



**Table 16 Textiles / leather – by region, percentage by weight of textiles / leather**

Textiles / leather type			MLA	RLA	NLA	Overall
Natural fibres	Textiles	Nappies - cloth	0.03	0.00	0.23	0.06
Natural fibres	Textiles	Clothing - wearable	11.46	26.75	5.38	11.86
Natural fibres	Textiles	Clothing - unwearable	1.87	0.00	4.04	1.99
Natural fibres	Textiles	Shoes - wearable	0.00	0.00	1.71	0.20
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	3.26	0.00	24.91	5.52
Natural fibres	Textiles	Towels	2.76	0.00	5.49	2.88
Natural fibres	Textiles	Tableware	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Pillows	1.16	0.00	0.00	0.94
Natural fibres	Textiles	Dooners	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.89	0.64	0.04	0.78
Natural fibres	Textiles	Soft toys	0.08	0.00	0.00	0.07
Natural fibres	Textiles	Cushions	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00	0.00	0.00
Natural fibres	Textiles	Other	1.35	0.00	0.00	1.10
<b>Sub-total: Textiles</b>			<b>22.86</b>	<b>27.39</b>	<b>41.80</b>	<b>25.40</b>
Natural fibres	Leather	Clothing – wearable	0.14	0.00	0.00	0.11
Natural fibres	Leather	Clothing – unwearable	0.07	0.00	0.00	0.06
Natural fibres	Leather	Shoes - wearable	0.58	0.00	0.00	0.47
Natural fibres	Leather	Shoes - unwearable	0.00	0.00	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00	0.00	0.00
Natural fibres	Leather	Other	0.26	0.00	0.00	0.21
<b>Sub-total: Leather</b>			<b>1.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.85</b>
<b>Sub-total: Natural fibres</b>			<b>23.91</b>	<b>27.39</b>	<b>41.80</b>	<b>26.25</b>
Synthetic fibres	Textiles	Nappies - cloth	0.34	0.00	0.62	0.34
Synthetic fibres	Textiles	Clothing - wearable	2.56	0.00	0.11	2.10
Synthetic fibres	Textiles	Clothing - unwearable	6.02	4.45	3.03	5.56
Synthetic fibres	Textiles	Shoes - wearable	0.08	0.00	1.29	0.21
Synthetic fibres	Textiles	Shoes - unwearable	0.27	0.00	0.00	0.22
Synthetic fibres	Textiles	Bedding (Manchester)	0.41	0.00	0.00	0.34
Synthetic fibres	Textiles	Towels	0.37	0.00	0.00	0.30
Synthetic fibres	Textiles	Tableware	0.04	0.00	0.00	0.03
Synthetic fibres	Textiles	Pillows	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.08	0.00	0.00	0.07
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	9.76	25.88	6.96	10.60

Textiles / leather type			MLA	RLA	NLA	Overall
Synthetic fibres	Textiles	Soft toys	0.06	0.00	0.00	0.05
Synthetic fibres	Textiles	Cushions	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00	0.00	0.00
Synthetic fibres	Textiles	Other	10.16	7.96	9.81	9.96
<b>Sub-total: Textiles</b>			<b>30.15</b>	<b>38.29</b>	<b>21.82</b>	<b>29.78</b>
Synthetic fibres	Leather	Clothing – wearable	0.05	0.00	0.00	0.04
Synthetic fibres	Leather	Clothing – unwearable	4.86	0.00	0.00	3.95
Synthetic fibres	Leather	Shoes - wearable	3.25	0.00	0.00	2.64
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00	0.00	0.00
Synthetic fibres	Leather	Other	0.27	0.00	0.00	0.22
<b>Sub-total: Leather</b>			<b>8.43</b>	<b>0.00</b>	<b>0.00</b>	<b>6.85</b>
<b>Sub-total: Synthetic fibres</b>			<b>38.58</b>	<b>38.29</b>	<b>21.82</b>	<b>36.63</b>
Mixed fibres	Textiles	Nappies - cloth	0.05	0.00	0.00	0.04
Mixed fibres	Textiles	Clothing - wearable	9.98	5.73	5.27	9.13
Mixed fibres	Textiles	Clothing - unwearable	8.76	10.89	5.28	8.51
Mixed fibres	Textiles	Shoes - wearable	1.33	2.92	0.00	1.29
Mixed fibres	Textiles	Shoes - unwearable	0.26	0.00	0.00	0.21
Mixed fibres	Textiles	Bedding (Manchester)	4.91	3.20	5.75	4.88
Mixed fibres	Textiles	Towels	1.07	4.16	2.19	1.43
Mixed fibres	Textiles	Tableware	0.18	0.00	0.00	0.14
Mixed fibres	Textiles	Pillows	0.00	0.00	0.00	0.00
Mixed fibres	Textiles	Dooners	0.38	0.00	0.00	0.31
Mixed fibres	Textiles	Curtains	0.08	0.00	2.67	0.37
Mixed fibres	Textiles	Cloths (dish, dusters etc)	1.54	2.45	3.54	1.83
Mixed fibres	Textiles	Soft toys	1.21	0.00	0.00	0.98
Mixed fibres	Textiles	Cushions	0.96	0.00	0.00	0.78
Mixed fibres	Textiles	Covered furniture	0.00	0.00	0.00	0.00
Mixed fibres	Textiles	Other	2.66	4.97	11.39	3.83
<b>Sub-total: Textiles</b>			<b>33.37</b>	<b>34.32</b>	<b>36.09</b>	<b>33.73</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00	0.29	0.03
Mixed fibres	Leather	Clothing – unwearable	0.26	0.00	0.00	0.21
Mixed fibres	Leather	Shoes - wearable	0.00	0.00	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	3.30	0.00	0.00	2.68
Mixed fibres	Leather	Tableware	0.37	0.00	0.00	0.30
Mixed fibres	Leather	Cushions	0.00	0.00	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00	0.00	0.00
Mixed fibres	Leather	Other	0.21	0.00	0.00	0.17

Textiles / leather type	MLA	RLA	NLA	Overall
Sub-total: Leather	4.14	0.00	0.29	3.39
Sub-total: Mixed fibres	37.51	34.32	36.38	37.12
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

#### 4.4.5. Container Deposit Scheme (CDS) containers

Tables 17 and 18 provide the percentage of CDS containers in garbage bags and of CDS containers by material type by weight. Tables 19 and 20 provide the count and percentage by count of CDS containers by material type for each region and overall.

The data shows:

- Approximately 2.5% of garbage bag contents is CDS containers. This ranged from 2.3% in MLA (with RLA being similar at 2.6%) to 4.0% in NLA.
- By weight, the top three material types were glass, PET and aluminium in all regions.
- By count, the top three material types by region were:
  - MLA: PET, aluminium and liquid paperboard.
  - RLA: aluminium, PET and liquid paperboard.
  - NLA: PET, aluminium and glass.

**Table 17 CDS containers – by region, percentage by weight of all contents in garbage bags**

Beverage container material type	MLA	RLA	NLA	Overall
PET (P1)	0.78	0.76	0.69	0.76
HDPE (P2)	0.02	0.20	0.10	0.05
PVC (P3)	0.00	0.00	0.00	0.00
Other plastics (P7)	0.00	0.00	0.00	0.00
Glass	0.90	0.77	2.54	1.09
Steel	0.04	0.09	0.20	0.07
Aluminum	0.37	0.59	0.29	0.38
Liquid Paperboard	0.16	0.19	0.13	0.16
<b>Total</b>	<b>2.27</b>	<b>2.60</b>	<b>3.95</b>	<b>2.51</b>

**Table 18 CDS containers – by region, percentage by weight of total CDS**

Beverage container material type	MLA	RLA	NLA	Overall
PET (P1)	34.29	29.19	17.39	30.48
HDPE (P2)	0.95	7.72	2.54	1.97
PVC (P3)	0.00	0.00	0.00	0.00
Other plastics (P7)	0.00	0.00	0.00	0.00
Glass	39.73	29.63	64.37	43.44
Steel	1.81	3.58	4.97	2.61
Aluminum	16.15	22.52	7.38	15.12
Liquid Paperboard	7.07	7.36	3.35	6.38
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

**Table 19 CDS containers – by region, by count**

Beverage container material type	MLA	RLA	NLA	Overall
PET (P1)	1,154	154	182	1,490
HDPE (P2)	32	31	24	87
PVC (P3)	0	0	0	0
Other plastics (P7)	0	0	0	0
Glass	170	24	93	287
Steel	80	22	90	192
Aluminum	1,015	222	141	1,378
Liquid Paperboard	334	68	59	461
<b>Total</b>	<b>2,785</b>	<b>521</b>	<b>589</b>	<b>3,895</b>

**Table 20 CDS containers – by region, percentage by count of total CDS**

Beverage container material type	MLA	RLA	NLA	Overall
PET (P1)	41.44	29.56	30.90	38.25
HDPE (P2)	1.15	5.95	4.07	2.23
PVC (P3)	0.00	0.00	0.00	0.00
Other plastics (P7)	0.00	0.00	0.00	0.00
Glass	6.10	4.61	15.79	7.37
Steel	2.87	4.22	15.28	4.93
Aluminum	36.45	42.61	23.94	35.38
Liquid Paperboard	11.99	13.05	10.02	11.84
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

#### 4.4.6. Other beverage containers

This section provides the data of other beverage containers not collected through the CDS. Table 21 provides the percentage by container type by weight in each region and overall. Tables 22 and 23 provide the total count and percentage by count by container type in each region and overall.

The data shows:

- Overall, other beverage containers accounted for 1.4% of garbage bag contents by weight. This ranged from 1.3% in MLA (with RLA being similar at 1.4%) to 2.0% in NLA.
- By weight, the top three beverage container types were HDPE containers, wine/champagne bottles and spirits bottles.
- By count, the top three beverage container types were HDPE containers, wine/champagne bottles and PET fruit & vegetable juice containers (>1-3L).

**Table 21 Other beverage containers – by region, percentage by weight of all contents in garbage bags**

Material	Container type	MLA	RLA	NLA	Overall
PET (P1)	Fruit & vegetable juice >1-3L	0.10	0.03	0.13	0.09
PET (P1)	Cordial	0.01	0.00	0.02	0.01
PET (P1)	Flavoured milk >1-3L	0.00	0.01	0.00	0.00
HDPE (P2)	-	0.61	0.81	0.96	0.67
PVC (P3)	Cordial	0.01	0.00	0.00	0.01
Glass	Wine/champ	0.44	0.50	0.60	0.46
Glass	Spirits	0.11	0.09	0.24	0.12
Glass	Flavoured alcoholic beverage	0.00	0.00	0.00	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0.00	0.00	0.00
Glass	Cordial	0.00	0.00	0.00	0.00
Glass	Flavoured milk >1-3L	0.00	0.00	0.00	0.00
Glass	Unflavoured milk	0.00	0.00	0.00	0.00
Steel	Flavoured alcoholic beverage	0.00	0.00	0.00	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0.00	0.00	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0.00	0.04	0.01
	<b>Total</b>	<b>1.28</b>	<b>1.44</b>	<b>1.99</b>	<b>1.37</b>

**Table 22 Other beverage containers – by region, by count**

Material	Container type	MLA	RLA	NLA	Overall
PET (P1)	Fruit & vegetable juice >1-3L	58	2	18	78
PET (P1)	Cordial	3	0	2	5
PET (P1)	Flavoured milk >1-3L	2	1	0	3
HDPE (P2)	-	561	88	144	793
PVC (P3)	Cordial	4	0	0	4
Glass	Wine/champ	51	6	10	67
Glass	Spirits	10	1	4	15
Glass	Flavoured alcoholic beverage	0	0	0	0
Glass	Fruit & vegetable juice >1-3L	0	0	0	0
Glass	Cordial	0	0	0	0
Glass	Flavoured milk >1-3L	0	0	0	0
Glass	Unflavoured milk	0	0	0	0
Steel	Flavoured alcoholic beverage	0	0	0	0
Aluminum	Flavoured alcoholic beverage	0	0	0	0
Cardboard	Wine/champagne casks/sachets >1-3L	0	0	2	2
	<b>Total</b>	<b>689</b>	<b>98</b>	<b>180</b>	<b>967</b>

**Table 23 Other beverage containers – by region, percentage by count of total count**

Material	Container type	MLA	RLA	NLA	Overall
PET (P1)	Fruit & vegetable juice >1-3L	8.42	2.04	10.00	8.07
PET (P1)	Cordial	0.44	0.00	1.11	0.52
PET (P1)	Flavoured milk >1-3L	0.29	1.02	0.00	0.31
HDPE (P2)	-	81.42	89.80	80.00	82.01
PVC (P3)	Cordial	0.58	0.00	0.00	0.41
Glass	Wine/champ	7.40	6.12	5.56	6.93
Glass	Spirits	1.45	1.02	2.22	1.55
Glass	Flavoured alcoholic beverage	0.00	0.00	0.00	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0.00	0.00	0.00
Glass	Cordial	0.00	0.00	0.00	0.00
Glass	Flavoured milk >1-3L	0.00	0.00	0.00	0.00
Glass	Unflavoured milk	0.00	0.00	0.00	0.00
Steel	Flavoured alcoholic beverage	0.00	0.00	0.00	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0.00	0.00	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0.00	1.11	0.20
	<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

#### 4.4.7. Single-use items

Tables 24 and 25 provides the percentage of each single-use items type in the garbage bag contents and of the total single-use items by weight by region and overall.

The data shows:

- Paper single-use items occupied more than 60% of total single-use items in all regions<sup>1</sup>.
- Followed by compostable and non-compostable coffee cups, accounting for a total of approximately 20% of total single-use items overall.
  - MLA and NLA had a higher percentage of non-compostable coffee cups at 12.1% and 11.4% respectively.
  - RLA had a higher percentage of compostable coffee cups at 13.9%.
- MLA also had these single-use items in garbage bags following the order of percentage of total single-use items:
  - Wood single-use items;
  - HDPE single-use plastic bags;
  - Coffee cup lids;

<sup>1</sup> Single-use items include paper plates, bowls and cutlery and disposable paper products, such as paper bags. This includes:

Items that may have become paper as a substitute to single-use plastics which was mainly PS and EPS non-packaging. In the 2023 audit compared to the 2014 audit, the percentage of PS and EPS non-packaging decreased in NSW (0.7%).

Paper bags, particularly which may have replaced plastic bags due to the plastic bag ban. In the 2023 audit compared to the 2014 audit, the percentage of plastic bags decreased in NSW (1.5%).

- LDPE ‘boutique’ single-use plastic bags; and
- Other cardboard cups.
- RLA also had these single-use items in garbage bags following the order of percentage of total single-use items:
  - Coffee cup lids;
  - Other cardboard cups;
  - Wood single-use items; and
  - HDPE single-use plastic bags.
- NLA also had these single-use items in garbage bags following the order of percentage of total single-use items:
  - Wood single-use items;
  - HDPE single-use plastic bags;
  - LDPE ‘boutique’ single-use plastic bags;
  - Coffee cup lids; and
  - Other cardboard cups.

**Table 24 Single-use items – by region, percentage by weight of all contents in garbage bags**

Material	Item	MLA	RLA	NLA	Overall
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.37	0.22	0.19	0.33
Cardboard	Coffee cups - compostable	0.67	1.04	0.39	0.68
Cardboard	Coffee cups - non-compostable	0.84	0.85	0.69	0.82
Cardboard	Other cups	0.08	0.30	0.09	0.10
Paper	Single-use items	4.27	4.54	4.18	4.29
Plastic	PS / EPS straws	0.00	0.00	0.00	0.00
Plastic	PS / EPS stirrers	0.00	0.00	0.00	0.00
Plastic	PS / EPS cutlery	0.03	0.04	0.06	0.04
Plastic	PS / EPS cups	0.03	0.03	0.01	0.03
Plastic	PS / EPS coffee cup lids	0.21	0.30	0.14	0.21
Plastic	PS / EPS stemmed cotton buds	0.00	0.00	0.00	0.00
Plastic	PS plates / bowls	0.01	0.00	0.02	0.01
Plastic	EPS plates / bowls	0.00	0.00	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.31	0.17	0.17	0.28
Plastic	Film – packaging – single use ‘boutique’ (LDPE) bags	0.10	0.01	0.15	0.09
	<b>Total</b>	<b>6.92</b>	<b>7.50</b>	<b>6.09</b>	<b>6.88</b>

**Table 25 Single-use items – by region, percentage by weight of total single-use items**

Material	Item	MLA	RLA	NLA	Overall
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	5.31	2.93	3.06	4.81
Cardboard	Coffee cups - compostable	9.72	13.90	6.42	9.82
Cardboard	Coffee cups - non-compostable	12.11	11.40	11.36	11.95
Cardboard	Other cups	1.16	3.96	1.54	1.51
Paper	Single-use items	61.52	60.58	68.59	62.16



Material	Item	MLA	RLA	NLA	Overall
Plastic	PS / EPS straws	0.04	0.00	0.00	0.03
Plastic	PS / EPS stirrers	0.01	0.00	0.00	0.01
Plastic	PS / EPS cutlery	0.50	0.47	0.96	0.55
Plastic	PS / EPS cups	0.50	0.39	0.19	0.45
Plastic	PS / EPS coffee cup lids	3.00	4.03	2.30	3.04
Plastic	PS / EPS stemmed cotton buds	0.01	0.00	0.00	0.01
Plastic	PS plates / bowls	0.16	0.00	0.40	0.17
Plastic	EPS plates / bowls	0.03	0.00	0.00	0.03
Plastic	Film – packaging – single use HDPE bags	4.53	2.22	2.79	4.09
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	1.40	0.12	2.39	1.37
	<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

## 4.5. Results comparison for 2014 and 2023 audits

In this section, results are compared for MLA and RLA. SMA and ERA was separated in 2014 but were combined to create MLA in 2023. Therefore, the 2014 MLA results were represented by the average of the results of SMA and ERA in 2014. NLA was not audited in 2014. Therefore, no comparison for this region and the overall result.

### 4.5.1. Detailed composition using all sorting categories

Tables 26 to 27 provide a comparison of the detailed composition between the 2014 and 2023 audits using the 2014 sorting categories, presented as a percentage by weight.

The data shows the main changes:

- **MLA:**
  - Top 5 materials to increase were nappies, contaminated paper, textile – cloth, waxed / wet cardboard and LDPE non-packaging.
  - Top 5 materials to decrease were unpackaged food, garden organics, photocopy paper, other packaging paper and newsprint.
- **RLA:**
  - Top 5 materials to increase were nappies, other office paper, waxed / wet cardboard, clinical related material and textile – cloth.
  - Top 5 materials to decrease were unpackaged food, film packaging, photocopy paper, newsprint and glass beverage containers.

**Table 26 Detailed composition: MLA – 85 categories from 2014 – by audit year**

2014 sorting category		2014	2023	Difference
S-1	Food organics – unpackaged	26.199	23.111	-3.088
S-2	Food organics – packaged	1.108	2.164	1.056
S-3	Food organics – liquid	1.864	1.283	-0.581
S-4	Garden organics	3.865	1.331	-2.534
S-5	Wood/untreated - board/pole, untreated	0.095	0.369	0.274
S-6	Wood/untreated - pallets/furniture	0.000	0.020	0.020
S-7	Wood/untreated - chipboard / MDF	0.001	0.002	0.001
S-8	Wood/treated/painted - board/pole, treated	0.422	0.127	-0.295
S-9	Wood/treated/painted - pallets/furniture	0.003	0.044	0.041
S-10	Wood/treated/painted - chipboard / MDF	0.041	0.065	0.024
S-11	Cardboard dry - packaging	3.291	3.029	-0.262
S-12	Cardboard dry - production spoils	0.123	0.000	-0.123
S-13	Cardboard dry - waxed	0.088	0.108	0.020
S-14	Cardboard wet - packaging	0.481	0.905	0.424
S-15	Cardboard wet - production spoils	0.051	0.000	-0.051
S-16	Cardboard wet - waxed	0.173	2.063	1.890
S-17	Paper - photocopy paper	2.555	0.026	-2.529
S-18	Paper - magazines / catalogues	1.059	0.584	-0.475
S-19	Paper - brochures and leaflets	0.725	0.026	-0.699
S-20	Paper – books	0.942	0.126	-0.816
S-21	Paper - printing/writing (other office)	3.155	3.428	0.273
S-22	Paper - other packaging	1.664	0.558	-1.106
S-23	Paper - newsprint	1.572	0.474	-1.098
S-24	Paper - brown kraft paper	0.901	0.107	-0.794
S-25	Paper - rolls of low grade	0.092	0.244	0.152
S-26	Paper - hand towels	4.409	3.402	-1.007
S-27	Paper - contaminated (incl. tissue/excl. hand towels)	6.630	10.247	3.617
S-28	Plastic - PET beverage containers (P1)	1.037	0.899	-0.138
S-29	Plastic - PET packaging (excl beverage containers) (P1)	0.565	1.373	0.808
S-30	Plastic - PET other non-beverage/non-packaging (P1)	0.052	0.307	0.255
S-31	Plastic - HDPE beverage containers (P2)	1.138	0.632	-0.506
S-32	Plastic - HDPE packaging (excl beverage containers) (P2)	0.401	0.471	0.070
S-33	Plastic - HDPE other non-beverage/non-packaging (P2)	0.069	0.001	-0.068
S-34	Plastic - PVC beverage containers (P3)	0.002	0.011	0.009
S-35	Plastic - PVC packaging (excl beverage containers) (P3)	0.027	0.026	-0.001

2014 sorting category		2014	2023	Difference
S-36	Plastic - PVC other non-beverage/non-packaging (P3)	0.035	0.380	0.345
S-37	Plastic - LDPE packaging (P4)	0.011	0.010	-0.001
S-38	Plastic - LDPE non-packaging (P4)	0.056	1.936	1.880
S-39	Plastic - PP packaging (P5)	1.216	1.838	0.622
S-40	Plastic - PP non-packaging (P5)	0.572	0.498	-0.074
S-41	Plastic - PS packaging (P6)	0.186	0.087	-0.099
S-42	Plastic - EPS packaging containers (P6) not packaging foam	0.130	0.029	-0.101
S-43	Plastic - PS & EPS non-packaging (P6)	0.919	0.296	-0.623
S-44	Plastic - Other plastic containers (P7)	0.117	0.031	-0.086
S-45	Plastic - film packaging (bags and film)	11.076	10.235	-0.841
S-46	Plastic - polystyrene foam (EPS)	0.009	0.251	0.242
S-47	Plastic – other	1.753	1.307	-0.446
S-48	Glass - containers beverage	2.137	1.444	-0.693
S-49	Glass - containers non-beverage	0.450	0.560	0.110
S-50	Glass - containers (fines)	0.160	0.119	-0.041
S-51	Glass - plate / non-packaging (other glass)	0.046	0.110	0.064
S-52	Metal (ferrous) - packaging beverage	0.136	0.111	-0.025
S-53	Metal (ferrous) - packaging non-beverage	1.055	0.846	-0.209
S-54	Metal (ferrous) - non-packaging	0.602	0.296	-0.306
S-55	Metal (non-ferrous) - packaging beverage	0.610	0.412	-0.198
S-56	Metal (non-ferrous) - packaging non-beverage	0.135	0.238	0.103
S-57	Metal (non-ferrous) - non-packaging	0.360	0.243	-0.117
S-58	Textiles - carpet and underlay	0.148	0.056	-0.092
S-59	Textiles – cloth	2.532	4.508	1.976
S-60	Textiles - covered furniture	0.000	0.000	0.000
S-61	Textiles - mattresses	0.000	0.000	0.000
S-62	Textiles – other	1.112	0.710	-0.402
S-63	Rubber - tyres, tubes	0.129	0.000	-0.129
S-64	Rubber – other	0.744	1.565	0.821
S-65	Electrical and electronic - TVs	0.027	0.000	-0.027
S-66	Electrical - computers and peripherals	0.006	0.099	0.093
S-67	Electrical - toner cartridges	0.051	0.199	0.149
S-68	Electrical and electronic - whitegoods	0.000	0.000	0.000
S-69	Electrical - WEEE (other)	0.420	0.545	0.126
S-70	C&D – concrete	0.000	0.009	0.009
S-71	C&D – bricks	0.005	0.000	-0.005
S-72	C&D – tiles	0.092	0.299	0.207
S-73	C&D - rock/dirt/soil	0.239	0.184	-0.055
S-74	C&D - asphalt	0.000	0.000	0.000

2014 sorting category		2014	2023	Difference
S-75	C&D - plasterboard	0.213	0.037	-0.176
S-76	Contaminated soils and processing residuals	0.136	0.000	-0.136
S-77	Hazardous / special - batteries	0.021	0.023	0.002
S-78	Hazardous / special - gas bottles	0.002	0.054	0.052
S-79	Hazardous / special - fluorescent tubes	0.007	0.000	-0.007
S-80	Hazardous / special - chemicals	0.189	0.461	0.273
S-81	Hazardous / special - clinical	0.433	1.604	1.172
S-82	Fines (<10mm) not able to be categorised	0.155	0.005	-0.150
S-83	Liquid paperboard	1.076	1.042	-0.033
S-84	Nappies	4.431	8.600	4.169
S-85	Other	1.261	1.160	-0.101
<b>Total</b>		<b>100.000</b>	<b>100.000</b>	<b>-</b>

**Table 27 Detailed composition: RLA – 85 categories from 2014 – by audit year**

2014 sorting category		2014	2023	Difference
S-1	Food organics – unpackaged	31.320	22.241	-9.079
S-2	Food organics – packaged	0.483	2.005	1.522
S-3	Food organics – liquid	0.826	1.360	0.534
S-4	Garden organics	0.272	1.087	0.815
S-5	Wood/untreated - board/pole, untreated	0.027	0.228	0.201
S-6	Wood/untreated - pallets/furniture	0.000	0.006	0.006
S-7	Wood/untreated - chipboard / MDF	0.000	0.000	0.000
S-8	Wood/treated/painted - board/pole, treated	0.001	0.073	0.072
S-9	Wood/treated/painted - pallets/furniture	0.000	0.007	0.007
S-10	Wood/treated/painted - chipboard / MDF	0.000	0.054	0.054
S-11	Cardboard dry - packaging	2.673	2.670	-0.003
S-12	Cardboard dry - production spoils	0.373	0.000	-0.373
S-13	Cardboard dry - waxed	0.062	0.053	-0.009
S-14	Cardboard wet - packaging	0.558	0.232	-0.326
S-15	Cardboard wet - production spoils	0.008	0.000	-0.008
S-16	Cardboard wet - waxed	0.021	2.364	2.343
S-17	Paper - photocopy paper	1.748	0.000	-1.748
S-18	Paper - magazines / catalogues	0.694	0.555	-0.139
S-19	Paper - brochures and leaflets	0.794	0.000	-0.794
S-20	Paper – books	0.368	0.407	0.039
S-21	Paper - printing/writing (other office)	1.657	5.043	3.386
S-22	Paper - other packaging	0.928	0.677	-0.251
S-23	Paper - newsprint	2.051	0.467	-1.584
S-24	Paper - brown kraft paper	0.565	0.000	-0.565
S-25	Paper - rolls of low grade	0.376	0.078	-0.298
S-26	Paper - hand towels	4.087	4.009	-0.078
S-27	Paper - contaminated (incl. tissue/excl. hand towels)	8.852	9.875	1.023
S-28	Plastic - PET beverage containers (P1)	0.796	0.805	0.009
S-29	Plastic - PET packaging (excl beverage containers) (P1)	0.645	1.038	0.393
S-30	Plastic - PET other non-beverage/non-packaging (P1)	0.050	0.064	0.014
S-31	Plastic - HDPE beverage containers (P2)	1.814	1.009	-0.805
S-32	Plastic - HDPE packaging (excl beverage containers) (P2)	0.474	0.646	0.172
S-33	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000	0.024	0.024
S-34	Plastic - PVC beverage containers (P3)	0.019	0.000	-0.019
S-35	Plastic - PVC packaging (excl beverage containers) (P3)	0.104	0.035	-0.069

2014 sorting category		2014	2023	Difference
S-36	Plastic - PVC other non-beverage/non-packaging (P3)	0.004	0.056	0.052
S-37	Plastic - LDPE packaging (P4)	0.016	0.054	0.038
S-38	Plastic - LDPE non-packaging (P4)	0.000	1.439	1.439
S-39	Plastic - PP packaging (P5)	2.268	1.734	-0.534
S-40	Plastic - PP non-packaging (P5)	0.191	0.200	0.009
S-41	Plastic - PS packaging (P6)	0.140	0.038	-0.102
S-42	Plastic - EPS packaging containers (P6) not packaging foam	0.148	0.002	-0.146
S-43	Plastic - PS & EPS non-packaging (P6)	0.348	0.366	0.018
S-44	Plastic - Other plastic containers (P7)	0.136	0.003	-0.133
S-45	Plastic - film packaging (bags and film)	11.682	7.626	-4.056
S-46	Plastic - polystyrene foam (EPS)	0.050	0.026	-0.024
S-47	Plastic – other	2.523	1.847	-0.676
S-48	Glass - containers beverage	2.677	1.361	-1.316
S-49	Glass - containers non-beverage	1.293	1.133	-0.160
S-50	Glass - containers (fines)	0.473	0.044	-0.429
S-51	Glass - plate / non-packaging (other glass)	0.061	0.000	-0.061
S-52	Metal (ferrous) - packaging beverage	0.024	0.097	0.073
S-53	Metal (ferrous) - packaging non-beverage	1.875	1.055	-0.820
S-54	Metal (ferrous) - non-packaging	0.220	0.371	0.151
S-55	Metal (non-ferrous) - packaging beverage	0.311	0.586	0.275
S-56	Metal (non-ferrous) - packaging non-beverage	0.062	0.836	0.774
S-57	Metal (non-ferrous) - non-packaging	0.192	0.254	0.062
S-58	Textiles - carpet and underlay	0.710	0.000	-0.710
S-59	Textiles – cloth	2.033	3.558	1.525
S-60	Textiles - covered furniture	0.000	0.000	0.000
S-61	Textiles - mattresses	0.000	0.000	0.000
S-62	Textiles – other	0.993	0.000	-0.993
S-63	Rubber - tyres, tubes	0.000	0.000	0.000
S-64	Rubber – other	0.534	0.415	-0.119
S-65	Electrical and electronic - TVs	0.000	0.285	0.285
S-66	Electrical - computers and peripherals	0.075	0.000	-0.075
S-67	Electrical - toner cartridges	0.000	0.000	0.000
S-68	Electrical and electronic - whitegoods	0.005	0.000	-0.005
S-69	Electrical - WEEE (other)	0.041	0.917	0.876
S-70	C&D – concrete	0.000	0.059	0.059
S-71	C&D – bricks	0.000	0.000	0.000
S-72	C&D – tiles	0.142	0.000	-0.142
S-73	C&D - rock/dirt/soil	0.467	0.148	-0.319
S-74	C&D - asphalt	0.000	0.000	0.000

2014 sorting category		2014	2023	Difference
S-75	C&D - plasterboard	0.026	0.000	-0.026
S-76	Contaminated soils and processing residuals	0.026	0.000	-0.026
S-77	Hazardous / special - batteries	0.038	0.046	0.008
S-78	Hazardous / special - gas bottles	0.000	0.000	0.000
S-79	Hazardous / special - fluorescent tubes	0.000	0.000	0.000
S-80	Hazardous / special - chemicals	0.450	0.323	-0.127
S-81	Hazardous / special - clinical	0.909	3.314	2.405
S-82	Fines (<10mm) not able to be categorised	0.000	0.000	0.000
S-83	Liquid paperboard	0.445	0.894	0.449
S-84	Nappies	4.862	13.434	8.572
S-85	Other	0.902	0.367	-0.535
<b>Total</b>		<b>100.000</b>	<b>100.000</b>	<b>-</b>

## 4.5.2. Recoverability composition in garbage bags

Tables 28 to 31 provide the comparison for consolidated and detailed recoverability. The data shows that the material recoverable now was lower in 2023 compared to the 2014 for MLA (-28.6%) and RLA (-30.5%), which is mainly due to changes in recoverability of materials.:

The current recoverability of these affected materials following changes are:

- Recoverable now:
  - Cardboard wet – packaging (previously recoverable in the future)
  - Rubber – tyre (previously recoverable in the future)
  - Electrical and electronic (except TVs and computers and peripherals) (previously recoverable in the future)
  - Aggregates, masonry and soils (except concrete and bricks) (previously recoverable in the future)
  - Gas bottles, fluorescent tubes and chemicals (previously not recoverable)
- Recoverable in the future:
  - Plastic rigid packaging – P6 and P7 (previously recoverable now)
  - Plastic film (previously recoverable now)
  - Batteries (previously recoverable now)
  - Liquid paperboard (previously recoverable now)
- Not recoverable:
  - Organics compostable paper (i.e., hand towels and contaminated soiled paper)(previously recoverable now)

However, there have been some changes in 2023 since 2014, including:

### 1. MLA:

- a. Recoverable now:
  - i. An increase of plastic and cardboard comingled, electrical and electronic items and EPS packaging.
  - ii. A decrease of paper comingled, organic compostable wood and food.
- b. Recoverable in the future:
  - i. An increase of nappies, textiles other, cardboard other, plastic other and rubber (except tyres).
  - ii. A decrease of plastic packaging – P6 and P7, organic other and plastic film.

2. RLA:
- a. Recoverable now:
    - i. An increase of paper commingled, electrical and electronic items and organic compostable wood, aggregates, masonry & soils and metal (commingled and other).
    - ii. A decrease of organic compostable food, glass, plastic and cardboard commingled and EPS packaging.
  - b. Recoverable in the future:
    - i. An increase of nappies, cardboard other, organic other, plastic other and liquid paperboard.
    - ii. A decrease of plastic film, plastic packaging – P6 and P7, textiles other, and rubber (except tyres).

**Table 28 Recoverability consolidated composition: MLA – by audit year**

Recoverability	2014	2023	Difference
Recoverable now	79.9	51.3	-28.6
Recoverable in the future	17.8	36.5	18.7
Not recoverable	2.2	12.2	10.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	-

**Table 29 Recoverability detailed composition: MLA – by audit year**

Recoverability category detail	2014	2023	Difference
Organic compostable food	26.20	24.40	-1.80
Organic compostable wood	3.96	1.35	-2.61
Organic compostable paper	11.03	NA	NA
Paper commingled	13.74 (12.66)	9.85	-2.81
Cardboard commingled	3.41	3.93	0.52
Plastic commingled	4.70 (3.35)	5.27	1.92
Glass commingled	2.74	2.13	-0.61
Metal commingled	1.93	1.62	-0.31
Plastic film	11.07	NA	NA
EPS packaging/foam	0.14	0.28	0.14
Metal other	0.96	0.54	-0.42
Mattresses	0.00	0.00	-
Tyres	(0.13)	0.00	-0.13
Electrical & Electronic	0.04 (0.51)	0.84	0.33
Aggregates, masonry & soils	0.01 (0.56)	0.53	-0.03
Other ^	NA	0.50	NA
<b>Sub-total: Recoverable now</b>	<b>79.93</b>	<b>51.24</b>	<b>-28.69</b>
Wood – single-use items	NA	0.37	NA
Liquid paperboard	(1.08)	1.04	-0.04
Plastic packaging – P6 and P7	(1.35)	0.12	-1.23
Organic other	3.44	2.39	-1.05
Cardboard other	0.80	2.17	1.37
Plastic film	(11.07)	10.24	-0.83
Plastic other	3.46	4.43	0.97



Recoverability category detail	2014	2023	Difference
Glass other	0.05	0.11	0.06
Textiles other	3.79	5.28	1.49
Rubber	0.88 (0.74)	1.56	0.82
Batteries	(0.02)	0.02	-
Electrical & Electronic	0.47	NA	NA
Aggregates, masonry & soils	0.55	NA	NA
Nappies	4.43	8.60	4.17
Oils	NA	0.21	NA
<b>Sub-total: Recoverable in the future</b>	<b>17.87</b>	<b>36.54</b>	<b>18.67</b>
Organic compostable paper	(11.03)	9.38	-1.65
Plastic single-use items	NA	0.28	-
Other	2.20 (2.18)	2.56	0.38
<b>Sub-total: Not recoverable</b>	<b>2.20</b>	<b>12.22</b>	<b>10.02</b>
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>-</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Note:** numbers in the “( )” based on the 2023 recoverability show the percentage for comparison but not contribute to the recoverability results.

**Table 30 Recoverability consolidated composition: RLA – by audit year**

Recoverability	2014	2023	Difference
Recoverable now	82.7	52.2	-30.5
Recoverable in the future	15.0	34.4	19.4
Not recoverable	2.3	13.4	11.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>-</b>

**Table 31 Recoverability detailed composition: RLA – by audit year**

Recoverability category detail	2014	2023	Difference
Organic compostable food	31.32	23.60	-7.72
Organic compostable wood	0.30	1.10	0.80
Organic compostable paper	12.94	NA	NA
Paper commingled	9.63 (9.18)	11.78	2.60
Cardboard commingled	3.05	2.90	-0.15
Plastic commingled	6.41 (5.64)	5.32	-0.32
Glass commingled	4.44	2.53	-1.91
Metal commingled	2.27	2.58	0.31
Plastic film	11.68	NA	NA
EPS packaging/foam	0.20	0.03	-0.17
Metal other	0.41	0.62	0.21
Mattresses	0.00	0.00	-
Tyres	(0.00)	0.00	-

Recoverability category detail	2014	2023	Difference
Electrical & Electronic	0.08 (0.12)	1.20	1.08
Aggregates, masonry & soils	0.00 (0.64)	0.21	0.43
Other ^	NA	0.32	NA
<b>Sub-total: Recoverable now</b>	<b>82.73</b>	<b>52.19</b>	<b>-30.54</b>
Wood – single-use items	NA	0.22	NA
Liquid paperboard	(0.45)	0.90	0.45
Plastic packaging – P6 and P7	(0.77)	0.04	-0.73
Organic other	1.31	2.13	0.82
Cardboard other	0.65	2.41	1.76
Plastic film	(11.68)	7.63	-4.05
Plastic other	3.12	3.63	0.51
Glass other	0.06	0.00	-0.06
Textiles other	3.74	3.56	-0.18
Rubber	0.53	0.41	-0.12
Batteries	(0.04)	0.05	0.01
Electrical & Electronic	0.04	NA	NA
Aggregates, masonry & soils	0.64	NA	NA
Nappies	4.86	13.43	8.57
Oils	NA	0.00	NA
<b>Sub-total: Recoverable in the future</b>	<b>14.95</b>	<b>34.41</b>	<b>19.46</b>
Organic compostable paper	(12.94)	9.34	-3.60
Plastic single-use items	NA	0.37	NA
Other	2.33 (2.29)	3.69	1.40
<b>Sub-total: Not recoverable</b>	<b>2.33</b>	<b>13.40</b>	<b>11.07</b>
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>-</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Note:** numbers in the “( )” based on the 2023 recoverability show the percentage for comparison but not contribute to the recoverability results.

### 4.5.3. Degradable organic content (DOC)

Table 32 provides a comparison of DOC by year for MLA and RLA. The data shows that the total DOC in garbage bags decreased 2.1% in MLA whereas it increased 3.6% in RLA.

In the MLA, food and garden organics and paper decreased, with an increase in cardboard, textiles/ leather and nappies. However, in RLA, food organics and paper decreased, with an increase in nappies, cardboard, garden organics and wood.

**Table 32 Focus material – DOC: MLA and RLA – by audit year, percentage by weight**

DOC type	MLA 2014	MLA 2023	MLA Difference	RLA 2014	RLA 2023	RLA Difference
DOC – food organics	29.2	26.6	-2.6	32.6	25.6	-7.0
DOC – garden organics	3.9	1.3	-2.6	0.3	1.1	0.8
DOC – wood	0.6	0.6	0.0	0.0	0.4	0.4
DOC – cardboard	4.2	7.2	3.0	3.7	6.2	2.5
DOC – paper	24.8	19.2	-5.6	22.6	21.1	-1.5
DOC – textiles / leather	3.8	5.3	1.5	3.7	3.6	-0.1
DOC – nappies	4.5	8.6	4.1	4.9	13.4	8.5
<b>Sub-total – DOC contents</b>	<b>70.9</b>	<b>68.8</b>	<b>-2.1</b>	<b>67.8</b>	<b>71.4</b>	<b>3.6</b>
Other waste	29.1	31.2	2.1	32.2	28.6	-3.6
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>-</b>	<b>100.0</b>	<b>100.0</b>	<b>-</b>

### 4.5.4. Packaging material

Table 33 provides a comparison of packaging material content by year for MLA and RLA. The data shows that in both areas the percentage of total packaging material decreased and cardboard packaging increased.

**Table 33 Focus material – packaging material: MLA and RLA – by audit year, percentage by weight**

Packaging type	MLA 2014	MLA 2023	MLA Difference	RLA 2014	RLA 2023	RLA Difference
Packaging – paper	2.6 ^	0.7	-1.9	1.5 ^	0.7	-0.8
Packaging – cardboard	5.1 ^	7.1	+2.0	3.8 ^	6.2	+2.4
Packaging – plastics	16.0	10.2	-5.7	18.3	8.7	-9.6
Packaging – glass	2.8	2.1	-0.7	4.4	2.5	-1.9
Packaging – metals	2.0	1.6	-0.4	2.3	2.6	0.3
<b>Sub-total – packaging material</b>	<b>28.5</b>	<b>21.7</b>	<b>-6.7</b>	<b>30.2</b>	<b>20.7</b>	<b>-9.5</b>
Other waste	71.5	78.3	6.6	69.8	79.3	9.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>-</b>	<b>100.0</b>	<b>100.0</b>	<b>-</b>

^ Liquid paperboard packaging was changed from paper packaging to cardboard packaging between audits.

## 4.5.5. Food organics

Table 34 provides a comparison of food organics content by year for MLA and RLA. The data shows that the unpackaged food decreased in MLA and RLA, with a greater decrease in RLA. However, the packaged food increased in both areas.

**Table 34 Focus material – food organics – by region, percentage by weight**

Food organics type	MLA 2014	MLA 2023	MLA Difference	RLA 2014	RLA 2023	RLA Difference
Food organics – unpackaged	26.2	23.1	-3.1	31.3	22.2	-9.1
Food organics – packaged	1.1	2.2	1.1	0.5	2.0	1.5
Food organics – liquid	1.9	1.3	-0.6	0.8	1.4	0.6
<b>Sub-total – food organics</b>	<b>29.2</b>	<b>26.6</b>	<b>-2.6</b>	<b>32.6</b>	<b>25.6</b>	<b>-7.0</b>
Other waste	70.8	73.4	2.6	67.4	74.4	7.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>-</b>	<b>100.0</b>	<b>100.0</b>	<b>-</b>

## 5. Results by sector

This section provides the results of garbage bags sampled from 17 industry sectors.

Table 35 shows the top 10 materials and Table 36 provides the recoverability by percentage by industry sector.

Table 35 shows that garbage bags mainly comprised of food for most sectors, except the health care and social assistance sector which was nappies. Additionally, different industry sectors may have a different distribution of materials based on the business function and how the business treats waste. For example, art and recreation service had more containerised liquid, unpackaged food, textiles and tissues in garbage bags which may be due to bins provided to users with garbage bags and no waste separation from garbage bags on site.

Table 36 shows that the percentage of materials recoverable now ranges from 32.2% to 66.4%. Wholesale trade and education and training sectors had a higher percentage of material recoverable now in garbage bags both at 66.4%. Followed by cafés and restaurants sectors with 60.3% of material recoverable now. The health care and social assistance sector had the lowest rate of materials recoverable now in garbage bags.

Detailed results of each sector are provided in the following sections.

**Table 35 Top 10 materials by sector**

Sector	1	2	3	4	5	6	7	8	9	10
<b>Manufacturing - food</b>	Food organics – unpackag-ed	Plastic – film – packaging – other	Plastic - LDPE non-packaging (P4)	Food organics - packaged	Plastic - PET packaging (excl beverage containers) (P1)	Paper – contaminat-ed (in. tissue/ex. hand towels)	Plastic – film – non-packaging	Paper - hand towels	Textiles - cloth/ rags	Plastic - PP non-packaging (P5) - other
<b>Manufacturing - other</b>	Food organics – unpackag-ed	Rubber - other	Textiles - cloth/ rags	Paper - printing/ writing (other office)	Paper – contaminat-ed (in. tissue/ex. hand towels)	Paper - hand towels	Plastic - LDPE non-packaging (P4)	Plastic - PVC other non-beverage/no n-packaging (P3)	Plastic – film – non-packaging	Cardboard dry - packaging
<b>Wholesale trade</b>	Food organics – unpackag-ed	Plastic – film – non-packaging	Paper - single-use items	Glass - containers beverage - CDS	Cardboard dry - packaging	Plastic – film – packaging – other	Paper – contaminat-ed (in. tissue/ex. hand towels)	Paper - printing/ writing (other office)	Textiles - cloth/ rags	Paper - hand towels
<b>Food retailing</b>	Food organics – unpackag-ed	Paper - single-use items	Plastic – film – packaging – other	Food organics - packaged	Plastic – film – non-packaging	Paper – contaminat-ed (in. tissue/ex. hand towels)	Plastic - PP packaging (P5)	Textiles - cloth/ rags	Paper - hand towels	Nappies (incl. AHW)
<b>Other store retailing</b>	Food organics – unpackag-ed	Plastic – film – packaging – other	E&E - other	Plastic – film – non-packaging	Textiles - cloth/ rags	Nappies (incl. AHW)	Plastic - LDPE non-packaging (P4)	Paper - printing/ writing (other office)	Paper – contaminat-ed (in. tissue/ex. hand towels)	Paper - single-use items
<b>Accommodation</b>	Food organics – unpackag-ed	Textiles - cloth/ rags	Nappies (incl. AHW)	Paper – contaminat-ed (in. tissue/ex. hand towels)	Plastic – film – non-packaging	Cardboard dry - packaging	Paper - printing/ writing (other office)	Glass - containers beverage - CDS	Paper - single-use items	Food organics - packaged

Sector	1	2	3	4	5	6	7	8	9	10
<b>Cafés and restaurants</b>	Food organics – unpackag-ed	Plastic – film – non-packaging	Paper – contaminat-ed (in. tissue/ex. hand towels)	Paper - single-use items	Plastic – film – packaging – other	Nappies (incl. AHW)	Paper - hand towels	Cardboard dry - packaging	Plastic - PP packaging (P5)	Leather
<b>Transport, postal and warehousing</b>	Food organics – unpackag-ed	Nappies (incl. AHW)	Paper - hand towels	Textiles - cloth/ rags	Plastic - LDPE non-packaging (P4)	Plastic – film – non-packaging	Paper – contaminat-ed (in. tissue/ex. hand towels)	Paper - single-use items	Cardboard dry - packaging	Paper - printing/ writing (other office)
<b>Professional, scientific, and technical services</b>	Food organics – unpackag-ed	Paper – contaminat-ed (in. tissue/ex. hand towels)	Plastic – film – non-packaging	Cardboard dry - packaging	Paper - printing/ writing (other office)	Textiles - cloth/ rags	Paper - hand towels	Paper - single-use items	Hazardous / special - oil (with contents)	Paper - other packaging
<b>Administrative and support services</b>	Food organics – unpackag-ed	Paper – contaminat-ed (in. tissue/ex. hand towels)	Paper - printing/ writing (other office)	Plastic - LDPE non-packaging (P4)	Paper - hand towels	Cardboard dry - packaging	Plastic – film – non-packaging	Paper - single-use items	Glass - containers non-beverage	Paper - newsprint
<b>Public administration and safety</b>	Food organics - packaged	Food organics – unpackag-ed	Paper - hand towels	Plastic – film – non-packaging	Metal (non-ferrous) - packaging non-beverage	Textiles - cloth/ rags	Paper – contaminat-ed (in. tissue/ex. hand towels)	Plastic – film – packaging – other	Liquid paperboard (cardboard) - NOT CDS	Cardboard dry - packaging
<b>Education and training</b>	Food organics – unpackag-ed	Paper - printing/ writing (other office)	Plastic – film – non-packaging	Paper – contaminat-ed (in. tissue/ex. hand towels)	Paper - single-use items	Cardboard dry - packaging	Garden organics	Paper - hand towels	Plastic – film – packaging – other	Textiles - cloth/ rags
<b>Health care and social assistance</b>	Nappies (incl. AHW)	Food organics – unpackag-ed	Hazardous / special - clinical - other	Paper – contaminat-ed (in. tissue/ex. hand towels)	Plastic – film – non-packaging	Paper - printing/ writing (other office)	Paper - hand towels	Textiles - cloth/ rags	Paper - single-use items	Cardboard dry - packaging

Sector	1	2	3	4	5	6	7	8	9	10
<b>Arts and recreation services</b>	Food organics – unpackag-ed	Textiles - cloth/ rags	Food organics - other liquid	Food organics - packaged	Paper – contaminat-ed (in. tissue/ex. hand towels)	Paper - single-use items	Plastic – film – packaging – other	Cardboard dry - packaging	Plastic – film – non-packaging	Paper - hand towels
<b>Shopping centres</b>	Food organics – unpackag-ed	Nappies (incl. AHW)	Plastic – film – non-packaging	Textiles - cloth/ rags	Paper - single-use items	Paper – contaminat-ed (in. tissue/ex. hand towels)	Plastic – film – packaging – other	Cardboard dry - packaging	Paper - printing/ writing (other office)	Paper - hand towels
<b>Offices</b>	Food organics – unpackag-ed	Paper - contaminat-ed (in. tissue/ex. hand towels)	Paper - hand towels	Paper - printing/ writing (other office)	Plastic – film – non-packaging	Paper - single-use items	Cardboard dry - packaging	Nappies (incl. AHW)	Plastic – film – packaging – other	Textiles - cloth/ rags
<b>Mixed SMEs</b>	Food organics – unpackag-ed	Insulation	Textiles - cloth/ rags	Nappies (incl. AHW)	Paper – contaminat-ed (in. tissue/ex. hand towels)	Plastic - polystyrene foam (EPS)	Paper - single-use items	Plastic – film – non-packaging	Cardboard dry - packaging	Wood/treat-ed - sawdust

**Table 36 Recoverability by sector, percentage by weight**

<b>Sector</b>	<b>Recoverable now</b>	<b>Recoverable in the future</b>	<b>Not recoverable</b>
<b>Manufacturing - food</b>	45.20	44.17	10.63
<b>Manufacturing - other</b>	43.54	45.20	11.26
<b>Wholesale trade</b>	66.37	26.85	6.78
<b>Food retailing</b>	58.67	32.65	8.68
<b>Other store retailing</b>	57.21	34.22	8.57
<b>Accommodation</b>	53.95	36.02	10.03
<b>Cafés and restaurants</b>	60.30	30.43	9.27
<b>Transport, postal and warehousing</b>	42.72	42.82	14.46
<b>Professional, scientific, and technical services</b>	56.80	32.04	11.16
<b>Administrative and support services</b>	52.77	23.73	23.50
<b>Public administration and safety</b>	37.47	48.43	14.10
<b>Education and training</b>	66.37	24.15	9.48
<b>Health care and social assistance</b>	32.24	47.59	20.17
<b>Arts and recreation services</b>	56.70	34.27	9.03
<b>Shopping centres</b>	53.23	38.08	8.69
<b>Offices</b>	54.78	26.56	18.66
<b>Mixed SMEs</b>	46.78	29.17	24.05



## 5.1. Manufacturing: food

### 5.1.1. Composition using all sorting categories

Table 37 provides the detailed composition of garbage bags from the manufacturing: food sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 37 Manufacturing: food – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	29.179
S-2	Food organics - packaged	6.913
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	0.124
S-5	Garden organics	0.159
S-6	Organics - other putrescible	0.007
S-7	Wood/untreated - single-use items	0.136
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	1.147
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.090
S-21	Cardboard wet - packaging	0.171
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.000
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.452
S-26	Cardboard - disposable - coffee cups - compostable	0.674
S-27	Cardboard - disposable - coffee cups - non-compostable	2.242
S-28	Cardboard - disposable - other cups	0.000
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.078
S-31	Paper - brochures and leaflets	0.000

	Sorting category	Percentage by weight
S-32	Paper - books	0.000
S-33	Paper - printing/writing (other office)	0.302
S-34	Paper - other packaging	0.853
S-35	Paper - newsprint	0.000
S-36	Paper - brown kraft paper	0.007
S-37	Paper - rolls of low grade	0.802
S-38	Paper - hand towels	3.600
S-39	Paper - single-use items	2.839
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	5.002
S-41	Plastic - PET beverage containers (P1) - CDS	0.261
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.000
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	5.070
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.036
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	2.691
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.000
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.275
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.138
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.000
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	1.085
S-58	Plastic - LDPE packaging (P4)	0.000
S-59	Plastic - LDPE non-packaging (P4)	7.130
S-60	Plastic - PP packaging (P5)	0.920
S-61	Plastic - PP non-packaging (P5) - cups	0.042
S-62	Plastic - PP non-packaging (P5) - other	3.343
S-63	Plastic - PS packaging (P6)	0.003
S-64	Plastic - EPS packaging containers (P6)	0.056
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.004
S-67	Plastic - PS/EPS - cutlery	0.050
S-68	Plastic - PS/EPS - cups	0.015
S-69	Plastic - PS/EPS - coffee cup lids	0.028
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000

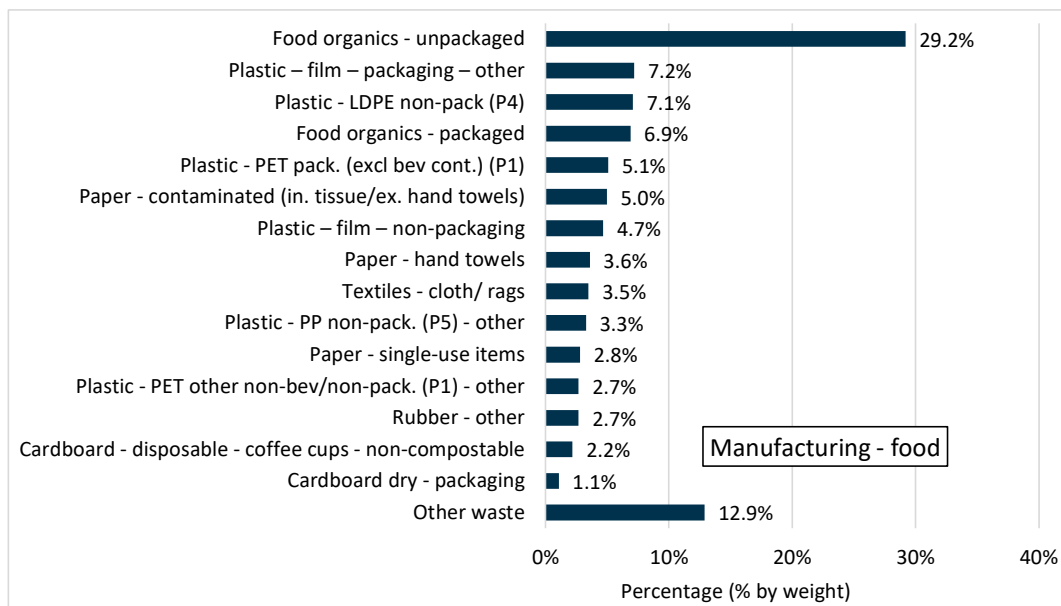
	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.000
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.000
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.299
S-77	Plastic – film – packaging – single use HDPE bags	0.170
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.079
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	7.218
S-81	Plastic – film – non-packaging	4.723
S-82	Plastic - polystyrene foam (EPS)	0.331
S-83	Plastic - other	0.173
S-84	Glass - containers beverage - CDS	0.000
S-85	Glass - containers beverage-not CDS-wine/champagne	0.000
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.071
S-94	Glass - containers (fines)	0.000
S-95	Glass - plate / non-packaging (other glass)	0.095
S-96	Metal (ferrous) - packaging beverage - CDS	0.005
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	1.055
S-100	Metal (ferrous) - non-packaging	0.207
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.180
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	0.289
S-105	Metal (non-ferrous) - non-packaging	0.153
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	3.476
S-109	Leather	0.000
S-110	Rubber - tyres, tubes	0.000

	Sorting category	Percentage by weight
S-111	Rubber - other	2.679
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.018
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.000
S-124	C&D - rock/dirt/soil	0.379
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.016
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.108
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.000
S-139	Hazardous / special - personal care with microbeads	0.000
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.946
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.010
S-144	Liquid paperboard (cardboard) - NOT CDS	0.092
S-145	Liquid paperboard (cardboard) - other packaging	0.162
S-146	Nappies (incl. AHW)	0.159
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.983
	<b>Total</b>	<b>100.000</b>

Figure 16 shows the top 15 materials. The top 15 materials in garbage bags from the manufacturing: food sector were:

- Food organics – unpackaged
- Plastic – film – packaging – other
- Plastic – LDPE non-packaging (P4)
- Food organics – packaged
- Plastic – PET packaging (excl. beverage containers) (P1)
- Paper – contaminated (incl. tissue/excl. hand towels)
- Plastic – film – non-packaging
- Paper – hand towels
- Textiles – cloth/ rags
- Plastic – PP non-packaging (P5) - other
- Paper – single-use items
- Plastic – PET other non-beverage/non-packaging (P1) – other
- Rubber – other
- Cardboard – disposable – coffee cups – non-compostable
- Cardboard dry – packaging

**Figure 16 Manufacturing: food – top 15 materials**



## 5.1.2. Composition using visual audit categories

### Consolidated composition

Table 38 shows the composition of garbage bags from the manufacturing: food sector using the consolidated visual audit categories.

The results show:

- Organics occupied most of the garbage bags by weight at 36.5%.
- Followed by plastics (34.1%) and paper and cardboard (18.5%).
- These materials made up approximately 90% of garbage bag contents.

**Table 38 Manufacturing: food – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	18.51
Electrical & Electronic	0.04
Organics	36.52
Glass	0.16
Aggregates, Masonry & Soils	0.38
Metals	1.89
Plastics	34.14
Rubber	2.68
Textiles & Leather	3.48
Nappies	0.16
Hazardous	1.06
Other	0.98
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 39 shows the composition of garbage bags from the manufacturing: food sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 39 Manufacturing: food – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	0.379
V-4	A, M & soils – other	0.000
V-5	E&E – batteries	0.016
V-6	E&E – computers and peripherals	0.000
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.018
V-11	Glass – non-packaging	0.095
V-12	Glass – packaging	0.071
V-13	Metal – ferrous – non-packaging	0.207
V-14	Metal – ferrous – packaging	1.060
V-15	Metal – aluminium – non-packaging	0.153
V-16	Metal – aluminium – packaging	0.469
V-17	Food organics – unpackaged	29.179
V-18	Food organics – packaged	6.913
V-19	Food organics – liquid	0.124

	Visual category	Percentage by weight
V-20	Garden organics	0.166
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.136
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	1.147
V-30	Cardboard – wet	0.171
V-31	Cardboard – wet strength/waxed	3.722
V-32	Paper – recyclable	3.219
V-33	Paper – non-recyclable	8.602
V-34	Paper – packaging	1.662
V-35	Plastic – EPS foam	0.331
V-36	Plastic – film packaging	7.467
V-37	Plastic – other	19.619
V-38	Plastic – rigid packaging	6.723
V-39	Rubber – other	2.679
V-40	Rubber – tyres	0.000
V-41	Leather	0.000
V-42	Textiles – cloth & rags	3.476
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.108
V-49	Hazardous – Clinical	0.946
V-50	Other waste	1.142
	<b>Total</b>	<b>100.000</b>

### 5.1.3. Recoverability of materials in garbage bags

Table 40 provides the consolidated recoverability composition for garbage bags from the manufacturing: food sector. Figure 17 shows the results graphically. The data shows that 45.2% of materials in garbage bags were recoverable now and 44.2% was recoverable in the future.

**Table 40 Manufacturing: food – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	45.20
Recoverable in the future	44.17
Not recoverable	10.63
<b>Total</b>	<b>100.00</b>

**Figure 17 Manufacturing: food – recoverability consolidated composition**

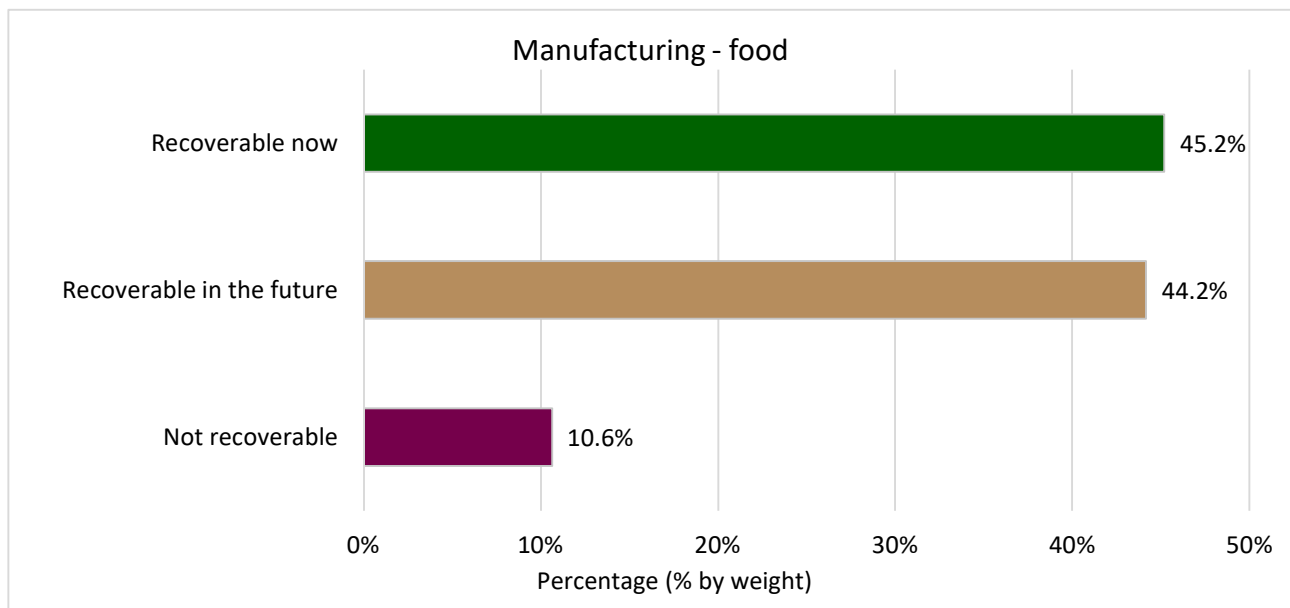


Table 41 provides the detailed recoverability of materials in garbage bags from the manufacturing: food sector and Figure 18 shows the data graphically. The data shows that:

- Most material recoverable now is organic compostable food, plastic, paper, metal and cardboard commingled respectively.
- Most material recoverable in the future is plastic other, plastic film, organic other, textiles other, cardboard other and rubber respectively.

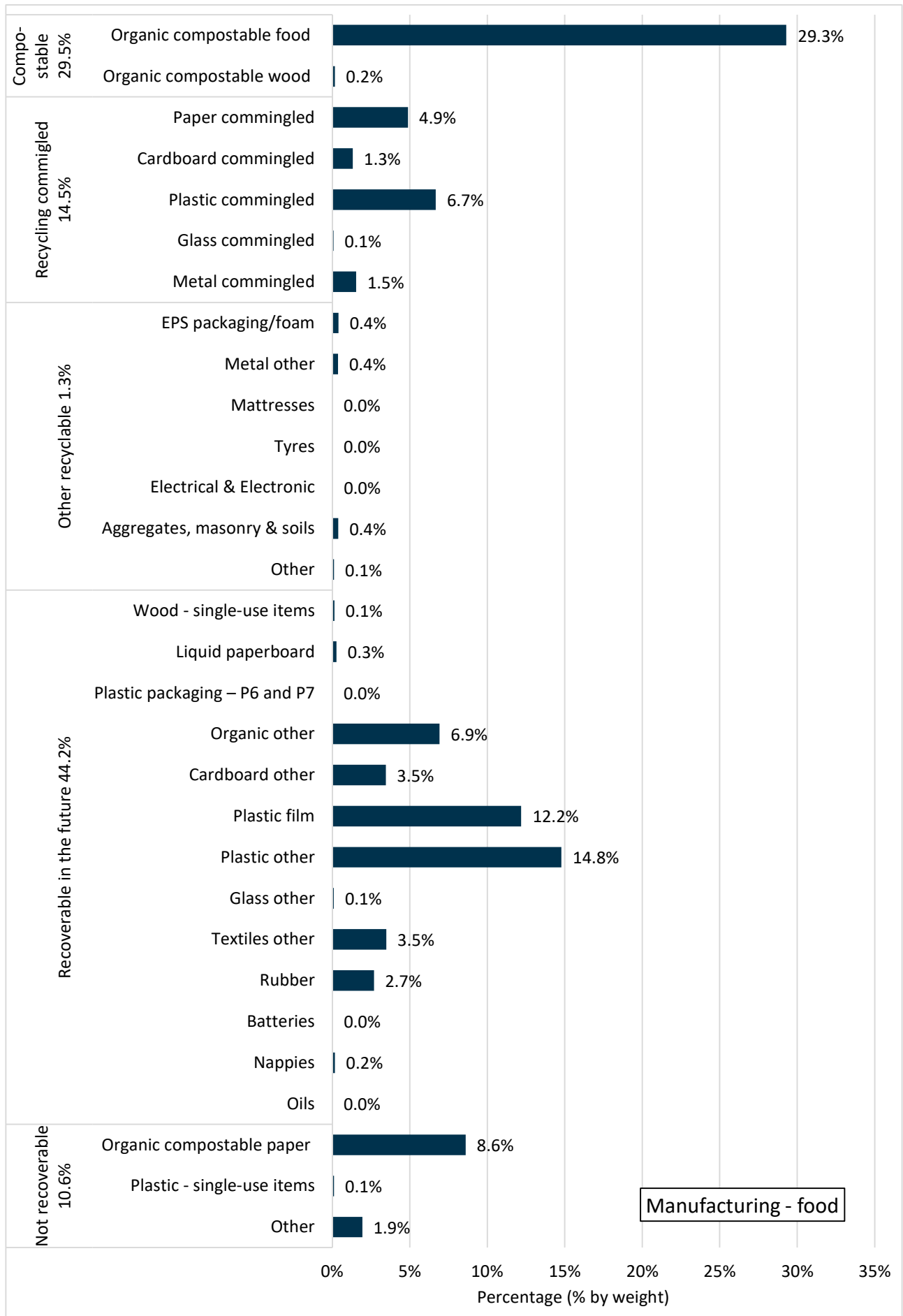


**Table 41 Manufacturing: food – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	29.30
Organic compostable wood	0.17
Paper commingled	4.88
Cardboard commingled	1.32
Plastic commingled	6.67
Glass commingled	0.07
Metal commingled	1.53
EPS packaging/foam	0.39
Metal other	0.36
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.02
Aggregates, masonry & soils	0.38
Other ^	0.11
<b>Sub-total: Recoverable now</b>	<b>45.20</b>
Wood – single-use items	0.14
Liquid paperboard	0.26
Plastic packaging – P6 and P7	0.00
Organic other	6.91
Cardboard other	3.45
Plastic film	12.19
Plastic other	14.79
Glass other	0.09
Textiles other	3.48
Rubber	2.68
Batteries	0.02
Nappies	0.16
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>44.17</b>
Organic compostable paper	8.60
Plastic single-use items	0.10
Other	1.93
<b>Sub-total: Not recoverable</b>	<b>10.63</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 18 Manufacturing: food – recoverability detailed composition**



Manufacturing - food

## 5.1.4. Focus material: degradable organic content (DOC)

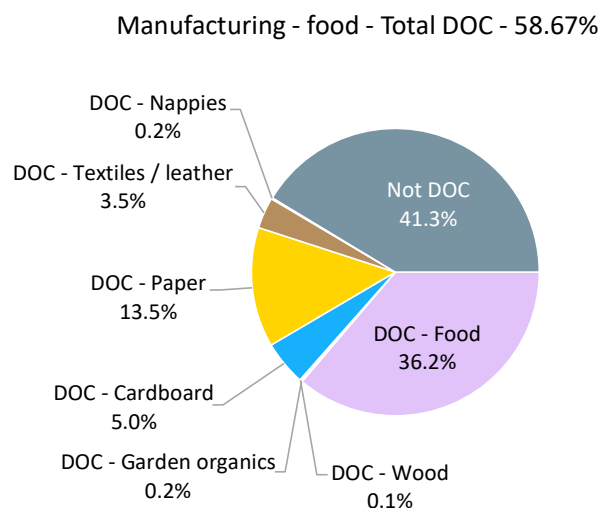
Table 42 provides the DOC in garbage bags from the manufacturing – food sector, as defined in Table 3. Figure 19 shows the data graphically. The garbage bag contents were 59% DOC, with the top three materials in this order:

- DOC – food organics 36.2%;
- DOC – paper 13.5%; and
- DOC – cardboard 5.0%.

**Table 42 Manufacturing: food – focus material – DOC**

DOC type	Overall
DOC – food	36.21
DOC – garden organics	0.17
DOC – wood	0.14
DOC – cardboard	5.03
DOC – paper	13.48
DOC – textiles and leather	3.48
DOC – nappies	0.16
<b>Sub-total – DOC content</b>	<b>58.67</b>
Other waste	41.33
<b>Total</b>	<b>100.0</b>

**Figure 19 Manufacturing: food – focus material – DOC**



## 5.1.5. Focus material: packaging material

Table 43 provides the packaging material content in garbage bags from the manufacturing – food sector, as defined in Table 3. Figure 20 shows the data graphically.

The garbage bag contents was 22.0% packaging material, with the top three materials in this order:

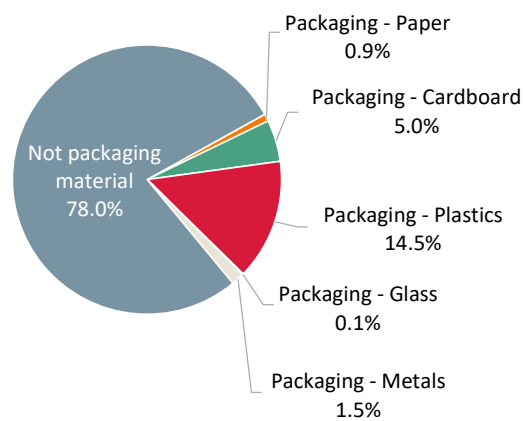
- Packaging – plastics 14.5%.
- Packaging – cardboard 5.0%; and
- Packaging – metals 1.5%.

**Table 43 Manufacturing: food – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.86
Packaging - Cardboard	5.03
Packaging - Plastics	14.53
Packaging - Glass	0.07
Packaging - Metals	1.53
<b>Sub-total – packaging material</b>	<b>22.02</b>
Other waste	77.98
<b>Total</b>	<b>100.00</b>

**Figure 20 Manufacturing: food – focus material – packaging material**

Manufacturing - food - Total Packaging - 22.02%



### 5.1.6. Focus material: food organics

Table 44 provides the food organics content in garbage bags from the manufacturing – food sector, as defined in Table 3. Figure 21 shows the data graphically.

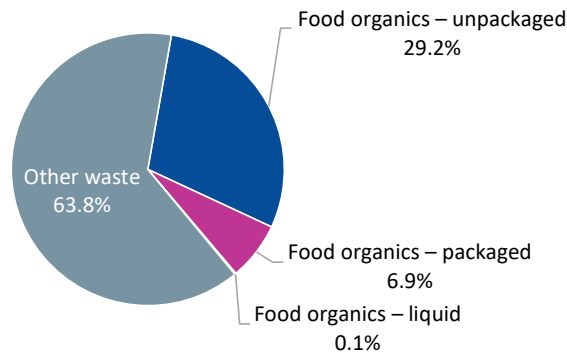
The data shows that 36.2% of garbage bag contents is food organics; with 29.2% unpackaged food and 7.0% packaged food including cooking oil or other liquid.

**Table 44 Manufacturing: food – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	29.18
Food organics – packaged	6.91
Food organics – liquid	0.12
<b>Sub-total – food organics</b>	<b>36.21</b>
Other waste	63.79
<b>Total</b>	<b>100.00</b>

**Figure 21 Manufacturing: food – focus material – food organics**

Manufacturing - food - Total Food organics - 36.21%



### 5.1.7. Focus material: textiles and leather

Approximately 4% of garbage bag contents from the manufacturing – food sector is textiles and leather. Table 45 provides the types of textiles and leather content in garbage bags from the manufacturing – food sector and Figure 22 shows the data graphically.

The data shows that the main types were:

- Textiles synthetic textiles, 49.0%;
- Textiles natural fibres, 43.5%; and
- Textiles mixed fibres, 7.5%.

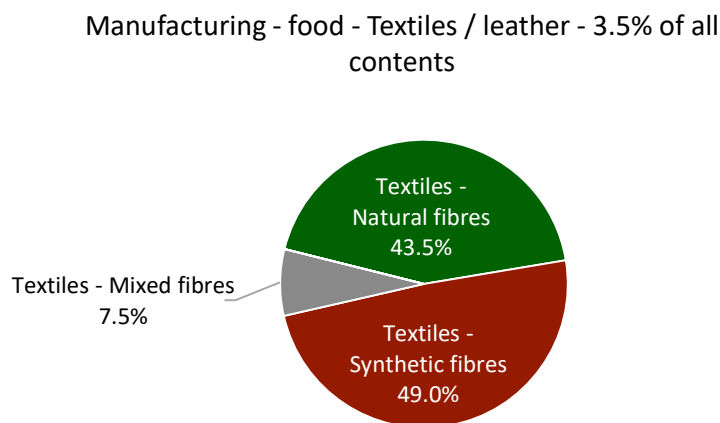
**Table 45 Manufacturing: food – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	1.51	43.48
Natural fibres	Textiles	Clothing - unwearable	0.00	0.00
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.00	0.00
Natural fibres	Textiles	Towels	0.00	0.00
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>1.51</b>	<b>43.48</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>1.51</b>	<b>43.48</b>
Synthetic fibres	Textiles	Nappies - cloth	0.00	0.00
Synthetic fibres	Textiles	Clothing - wearable	0.00	0.00
Synthetic fibres	Textiles	Clothing - unwearable	0.34	9.78
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.02	0.66
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.03	0.76
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	1.32	37.84
<b>Sub-total: Textiles</b>			<b>1.71</b>	<b>49.04</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>1.71</b>	<b>49.04</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.00	0.00

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.00	0.00
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.26	7.37
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.00	0.11
<b>Sub-total: Textiles</b>			<b>0.26</b>	<b>7.48</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Mixed fibres</b>			<b>0.26</b>	<b>7.48</b>
<b>Total</b>			<b>3.48</b>	<b>100.00</b>

Figure 22 Manufacturing: food – focus material – textiles and leather



## 5.1.8. Focus material: CDS containers

Approximately 0.5% of garbage bag contents from the manufacturing – food sector is CDS containers. Table 46 provides the CDS containers content in garbage bags from the manufacturing – food sector, as defined in Table 3.

The data shows:

- By weight, PET was the most, followed by aluminium and liquid paperboard.
- By count, aluminium was the most, followed by PET and liquid paperboard.

**Table 46 Manufacturing: food – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.26	57.36	14	29.79
HDPE (P2)	0.00	0.00	0	0.00
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.00	0.00	0	0.00
Steel	0.00	1.03	1	2.13
Aluminum	0.18	39.41	30	63.83
Liquid Paperboard	0.01	2.20	2	4.25
<b>Total</b>	<b>0.45</b>	<b>100.00</b>	<b>47</b>	<b>100.00</b>

## 5.1.9. Focus material: other beverage containers

Approximately 0.3% of garbage bag contents from the manufacturing – food sector is other beverage containers. Table 47 provides the other beverage containers content in garbage bags from the manufacturing – food sector, as defined in Table 3.

The data shows that only HDPE beverage containers were audited for the manufacturing – food sector.

**Table 47 Manufacturing: food – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.00	0	0.00
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.28	15	100.00
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.00	0	0.00
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00
Glass	Cordial	0.00	0	0.00



Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>0.28</b>	<b>15</b>	<b>100.00</b>

### 5.1.10. Focus material: single-use items

Table 48 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 45.5% of total single-use items.
- Followed by non-compostable coffee cups (35.9% of total single-use items) and compostable coffee cups (10.8% of total single-use items).

**Table 48 Manufacturing: food – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.14	2.18
Cardboard	Coffee cups - compostable	0.67	10.80
Cardboard	Coffee cups - non-compostable	2.24	35.94
Cardboard	Other cups	0.00	0.00
Paper	Single-use items	2.84	45.52
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.07
Plastic	PS/EPS cutlery	0.05	0.80
Plastic	PS/EPS cups	0.02	0.25
Plastic	PS/EPS coffee cup lids	0.03	0.45
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.17	2.72
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.08	1.27
<b>Total</b>		<b>6.24</b>	<b>100.00</b>

## 5.2. Manufacturing: other

### 5.2.1. Composition using all sorting categories

Table 49 provides the detailed composition of garbage bags from the manufacturing: other sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 49 Manufacturing: other – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	16.038
S-2	Food organics - packaged	0.858
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	0.152
S-5	Garden organics	0.008
S-6	Organics - other putrescible	0.000
S-7	Wood/untreated - single-use items	0.045
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	2.468
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.000
S-21	Cardboard wet - packaging	0.867
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.114
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.000
S-26	Cardboard - disposable - coffee cups - compostable	0.075
S-27	Cardboard - disposable - coffee cups - non-compostable	0.700
S-28	Cardboard - disposable - other cups	0.000
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.008
S-31	Paper - brochures and leaflets	0.062

	Sorting category	Percentage by weight
S-32	Paper - books	0.000
S-33	Paper - printing/writing (other office)	7.375
S-34	Paper - other packaging	0.595
S-35	Paper - newsprint	0.190
S-36	Paper - brown kraft paper	0.010
S-37	Paper - rolls of low grade	0.043
S-38	Paper - hand towels	4.634
S-39	Paper - single-use items	1.678
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	6.453
S-41	Plastic - PET beverage containers (P1) - CDS	0.275
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.112
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	2.051
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.043
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.000
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.033
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.440
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.539
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.013
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	3.426
S-58	Plastic - LDPE packaging (P4)	0.000
S-59	Plastic - LDPE non-packaging (P4)	4.634
S-60	Plastic - PP packaging (P5)	1.288
S-61	Plastic - PP non-packaging (P5) - cups	0.000
S-62	Plastic - PP non-packaging (P5) - other	0.358
S-63	Plastic - PS packaging (P6)	0.048
S-64	Plastic - EPS packaging containers (P6)	0.000
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.000
S-68	Plastic - PS/EPS - cups	0.000
S-69	Plastic - PS/EPS - coffee cup lids	0.117
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000

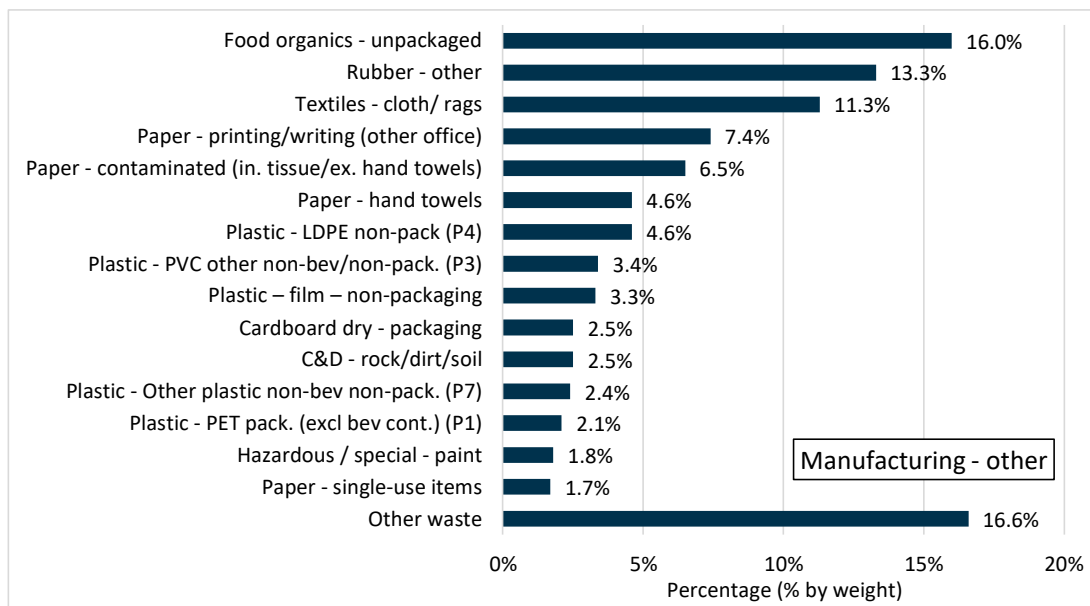
	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.006
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.000
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	2.416
S-77	Plastic – film – packaging – single use HDPE bags	0.130
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.000
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	1.500
S-81	Plastic – film – non-packaging	3.343
S-82	Plastic - polystyrene foam (EPS)	0.144
S-83	Plastic - other	1.068
S-84	Glass - containers beverage - CDS	0.000
S-85	Glass - containers beverage-not CDS-wine/champagne	0.000
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.754
S-94	Glass - containers (fines)	0.168
S-95	Glass - plate / non-packaging (other glass)	0.000
S-96	Metal (ferrous) - packaging beverage - CDS	0.000
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	0.465
S-100	Metal (ferrous) - non-packaging	0.779
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.225
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	0.077
S-105	Metal (non-ferrous) - non-packaging	0.087
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	11.269
S-109	Leather	0.000
S-110	Rubber - tyres, tubes	0.000

	Sorting category	Percentage by weight
S-111	Rubber - other	13.302
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	1.007
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.896
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.345
S-124	C&D - rock/dirt/soil	2.456
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/power tool)	0.000
S-130	Hazardous / special - batteries - other	0.044
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.009
S-135	Hazardous / special - paint	1.768
S-136	Hazardous / special - oil (empty)	1.014
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.000
S-139	Hazardous / special - personal care with microbeads	0.000
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.088
S-144	Liquid paperboard (cardboard) - NOT CDS	0.119
S-145	Liquid paperboard (cardboard) - other packaging	0.083
S-146	Nappies (incl. AHW)	0.639
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.049
	<b>Total</b>	<b>100.000</b>

Figure 23 shows the top 15 materials. The top 15 materials in garbage bags from the manufacturing: other sector were:

- Food organics – unpackaged
- Rubber – other
- Textiles – cloth / rags
- Paper – printing/writing (other office)
- Paper – contaminated (incl. tissue/excl. hand towels)
- Paper – hand towels
- Plastic – LDPE non-packaging (P4)
- Plastic – PVC other non-beverage/non-packaging (P3)
- Plastic – film – non-packaging
- Cardboard dry – packaging
- C&D – rock/dirt/soil
- Plastic – Other plastic non-beverage non-packaging (P7)
- Plastic – PET packaging (excl. beverage containers) (P1)
- Hazardous / special – paint
- Paper – single-use items

**Figure 23 Manufacturing: other – top 15 materials**



## 5.2.2. Composition using visual audit categories

### Consolidated composition

Table 50 shows the composition of garbage bags from the manufacturing: other sector using the consolidated visual audit categories.

The results show:

- Paper and cardboard occupied most of the garbage bag contents by weight at 25.6%.
- Followed by plastics (22.0%), organics (17.1%), rubber (13.3%) and textiles and leather (11.3%).
- These materials made up approximately 90% of garbage bag contents.

**Table 50 Manufacturing: other – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	25.56
Electrical & Electronic	1.95
Organics	17.10
Glass	0.92
Aggregates, Masonry & Soils	2.80
Metals	1.63
Plastics	21.99
Rubber	13.30
Textiles & Leather	11.27
Nappies	0.64
Hazardous	2.79
Other	0.05
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 51 shows the composition of garbage bags from the manufacturing: other sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 51 Manufacturing: other – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	2.456
V-4	A, M & soils – other	0.345
V-5	E&E – batteries	0.044
V-6	E&E – computers and peripherals	1.007
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.896
V-11	Glass – non-packaging	0.000
V-12	Glass – packaging	0.922
V-13	Metal – ferrous – non-packaging	0.779
V-14	Metal – ferrous – packaging	0.465
V-15	Metal – aluminium – non-packaging	0.087
V-16	Metal – aluminium – packaging	0.302
V-17	Food organics – unpackaged	16.038
V-18	Food organics – packaged	0.858
V-19	Food organics – liquid	0.152

	Visual category	Percentage by weight
V-20	Garden organics	0.008
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.045
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	2.582
V-30	Cardboard – wet	0.867
V-31	Cardboard – wet strength/waxed	1.065
V-32	Paper – recyclable	9.313
V-33	Paper – non-recyclable	11.087
V-34	Paper – packaging	0.648
V-35	Plastic – EPS foam	0.144
V-36	Plastic – film packaging	1.630
V-37	Plastic – other	15.411
V-38	Plastic – rigid packaging	4.799
V-39	Rubber – other	13.302
V-40	Rubber – tyres	0.000
V-41	Leather	0.000
V-42	Textiles – cloth & rags	11.269
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	2.791
V-49	Hazardous – Clinical	0.000
V-50	Other waste	0.688
	<b>Total</b>	<b>100.000</b>



### 5.2.3. Recoverability of materials in garbage bags

Table 52 provides the consolidated recoverability composition for garbage bags from the manufacturing: other sector. Figure 24 shows the results graphically. The data shows that 43.5% of materials in garbage bags were recoverable now and 45.2% was recoverable in the future.

**Table 52 Manufacturing: other – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	43.54
Recoverable in the future	45.20
Not recoverable	11.26
<b>Total</b>	<b>100.00</b>

**Figure 24 Manufacturing: other – recoverability consolidated composition**

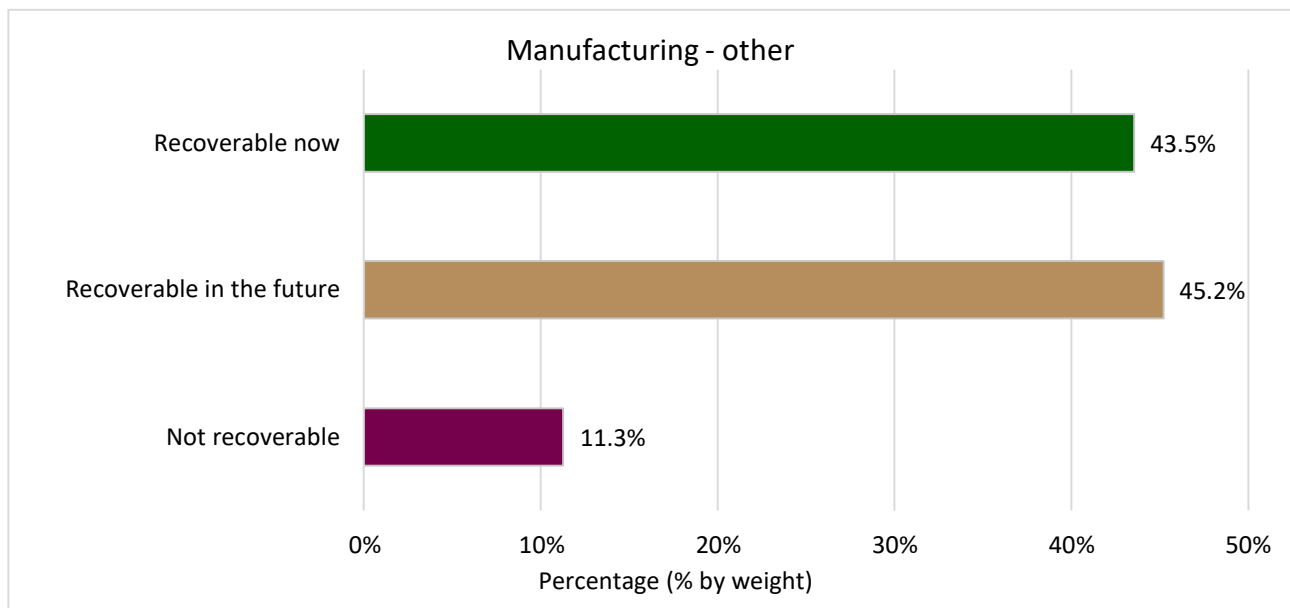


Table 53 provides the detailed recoverability of materials in garbage bags from the manufacturing: other sector and Figure 25 shows the data graphically. The data shows that:

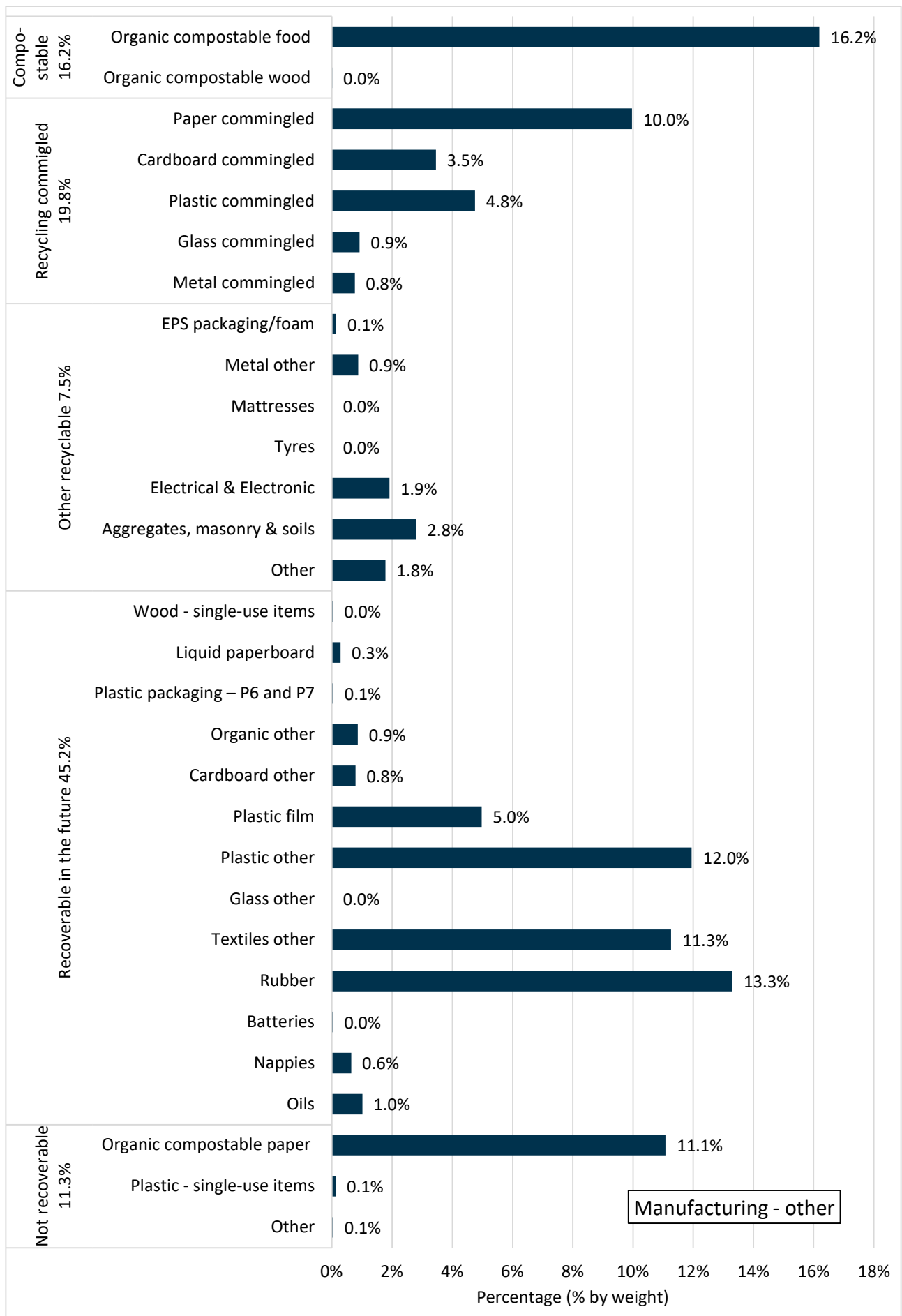
- Most material recoverable now is organic compostable food, paper, plastic and cardboard commingled, electrical and electronic, aggregates, masonry and soils and other (i.e., gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint) respectively.
- Most material recoverable in the future is rubber, plastic other, textiles other, plastic film and oils.

**Table 53 Manufacturing: other – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	16.19
Organic compostable wood	0.01
Paper commingled	9.96
Cardboard commingled	3.45
Plastic commingled	4.75
Glass commingled	0.92
Metal commingled	0.76
EPS packaging/foam	0.14
Metal other	0.87
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	1.91
Aggregates, masonry & soils	2.80
Other ^	1.78
<b>Sub-total: Recoverable now</b>	<b>43.54</b>
Wood – single-use items	0.04
Liquid paperboard	0.29
Plastic packaging – P6 and P7	0.05
Organic other	0.86
Cardboard other	0.78
Plastic film	4.97
Plastic other	11.95
Glass other	0.00
Textiles other	11.27
Rubber	13.30
Batteries	0.04
Nappies	0.64
Oils	1.01
<b>Sub-total: Recoverable in the future</b>	<b>45.20</b>
Organic compostable paper	11.08
Plastic single-use items	0.13
Other	0.05
<b>Sub-total: Not recoverable</b>	<b>11.26</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 25 Manufacturing: other – recoverability detailed composition**



## 5.2.4. Focus material: degradable organic content (DOC)

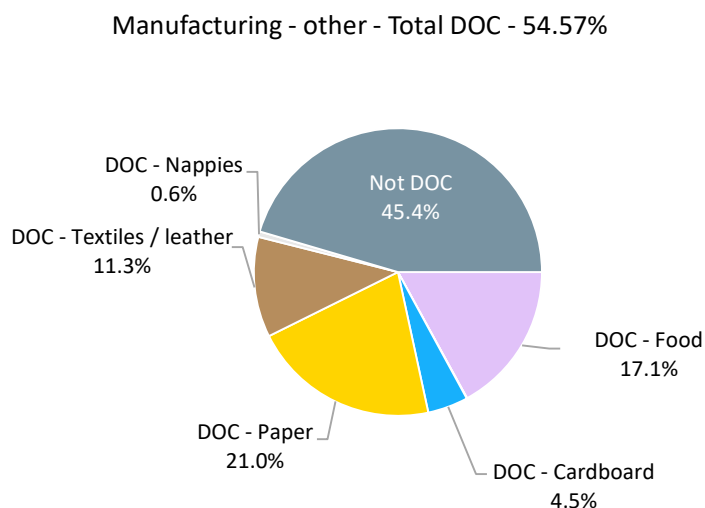
Table 54 provides the DOC in garbage bags from the manufacturing – other sector, as defined in Table 3. Figure 26 shows the data graphically. The garbage bag contents were 55% DOC, with the top three materials in this order:

- DOC – paper 21.0%;
- DOC – food 17.1%; and
- DOC – textiles 11.3%.

**Table 54 Manufacturing: other – focus material – DOC**

DOC type	Overall
DOC – food	17.05
DOC – garden organics	0.01
DOC – wood	0.04
DOC – cardboard	4.52
DOC – paper	21.04
DOC – textiles and leather	11.27
DOC – nappies	0.64
<b>Sub-total – DOC content</b>	<b>54.57</b>
Other waste	45.43
<b>Total</b>	<b>100.0</b>

**Figure 26 Manufacturing: other – focus material – DOC**



## 5.2.5. Focus material: packaging material

Table 55 provides the packaging material content in garbage bags from the manufacturing – other sector, as defined in Table 3. Figure 27 shows the data graphically.

The garbage bag contents were 13% packaging material, with the top three materials in this order:

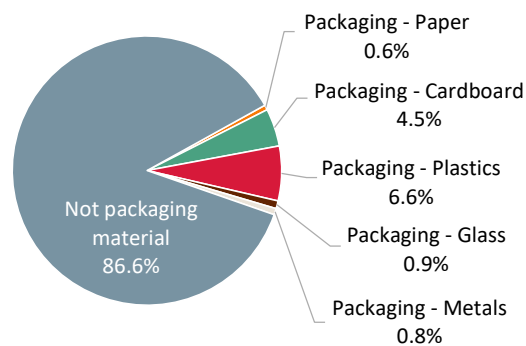
- Packaging – plastics 6.6%.
- Packaging – cardboard 4.5%; and
- Packaging – glass 0.9%.

**Table 55 Manufacturing: other – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.60
Packaging - Cardboard	4.52
Packaging - Plastics	6.57
Packaging - Glass	0.92
Packaging - Metals	0.76
<b>Sub-total – packaging material</b>	<b>13.37</b>
Other waste	86.63
<b>Total</b>	<b>100.00</b>

**Figure 27 Manufacturing: other – focus material – packaging material**

Manufacturing - other - Total Packaging - 13.37%



## 5.2.6. Focus material: food organics

Table 56 provides the food organics content in garbage bags from the manufacturing – other sector, as defined in Table 3. Figure 28 shows the data graphically.

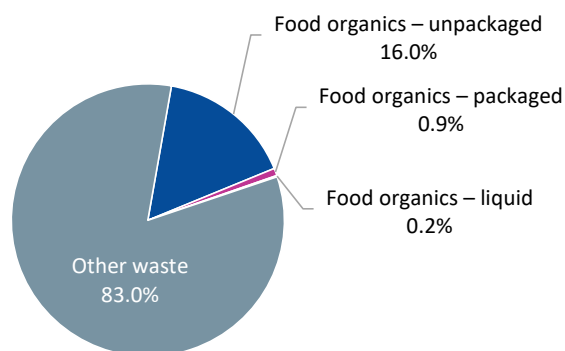
The data shows that approximately 17% of garbage bag contents is food organics; with 16.0% unpackaged food and 1.0% packaged food including cooking oil or other liquid.

**Table 56 Manufacturing: other – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	16.04
Food organics – packaged	0.86
Food organics – liquid	0.15
<b>Sub-total – food organics</b>	<b>17.05</b>
Other waste	82.95
<b>Total</b>	<b>100.00</b>

**Figure 28 Manufacturing: other – focus material – food organics**

Manufacturing - other - Total Food organics - 17.05%



### 5.2.7. Focus material: textiles and leather

Approximately 11% of garbage bag contents from the manufacturing – other sector is textiles and leather. Table 57 provides the types of textiles and leather content in garbage bags from the manufacturing – other sector and Figure 29 shows the data graphically.

The data shows that the main types were:

- Textiles synthetic textiles, 54.5%;
- Textiles mixed fibres, 24.5%; and
- Textiles natural fibres, 21.0%.

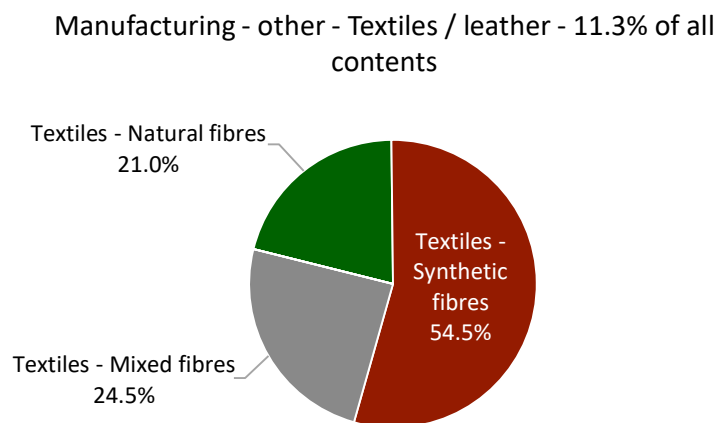
**Table 57 Manufacturing: other – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	1.29	11.49
Natural fibres	Textiles	Clothing - unwearable	0.12	1.03
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.00	0.00
Natural fibres	Textiles	Towels	0.00	0.00
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.95	8.43
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>2.36</b>	<b>20.95</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>2.36</b>	<b>20.95</b>
Synthetic fibres	Textiles	Nappies - cloth	0.00	0.00
Synthetic fibres	Textiles	Clothing - wearable	0.25	2.18
Synthetic fibres	Textiles	Clothing - unwearable	0.19	1.71
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.10	0.85
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	5.61	49.79
<b>Sub-total: Textiles</b>			<b>6.15</b>	<b>54.53</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>6.15</b>	<b>54.53</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.45	3.97

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	1.76	15.61
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.10	0.91
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.45	4.03
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>2.76</b>	<b>24.52</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Mixed fibres</b>			<b>2.76</b>	<b>24.52</b>
<b>Total</b>			<b>11.27</b>	<b>100.00</b>

Figure 29 Manufacturing: other – focus material – textiles and leather





## 5.2.8. Focus material: CDS containers

Approximately 0.6% of garbage bag contents from the manufacturing – other sector is CDS containers. Table 58 provides the CDS containers content in garbage bags from the manufacturing – other sector, as defined in Table 3.

The data shows:

- By weight, PET was the most, followed by aluminium and liquid paperboard.
- By count, aluminium was the most, followed by PET and liquid paperboard.

**Table 58 Manufacturing: other – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.28	44.30	17	35.42
HDPE (P2)	0.03	5.35	1	2.08
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.00	0.00	0	0.00
Steel	0.00	0.00	0	0.00
Aluminum	0.22	36.12	24	50.00
Liquid Paperboard	0.09	14.23	6	12.50
<b>Total</b>	<b>0.62</b>	<b>100.00</b>	<b>48</b>	<b>100.00</b>

## 5.2.9. Focus material: other beverage containers

Approximately 0.6% of garbage bag contents from the manufacturing – other sector is other beverage containers. Table 59 provides the other beverage containers content in garbage bags from the manufacturing – other sector, as defined in Table 3.

The data shows that HDPE beverage containers was the most followed by PET fruit & vegetable juice >1-3L containers.

**Table 59 Manufacturing: other – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.11	2	18.18
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.44	9	81.82
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champ	0.00	0	0.00
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>0.55</b>	<b>11</b>	<b>100.00</b>

## 5.2.10. Focus material: single-use items

Table 60 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 61% of total single-use items.
- Followed by non-compostable coffee cups at 25.4% of total single-use items.

**Table 60 Manufacturing: other – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.04	1.64
Cardboard	Coffee cups - compostable	0.08	2.74
Cardboard	Coffee cups - non-compostable	0.70	25.44
Cardboard	Other cups	0.00	0.00
Paper	Single-use items	1.68	60.98
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.00	0.00
Plastic	PS/EPS cups	0.00	0.00
Plastic	PS/EPS coffee cup lids	0.12	4.27
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.01	0.21
Plastic	Film – packaging – single use HDPE bags	0.13	4.72
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.00	0.00
<b>Total</b>		<b>2.76</b>	<b>100.00</b>

## 5.3. Wholesale trade

### 5.3.1. Composition using all sorting categories

Table 61 provides the detailed composition of garbage bags from the wholesale trade sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 61 Wholesale trade – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	32.399
S-2	Food organics - packaged	0.610
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	1.056
S-5	Garden organics	0.034
S-6	Organics - other putrescible	0.541
S-7	Wood/untreated - single-use items	0.057
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.078
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	5.611
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.000
S-21	Cardboard wet - packaging	0.095
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.116
S-23	Cardboard - pizza boxes	1.111
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.578
S-26	Cardboard - disposable - coffee cups - compostable	1.095
S-27	Cardboard - disposable - coffee cups - non-compostable	0.277
S-28	Cardboard - disposable - other cups	0.033
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.078
S-31	Paper - brochures and leaflets	0.000
S-32	Paper - books	0.000

	Sorting category	Percentage by weight
S-33	Paper - printing/writing (other office)	3.847
S-34	Paper - other packaging	0.376
S-35	Paper - newsprint	0.000
S-36	Paper - brown kraft paper	0.000
S-37	Paper - rolls of low grade	0.000
S-38	Paper - hand towels	2.644
S-39	Paper - single-use items	6.501
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	3.982
S-41	Plastic - PET beverage containers (P1) - CDS	0.402
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.075
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	0.695
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.000
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.000
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.091
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.213
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.271
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.031
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.000
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.179
S-58	Plastic - LDPE packaging (P4)	0.000
S-59	Plastic - LDPE non-packaging (P4)	1.099
S-60	Plastic - PP packaging (P5)	0.939
S-61	Plastic - PP non-packaging (P5) - cups	0.034
S-62	Plastic - PP non-packaging (P5) - other	0.101
S-63	Plastic - PS packaging (P6)	0.057
S-64	Plastic - EPS packaging containers (P6)	0.051
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.002
S-68	Plastic - PS/EPS - cups	0.022
S-69	Plastic - PS/EPS - coffee cup lids	0.144
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000
S-72	Plastic - EPS - plates / bowls	0.000

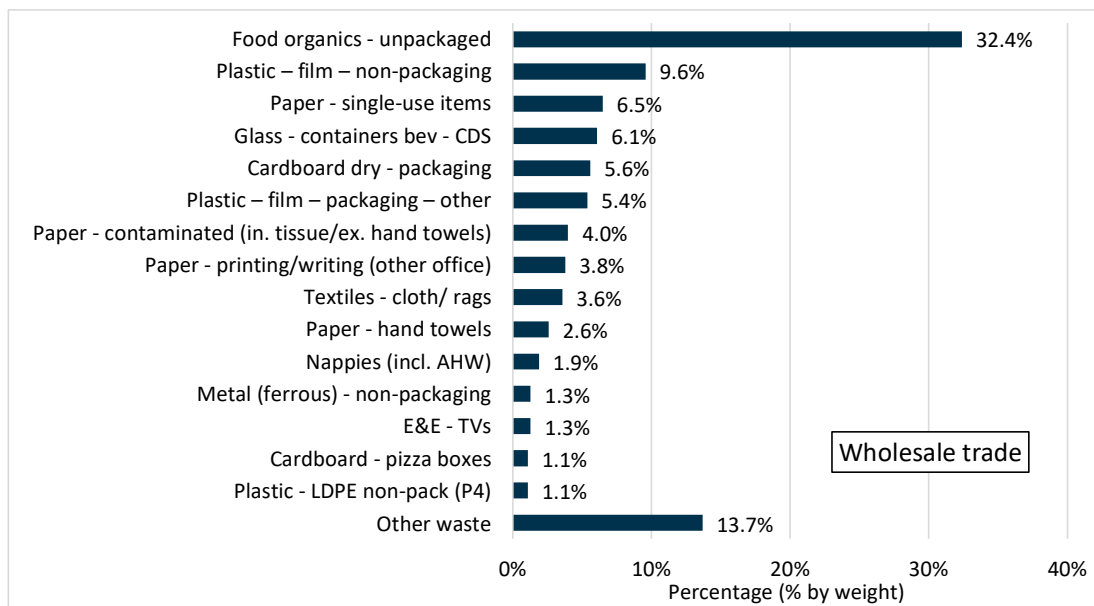
	Sorting category	Percentage by weight
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.011
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.050
S-77	Plastic – film – packaging – single use HDPE bags	0.062
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.031
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	5.362
S-81	Plastic – film – non-packaging	9.627
S-82	Plastic - polystyrene foam (EPS)	0.000
S-83	Plastic - other	0.605
S-84	Glass - containers beverage - CDS	6.140
S-85	Glass - containers beverage-not CDS-wine/champagne	0.000
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.815
S-94	Glass - containers (fines)	0.000
S-95	Glass - plate / non-packaging (other glass)	0.000
S-96	Metal (ferrous) - packaging beverage - CDS	0.104
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	1.096
S-100	Metal (ferrous) - non-packaging	1.347
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.323
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	0.037
S-105	Metal (non-ferrous) - non-packaging	0.063
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	3.598
S-109	Leather	0.912
S-110	Rubber - tyres, tubes	0.000
S-111	Rubber - other	0.180

	Sorting category	Percentage by weight
S-112	E&E - TVs	1.298
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.242
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.056
S-124	C&D - rock/dirt/soil	0.000
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.146
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.322
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.000
S-139	Hazardous / special - personal care with microbeads	0.000
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.008
S-144	Liquid paperboard (cardboard) - NOT CDS	0.072
S-145	Liquid paperboard (cardboard) - other packaging	0.064
S-146	Nappies (incl. AHW)	1.904
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.000
	<b>Total</b>	<b>100.000</b>

Figure 30 shows the top 15 materials. The top 15 materials in garbage bags from the wholesale trade sector were:

- Food organics – unpackaged
- Plastic – film – non-packaging
- Paper – single-use items
- Glass – beverage containers – CDS
- Cardboard dry – packaging
- Plastic – film – packaging – other
- Paper – contaminated (incl. tissue/excl. hand towels)
- Paper – printing / writing (other office)
- Textiles – cloth / rags
- Paper – hand towels
- Nappies (incl. AHW)
- Metal (ferrous) – non-packaging
- E&E – TVs
- Cardboard – pizza boxes
- Plastic – LDPE non- packaging (P4)

**Figure 30 Wholesale trade – top 15 materials**



### 5.3.2. Composition using visual audit categories

#### **Consolidated composition**

Table 62 shows the composition of garbage bags from the wholesale trade sector using the consolidated visual audit categories.

The results show:

- Organics occupied most of the garbage bag contents by weight at 34.8%.
- Followed by paper and cardboard (26.5%) and plastics (20.1%).
- These materials made up approximately 80% of garbage bag contents.

**Table 62 Wholesale trade – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	26.49
Electrical & Electronic	1.69
Organics	34.78
Glass	6.96
Aggregates, Masonry & Soils	0.06
Metals	2.97
Plastics	20.14
Rubber	0.18
Textiles & Leather	4.51
Nappies	1.90
Hazardous	0.32
Other	0.00
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 63 shows the composition of garbage bags from the wholesale trade sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 63 Wholesale trade – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	0.000
V-4	A, M & soils – other	0.056
V-5	E&E – batteries	0.146
V-6	E&E – computers and peripherals	0.000
V-7	E&E – TVs	1.298
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.242
V-11	Glass – non-packaging	0.000
V-12	Glass – packaging	6.955
V-13	Metal – ferrous – non-packaging	1.347
V-14	Metal – ferrous – packaging	1.200
V-15	Metal – aluminium – non-packaging	0.063
V-16	Metal – aluminium – packaging	0.360
V-17	Food organics – unpackaged	32.399
V-18	Food organics – packaged	0.610
V-19	Food organics – liquid	1.056



	Visual category	Percentage by weight
V-20	Garden organics	0.575
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.078
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.057
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	6.838
V-30	Cardboard – wet	0.095
V-31	Cardboard – wet strength/waxed	2.127
V-32	Paper – recyclable	10.426
V-33	Paper – non-recyclable	6.626
V-34	Paper – packaging	0.376
V-35	Plastic – EPS foam	0.000
V-36	Plastic – film packaging	5.455
V-37	Plastic – other	11.894
V-38	Plastic – rigid packaging	2.805
V-39	Rubber – other	0.180
V-40	Rubber – tyres	0.000
V-41	Leather	0.912
V-42	Textiles – cloth & rags	3.598
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.322
V-49	Hazardous – Clinical	0.000
V-50	Other waste	1.904
	<b>Total</b>	<b>100.000</b>

### 5.3.3. Recoverability of materials in garbage bags

Table 64 provides the consolidated recoverability composition for garbage bags from the wholesale trade sector. Figure 31 shows the results graphically. The data shows that 66.4% of materials in garbage bags were recoverable now and 26.9% was recoverable in the future.

**Table 64 Wholesale trade – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	66.37
Recoverable in the future	26.85
Not recoverable	6.78
<b>Total</b>	<b>100.00</b>

**Figure 31 Wholesale trade – recoverability consolidated composition**

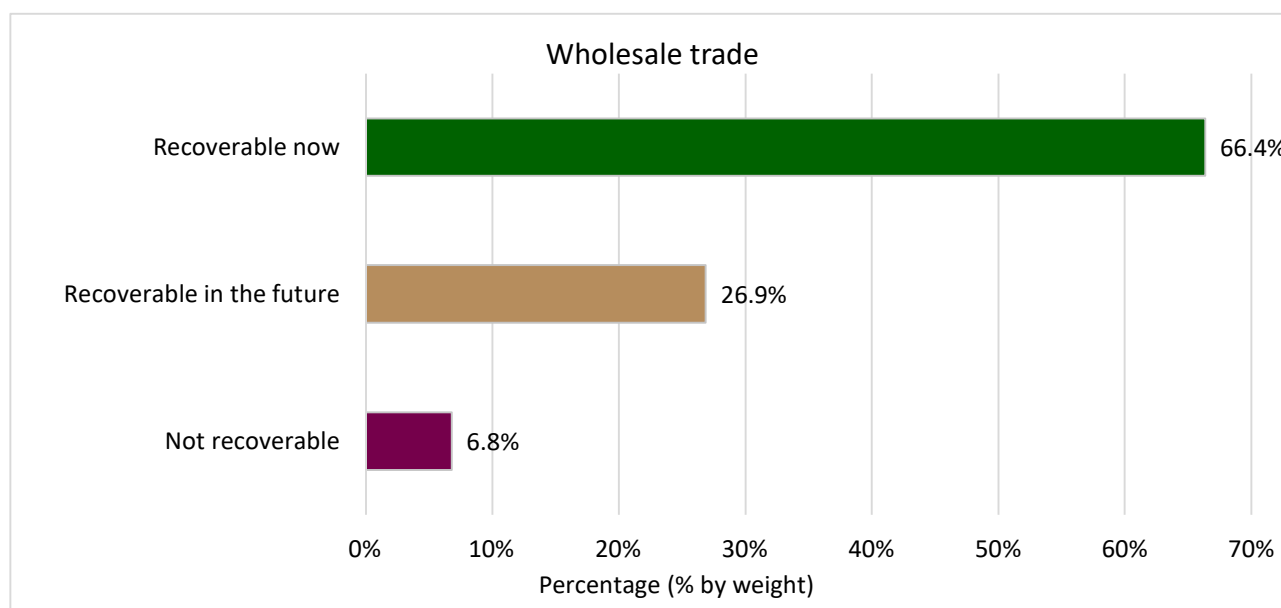


Table 65 provides the detailed recoverability of materials in garbage bags from the wholesale trade sector and Figure 32 shows the data graphically. The data shows that:

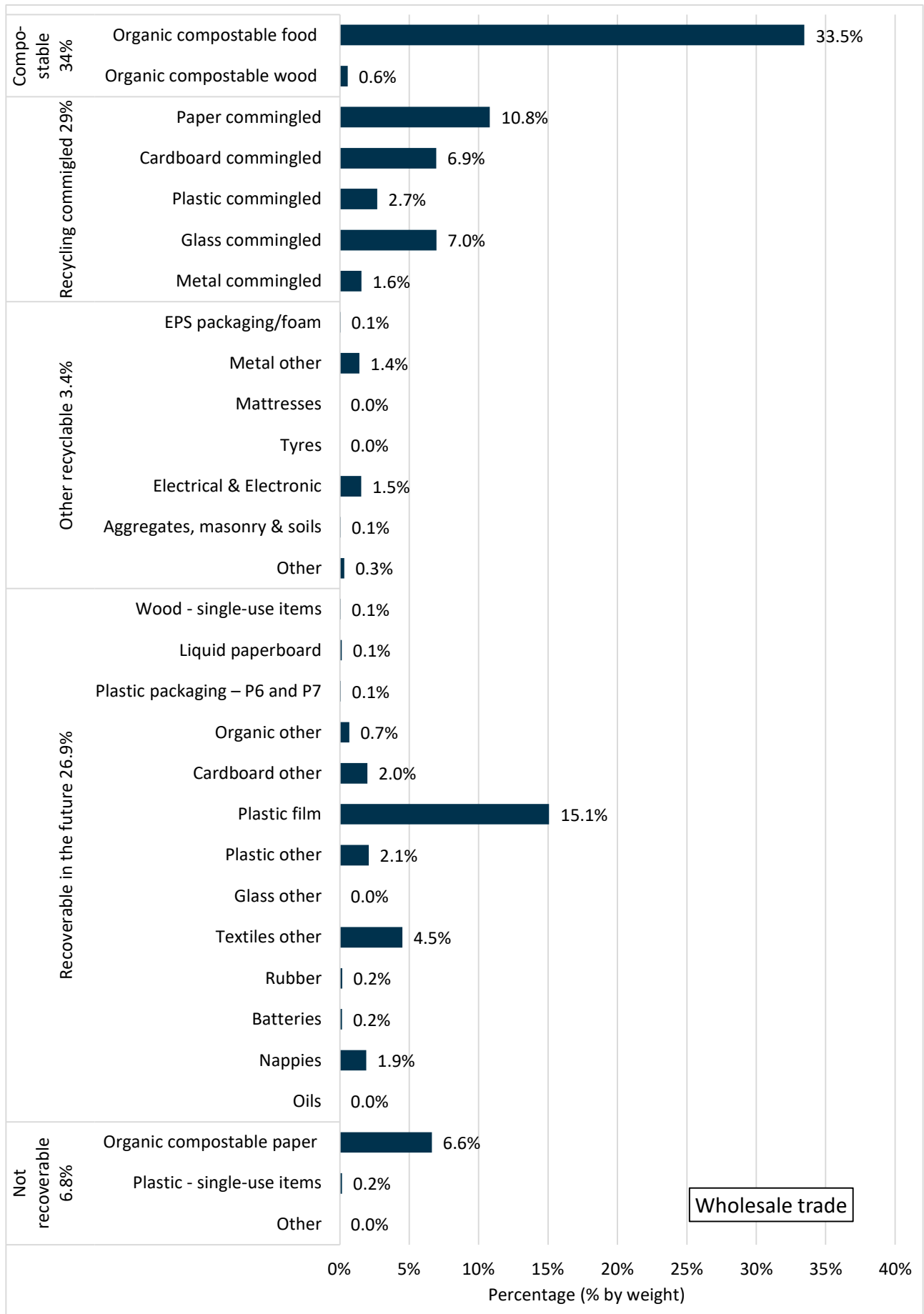
- Most material recoverable now is organic compostable food, paper and other recycling commingled, electrical and electronic and metal other respectively.
- Most material recoverable in the future is plastic film, textiles other, plastic other, cardboard other and nappies respectively.

**Table 65 Wholesale trade – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	33.46
Organic compostable wood	0.57
Paper commingled	10.81
Cardboard commingled	6.94
Plastic commingled	2.69
Glass commingled	6.96
Metal commingled	1.56
EPS packaging/foam	0.05
Metal other	1.41
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	1.54
Aggregates, masonry & soils	0.06
Other ^	0.32
<b>Sub-total: Recoverable now</b>	<b>66.37</b>
Wood – single-use items	0.06
Liquid paperboard	0.14
Plastic packaging – P6 and P7	0.07
Organic other	0.69
Cardboard other	1.98
Plastic film	15.08
Plastic other	2.09
Glass other	0.00
Textiles other	4.51
Rubber	0.18
Batteries	0.15
Nappies	1.90
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>26.85</b>
Organic compostable paper	6.62
Plastic single-use items	0.16
Other	0.00
<b>Sub-total: Not recoverable</b>	<b>6.78</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 32 Wholesale trade – recoverability detailed composition**



Wholesale trade

### 5.3.4. Focus material: degradable organic content (DOC)

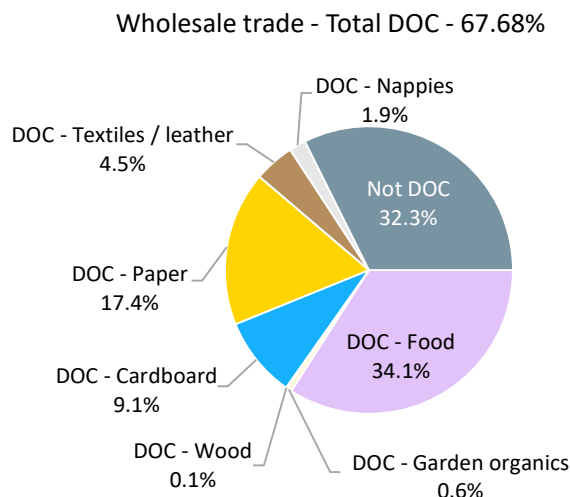
Table 66 provides the DOC in garbage bags from the wholesale trade sector, as defined in Table 3. Figure 33 shows the data graphically. The garbage bag contents were 67.7% DOC, with the top three materials in this order:

- DOC – food organics 34.1%;
- DOC – paper 17.4%; and
- DOC – cardboard 9.1%.

**Table 66 Wholesale trade – focus material – DOC**

DOC type	Overall
DOC – food	34.07
DOC – garden organics	0.57
DOC – wood	0.14
DOC – cardboard	9.06
DOC – paper	17.43
DOC – textiles and leather	4.51
DOC – nappies	1.90
<b>Sub-total – DOC content</b>	<b>67.68</b>
Other waste	32.32
<b>Total</b>	<b>100.0</b>

**Figure 33 Wholesale trade – focus material – DOC**



### 5.3.5. Focus material: packaging material

Table 67 provides the packaging material content in garbage bags from the wholesale trade sector, as defined in Table 3. Figure 34 shows the data graphically.

The garbage bag contents were 26.2% packaging material, with the top three materials in this order:

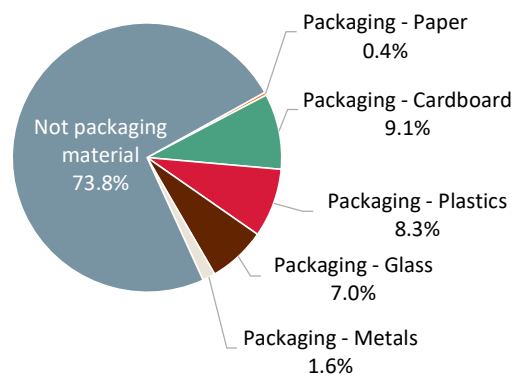
- Packaging – cardboard 9.1%.
- Packaging – plastics 8.3%; and
- Packaging – glass 7.0%.

**Table 67 Wholesale trade – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.38
Packaging - Cardboard	9.06
Packaging - Plastics	8.26
Packaging - Glass	6.96
Packaging - Metals	1.56
<b>Sub-total – packaging material</b>	<b>26.22</b>
Other waste	73.78
<b>Total</b>	<b>100.00</b>

**Figure 34 Wholesale trade – focus material – packaging material**

Wholesale trade - Total Packaging - 26.22%



### 5.3.6. Focus material: food organics

Table 68 provides the food organics content in garbage bags from the wholesale trade sector, as defined in Table 3. Figure 35 shows the data graphically.

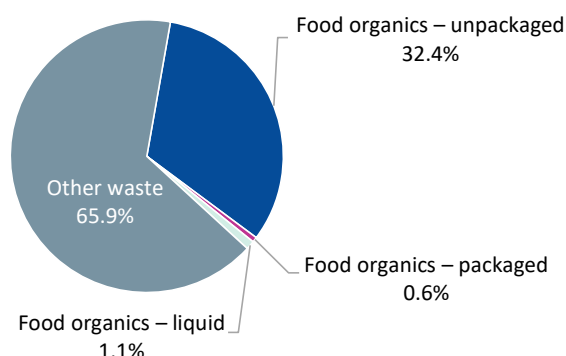
The data shows that approximately 34.1% of garbage bag contents is food organics; with 32.4% unpackaged food and 1.7% packaged food including cooking oil or other liquid.

**Table 68 Wholesale trade – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	32.40
Food organics – packaged	0.61
Food organics – liquid	1.06
<b>Sub-total – food organics</b>	<b>34.07</b>
Other waste	65.93
<b>Total</b>	<b>100.00</b>

**Figure 35 Wholesale trade – focus material – food organics**

Wholesale trade - Total Food organics - 34.07%



### 5.3.7. Focus material: textiles and leather

Approximately 5% of garbage bag contents from the wholesale trade sector is textiles and leather. Table 69 provides the types of textiles and leather content in garbage bags from the wholesale trade sector and Figure 36 shows the data graphically.

The data shows that the main types were:

- Textiles synthetic textiles, 58.6%;
- Textiles mixed fibres, 21.2%; and
- Leather mixed fibres, 18.8%.

**Table 69 Wholesale trade – focus material – textiles and leather**

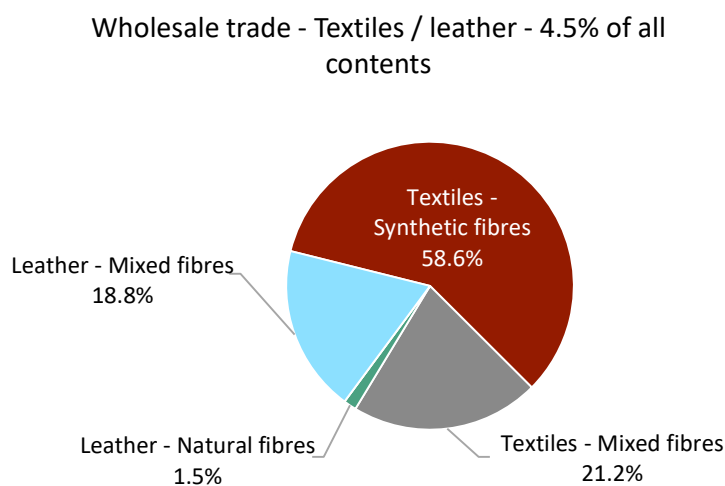
Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.00	0.00
Natural fibres	Textiles	Clothing - unwearable	0.00	0.00
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.00	0.00
Natural fibres	Textiles	Towels	0.00	0.00
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>0.00</b>	<b>0.00</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.07	1.46
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.07</b>	<b>1.46</b>
<b>Sub-total: Natural fibres</b>			<b>0.07</b>	<b>1.46</b>
Synthetic fibres	Textiles	Nappies - cloth	0.02	0.35
Synthetic fibres	Textiles	Clothing - wearable	0.00	0.00
Synthetic fibres	Textiles	Clothing - unwearable	0.09	2.10
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	1.62	36.04
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.91	20.12
<b>Sub-total: Textiles</b>			<b>2.64</b>	<b>58.61</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>2.64</b>	<b>58.61</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.00	0.00



Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.13	2.91
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.09	1.90
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.74	16.35
<b>Sub-total: Textiles</b>			<b>0.96</b>	<b>21.16</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.84	18.77
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.84</b>	<b>18.77</b>
<b>Sub-total: Mixed fibres</b>			<b>1.80</b>	<b>39.93</b>
<b>Total</b>			<b>4.51</b>	<b>100.00</b>

Figure 36 Wholesale trade – focus material – textiles and leather



### 5.3.8. Focus material: CDS containers

Approximately 7.1% of garbage bag contents from the wholesale trade sector is CDS containers. Table 70 provides the CDS containers in garbage bags from the wholesale trade sector, as defined in Table 3.

The data shows:

- By weight, glass was the most, followed by PET and aluminium.
- By count, glass was the most, followed by aluminium and PET.

**Table 70 Wholesale trade – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.40	5.69	18	19.57
HDPE (P2)	0.09	1.28	3	3.26
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	6.14	86.87	40	43.48
Steel	0.10	1.47	2	2.17
Aluminum	0.32	4.57	28	30.43
Liquid Paperboard	0.01	0.12	1	1.09
<b>Total</b>	<b>7.06</b>	<b>100.00</b>	<b>92</b>	<b>100.00</b>

### 5.3.9. Focus material: other beverage containers

Approximately 0.4% of garbage bag contents from the wholesale trade sector is other beverage containers. Table 71 provides the other beverage containers content in garbage bags from the wholesale trade sector, as defined in Table 3.

The data shows that 4 out of 7 were HDPE non-CDS beverage containers.

**Table 71 Wholesale trade – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.08	2	28.57
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.21	4	57.14
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.00	0	0.00
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.12	1	14.29
<b>Total</b>		<b>0.41</b>	<b>7</b>	<b>100.00</b>

### 5.3.10. Focus material: single-use items

Table 72 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 79.1% of total single-use items.
- Followed by compostable coffee cups at 13.3% of total single-use items.

**Table 72 Wholesale trade – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.06	0.70
Cardboard	Coffee cups - compostable	1.09	13.31
Cardboard	Coffee cups - non-compostable	0.28	3.37
Cardboard	Other cups	0.03	0.40
Paper	Single-use items	6.50	79.06
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.00	0.02
Plastic	PS/EPS cups	0.02	0.27
Plastic	PS/EPS coffee cup lids	0.14	1.75
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.06	0.75
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.03	0.37
<b>Total</b>		<b>8.21</b>	<b>100.00</b>

## 5.4. Food retailing

### 5.4.1. Composition using all sorting categories

Table 73 provides the detailed composition of garbage bags from the food retailing sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 73 Food retailing – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	20.506
S-2	Food organics - packaged	5.174
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	0.877
S-5	Garden organics	0.234
S-6	Organics - other putrescible	0.000
S-7	Wood/untreated - single-use items	0.442
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	3.340
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.409
S-21	Cardboard wet - packaging	0.909
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.315
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.000
S-26	Cardboard - disposable - coffee cups - compostable	0.090
S-27	Cardboard - disposable - coffee cups - non-compostable	0.541
S-28	Cardboard - disposable - other cups	0.465
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.507
S-31	Paper - brochures and leaflets	0.000
S-32	Paper - books	0.000

	Sorting category	Percentage by weight
S-33	Paper - printing/writing (other office)	3.108
S-34	Paper - other packaging	0.755
S-35	Paper - newsprint	0.176
S-36	Paper - brown kraft paper	0.000
S-37	Paper - rolls of low grade	0.132
S-38	Paper - hand towels	3.490
S-39	Paper - single-use items	10.837
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	4.758
S-41	Plastic - PET beverage containers (P1) - CDS	0.631
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.000
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.026
S-46	Plastic - PET packaging (excl beverage containers) (P1)	2.757
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.027
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.033
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.012
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.608
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.852
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.065
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.033
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.171
S-58	Plastic - LDPE packaging (P4)	0.000
S-59	Plastic - LDPE non-packaging (P4)	1.449
S-60	Plastic - PP packaging (P5)	4.670
S-61	Plastic - PP non-packaging (P5) - cups	0.071
S-62	Plastic - PP non-packaging (P5) - other	0.292
S-63	Plastic - PS packaging (P6)	0.039
S-64	Plastic - EPS packaging containers (P6)	0.000
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.000
S-68	Plastic - PS/EPS - cups	0.009
S-69	Plastic - PS/EPS - coffee cup lids	0.166
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000
S-72	Plastic - EPS - plates / bowls	0.000

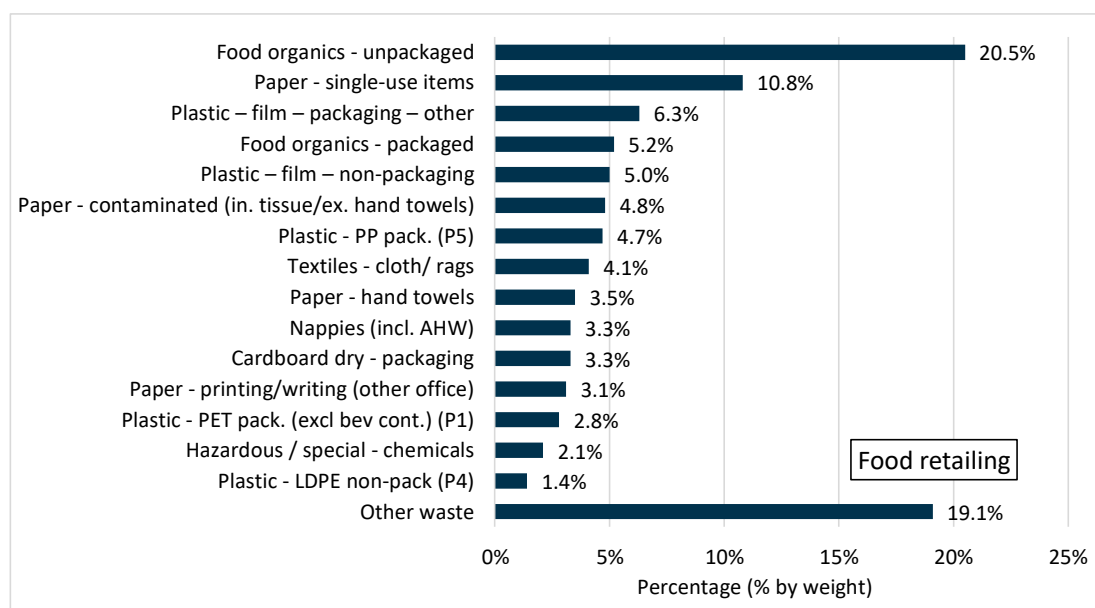
	Sorting category	Percentage by weight
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.191
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	1.027
S-77	Plastic – film – packaging – single use HDPE bags	0.521
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.418
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	6.291
S-81	Plastic – film – non-packaging	4.952
S-82	Plastic - polystyrene foam (EPS)	0.088
S-83	Plastic - other	0.461
S-84	Glass - containers beverage - CDS	0.389
S-85	Glass - containers beverage-not CDS-wine/champagne	0.711
S-86	Glass - containers beverage-not CDS-spirits	1.025
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.000
S-94	Glass - containers (fines)	0.362
S-95	Glass - plate / non-packaging (other glass)	0.083
S-96	Metal (ferrous) - packaging beverage - CDS	0.011
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.343
S-99	Metal (ferrous) - packaging non-beverage	0.124
S-100	Metal (ferrous) - non-packaging	0.106
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.165
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.333
S-104	Metal (non-ferrous) - packaging non-beverage	1.009
S-105	Metal (non-ferrous) - non-packaging	0.064
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	4.137
S-109	Leather	0.788
S-110	Rubber - tyres, tubes	0.000
S-111	Rubber - other	0.469

	Sorting category	Percentage by weight
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.273
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.272
S-124	C&D - rock/dirt/soil	0.000
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.007
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	2.052
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.000
S-139	Hazardous / special - personal care with microbeads	0.250
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.078
S-144	Liquid paperboard (cardboard) - NOT CDS	0.341
S-145	Liquid paperboard (cardboard) - other packaging	0.336
S-146	Nappies (incl. AHW)	3.347
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.000
	<b>Total</b>	<b>100.000</b>

Figure 37 shows the top 15 materials. The top 15 materials in garbage bags from the food retailing sector were:

- Food organics – unpackaged
- Paper – single-use items
- Plastic – film – packaging – other
- Food organics – packaged
- Plastic – film – non-packaging
- Paper – contaminated (incl. tissue/excl. hand towels)
- Plastic – PP packaging (P5)
- Textiles – cloth/ rags
- Paper – hand towels
- Nappies (incl. AHW)
- Cardboard dry – packaging
- Paper – printing / writing (other office)
- Plastic – PET packaging (excl. beverage containers) (P1)
- Hazardous / special – chemicals
- Plastic – LDPE non-packaging (P4)

**Figure 37 Food retailing – top 15 materials**



## 5.4.2. Composition using visual audit categories

### Consolidated composition

Table 74 shows the composition of garbage bags from the food retailing sector using the consolidated visual audit categories.

The results show:

- Paper and cardboard occupied most of the garbage bag contents at 30.6%.
- Followed by organics (27.2%) and plastics (25.9%).
- These materials made up approximately 85% of garbage bag contents.



**Table 74 Food retailing – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	30.61
Electrical & Electronic	0.28
Organics	27.23
Glass	2.56
Aggregates, Masonry & Soils	0.27
Metals	2.14
Plastics	25.86
Rubber	0.47
Textiles & Leather	4.93
Nappies	3.35
Hazardous	2.30
Other	0.00
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 75 shows the composition of garbage bags from the food retailing sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 75 Food retailing – detailed composition – visual categories**

Visual category	Percentage by weight
V-1 A, M & soils – concrete, bricks & asphalt	0.000
V-2 A, M & soils – plasterboard	0.000
V-3 A, M & soils – soil, clay & rubble	0.000
V-4 A, M & soils – other	0.272
V-5 E&E – batteries	0.007
V-6 E&E – computers and peripherals	0.000
V-7 E&E – TVs	0.000
V-8 E&E – whitegoods	0.000
V-9 E&E – photovoltaic systems	0.000
V-10 E&E – other	0.273
V-11 Glass – non-packaging	0.083
V-12 Glass – packaging	2.487
V-13 Metal – ferrous – non-packaging	0.106
V-14 Metal – ferrous – packaging	0.478
V-15 Metal – aluminium – non-packaging	0.064
V-16 Metal – aluminium – packaging	1.507
V-17 Food organics – unpackaged	20.506
V-18 Food organics – packaged	5.174
V-19 Food organics – liquid	0.877

	Visual category	Percentage by weight
V-20	Garden organics	0.234
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.442
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	3.655
V-30	Cardboard – wet	0.909
V-31	Cardboard – wet strength/waxed	2.260
V-32	Paper – recyclable	14.628
V-33	Paper – non-recyclable	8.248
V-34	Paper – packaging	0.887
V-35	Plastic – EPS foam	0.088
V-36	Plastic – film packaging	7.230
V-37	Plastic – other	8.658
V-38	Plastic – rigid packaging	9.884
V-39	Rubber – other	0.469
V-40	Rubber – tyres	0.000
V-41	Leather	0.788
V-42	Textiles – cloth & rags	4.137
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	2.052
V-49	Hazardous – Clinical	0.250
V-50	Other waste	3.347
	<b>Total</b>	<b>100.000</b>

### 5.4.3. Recoverability of materials in garbage bags

Table 76 provides the consolidated recoverability composition for garbage bags from the food retailing sector. Figure 38 shows the results graphically. The data shows that 58.7% of materials in garbage bags were recoverable now and 32.7% was recoverable in the future.

**Table 76 Food retailing – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	58.67
Recoverable in the future	32.65
Not recoverable	8.68
<b>Total</b>	<b>100.00</b>

**Figure 38 Food retailing – recoverability consolidated composition**

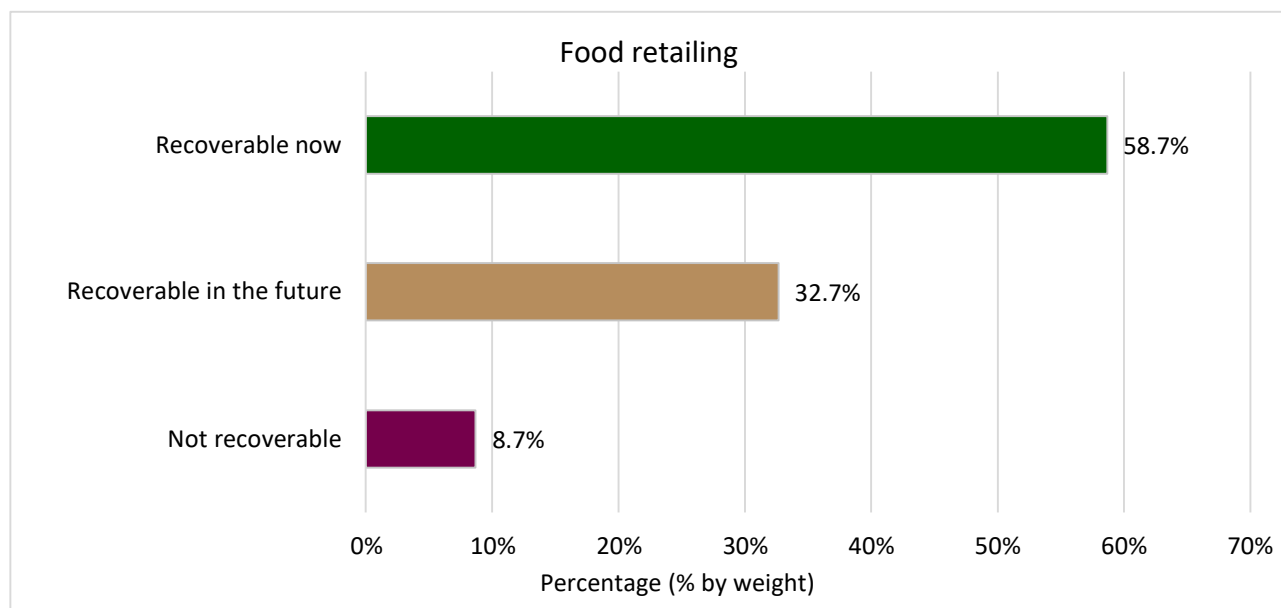


Table 77 provides the detailed recoverability of materials in garbage bags from the food retailing sector and Figure 39 shows the data graphically. The data shows that:

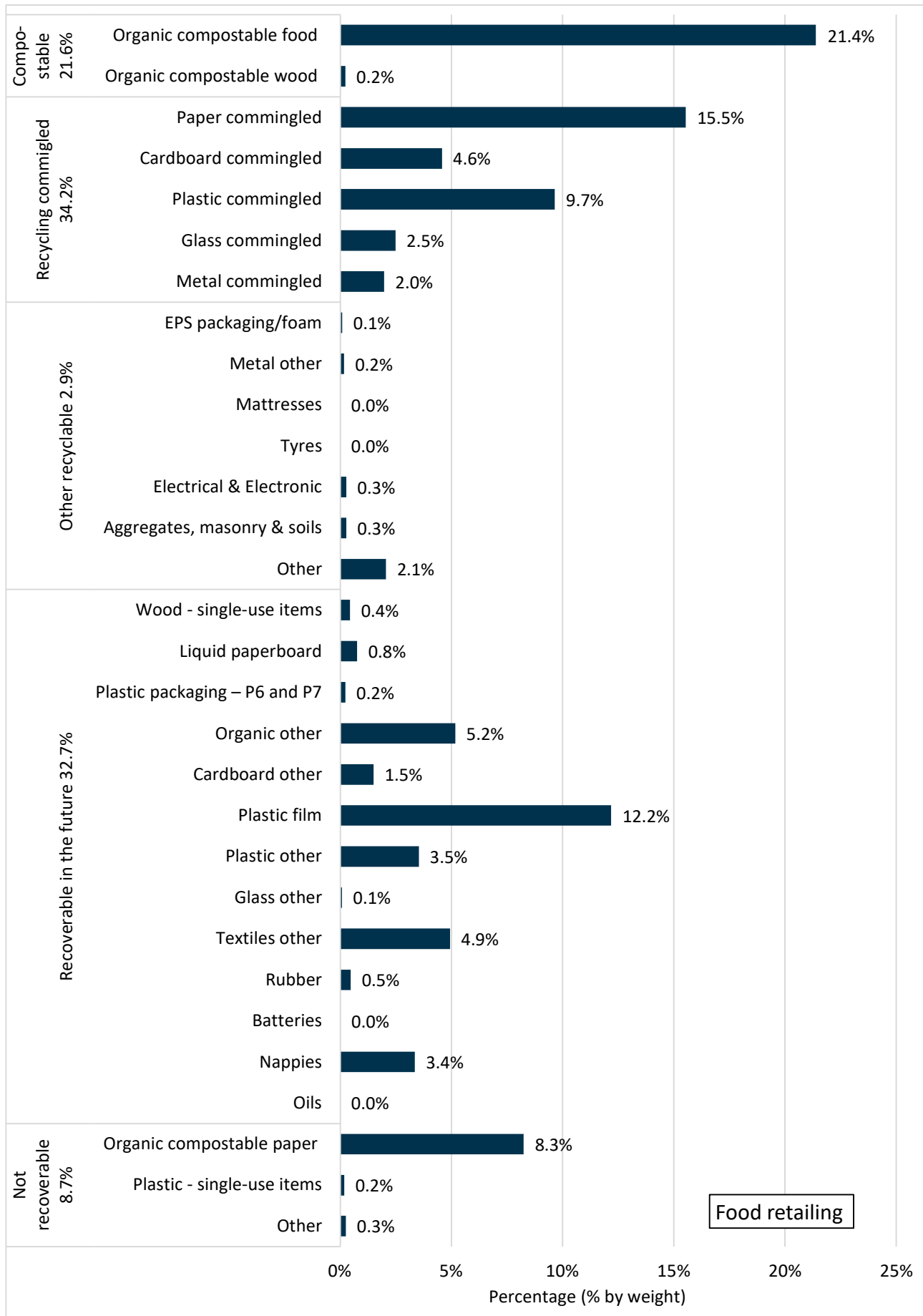
- Most materials recoverable now is organic compostable food, paper and plastic commingled and other recycling commingled, other (i.e., gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint) respectively.
- Most materials recoverable in the future is plastic film, organic other, textiles other, plastic other, nappies and cardboard other respectively.

**Table 77 Food retailing – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	21.39
Organic compostable wood	0.23
Paper commingled	15.53
Cardboard commingled	4.57
Plastic commingled	9.65
Glass commingled	2.48
Metal commingled	1.97
EPS packaging/foam	0.09
Metal other	0.17
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.27
Aggregates, masonry & soils	0.27
Other ^	2.05
<b>Sub-total: Recoverable now</b>	<b>58.67</b>
Wood – single-use items	0.44
Liquid paperboard	0.76
Plastic packaging – P6 and P7	0.23
Organic other	5.17
Cardboard other	1.50
Plastic film	12.18
Plastic other	3.53
Glass other	0.08
Textiles other	4.93
Rubber	0.47
Batteries	0.01
Nappies	3.35
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>32.65</b>
Organic compostable paper	8.25
Plastic single-use items	0.18
Other	0.25
<b>Sub-total: Not recoverable</b>	<b>8.68</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 39 Food retailing – recoverability detailed composition**



## 5.4.4. Focus material: degradable organic content (DOC)

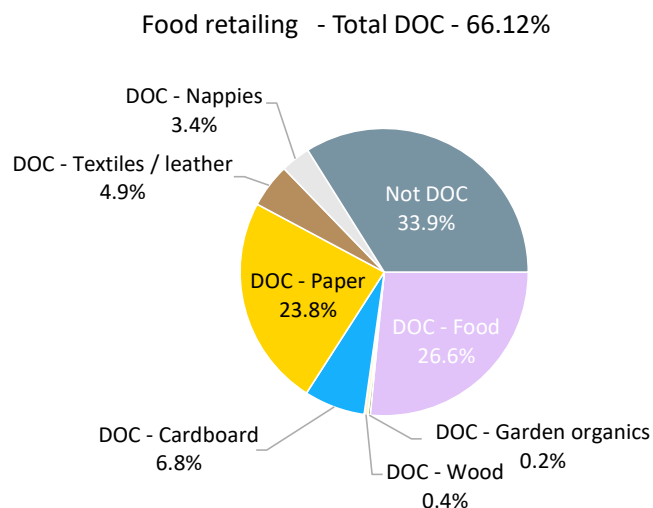
Table 78 provides the DOC in garbage bags from the food retailing sector, as defined in Table 3. Figure 40 shows the data graphically. The garbage bag contents were 66.1% DOC, with the top three materials in this order:

- DOC – food 26.6%;
- DOC – paper 23.8%; and
- DOC – cardboard 6.8%.

**Table 78 Food retailing – focus material – DOC**

DOC type	Overall
DOC – food	26.56
DOC – garden organics	0.23
DOC – wood	0.44
DOC – cardboard	6.83
DOC – paper	23.78
DOC – textiles and leather	4.93
DOC – nappies	3.35
<b>Sub-total – DOC content</b>	<b>66.12</b>
Other waste	33.88
<b>Total</b>	<b>100.0</b>

**Figure 40 Food retailing – focus material – DOC**



## 5.4.5. Focus material: packaging material

Table 79 provides the packaging material content in garbage bags from the food retailing sector, as defined in Table 3. Figure 41 shows the data graphically.

The garbage bag contents were 29.2% packaging material, with the top three materials in this order:

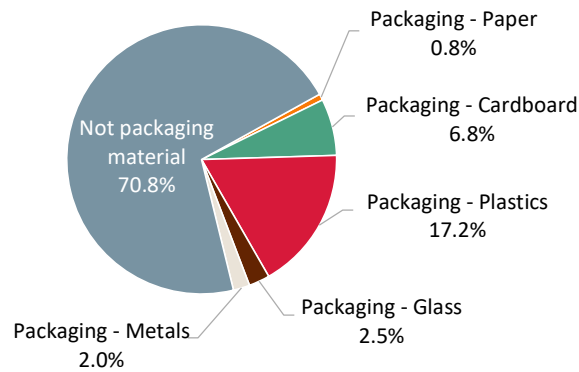
- Packaging – plastics 17.2%.
- Packaging – cardboard 6.8%; and
- Packaging – glass 2.5%.

**Table 79 Food retailing – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.76
Packaging - Cardboard	6.83
Packaging - Plastics	17.20
Packaging - Glass	2.48
Packaging - Metals	1.97
<b>Sub-total – packaging material</b>	<b>29.24</b>
Other waste	70.76
<b>Total</b>	<b>100.00</b>

**Figure 41 Food retailing – focus material – packaging material**

Food retailing - Total Packaging - 29.24%



### 5.4.6. Focus material: food organics

Table 80 provides the food organics content in garbage bags from the food retailing sector, as defined in Table 3. Figure 42 shows the data graphically.

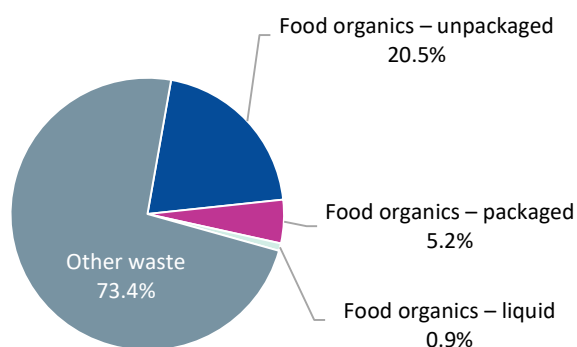
The data shows that approximately 26.6% of garbage bag contents is food organics; with 20.5% unpackaged food and 6.0% packaged food including cooking oil or other liquid.

**Table 80 Food retailing – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	20.51
Food organics – packaged	5.17
Food organics – liquid	0.88
<b>Sub-total – food organics</b>	<b>26.56</b>
Other waste	73.44
<b>Total</b>	<b>100.00</b>

**Figure 42 Food retailing – focus material – food organics**

Food retailing - Total Food organics - 26.56%



### 5.4.7. Focus material: textiles and leather

Approximately 5% of garbage bag contents from the food retailing sector is textiles and leather. Table 81 provides the types of textiles and leather content in garbage bags from the food retailing sector and Figure 43 shows the data graphically.

The data shows that the main types were:

- Textiles synthetic textiles, 56.9%;
- Textiles natural fibres, 20.0%; and
- Leather natural fibres, 16.0%.

**Table 81 Food retailing – focus material – textiles and leather**

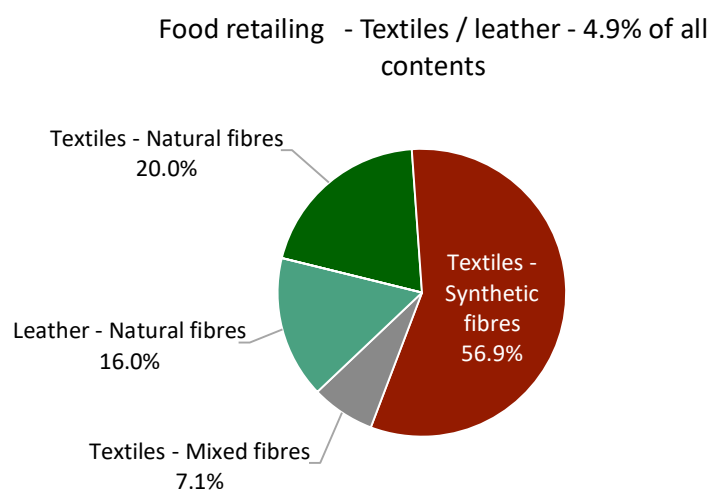
Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.17	3.45
Natural fibres	Textiles	Clothing - unwearable	0.00	0.00
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.00	0.00
Natural fibres	Textiles	Towels	0.00	0.00
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.06	1.22
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.75	15.31
<b>Sub-total: Textiles</b>			<b>0.98</b>	<b>19.98</b>



Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.79	16.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.79</b>	<b>16.00</b>
<b>Sub-total: Natural fibres</b>			<b>1.77</b>	<b>35.98</b>
Synthetic fibres	Textiles	Nappies - cloth	0.01	0.20
Synthetic fibres	Textiles	Clothing - wearable	0.95	19.23
Synthetic fibres	Textiles	Clothing - unwearable	0.03	0.68
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.14	2.73
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	1.54	31.28
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.14	2.78
<b>Sub-total: Textiles</b>			<b>2.81</b>	<b>56.90</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>2.81</b>	<b>56.90</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.33	6.72

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.00	0.00
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.02	0.32
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.00	0.08
<b>Sub-total: Textiles</b>			<b>0.35</b>	<b>7.12</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Mixed fibres</b>			<b>0.35</b>	<b>7.12</b>
<b>Total</b>			<b>4.93</b>	<b>100.00</b>

Figure 43 Food retailing – focus material – textiles and leather



## 5.4.8. Focus material: CDS containers

Approximately 1.3% of garbage bag contents from the food retailing sector is CDS containers. Table 82 provides the CDS containers content in garbage bags from the food retailing sector, as defined in Table 3.

The data shows:

- By weight, PET was the most, followed by glass and aluminium.
- By count, PET was the most, followed by aluminium and liquid paperboard.

**Table 82 Food retailing – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.63	49.09	43	56.58
HDPE (P2)	0.01	0.93	1	1.32
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.39	30.29	3	3.95
Steel	0.01	0.84	1	1.31
Aluminum	0.16	12.80	20	26.31
Liquid Paperboard	0.08	6.05	8	10.53
<b>Total</b>	<b>1.28</b>	<b>100.00</b>	<b>76</b>	<b>100.00</b>

## 5.4.9. Focus material: other beverage containers

Approximately 2.3% of garbage bag contents from the food retailing sector is other beverage containers. Table 83 provides the Other beverage containers content in garbage bags from the food retailing sector, as defined in Table 3.

The data shows that HDPE beverage containers was the most, followed by wine / champagne and spirits bottles.

**Table 83 Food retailing – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.00	0	0.00
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.61	16	53.33
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.71	11	36.67
Glass	Spirits	1.02	3	10.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00
Glass	Cordial	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>2.34</b>	<b>30</b>	<b>100.00</b>

### 5.4.10. Focus material: single-use items

Table 84 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 80.3% of total single-use items.
- Followed by non-compostable coffee cups (4.0% of total single-use items) and HDPE bags (3.9% of total single-use items).

**Table 84 Food retailing – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.44	3.28
Cardboard	Coffee cups - compostable	0.09	0.66
Cardboard	Coffee cups - non-compostable	0.54	4.01
Cardboard	Other cups	0.46	3.45
Paper	Single-use items	10.84	80.33
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.00	0.00
Plastic	PS/EPS cups	0.01	0.07
Plastic	PS/EPS coffee cup lids	0.17	1.23
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.52	3.87
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.42	3.10
<b>Total</b>		<b>13.49</b>	<b>100.00</b>

## 5.5. Other store retailing

### 5.5.1. Composition using all sorting categories

Table 85 provides the detailed composition of garbage bags from the other store retailing sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 85 Other store retailing – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	19.126
S-2	Food organics - packaged	1.332
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	0.859
S-5	Garden organics	3.390
S-6	Organics - other putrescible	0.689
S-7	Wood/untreated - single-use items	0.088
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.036
S-14	Wood/treated/painted - pallets	0.010
S-15	Wood/treated/painted - furniture	0.284
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.002
S-18	Cardboard dry - packaging	2.161
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.300
S-21	Cardboard wet - packaging	0.694
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.514
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	1.375
S-26	Cardboard - disposable - coffee cups - compostable	0.561
S-27	Cardboard - disposable - coffee cups - non-compostable	0.738
S-28	Cardboard - disposable - other cups	0.085
S-29	Paper - photocopy paper	0.044
S-30	Paper - magazines / catalogues	1.043
S-31	Paper - brochures and leaflets	0.004

	Sorting category	Percentage by weight
S-32	Paper - books	2.942
S-33	Paper - printing/writing (other office)	4.068
S-34	Paper - other packaging	0.494
S-35	Paper - newsprint	0.045
S-36	Paper - brown kraft paper	0.014
S-37	Paper - rolls of low grade	0.074
S-38	Paper - hand towels	3.708
S-39	Paper - single-use items	3.823
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	3.883
S-41	Plastic - PET beverage containers (P1) - CDS	0.954
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.022
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.009
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.008
S-46	Plastic - PET packaging (excl beverage containers) (P1)	0.687
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.040
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.001
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.144
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.647
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.308
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.054
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.036
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.070
S-58	Plastic - LDPE packaging (P4)	0.000
S-59	Plastic - LDPE non-packaging (P4)	4.160
S-60	Plastic - PP packaging (P5)	1.362
S-61	Plastic - PP non-packaging (P5) - cups	0.066
S-62	Plastic - PP non-packaging (P5) - other	0.381
S-63	Plastic - PS packaging (P6)	0.158
S-64	Plastic - EPS packaging containers (P6)	0.029
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.003
S-67	Plastic - PS/EPS - cutlery	0.017
S-68	Plastic - PS/EPS - cups	0.003
S-69	Plastic - PS/EPS - coffee cup lids	0.136
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000

	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.000
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.024
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.540
S-77	Plastic – film – packaging – single use HDPE bags	0.218
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.106
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	6.414
S-81	Plastic – film – non-packaging	4.846
S-82	Plastic - polystyrene foam (EPS)	0.145
S-83	Plastic - other	1.518
S-84	Glass - containers beverage - CDS	0.347
S-85	Glass - containers beverage-not CDS-wine/champagne	0.407
S-86	Glass - containers beverage-not CDS-spirits	0.066
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.590
S-94	Glass - containers (fines)	0.000
S-95	Glass - plate / non-packaging (other glass)	0.056
S-96	Metal (ferrous) - packaging beverage - CDS	0.020
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	1.139
S-100	Metal (ferrous) - non-packaging	0.909
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.392
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.096
S-104	Metal (non-ferrous) - packaging non-beverage	0.062
S-105	Metal (non-ferrous) - non-packaging	0.317
S-106	Textiles - carpet and underlay	0.032
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	4.553
S-109	Leather	0.000
S-110	Rubber - tyres, tubes	0.000

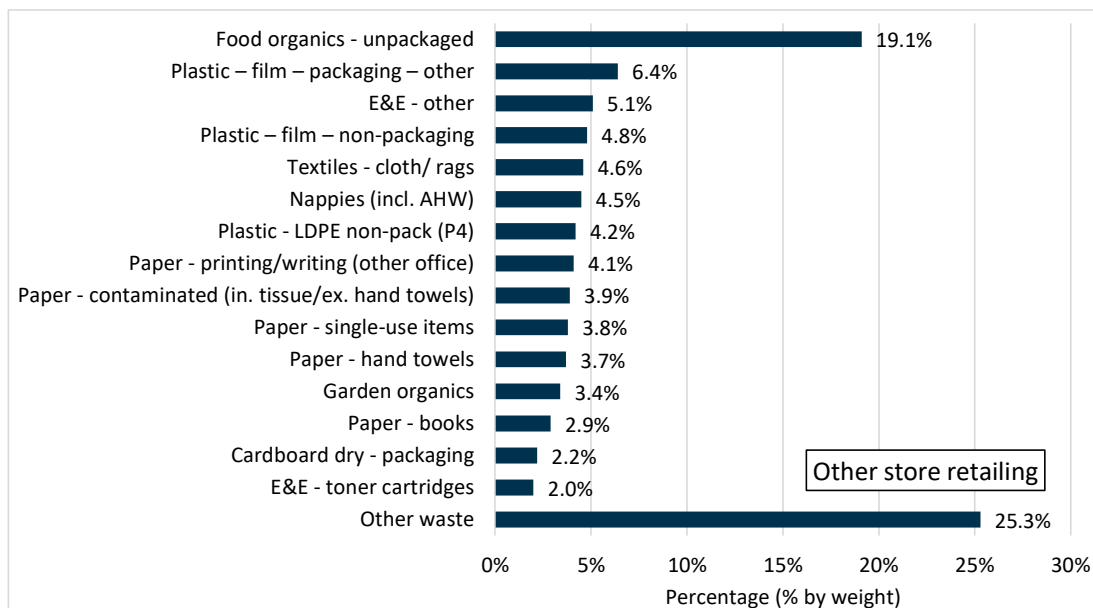
	Sorting category	Percentage by weight
S-111	Rubber - other	1.185
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.016
S-115	E&E - toner cartridges	2.033
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	5.148
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.392
S-124	C&D - rock/dirt/soil	0.434
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.039
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.246
S-135	Hazardous / special - paint	0.213
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.340
S-139	Hazardous / special - personal care with microbeads	0.303
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.103
S-144	Liquid paperboard (cardboard) - NOT CDS	0.136
S-145	Liquid paperboard (cardboard) - other packaging	0.269
S-146	Nappies (incl. AHW)	4.485
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.180
	<b>Total</b>	<b>100.000</b>



Figure 44 shows the top 15 materials. The top 15 materials in garbage bags from the other store retailing sector were:

- Food organics – unpackaged
- Plastic – film – packaging – other
- E&E – other
- Plastic – film – non-packaging
- Textiles – cloth/ rags
- Nappies (incl. AHW)
- Plastic – LDPE non-packaging (P4)
- Paper – printing / writing (other office)
- Paper – contaminated (incl. tissue/excl. hand towels)
- Paper – single-use items
- Paper – hand towels
- Garden organics
- Paper – books
- Cardboard dry – packaging
- E&E – toner cartridges

**Figure 44 Other store retailing – top 15 materials**



## 5.5.2. Composition using visual audit categories

### Consolidated composition

Table 86 shows the composition of garbage bags from the other store retailing sector using the consolidated visual audit categories.

The results show:

- Paper and cardboard occupied most of the garbage bag contents by weight at 27.1%.
- Followed by organics (25.8%), plastics (23.1%) and electrical and electronic (7.2%).
- These materials made up approximately 85% of garbage bag contents.

**Table 86 Other store retailing – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	27.05
Electrical & Electronic	7.24
Organics	25.82
Glass	1.48
Aggregates, Masonry & Soils	0.82
Metals	2.94
Plastics	23.12
Rubber	1.18
Textiles & Leather	4.58
Nappies	4.49
Hazardous	1.10
Other	0.18
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 87 shows the composition of garbage bags from the other store retailing sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 87 Other store retailing – detailed composition – visual categories**

Visual category	Percentage by weight
V-1 A, M & soils – concrete, bricks & asphalt	0.000
V-2 A, M & soils – plasterboard	0.000
V-3 A, M & soils – soil, clay & rubble	0.434
V-4 A, M & soils – other	0.392
V-5 E&E – batteries	0.039
V-6 E&E – computers and peripherals	0.000
V-7 E&E – TVs	0.000
V-8 E&E – whitegoods	0.000
V-9 E&E – photovoltaic systems	0.000
V-10 E&E – other	7.197
V-11 Glass – non-packaging	0.056
V-12 Glass – packaging	1.410
V-13 Metal – ferrous – non-packaging	0.909
V-14 Metal – ferrous – packaging	1.159
V-15 Metal – aluminium – non-packaging	0.317
V-16 Metal – aluminium – packaging	0.550
V-17 Food organics – unpackaged	19.126
V-18 Food organics – packaged	1.332
V-19 Food organics – liquid	0.859

	Visual category	Percentage by weight
V-20	Garden organics	4.079
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.038
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.284
V-25	Wood – treated – pallets	0.010
V-26	Wood – untreated	0.088
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	2.675
V-30	Cardboard – wet	0.694
V-31	Cardboard – wet strength/waxed	3.567
V-32	Paper – recyclable	11.969
V-33	Paper – non-recyclable	7.591
V-34	Paper – packaging	0.582
V-35	Plastic – EPS foam	0.145
V-36	Plastic – film packaging	6.738
V-37	Plastic – other	11.781
V-38	Plastic – rigid packaging	4.442
V-39	Rubber – other	1.185
V-40	Rubber – tyres	0.000
V-41	Leather	0.000
V-42	Textiles – cloth & rags	4.553
V-43	Textiles – carpet & underlay	0.032
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.459
V-49	Hazardous – Clinical	0.643
V-50	Other waste	4.665
	<b>Total</b>	<b>100.000</b>

### 5.5.3. Recoverability of materials in garbage bags

Table 88 provides the consolidated recoverability composition for garbage bags from the other store retailing sector. Figure 45 shows the results graphically. The data shows that 57.2% of materials in garbage bags were recoverable now and 34.2% was recoverable in the future.

**Table 88 Other store retailing – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	57.21
Recoverable in the future	34.22
Not recoverable	8.57
<b>Total</b>	<b>100.00</b>

**Figure 45 Other store retailing – recoverability consolidated composition**

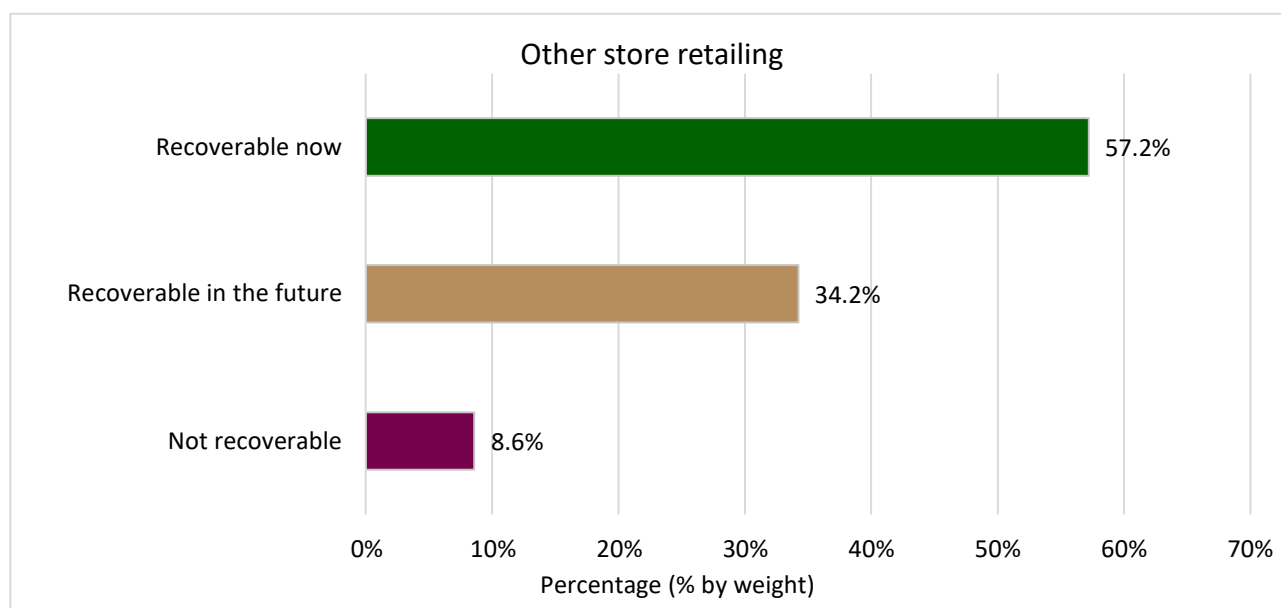


Table 89 provides the detailed recoverability of materials in garbage bags from the other store retailing sector and Figure 46 shows the data graphically. The data shows that:

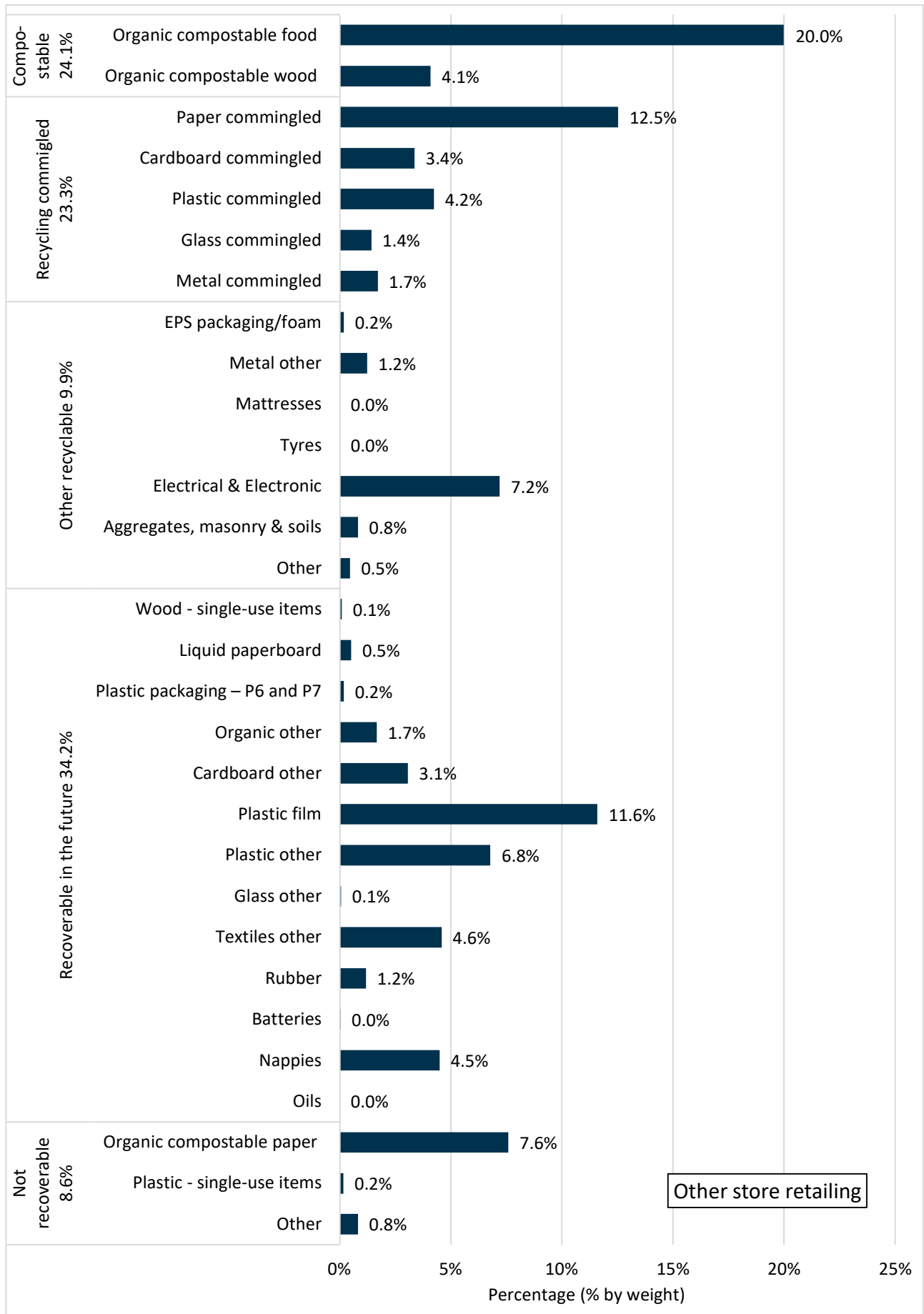
- Most material recoverable now is organic compostable food, paper commingled and other recycling commingled, electrical and electronic, organic compostable wood and met other respectively.
- Most material recoverable in the future is plastic film, plastic other, textiles other, nappies, cardboard other, organics ither and rubber respectively.

**Table 89 Other store retailing – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	19.99
Organic compostable wood	4.08
Paper commingled	12.53
Cardboard commingled	3.36
Plastic commingled	4.23
Glass commingled	1.42
Metal commingled	1.71
EPS packaging/foam	0.18
Metal other	1.23
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	7.20
Aggregates, masonry & soils	0.82
Other ^	0.46
<b>Sub-total: Recoverable now</b>	<b>57.21</b>
Wood – single-use items	0.09
Liquid paperboard	0.51
Plastic packaging – P6 and P7	0.18
Organic other	1.66
Cardboard other	3.06
Plastic film	11.59
Plastic other	6.78
Glass other	0.06
Textiles other	4.58
Rubber	1.18
Batteries	0.04
Nappies	4.49
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>34.22</b>
Organic compostable paper	7.59
Plastic single-use items	0.16
Other	0.82
<b>Sub-total: Not recoverable</b>	<b>8.57</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 46 Other store retailing – recoverability detailed composition**



Other store retailing

## 5.5.4. Focus material: degradable organic content (DOC)

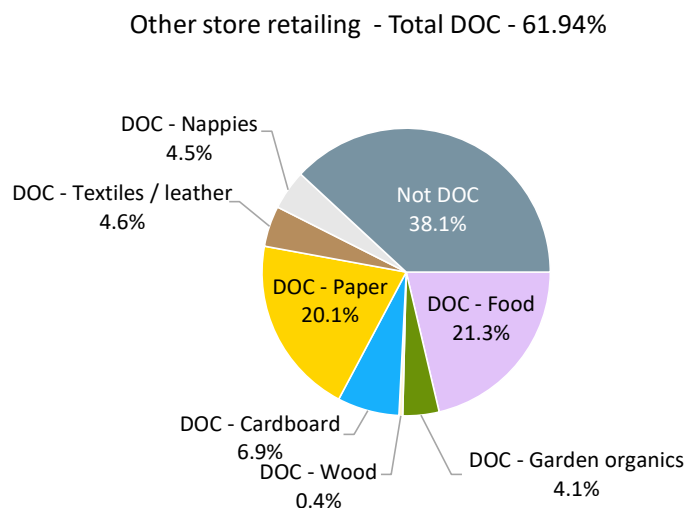
Table 90 provides the DOC in garbage bags from the other store retailing sector, as defined in Table 3. Figure 47 shows the data graphically. The garbage bag contents were 62% DOC, with the top three materials in this order:

- DOC – food organics 21.3%;
- DOC – paper 20.1%; and
- DOC – cardboard 6.9%.

**Table 90 Other store retailing – focus material – DOC**

DOC type	Overall
DOC – food	21.32
DOC – garden organics	4.08
DOC – wood	0.42
DOC – cardboard	6.93
DOC – paper	20.12
DOC – textiles and leather	4.58
DOC – nappies	4.49
<b>Sub-total – DOC content</b>	<b>61.94</b>
Other waste	38.06
<b>Total</b>	<b>100.0</b>

**Figure 47 Other store retailing – focus material – DOC**



## 5.5.5. Focus material: packaging material

Table 91 provides the packaging material content in garbage bags from the other store retailing sector, as defined in Table 3. Figure 48 shows the data graphically.

The garbage bag contents were 22% packaging material, with the top three materials in this order:

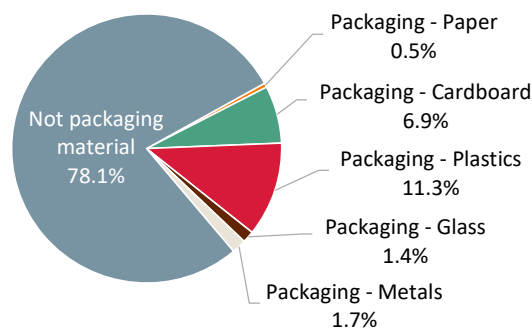
- Packaging – plastics 11.3%.
- Packaging – cardboard 6.9%; and
- Packaging – metals 1.7%.

**Table 91 Other store retailing – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.76
Packaging - Cardboard	6.83
Packaging - Plastics	17.20
Packaging - Glass	2.48
Packaging - Metals	1.97
<b>Sub-total – packaging material</b>	<b>29.24</b>
Other waste	70.76
<b>Total</b>	<b>100.00</b>

**Figure 48 Other store retailing – focus material – packaging material**

Other store retailing - Total Packaging - 21.89%



### 5.5.6. Focus material: food organics

Table 92 provides the food organics content in garbage bags from the other store retailing sector, as defined in Table 3. Figure 49 shows the data graphically.

The data shows that approximately 21.3% of garbage bag contents is food organics; with 19.1% unpackaged food and 2.2% packaged food including cooking oil or other liquid.

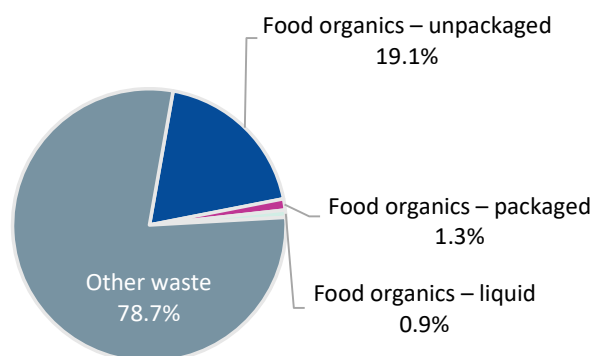
**Table 92 Other store retailing – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	19.13
Food organics – packaged	1.33
Food organics – liquid	0.86
<b>Sub-total – food organics</b>	<b>21.32</b>
Other waste	78.68
<b>Total</b>	<b>100.00</b>



**Figure 49 Other store retailing – focus material – food organics**

Other store retailing - Total Food organics - 21.32%



### 5.5.7. Focus material: textiles and leather

Approximately 5% of garbage bag contents from the other store retailing sector is textiles and leather. Table 93 provides the types of textiles and leather content in garbage bags from the other store retailing sector and Figure 50 shows the data graphically.

The data shows that the main types were:

- Textiles natural textiles, 54.0%;
- Textiles mixed fibres, 27.8%; and
- Textiles synthetic fibres, 18.2%.

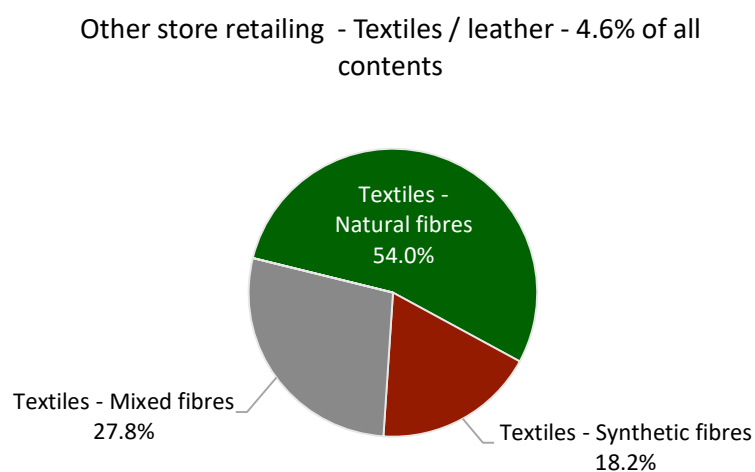
**Table 93 Other store retailing – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.35	7.62
Natural fibres	Textiles	Clothing - unwearable	0.20	4.36
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	1.56	34.38
Natural fibres	Textiles	Towels	0.27	5.84
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.06	1.34
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.02	0.48
<b>Sub-total: Textiles</b>			<b>2.46</b>	<b>54.02</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>2.46</b>	<b>54.02</b>
Synthetic fibres	Textiles	Nappies - cloth	0.02	0.38
Synthetic fibres	Textiles	Clothing - wearable	0.00	0.00
Synthetic fibres	Textiles	Clothing - unwearable	0.04	0.98
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.02	0.34
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.43	9.45
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.32	7.00
<b>Sub-total: Textiles</b>			<b>0.83</b>	<b>18.15</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>0.83</b>	<b>18.15</b>
Mixed fibres	Textiles	Nappies - cloth	0.01	0.32
Mixed fibres	Textiles	Clothing - wearable	0.16	3.50

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.24	5.21
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.15	3.32
Mixed fibres	Textiles	Towels	0.06	1.24
Mixed fibres	Textiles	Tableware	0.09	2.11
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.29	6.34
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.26	5.79
<b>Sub-total: Textiles</b>			<b>1.26</b>	<b>27.83</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Mixed fibres</b>			<b>1.26</b>	<b>27.83</b>
<b>Total</b>			<b>4.55</b>	<b>100.00</b>

Figure 50 Other store retailing – focus material – textiles and leather



## 5.5.8. Focus material: CDS containers

Approximately 2.0% of garbage bag contents from the other store retailing sector is CDS containers. Table 94 provides the CDS containers content in garbage bags from the other store retailing sector, as defined in Table 3.

The data shows:

- By weight, PET was the most, followed by aluminium and glass.
- By count, PET was the most, followed by aluminium and liquid paperboard.

**Table 94 Other store retailing – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.95	48.68	139	47.12
HDPE (P2)	0.14	7.35	15	5.09
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.35	17.70	8	2.71
Steel	0.02	1.04	6	2.03
Aluminum	0.39	19.98	105	35.59
Liquid Paperboard	0.10	5.25	22	7.46
<b>Total</b>	<b>1.95</b>	<b>100.00</b>	<b>295</b>	<b>100.00</b>

## 5.5.9. Focus material: other beverage containers

Approximately 1.2% of garbage bag contents from the other store retailing sector is other beverage containers. Table 95 provides the other beverage containers content in garbage bags from the other store retailing sector, as defined in Table 3.

The data shows that 49 out of 58 (85.5%) other beverage containers was HDPE beverage containers, followed by wine / champagne bottles and PET fruit & vegetable juice (>1-3L) bottles.

**Table 95 Other store retailing – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.02	2	3.45
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.01	1	1.72
HDPE (P2)	-	0.65	49	84.49
PVC (P3)	Cordial	0.05	1	1.72
Glass	Wine/champagne	0.41	4	6.90
Glass	Spirits	0.07	1	1.72
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>1.21</b>	<b>58</b>	<b>100.00</b>

### 5.5.10. Focus material: single-use items

Table 96 provides the percentage of each single-use items type in garbage bags of all contents and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 66.2% of total single-use items.
- Followed by non-compostable coffee cups (12.8% of total single-use items) and compostable coffee cups (9.7% of total single-use items).

**Table 96 Other store retailing – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.09	1.52
Cardboard	Coffee cups - compostable	0.56	9.71
Cardboard	Coffee cups - non-compostable	0.74	12.77
Cardboard	Other cups	0.08	1.47
Paper	Single-use items	3.82	66.19
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.05
Plastic	PS/EPS cutlery	0.02	0.29
Plastic	PS/EPS cups	0.00	0.04
Plastic	PS/EPS coffee cup lids	0.14	2.35
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.22	3.78
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.11	1.83
<b>Total</b>		<b>5.78</b>	<b>100.00</b>

## 5.6. Accommodation

### 5.6.1. Composition using all sorting categories

Table 97 provides the detailed composition of garbage bags from the accommodation sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 97 Accommodation – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	16.769
S-2	Food organics - packaged	3.733
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	2.796
S-5	Garden organics	0.233
S-6	Organics - other putrescible	2.002
S-7	Wood/untreated - single-use items	0.206
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.047
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.391
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	4.242
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.000
S-21	Cardboard wet - packaging	0.637
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.446
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.000
S-26	Cardboard - disposable - coffee cups - compostable	0.284
S-27	Cardboard - disposable - coffee cups - non-compostable	0.688
S-28	Cardboard - disposable - other cups	0.042
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.573
S-31	Paper - brochures and leaflets	0.012
S-32	Paper - books	1.267

	Sorting category	Percentage by weight
S-33	Paper - printing/writing (other office)	4.093
S-34	Paper - other packaging	0.761
S-35	Paper - newsprint	0.932
S-36	Paper - brown kraft paper	0.000
S-37	Paper - rolls of low grade	0.019
S-38	Paper - hand towels	2.526
S-39	Paper - single-use items	3.889
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	5.468
S-41	Plastic - PET beverage containers (P1) - CDS	1.660
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.098
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	0.904
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.031
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.006
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.000
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.598
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.803
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.024
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.063
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.187
S-58	Plastic - LDPE packaging (P4)	0.022
S-59	Plastic - LDPE non-packaging (P4)	0.363
S-60	Plastic - PP packaging (P5)	1.194
S-61	Plastic - PP non-packaging (P5) - cups	0.029
S-62	Plastic - PP non-packaging (P5) - other	0.228
S-63	Plastic - PS packaging (P6)	0.105
S-64	Plastic - EPS packaging containers (P6)	0.139
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.035
S-68	Plastic - PS/EPS - cups	0.000
S-69	Plastic - PS/EPS - coffee cup lids	0.578
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000
S-72	Plastic - EPS - plates / bowls	0.014

	Sorting category	Percentage by weight
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.000
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.089
S-77	Plastic – film – packaging – single use HDPE bags	0.085
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.207
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.040
S-80	Plastic – film – packaging – other	3.249
S-81	Plastic – film – non-packaging	4.595
S-82	Plastic - polystyrene foam (EPS)	0.088
S-83	Plastic - other	1.479
S-84	Glass - containers beverage - CDS	4.056
S-85	Glass - containers beverage-not CDS-wine/champagne	1.224
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.599
S-94	Glass - containers (fines)	0.135
S-95	Glass - plate / non-packaging (other glass)	0.000
S-96	Metal (ferrous) - packaging beverage - CDS	0.112
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	0.744
S-100	Metal (ferrous) - non-packaging	0.329
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.344
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	0.112
S-105	Metal (non-ferrous) - non-packaging	0.374
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	9.719
S-109	Leather	0.000
S-110	Rubber - tyres, tubes	0.000
S-111	Rubber - other	0.379

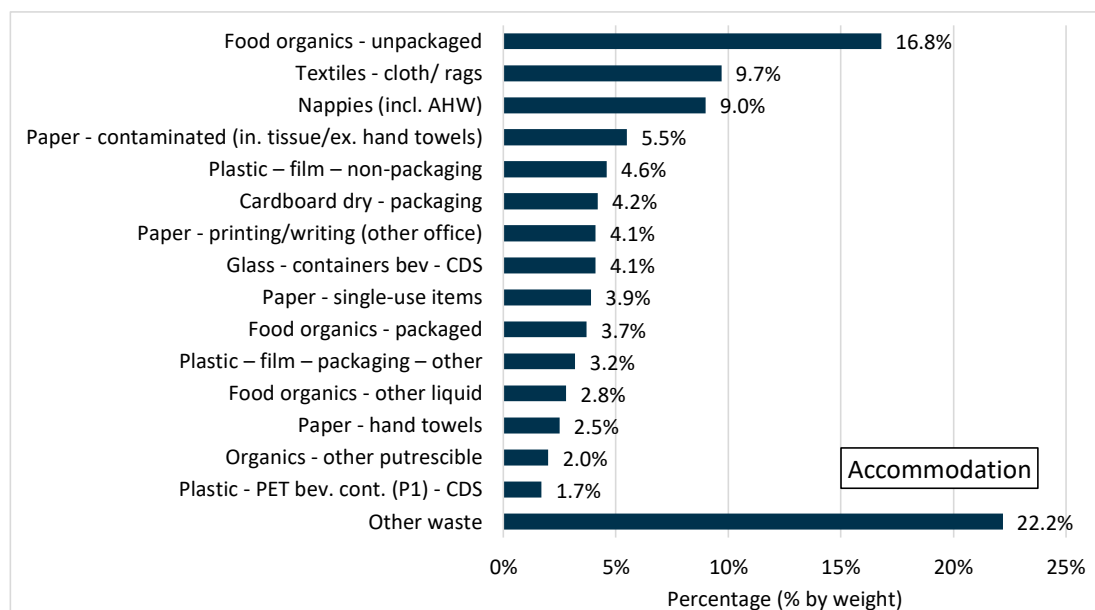


	Sorting category	Percentage by weight
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.013
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.710
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.370
S-124	C&D - rock/dirt/soil	0.409
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.000
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.197
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.004
S-139	Hazardous / special - personal care with microbeads	0.395
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.057
S-144	Liquid paperboard (cardboard) - NOT CDS	0.546
S-145	Liquid paperboard (cardboard) - other packaging	0.169
S-146	Nappies (incl. AHW)	9.026
S-147	Insulation	0.000
S-148	Other (specify in notes)	1.008
	<b>Total</b>	<b>100.000</b>

Figure 51 shows the top 15 materials. The top 15 materials in garbage bags from the accommodation sector were:

- Food organics – unpackaged
- Textiles – cloth/ rags
- Nappies (incl. AHW)
- Paper – contaminated (incl. tissue/excl. hand towels)
- Plastic – film – non-packaging
- Cardboard dry – packaging
- Paper – printing / writing (other office)
- Glass – beverage containers – CDS
- Paper – single-use items
- Food organics – packaged
- Plastic – film – packaging – other
- Food organics – other liquid
- Paper – hand towels
- Organics – other putrescible
- Plastic – PET beverage containers (P1) – CDS

**Figure 51 Accommodation – top 15 materials**



## 5.6.2. Composition using visual audit categories

### Consolidated composition

Table 98 shows the composition of garbage bags from the accommodation sector using the consolidated visual audit categories.

The results show:

- Paper and cardboard occupied most of the garbage bags by weight at 26.7%.
- Followed by organics (26.2%), plastics (16.9%), textiles and leather (9.7%) and nappies (9.0%).
- These materials made up approximately 90% of garbage bag contents.

**Table 98 Accommodation – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	26.66
Electrical & Electronic	0.72
Organics	26.18
Glass	6.02
Aggregates, Masonry & Soils	0.78
Metals	2.00
Plastics	16.91
Rubber	0.38
Textiles & Leather	9.72
Nappies	9.03
Hazardous	0.59
Other	1.01
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 99 shows the composition of garbage bags from the accommodation sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 99 Accommodation – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	0.409
V-4	A, M & soils – other	0.370
V-5	E&E – batteries	0.000
V-6	E&E – computers and peripherals	0.000
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.723
V-11	Glass – non-packaging	0.000
V-12	Glass – packaging	6.014
V-13	Metal – ferrous – non-packaging	0.329
V-14	Metal – ferrous – packaging	0.856
V-15	Metal – aluminium – non-packaging	0.374
V-16	Metal – aluminium – packaging	0.456
V-17	Food organics – unpackaged	16.769
V-18	Food organics – packaged	3.733
V-19	Food organics – liquid	2.796

	Visual category	Percentage by weight
V-20	Garden organics	2.235
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.047
V-24	Wood – treated – furniture	0.391
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.206
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	4.688
V-30	Cardboard – wet	0.637
V-31	Cardboard – wet strength/waxed	1.786
V-32	Paper – recyclable	10.766
V-33	Paper – non-recyclable	7.994
V-34	Paper – packaging	0.780
V-35	Plastic – EPS foam	0.088
V-36	Plastic – film packaging	3.581
V-37	Plastic – other	7.658
V-38	Plastic – rigid packaging	5.586
V-39	Rubber – other	0.379
V-40	Rubber – tyres	0.000
V-41	Leather	0.000
V-42	Textiles – cloth & rags	9.719
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.197
V-49	Hazardous – Clinical	0.399
V-50	Other waste	10.034
	<b>Total</b>	<b>100.000</b>

### 5.6.3. Recoverability of materials in garbage bags

Table 100 provides the consolidated recoverability composition for garbage bags from the accommodation sector. Figure 52 shows the results graphically. The data shows that 54.0% of materials in garbage bags were recoverable now and 36.0% was recoverable in the future.

**Table 100 Accommodation – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	53.95
Recoverable in the future	36.02
Not recoverable	10.03
<b>Total</b>	<b>100.00</b>

**Figure 52 Accommodation – recoverability consolidated composition**

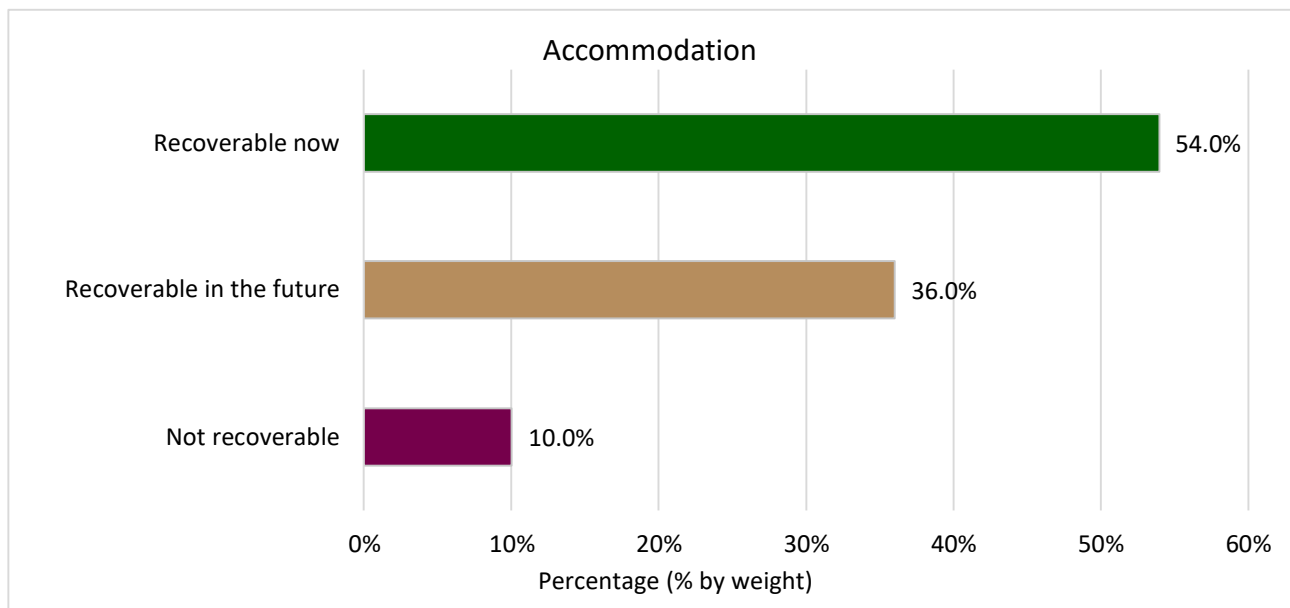


Table 101 provides the detailed recoverability of materials in garbage bags from the accommodation sector and Figure 53 shows the data graphically. The data shows that:

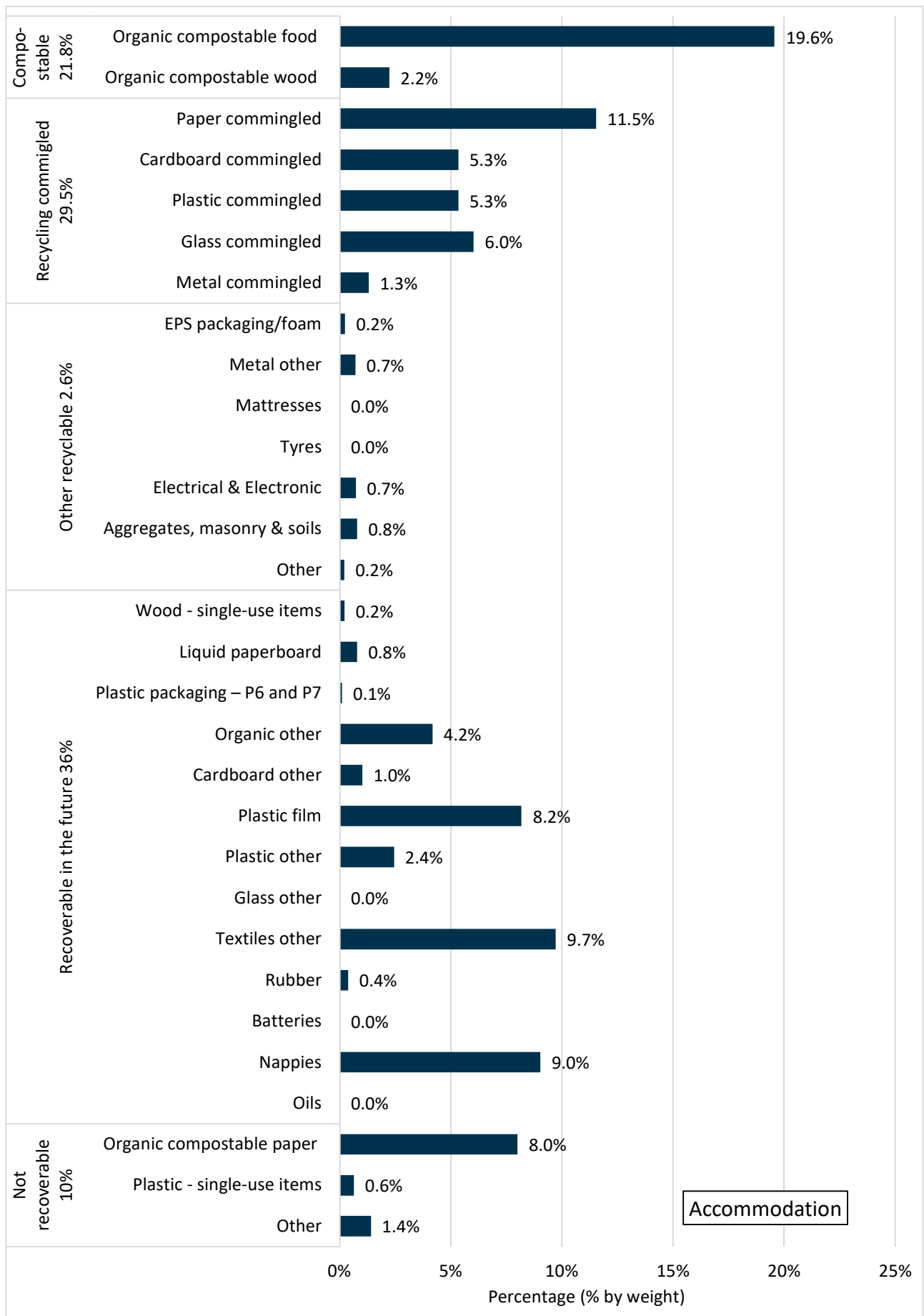
- Most material recoverable now is organic compostable food, paper and other recycling comingled and organic compostable wood respectively.
- Most material recoverable in the future is textiles other, nappies, plastic film, organic other, plastic other and cardboard other respectively.

**Table 101 Accommodation – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	19.57
Organic compostable wood	2.23
Paper commingled	11.54
Cardboard commingled	5.33
Plastic commingled	5.33
Glass commingled	6.02
Metal commingled	1.30
EPS packaging/foam	0.23
Metal other	0.70
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.72
Aggregates, masonry & soils	0.78
Other ^	0.20
<b>Sub-total: Recoverable now</b>	<b>53.95</b>
Wood – single-use items	0.21
Liquid paperboard	0.78
Plastic packaging – P6 and P7	0.10
Organic other	4.17
Cardboard other	1.01
Plastic film	8.18
Plastic other	2.44
Glass other	0.00
Textiles other	9.72
Rubber	0.38
Batteries	0.00
Nappies	9.03
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>36.02</b>
Organic compostable paper	8.00
Plastic single-use items	0.63
Other	1.40
<b>Sub-total: Not recoverable</b>	<b>10.03</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 53 Accommodation – recoverability detailed composition**



Accommodation

## 5.6.4. Focus material: degradable organic content (DOC)

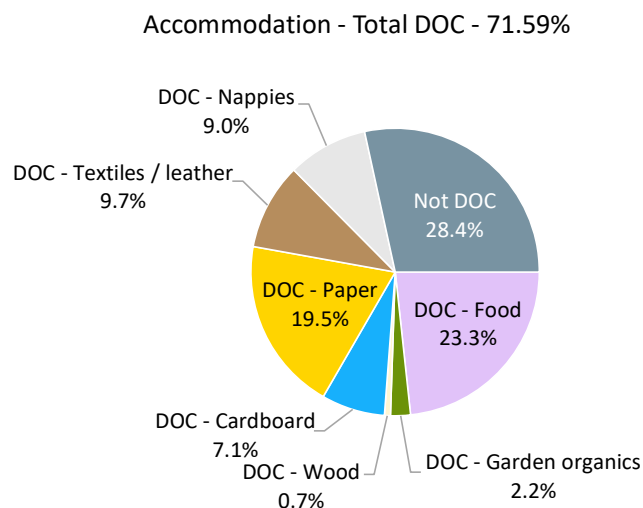
Table 102 provides the DOC in garbage bags from the accommodation sector, as defined in Table 3. Figure 54 shows the data graphically. The garbage bag contents were 71.6% DOC, with the top three materials in this order:

- DOC – food 23.3%;
- DOC – paper 19.5%; and
- DOC – textiles 9.7%.

**Table 102 Accommodation – focus material – DOC**

DOC type	Overall
DOC – food	23.30
DOC – garden organics	2.23
DOC – wood	0.65
DOC – cardboard	7.12
DOC – paper	19.54
DOC – textiles and leather	9.72
DOC – nappies	9.03
<b>Sub-total – DOC content</b>	<b>71.59</b>
Other waste	28.41
<b>Total</b>	<b>100.0</b>

**Figure 54 Accommodation – focus material – DOC**



## 5.6.5. Focus material: packaging material

Table 103 provides the packaging material content in garbage bags from the accommodation sector, as defined in Table 3. Figure 55 shows the data graphically.

The garbage bag contents were 24.4% packaging material, with the top three materials in this order:

- Packaging – plastics 9.2%.
- Packaging – cardboard 7.1%; and
- Packaging – glass 6.0%.

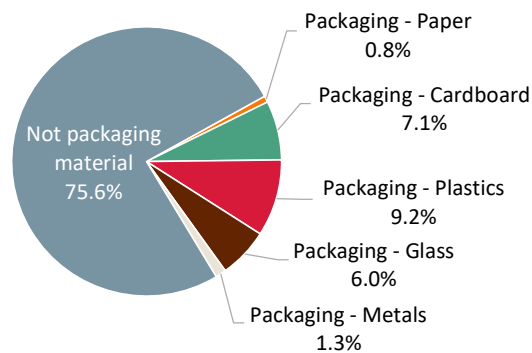


**Table 103 Accommodation – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.76
Packaging - Cardboard	7.12
Packaging - Plastics	9.24
Packaging - Glass	6.02
Packaging - Metals	1.30
<b>Sub-total – packaging material</b>	<b>24.44</b>
Other waste	75.56
<b>Total</b>	<b>100.00</b>

**Figure 55 Accommodation – focus material – packaging material**

Accommodation - Total Packaging - 24.44%



### 5.6.6. Focus material: food organics

Table 104 provides the food organics content in garbage bags from the accommodation sector, as defined in Table 3. Figure 56 shows the data graphically.

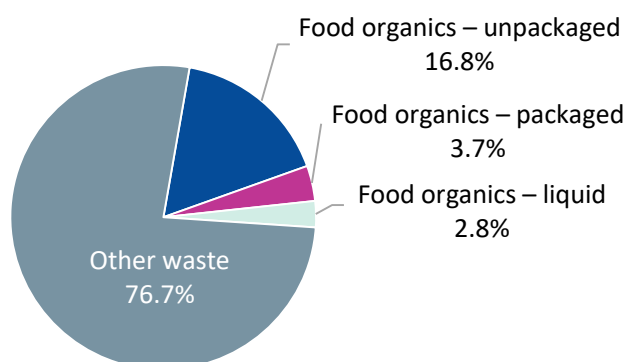
The data shows that approximately 23.3% of garbage bag contents is food organics; with 16.8% unpackaged food and 6.5% packaged food including cooking oil or other liquid.

**Table 104 Accommodation – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	16.77
Food organics – packaged	3.73
Food organics – liquid	2.80
<b>Sub-total – food organics</b>	<b>23.30</b>
Other waste	76.70
<b>Total</b>	<b>100.00</b>

**Figure 56 Accommodation – focus material – food organics**

Accommodation - Total Food organics - 23.3%



### 5.6.7. Focus material: textiles and leather

Approximately 10% of garbage bag contents from the accommodation sector is textiles and leather. Table 105 provides the types of textiles and leather content in garbage bags from the accommodation sector and Figure 57 shows the data graphically. The data shows that the main types were:

- Textiles mixed textiles, 60.5%;
- Textiles natural fibres, 25.8%; and
- Textiles synthetic fibres, 13.7%.

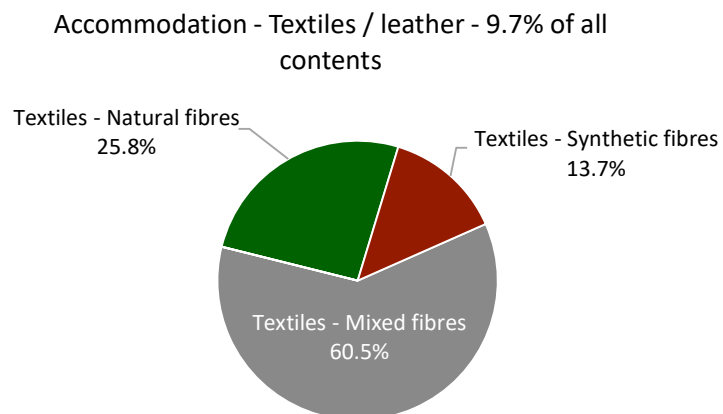
**Table 105 Accommodation – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.80	8.26
Natural fibres	Textiles	Clothing - unwearable	0.49	5.07
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.60	6.13
Natural fibres	Textiles	Towels	0.43	4.41
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.19	1.93

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
<b>Sub-total: Textiles</b>			<b>2.51</b>	<b>25.80</b>
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>2.51</b>	<b>25.80</b>
Synthetic fibres	Textiles	Nappies - cloth	0.00	0.00
Synthetic fibres	Textiles	Clothing - wearable	0.05	0.53
Synthetic fibres	Textiles	Clothing - unwearable	0.05	0.52
Synthetic fibres	Textiles	Shoes - wearable	0.20	2.09
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.06	0.62
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.50	5.17
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.46	4.77
<b>Sub-total: Textiles</b>			<b>1.32</b>	<b>13.70</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>1.32</b>	<b>13.70</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - wearable	1.54	15.87
Mixed fibres	Textiles	Clothing - unwearable	1.00	10.28
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	1.25	12.82
Mixed fibres	Textiles	Towels	0.17	1.73
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.51	5.20
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.04	0.39
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	1.38	14.21
<b>Sub-total: Textiles</b>			<b>5.89</b>	<b>60.50</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Mixed fibres</b>			<b>5.89</b>	<b>60.50</b>
<b>Total</b>			<b>9.72</b>	<b>100.00</b>

Figure 57 Accommodation – focus material – textiles and leather



## 5.6.8. Focus material: CDS containers

Approximately 6.2% of garbage bag contents from the accommodation sector is CDS containers. Table 106 provides the CDS containers content in garbage bags from the accommodation sector, as defined in Table 3.

The data shows:

- By weight, glass was the most, followed by PET and aluminium.
- By count, PET was the most, followed by aluminium and glass.

**Table 106 Accommodation – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	1.66	26.65	115	51.57
HDPE (P2)	0.00	0.00	0	0.00
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	4.06	65.11	36	16.14
Steel	0.11	1.81	16	7.18
Aluminum	0.34	5.52	48	21.52
Liquid Paperboard	0.06	0.91	8	3.59
<b>Total</b>	<b>6.23</b>	<b>100.00</b>	<b>223</b>	<b>100.00</b>

## 5.6.9. Focus material: other beverage containers

Approximately 1.9% of garbage bag contents from the accommodation sector is other beverage containers. Table 107 provides the other beverage containers content in garbage bags from the accommodation sector, as defined in Table 3.

The data shows that HDPE beverage containers was the most common, followed by wine / champagne bottles and PET fruit & vegetable juice >1-3L containers.

**Table 107 Accommodation – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.10	3	8.33
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.60	27	75.00
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	1.22	6	16.67
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>1.92</b>	<b>36</b>	<b>100.00</b>

### 5.6.10. Focus material: single-use items

Table 108 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 64.5% of total single-use items.
- Followed by non-compostable coffee cups (11.4% of total single-use items) and coffee cup lids (9.6% of total single-use items).

**Table 108 Accommodation – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.21	3.43
Cardboard	Coffee cups - compostable	0.28	4.72
Cardboard	Coffee cups - non-compostable	0.69	11.41
Cardboard	Other cups	0.04	0.69
Paper	Single-use items	3.89	64.51
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.04	0.58
Plastic	PS/EPS cups	0.00	0.00
Plastic	PS/EPS coffee cup lids	0.58	9.59
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.01	0.23
Plastic	Film – packaging – single use HDPE bags	0.08	1.41
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.21	3.43
<b>Total</b>		<b>6.03</b>	<b>100.00</b>

## 5.7. Cafes and restaurants

### 5.7.1. Composition using all sorting categories

Table 109 provides the detailed composition of garbage bags from the cafés and restaurants sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 109 Cafes and restaurants – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	35.266
S-2	Food organics - packaged	1.483
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	0.872
S-5	Garden organics	0.779
S-6	Organics - other putrescible	0.379
S-7	Wood/untreated - single-use items	0.497
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.038
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.001
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	2.367
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.062
S-21	Cardboard wet - packaging	0.959
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.227
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.345
S-26	Cardboard - disposable - coffee cups - compostable	0.928
S-27	Cardboard - disposable - coffee cups - non-compostable	1.075
S-28	Cardboard - disposable - other cups	0.190
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.040
S-31	Paper - brochures and leaflets	0.047

	Sorting category	Percentage by weight
S-32	Paper - books	0.000
S-33	Paper - printing/writing (other office)	1.760
S-34	Paper - other packaging	0.231
S-35	Paper - newsprint	0.164
S-36	Paper - brown kraft paper	0.042
S-37	Paper - rolls of low grade	0.237
S-38	Paper - hand towels	2.398
S-39	Paper - single-use items	5.467
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	6.136
S-41	Plastic - PET beverage containers (P1) - CDS	0.548
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.126
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.006
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.009
S-46	Plastic - PET packaging (excl beverage containers) (P1)	0.930
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.198
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.053
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.023
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	1.430
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.619
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.006
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.007
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.042
S-58	Plastic - LDPE packaging (P4)	0.020
S-59	Plastic - LDPE non-packaging (P4)	1.014
S-60	Plastic - PP packaging (P5)	2.300
S-61	Plastic - PP non-packaging (P5) - cups	0.142
S-62	Plastic - PP non-packaging (P5) - other	0.119
S-63	Plastic - PS packaging (P6)	0.051
S-64	Plastic - EPS packaging containers (P6)	0.004
S-65	Plastic - PS/EPS - straws	0.003
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.042
S-68	Plastic - PS/EPS - cups	0.046
S-69	Plastic - PS/EPS - coffee cup lids	0.300
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.011



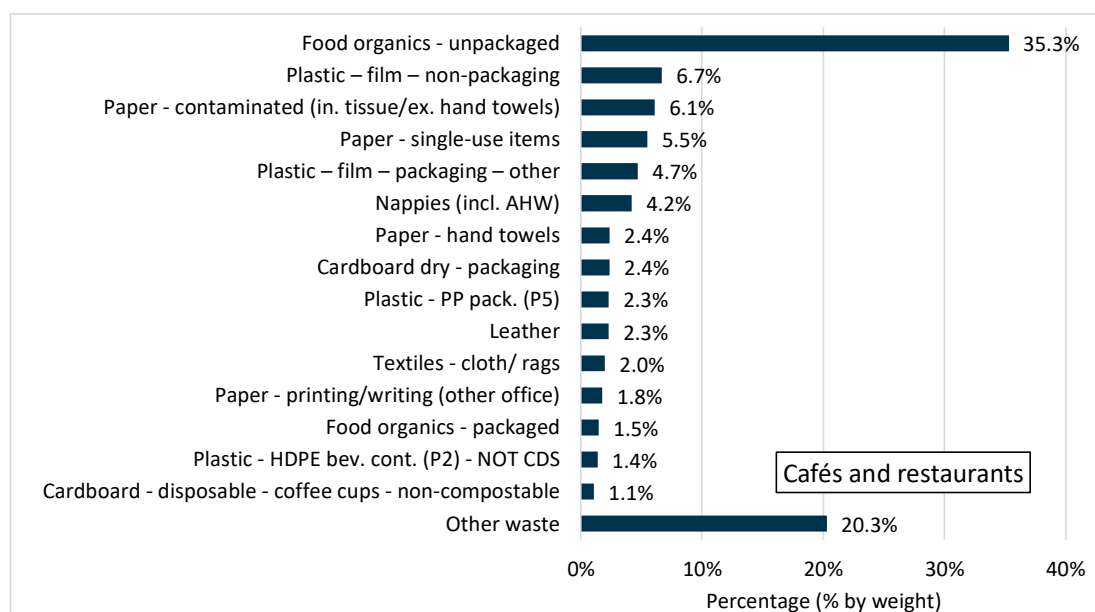
	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.000
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.042
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.036
S-77	Plastic – film – packaging – single use HDPE bags	0.418
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.045
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.038
S-80	Plastic – film – packaging – other	4.702
S-81	Plastic – film – non-packaging	6.651
S-82	Plastic - polystyrene foam (EPS)	0.142
S-83	Plastic - other	0.837
S-84	Glass - containers beverage - CDS	0.907
S-85	Glass - containers beverage-not CDS-wine/champagne	0.691
S-86	Glass - containers beverage-not CDS-spirits	0.135
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.541
S-94	Glass - containers (fines)	0.069
S-95	Glass - plate / non-packaging (other glass)	0.095
S-96	Metal (ferrous) - packaging beverage - CDS	0.036
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.016
S-99	Metal (ferrous) - packaging non-beverage	0.873
S-100	Metal (ferrous) - non-packaging	0.372
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.294
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	0.228
S-105	Metal (non-ferrous) - non-packaging	0.278
S-106	Textiles - carpet and underlay	0.173
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	1.991
S-109	Leather	2.263
S-110	Rubber - tyres, tubes	0.000

	Sorting category	Percentage by weight
S-111	Rubber - other	0.946
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.024
S-114	E&E - mobile phones	0.010
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.025
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.396
S-124	C&D - rock/dirt/soil	0.021
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.003
S-131	Hazardous / special - gas bottles	0.198
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.158
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.003
S-139	Hazardous / special - personal care with microbeads	0.011
S-140	Hazardous / special - clinical - sharps	0.122
S-141	Hazardous / special - clinical - other	0.107
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.077
S-144	Liquid paperboard (cardboard) - NOT CDS	0.984
S-145	Liquid paperboard (cardboard) - other packaging	0.753
S-146	Nappies (incl. AHW)	4.158
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.092
	<b>Total</b>	<b>100.000</b>

Figure 58 shows the top 15 materials. The top 15 materials in garbage bags from the cafés and restaurants sector were:

- Food organics – unpackaged
- Plastic – film – non-packaging
- Paper – contaminated (incl. tissue/excl. hand towels)
- Paper – single-use items
- Plastic – film – packaging – other
- Nappies (incl. AHW)
- Paper – hand towels
- Cardboard dry – packaging
- Plastic – PP packaging (P5)
- Leather
- Textiles – cloth / rags
- Paper – printing / writing (other office)
- Food organics – packaged
- Plastic – HDPE beverage container (P2) - NOT CDS
- Cardboard – disposable – coffee cups – non-compostable

**Figure 58 Cafes and restaurants – top 15 materials**



## 5.7.2. Composition using visual audit categories

### Consolidated composition

Table 110 shows the composition of garbage bags from the cafés and restaurants sector using the consolidated visual audit categories.

The results show:

- Organics occupied most of the garbage bag contents by weight at 39.3%.
- Followed by paper and cardboard (24.5%) and plastics (21.0%).
- These materials made up approximately 85% of garbage bag contents.

**Table 110 Cafes and restaurants – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	24.49
Electrical & Electronic	0.05
Organics	39.32
Glass	2.44
Aggregates, Masonry & Soils	0.42
Metals	2.10
Plastics	20.96
Rubber	0.95
Textiles & Leather	4.42
Nappies	4.16
Hazardous	0.60
Other	0.09
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 111 shows the composition of garbage bags from the cafés and restaurants sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 111 Cafes and restaurants – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	0.021
V-4	A, M & soils – other	0.396
V-5	E&E – batteries	0.003
V-6	E&E – computers and peripherals	0.024
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.035
V-11	Glass – non-packaging	0.095
V-12	Glass – packaging	2.343
V-13	Metal – ferrous – non-packaging	0.372
V-14	Metal – ferrous – packaging	0.925
V-15	Metal – aluminium – non-packaging	0.278
V-16	Metal – aluminium – packaging	0.522
V-17	Food organics – unpackaged	35.266
V-18	Food organics – packaged	1.483
V-19	Food organics – liquid	0.872

	Visual category	Percentage by weight
V-20	Garden organics	1.158
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.038
V-23	Wood – MDF & chipboard	0.001
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.497
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	2.594
V-30	Cardboard – wet	0.959
V-31	Cardboard – wet strength/waxed	4.414
V-32	Paper – recyclable	7.478
V-33	Paper – non-recyclable	8.534
V-34	Paper – packaging	0.510
V-35	Plastic – EPS foam	0.142
V-36	Plastic – film packaging	5.203
V-37	Plastic – other	9.500
V-38	Plastic – rigid packaging	6.115
V-39	Rubber – other	0.946
V-40	Rubber – tyres	0.000
V-41	Leather	2.263
V-42	Textiles – cloth & rags	1.991
V-43	Textiles – carpet & underlay	0.173
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.356
V-49	Hazardous – Clinical	0.243
V-50	Other waste	4.250
	<b>Total</b>	<b>100.000</b>

### 5.7.3. Recoverability of materials in garbage bags

Table 112 provides the consolidated recoverability composition for garbage bags from the cafés and restaurants sector. Figure 59 shows the results graphically. The data shows that 60.3% of materials in garbage bags were recoverable now and 30.4% was recoverable in the future.

**Table 112 Cafes and restaurants – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	60.30
Recoverable in the future	30.43
Not recoverable	9.27
<b>Total</b>	<b>100.00</b>

**Figure 59 Cafes and restaurants – recoverability consolidated composition**

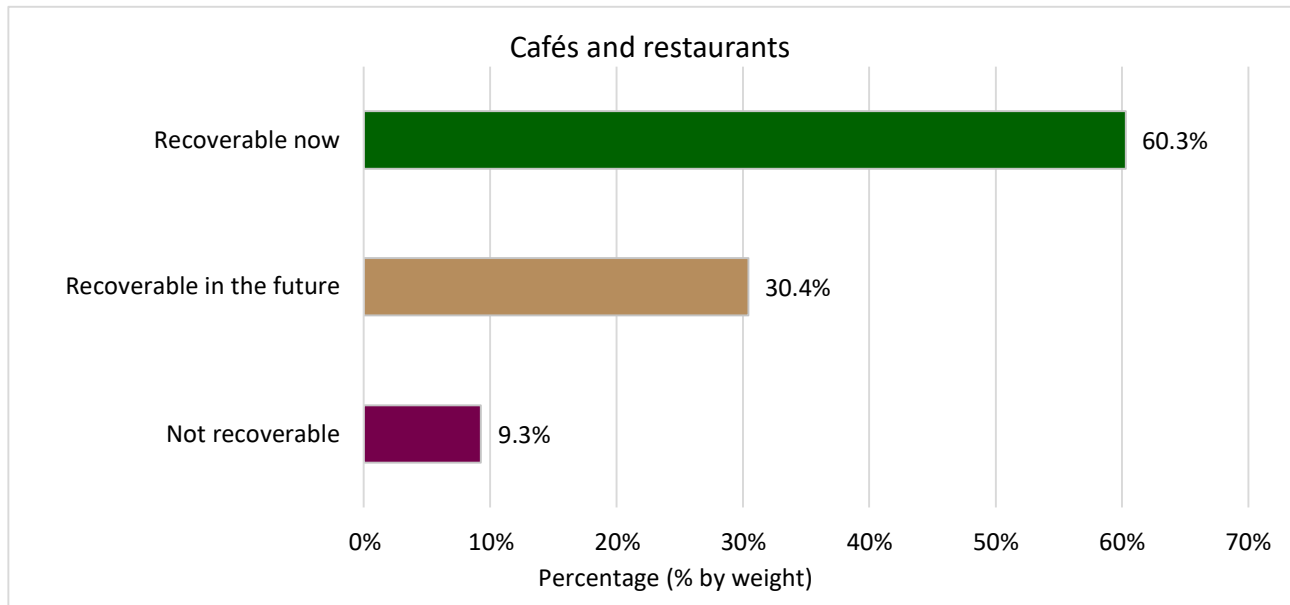


Table 113 provides the detailed recoverability of materials in garbage bags from the cafés and restaurants sector and Figure 60 shows the data graphically. The data shows that:

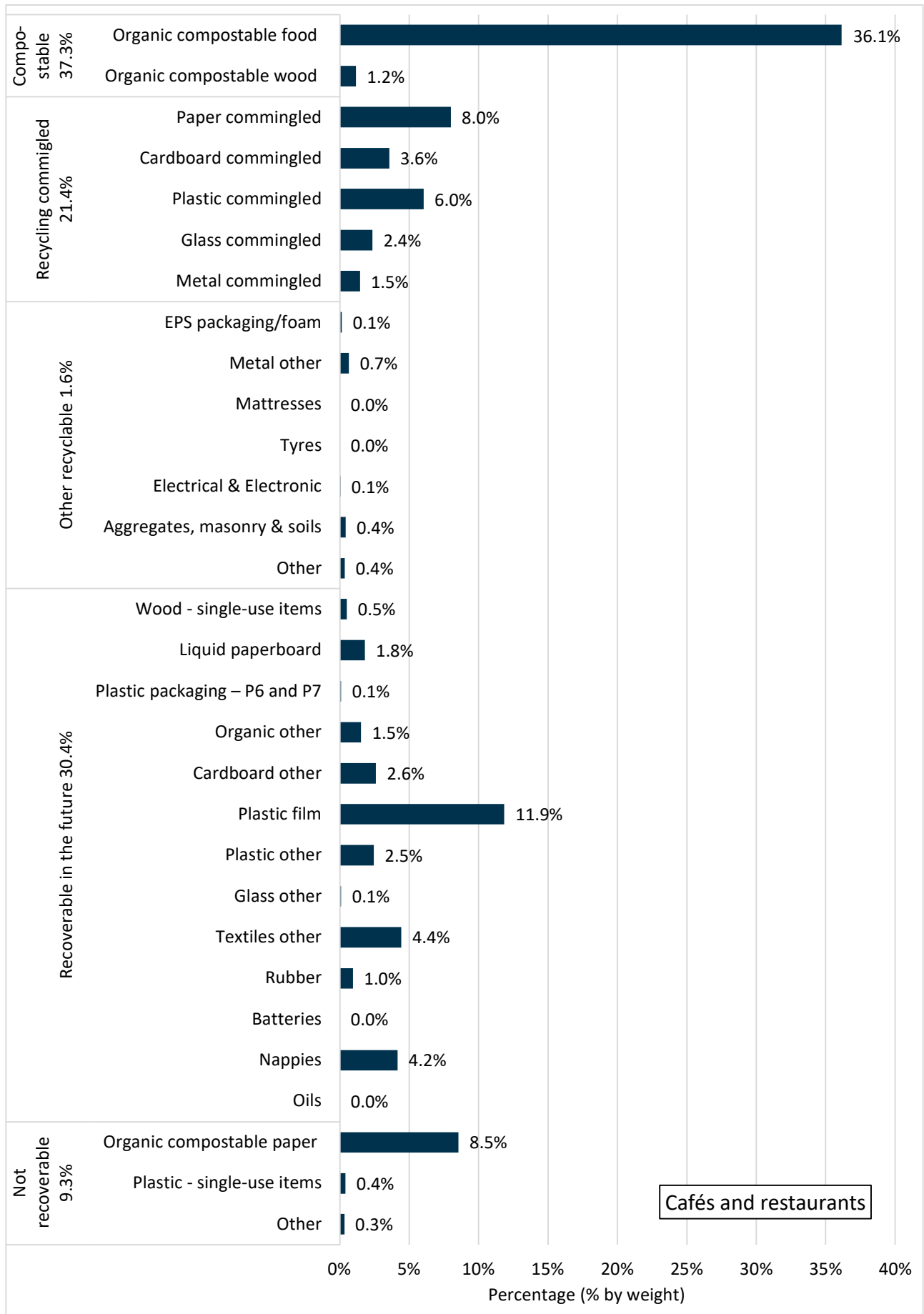
- Most material recoverable now is organic compostable food, paper and other recycling commingled and organic compostable wood respectively.
- Most material recoverable in the future is plastic film, textiles other, nappies, cardboard other, plastic other, liquid paperboard and organic other respectively.

**Table 113 Cafes and restaurants – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	36.14
Organic compostable wood	1.16
Paper commingled	7.99
Cardboard commingled	3.56
Plastic commingled	6.03
Glass commingled	2.35
Metal commingled	1.45
EPS packaging/foam	0.14
Metal other	0.65
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.05
Aggregates, masonry & soils	0.42
Other ^	0.36
<b>Sub-total: Recoverable now</b>	<b>60.30</b>
Wood – single-use items	0.50
Liquid paperboard	1.81
Plastic packaging – P6 and P7	0.09
Organic other	1.52
Cardboard other	2.59
Plastic film	11.85
Plastic other	2.45
Glass other	0.09
Textiles other	4.42
Rubber	0.95
Batteries	0.00
Nappies	4.16
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>30.43</b>
Organic compostable paper	8.54
Plastic single-use items	0.40
Other	0.33
<b>Sub-total: Not recoverable</b>	<b>9.27</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 60 Cafes and restaurants – recoverability detailed composition**





## 5.7.4. Focus material: degradable organic content (DOC)

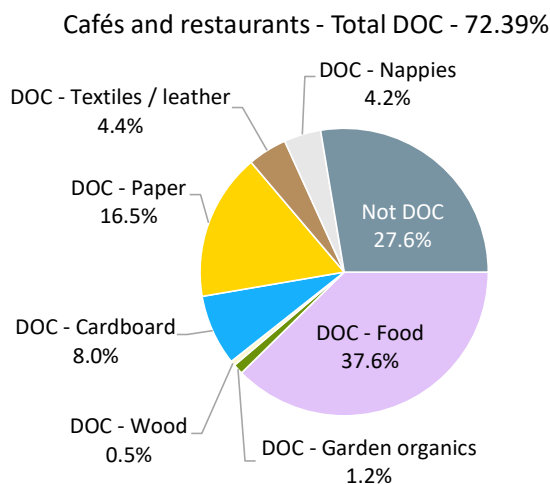
Table 114 provides the DOC in garbage bags from the cafés and restaurants sector, as defined in Table 3. Figure 61 shows the data graphically. The garbage bag contents were 72.4% DOC, with the top three materials in this order:

- DOC – food 37.6%;
- DOC – paper 16.5%; and
- DOC – cardboard 8.0%.

**Table 114 Cafes and restaurants – focus material – DOC**

DOC type	Overall
DOC – food	37.62
DOC – garden organics	1.16
DOC – wood	0.54
DOC – cardboard	7.96
DOC – paper	16.53
DOC – textiles and leather	4.42
DOC – nappies	4.16
<b>Sub-total – DOC content</b>	<b>72.39</b>
Other waste	27.61
<b>Total</b>	<b>100.0</b>

**Figure 61 Cafes and restaurants – focus material – DOC**



## 5.7.5. Focus material: packaging material

Table 115 provides the packaging material content in garbage bags from the cafés and restaurants sector, as defined in Table 3. Figure 62 shows the data graphically.

The garbage bag contents were 23.5% packaging material, with the top three materials in this order:

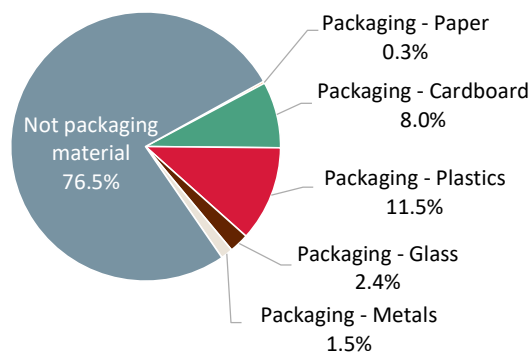
- Packaging – plastics 11.5%.
- Packaging – cardboard 8.0%; and
- Packaging – glass 2.4%.

**Table 115 Cafes and restaurants – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.27
Packaging - Cardboard	7.96
Packaging - Plastics	11.46
Packaging - Glass	2.35
Packaging - Metals	1.45
<b>Sub-total – packaging material</b>	<b>23.49</b>
Other waste	76.51
<b>Total</b>	<b>100.00</b>

**Figure 62 Cafes and restaurants – focus material – packaging material**

Cafés and restaurants - Total Packaging - 23.49%



### 5.7.6. Focus material: food organics

Table 116 provides the food organics content in garbage bags from the cafés and restaurants sector, as defined in Table 3. Figure 63 shows the data graphically.

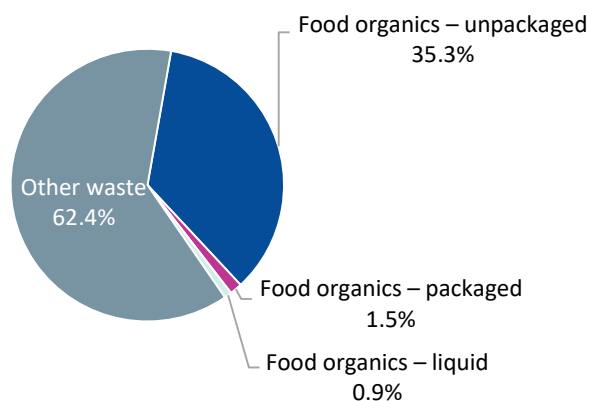
The data shows that approximately 37.6% of garbage bag contents is food organics; with 35.3% unpackaged food and 2.4% packaged food including cooking oil or other liquid.

**Table 116 Cafes and restaurants – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	35.27
Food organics – packaged	1.48
Food organics – liquid	0.87
<b>Sub-total – food organics</b>	<b>37.62</b>
Other waste	62.38
<b>Total</b>	<b>100.00</b>

**Figure 63 Cafes and restaurants – focus material – food organics**

Cafés and restaurants - Total Food organics - 37.62%



### 5.7.7. Focus material: textiles and leather

Approximately 4% of garbage bag contents from the cafés and restaurants sector is textiles and leather. Table 117 provides the types of textiles and leather content in garbage bags from the cafés and restaurants sector and Figure 64 shows the data graphically.

The data shows that the main types were:

- Leather synthetic textiles, 39.3%;
- Textiles synthetic textiles, 22.7%; and
- Textiles natural fibres, 16.5%.

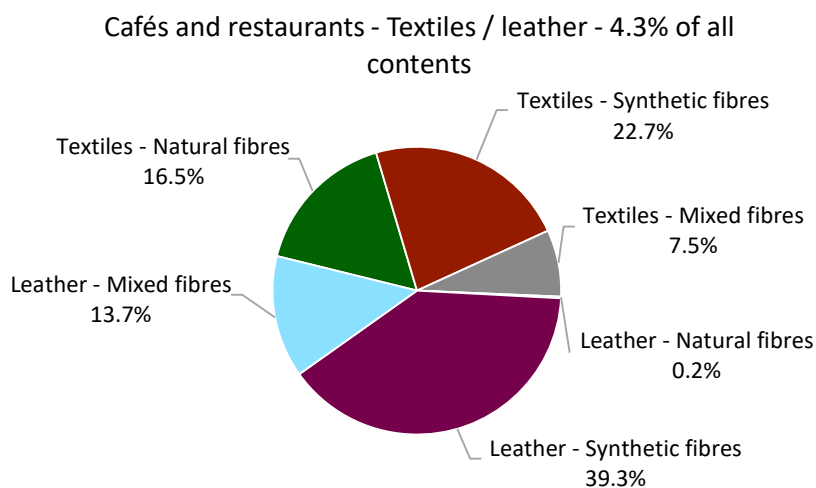
**Table 117 Cafes and restaurants – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.37	8.76
Natural fibres	Textiles	Clothing - unwearable	0.00	0.00
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.03	0.78
Natural fibres	Textiles	Towels	0.02	0.48
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.24	5.62
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.01	0.28
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.03	0.62
<b>Sub-total: Textiles</b>			<b>0.70</b>	<b>16.54</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.01	0.16
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.01</b>	<b>0.16</b>
<b>Sub-total: Natural fibres</b>			<b>0.71</b>	<b>16.70</b>
Synthetic fibres	Textiles	Nappies - cloth	0.00	0.10
Synthetic fibres	Textiles	Clothing - wearable	0.01	0.19
Synthetic fibres	Textiles	Clothing - unwearable	0.02	0.40
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.76	17.81
Synthetic fibres	Textiles	Soft toys	0.01	0.31
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.17	3.91
<b>Sub-total: Textiles</b>			<b>0.97</b>	<b>22.72</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	1.00	23.57
Synthetic fibres	Leather	Shoes - wearable	0.67	15.77
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>1.67</b>	<b>39.34</b>
<b>Sub-total: Synthetic fibres</b>			<b>2.64</b>	<b>62.06</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.04
Mixed fibres	Textiles	Clothing - wearable	0.01	0.20

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.20	4.70
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.05	1.20
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.04	0.84
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.02	0.54
<b>Sub-total: Textiles</b>			<b>0.32</b>	<b>7.52</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.58	13.72
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.58</b>	<b>13.72</b>
<b>Sub-total: Mixed fibres</b>			<b>0.90</b>	<b>21.24</b>
<b>Total</b>			<b>4.25</b>	<b>100.00</b>

Figure 64 Cafes and restaurants – focus material – textiles and leather



## 5.7.8. Focus material: CDS containers

Approximately 1.9% of garbage bag contents from the cafés and restaurants sector is CDS containers. Table 118 provides the CDS containers content in garbage bags from the cafés and restaurants sector, as defined in Table 3.

The data shows:

- By weight, glass was the most, followed by PET and aluminium.
- By count, PET was the most, followed by aluminium and liquid paperboard.

**Table 118 Cafes and restaurants – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.55	29.07	211	41.54
HDPE (P2)	0.02	1.24	13	2.56
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.91	48.12	34	6.69
Steel	0.04	1.88	27	5.31
Aluminum	0.29	15.61	176	34.65
Liquid Paperboard	0.08	4.08	47	9.25
<b>Total</b>	<b>1.89</b>	<b>100.00</b>	<b>508</b>	<b>100.00</b>

## 5.7.9. Focus material: other beverage containers

Approximately 2.4% of garbage bag contents from the cafés and restaurants sector is other beverage containers. Table 119 provides the other beverage containers content in garbage bags from the cafés and restaurants sector, as defined in Table 3.

The data shows HDPE beverage containers, wine / champagne bottles and PET fruit & vegetable juice >1-3L containers were the top 3 beverage containers for cafés and restaurants.

**Table 119 Cafes and restaurants – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.13	19	5.35
PET (P1)	Cordial	0.01	1	0.28
PET (P1)	Flavoured milk >1-3L	0.00	1	0.28
HDPE (P2)	-	1.43	315	88.73
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.69	16	4.51
Glass	Spirits	0.14	3	0.85
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>2.40</b>	<b>355</b>	<b>100.00</b>

### 5.7.10. Focus material: single-use items

Table 120 provides the percentage of each single-use items type in garbage bags of all contents and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 60.1% of total single-use items.
- Followed by non-compostable coffee cups (11.9% of total single-use items) and compostable coffee cups (10.3% of total single-use items).

**Table 120 Cafes and restaurants – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.50	5.51
Cardboard	Coffee cups - compostable	0.93	10.29
Cardboard	Coffee cups - non-compostable	1.07	11.92
Cardboard	Other cups	0.19	2.11
Paper	Single-use items	5.47	60.59
Plastic	PS/EPS straws	0.00	0.03
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.04	0.47
Plastic	PS/EPS cups	0.05	0.51
Plastic	PS/EPS coffee cup lids	0.30	3.32
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.01	0.12
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.42	4.63
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.04	0.50
<b>Total</b>		<b>9.02</b>	<b>100.00</b>

## 5.8. Transport, postal and warehousing

### 5.8.1. Composition using all sorting categories

Table 121 provides the detailed composition of garbage bags from the transport, postal and warehousing sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 121 Transport, postal and warehousing – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	15.396
S-2	Food organics - packaged	1.605
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	0.804
S-5	Garden organics	1.597
S-6	Organics - other putrescible	0.000
S-7	Wood/untreated - single-use items	0.147
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	3.099
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.144
S-21	Cardboard wet - packaging	1.114
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.000
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.370
S-26	Cardboard - disposable - coffee cups - compostable	0.621
S-27	Cardboard - disposable - coffee cups - non-compostable	0.085
S-28	Cardboard - disposable - other cups	0.032
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.024
S-31	Paper - brochures and leaflets	0.022



	Sorting category	Percentage by weight
S-32	Paper - books	0.061
S-33	Paper - printing/writing (other office)	2.196
S-34	Paper - other packaging	0.780
S-35	Paper - newsprint	0.000
S-36	Paper - brown kraft paper	0.714
S-37	Paper - rolls of low grade	0.246
S-38	Paper - hand towels	9.406
S-39	Paper - single-use items	4.300
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	4.328
S-41	Plastic - PET beverage containers (P1) - CDS	1.139
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.372
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	1.319
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.217
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.000
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.000
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.759
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.409
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.053
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.021
S-58	Plastic - LDPE packaging (P4)	0.000
S-59	Plastic - LDPE non-packaging (P4)	6.699
S-60	Plastic - PP packaging (P5)	1.495
S-61	Plastic - PP non-packaging (P5) - cups	0.000
S-62	Plastic - PP non-packaging (P5) - other	0.057
S-63	Plastic - PS packaging (P6)	0.187
S-64	Plastic - EPS packaging containers (P6)	0.004
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.025
S-68	Plastic - PS/EPS - cups	0.013
S-69	Plastic - PS/EPS - coffee cup lids	0.063
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000

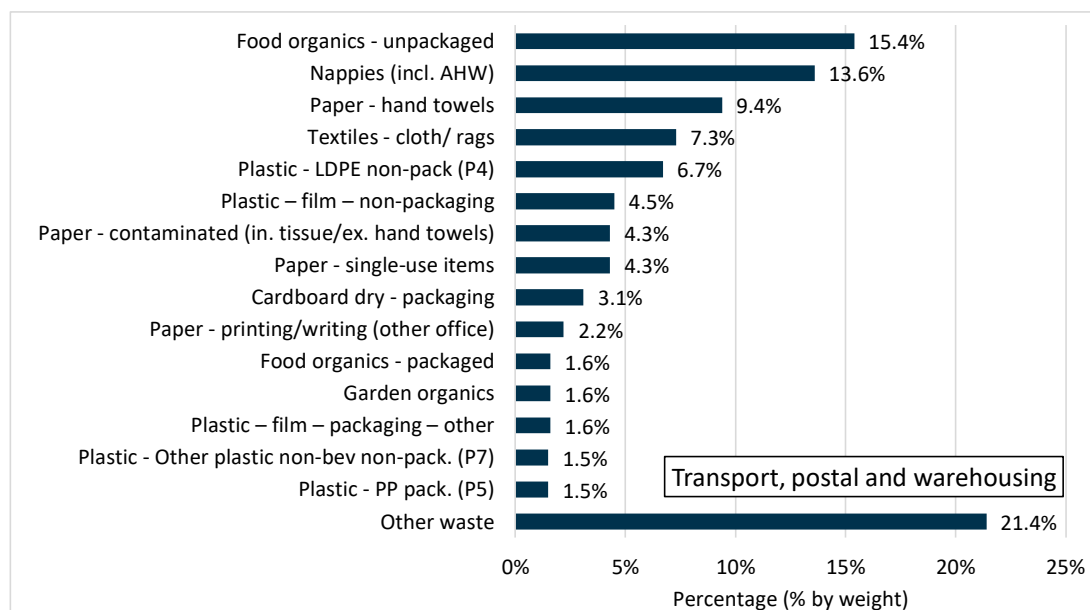
	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.048
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.000
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	1.533
S-77	Plastic – film – packaging – single use HDPE bags	0.104
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.000
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	1.559
S-81	Plastic – film – non-packaging	4.486
S-82	Plastic - polystyrene foam (EPS)	0.034
S-83	Plastic - other	0.477
S-84	Glass - containers beverage - CDS	0.155
S-85	Glass - containers beverage-not CDS-wine/champagne	0.473
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	1.235
S-94	Glass - containers (fines)	0.906
S-95	Glass - plate / non-packaging (other glass)	0.916
S-96	Metal (ferrous) - packaging beverage - CDS	0.000
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.360
S-99	Metal (ferrous) - packaging non-beverage	0.519
S-100	Metal (ferrous) - non-packaging	0.407
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.767
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.104
S-104	Metal (non-ferrous) - packaging non-beverage	0.211
S-105	Metal (non-ferrous) - non-packaging	0.115
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	7.344
S-109	Leather	0.465
S-110	Rubber - tyres, tubes	0.000

	Sorting category	Percentage by weight
S-111	Rubber - other	0.934
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.382
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.115
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.000
S-124	C&D - rock/dirt/soil	0.229
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.242
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.820
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.000
S-139	Hazardous / special - personal care with microbeads	0.067
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.011
S-144	Liquid paperboard (cardboard) - NOT CDS	0.744
S-145	Liquid paperboard (cardboard) - other packaging	0.191
S-146	Nappies (incl. AHW)	13.622
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.502
	<b>Total</b>	<b>100.000</b>

Figure 65 shows the top 15 materials. The top 15 materials in garbage bags from the transport, postal and warehousing sector were:

- Food organics – unpackaged
- Nappies (incl. AHW)
- Paper – hand towels
- Textiles – cloth / rags
- Plastic – LDPE non- packaging (P4)
- Plastic – film – non-packaging
- Paper – contaminated (incl. tissue/excl. hand towels)
- Paper – single-use items
- Cardboard dry – packaging
- Paper – printing / writing (other office)
- Food organics – packaged
- Garden organics
- Plastic – film – packaging – other
- Plastic – Other plastic non-beverage non- packaging (P7)
- Plastic – PP packaging (P5)

**Figure 65 Transport, postal and warehousing – top 15 materials**



## 5.8.2. Composition using visual audit categories

### Consolidated composition

Table 122 shows the composition of garbage bags from the transport, postal and warehousing sector using the consolidated visual audit categories.

The results show:

- Paper and cardboard occupied most of the garbage bag contents by weight at 28.5%.
- Followed by plastics (21.1%), organics (19.6%) and nappies (13.6%).
- These materials made up approximately 85% of garbage bag contents.

**Table 122 Transport, postal and warehousing – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	28.48
Electrical & Electronic	0.73
Organics	19.56
Glass	3.70
Aggregates, Masonry & Soils	0.23
Metals	2.48
Plastics	21.07
Rubber	0.93
Textiles & Leather	7.81
Nappies	13.62
Hazardous	0.89
Other	0.50
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 123 shows the composition of garbage bags from the transport, postal and warehousing sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 123 Transport, postal and warehousing – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	0.229
V-4	A, M & soils – other	0.000
V-5	E&E – batteries	0.242
V-6	E&E – computers and peripherals	0.382
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.115
V-11	Glass – non-packaging	0.916
V-12	Glass – packaging	2.769
V-13	Metal – ferrous – non-packaging	0.407
V-14	Metal – ferrous – packaging	0.879
V-15	Metal – aluminium – non-packaging	0.115
V-16	Metal – aluminium – packaging	1.082
V-17	Food organics – unpackaged	15.396
V-18	Food organics – packaged	1.605
V-19	Food organics – liquid	0.804

	Visual category	Percentage by weight
V-20	Garden organics	1.597
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.147
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	3.099
V-30	Cardboard – wet	1.114
V-31	Cardboard – wet strength/waxed	2.198
V-32	Paper – recyclable	6.603
V-33	Paper – non-recyclable	13.734
V-34	Paper – packaging	1.740
V-35	Plastic – EPS foam	0.034
V-36	Plastic – film packaging	1.663
V-37	Plastic – other	13.639
V-38	Plastic – rigid packaging	5.737
V-39	Rubber – other	0.934
V-40	Rubber – tyres	0.000
V-41	Leather	0.465
V-42	Textiles – cloth & rags	7.344
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.820
V-49	Hazardous – Clinical	0.067
V-50	Other waste	14.124
	<b>Total</b>	<b>100.000</b>

### 5.8.3. Recoverability of materials in garbage bags

Table 124 provides the consolidated recoverability composition for garbage bags from the transport, postal and warehousing sector. Figure 66 shows the results graphically. The data shows that 42.7% of materials in garbage bags were recoverable now and 42.8% was recoverable in the future.

**Table 124 Transport, postal and warehousing – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	42.72
Recoverable in the future	42.82
Not recoverable	14.46
<b>Total</b>	<b>100.00</b>

**Figure 66 Transport, postal and warehousing – recoverability consolidated composition**

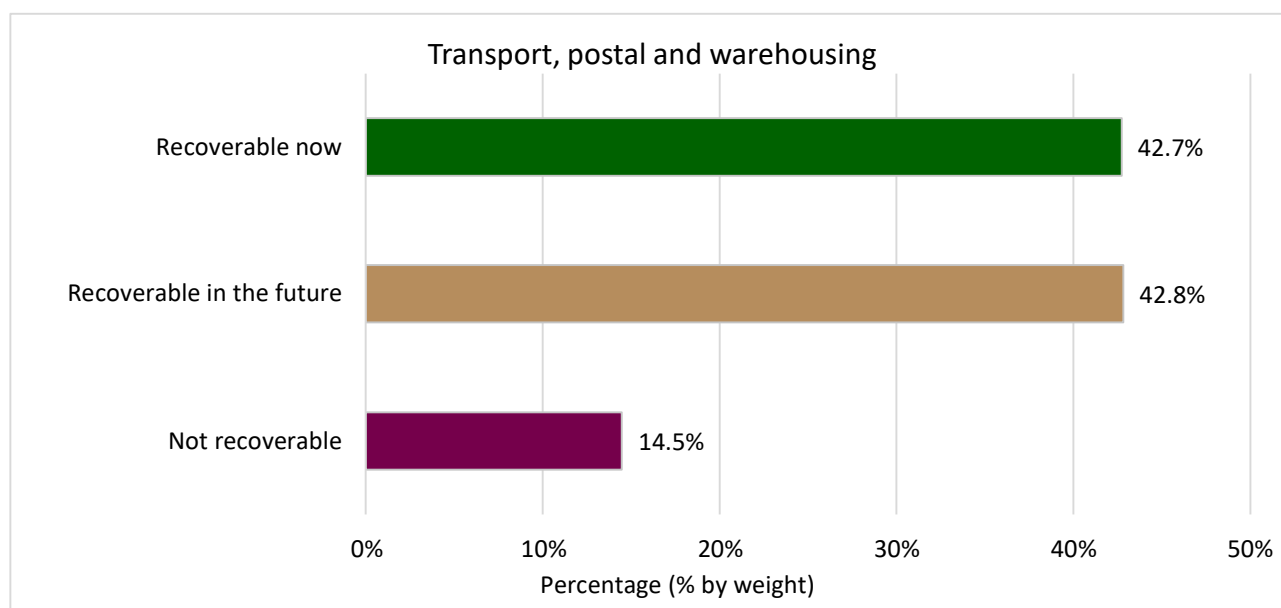


Table 125 provides the detailed recoverability of materials in garbage bags from the transport, postal and warehousing sector and Figure 67 shows the data graphically. The data shows that:

- Most material recoverable now is organic compostable food and paper, plastic and cardboard commingled respectively.
- Most material recoverable in the future is nappies, plastic other, textiles other, plastic film, organics other and cardboard other respectively.

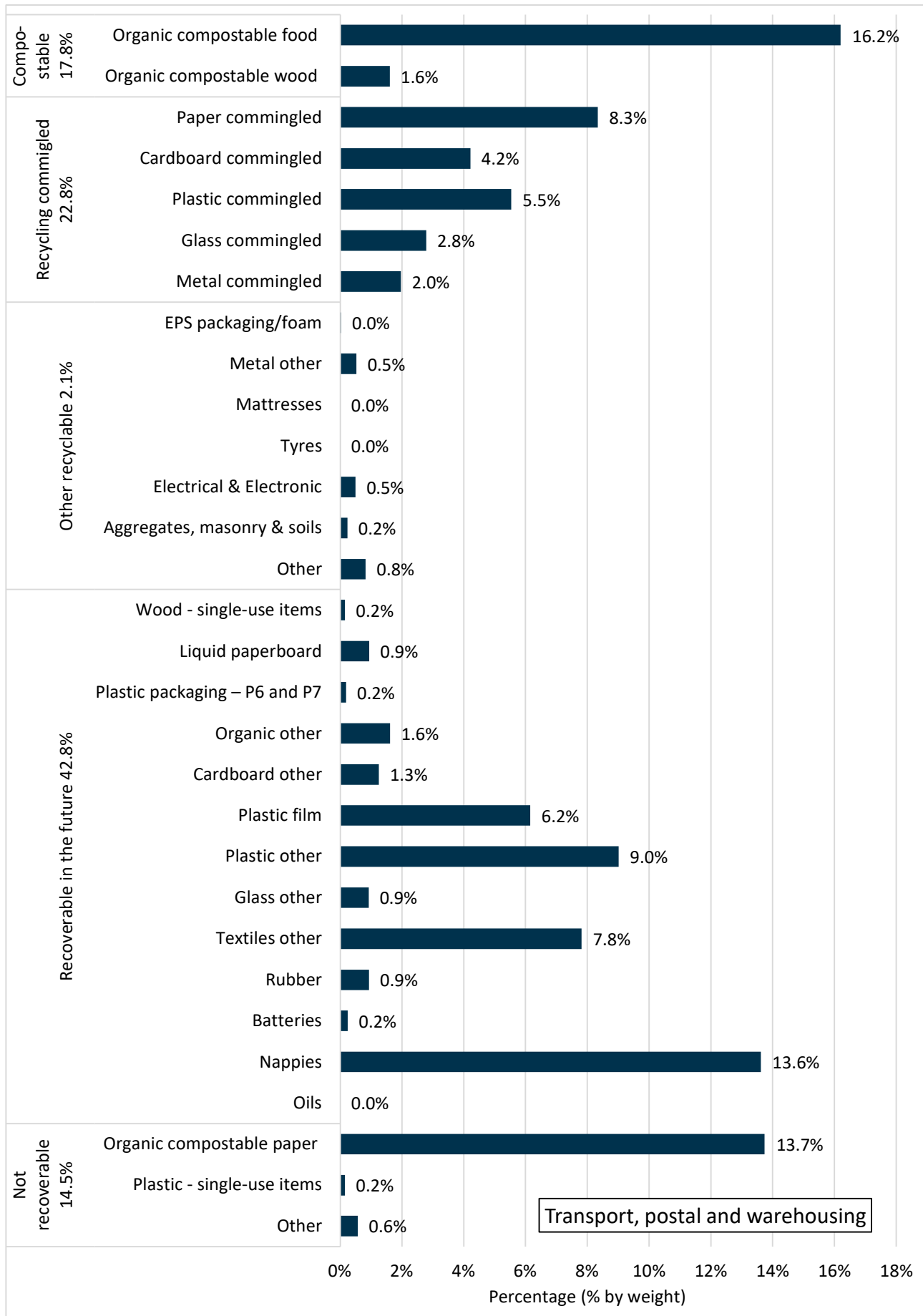
**Table 125 Transport, postal and warehousing – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	16.20
Organic compostable wood	1.60
Paper commingled	8.34
Cardboard commingled	4.21
Plastic commingled	5.54
Glass commingled	2.78
Metal commingled	1.96
EPS packaging/foam	0.03
Metal other	0.52
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.49
Aggregates, masonry & soils	0.23
Other ^	0.82
<b>Sub-total: Recoverable now</b>	<b>42.72</b>
Wood – single-use items	0.15
Liquid paperboard	0.94
Plastic packaging – P6 and P7	0.19
Organic other	1.61
Cardboard other	1.25
Plastic film	6.15
Plastic other	9.01
Glass other	0.92
Textiles other	7.81
Rubber	0.93
Batteries	0.24
Nappies	13.62
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>42.82</b>
Organic compostable paper	13.74
Plastic single-use items	0.15
Other	0.57
<b>Sub-total: Not recoverable</b>	<b>14.46</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.



Figure 67 Transport, postal and warehousing – recoverability detailed composition



## 5.8.4. Focus material: degradable organic content (DOC)

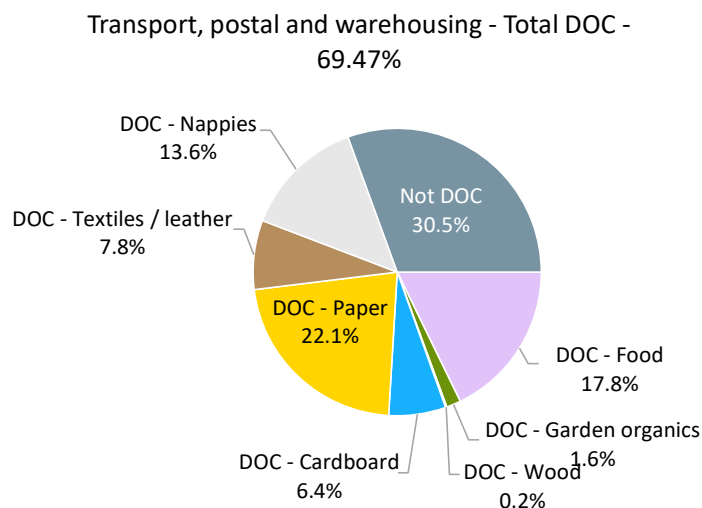
Table 126 provides the DOC in garbage bags from the transport, postal and warehousing sector, as defined in Table 3. Figure 68 shows the data graphically. The garbage bag contents were 69.5% DOC, with the top three materials in this order:

- DOC – paper 22.1%;
- DOC – food 17.8%; and
- DOC – nappies 13.6%.

**Table 126 Transport, postal and warehousing – focus material – DOC**

DOC type	Overall
DOC – food	17.81
DOC – garden organics	1.60
DOC – wood	0.15
DOC – cardboard	6.40
DOC – paper	22.08
DOC – textiles and leather	7.81
DOC – nappies	13.62
<b>Sub-total – DOC content</b>	<b>69.47</b>
Other waste	30.53
<b>Total</b>	<b>100.0</b>

**Figure 68 Transport, postal and warehousing – focus material – DOC**



## 5.8.5. Focus material: packaging material

Table 127 provides the packaging material content in garbage bags from the transport, postal and warehousing sector, as defined in Table 3. Figure 69 shows the data graphically.

The garbage bag contents were 20.1% packaging material, with the top three materials in this order:

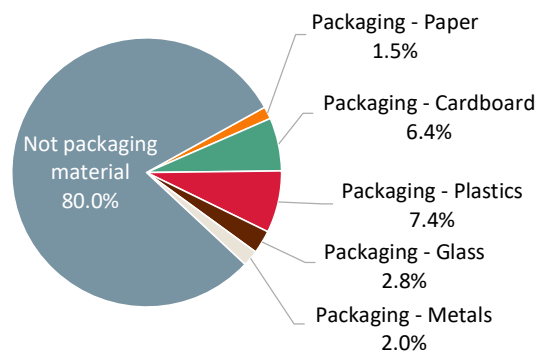
- Packaging – plastics 7.4%.
- Packaging – cardboard 6.4%; and
- Packaging – glass 2.8%.

**Table 127 Transport, postal and warehousing – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	1.49
Packaging - Cardboard	6.40
Packaging - Plastics	7.42
Packaging - Glass	2.78
Packaging - Metals	1.96
<b>Sub-total – packaging material</b>	<b>20.05</b>
Other waste	79.95
<b>Total</b>	<b>100.00</b>

**Figure 69 Transport, postal and warehousing – focus material – packaging material**

Transport, postal and warehousing - Total Packaging - 20.05%



### 5.8.6. Focus material: food organics

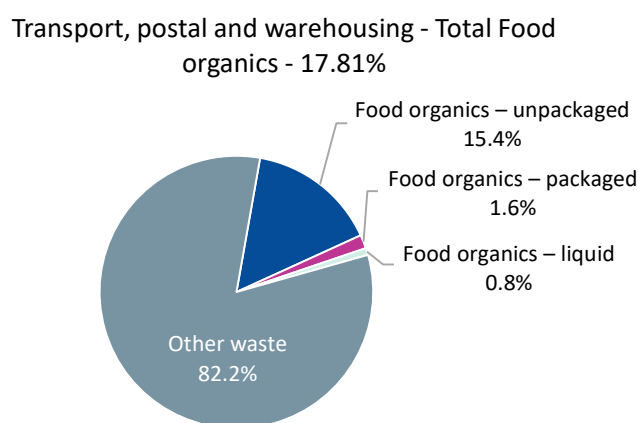
Table 128 provides the food organics content in garbage bags from the transport, postal and warehousing sector, as defined in Table 3. Figure 70 shows the data graphically.

The data shows that approximately 18% of garbage bag contents is food organics; with 15.4% unpackaged food and 2.4% packaged food including cooking oil or other liquid.

**Table 128 Transport, postal and warehousing – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	15.40
Food organics – packaged	1.61
Food organics – liquid	0.80
<b>Sub-total – food organics</b>	<b>17.81</b>
Other waste	82.19
<b>Total</b>	<b>100.00</b>

**Figure 70 Transport, postal and warehousing – focus material – food organics**



### 5.8.7. Focus material: textiles and leather

Approximately 8% of garbage bag contents from the transport, postal and warehousing sector is textiles and leather. Table 129 provides the types of textiles and leather content in garbage bags from the transport, postal and warehousing sector and Figure 71 shows the data graphically.

The data shows that the main types were:

- Textiles natural textiles, 61.5%;
- Textiles synthetic fibres, 15.2%; and
- Textiles mixed fibres, 17.4%.

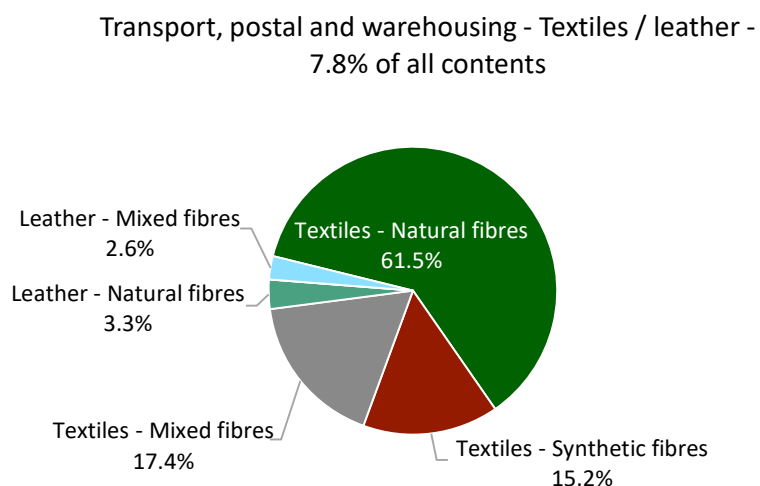
**Table 129 Transport, postal and warehousing – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	4.58	58.60
Natural fibres	Textiles	Clothing - unwearable	0.00	0.00
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.00	0.00
Natural fibres	Textiles	Towels	0.21	2.75
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.01	0.11
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>4.80</b>	<b>61.46</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.22	2.81
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.04	0.50
<b>Sub-total: Leather</b>			<b>0.26</b>	<b>3.31</b>
<b>Sub-total: Natural fibres</b>			<b>5.06</b>	<b>64.77</b>
Synthetic fibres	Textiles	Nappies - cloth	0.25	3.27
Synthetic fibres	Textiles	Clothing - wearable	0.00	0.00
Synthetic fibres	Textiles	Clothing - unwearable	0.73	9.31
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.14	1.85
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.06	0.81
<b>Sub-total: Textiles</b>			<b>1.18</b>	<b>15.24</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>1.18</b>	<b>15.24</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	1.04	13.33

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.28	3.54
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.04	0.48
<b>Sub-total: Textiles</b>			<b>1.36</b>	<b>17.35</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.21	2.64
<b>Sub-total: Leather</b>			<b>0.21</b>	<b>2.64</b>
<b>Sub-total: Mixed fibres</b>			<b>1.57</b>	<b>19.99</b>
<b>Total</b>			<b>7.81</b>	<b>100.00</b>

Figure 71 Transport, postal and warehousing – focus material – textiles and leather



### 5.8.8. Focus material: CDS containers

Approximately 2.1% of garbage bag contents from the transport, postal and warehousing sector is CDS containers. Table 130 provides the CDS containers content in garbage bags from the transport, postal and warehousing sector, as defined in Table 3.

The data shows:

- By weight, PET was the most, followed by aluminium and glass.
- By count, PET was the most, followed by aluminium.

**Table 130 Transport, postal and warehousing – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	1.14	54.95	43	56.57
HDPE (P2)	0.00	0.00	0	0.00
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.16	7.49	1	1.32
Steel	0.00	0.00	0	0.00
Aluminum	0.77	37.01	31	40.79
Liquid Paperboard	0.01	0.55	1	1.32
<b>Total</b>	<b>2.08</b>	<b>100.00</b>	<b>76</b>	<b>100.00</b>

### 5.8.9. Focus material: other beverage containers

Approximately 1.6% of garbage bag contents from the transport, postal and warehousing sector is other beverage containers. Table 131 provides other beverage containers content in garbage bags from the transport, postal and warehousing sector, as defined in Table 3.

The data shows that HDPE beverage containers and PET fruit & vegetable juice >1-3L container were the most common other beverage containers.

**Table 131 Transport, postal and warehousing – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.37	5	26.32
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.76	13	68.42
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.47	1	5.26
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>1.60</b>	<b>19</b>	<b>100.00</b>

### 5.8.10. Focus material: single-use items

Table 132 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 79.1% of total single-use items.
- Followed by compostable coffee cups (11.4% of total single-use items) and wood items (2.7% of total single-use items).

**Table 132 Transport, postal and warehousing – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.15	2.71
Cardboard	Coffee cups - compostable	0.62	11.41
Cardboard	Coffee cups - non-compostable	0.09	1.56
Cardboard	Other cups	0.03	0.58
Paper	Single-use items	4.30	79.06
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.03	0.47
Plastic	PS/EPS cups	0.01	0.24
Plastic	PS/EPS coffee cup lids	0.06	1.16
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.05	0.89
Plastic	Film – packaging – single use HDPE bags	0.10	1.92
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.00	0.00
<b>Total</b>		<b>5.44</b>	<b>100.00</b>



## 5.9. Professional, scientific, and technical services

### 5.9.1. Composition using all sorting categories

Table 133 provides the detailed composition of garbage bags from the professional, scientific, and technical services sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 133 Professional, scientific, and technical services – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	20.865
S-2	Food organics - packaged	2.814
S-3	Food organics - cooking oil	0.123
S-4	Food organics - other liquid	2.032
S-5	Garden organics	0.923
S-6	Organics - other putrescible	0.349
S-7	Wood/untreated - single-use items	0.212
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	5.057
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.041
S-21	Cardboard wet - packaging	1.006
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.264
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	1.657
S-26	Cardboard - disposable - coffee cups - compostable	1.208
S-27	Cardboard - disposable - coffee cups - non-compostable	0.849
S-28	Cardboard - disposable - other cups	0.012
S-29	Paper - photocopy paper	0.295
S-30	Paper - magazines / catalogues	0.546
S-31	Paper - brochures and leaflets	0.110

	Sorting category	Percentage by weight
S-32	Paper - books	0.138
S-33	Paper - printing/writing (other office)	4.876
S-34	Paper - other packaging	2.876
S-35	Paper - newsprint	0.000
S-36	Paper - brown kraft paper	0.073
S-37	Paper - rolls of low grade	0.294
S-38	Paper - hand towels	4.452
S-39	Paper - single-use items	3.285
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	6.276
S-41	Plastic - PET beverage containers (P1) - CDS	1.233
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.052
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.053
S-46	Plastic - PET packaging (excl beverage containers) (P1)	1.023
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.071
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.000
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.026
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.643
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.378
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.116
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.049
S-58	Plastic - LDPE packaging (P4)	0.011
S-59	Plastic - LDPE non-packaging (P4)	2.747
S-60	Plastic - PP packaging (P5)	2.220
S-61	Plastic - PP non-packaging (P5) - cups	0.017
S-62	Plastic - PP non-packaging (P5) - other	0.251
S-63	Plastic - PS packaging (P6)	0.269
S-64	Plastic - EPS packaging containers (P6)	0.021
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.015
S-68	Plastic - PS/EPS - cups	0.010
S-69	Plastic - PS/EPS - coffee cup lids	0.244
S-70	Plastic - PS/EPS - stemmed cotton buds	0.011
S-71	Plastic - PS - plates/bowls	0.000

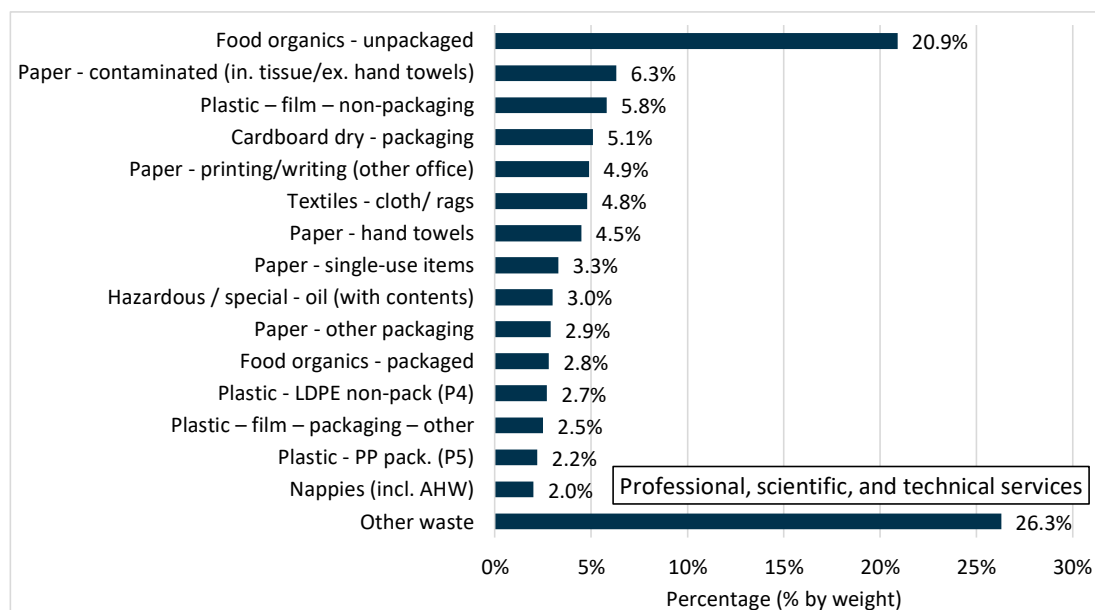
	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.000
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.000
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.288
S-77	Plastic – film – packaging – single use HDPE bags	0.169
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.083
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	2.535
S-81	Plastic – film – non-packaging	5.849
S-82	Plastic - polystyrene foam (EPS)	0.089
S-83	Plastic - other	1.580
S-84	Glass - containers beverage - CDS	0.292
S-85	Glass - containers beverage-not CDS-wine/champagne	0.559
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	1.164
S-94	Glass - containers (fines)	0.057
S-95	Glass - plate / non-packaging (other glass)	0.077
S-96	Metal (ferrous) - packaging beverage - CDS	0.257
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.326
S-99	Metal (ferrous) - packaging non-beverage	0.959
S-100	Metal (ferrous) - non-packaging	0.314
S-101	Metal (non-ferrous) - packaging beverage - CDS	1.105
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.319
S-104	Metal (non-ferrous) - packaging non-beverage	0.155
S-105	Metal (non-ferrous) - non-packaging	0.152
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	4.800
S-109	Leather	0.251
S-110	Rubber - tyres, tubes	0.000

	Sorting category	Percentage by weight
S-111	Rubber - other	0.361
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.690
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.849
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.000
S-124	C&D - rock/dirt/soil	0.000
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.051
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/power tool)	0.000
S-130	Hazardous / special - batteries - other	0.017
S-131	Hazardous / special - gas bottles	0.065
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.512
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	2.973
S-138	Hazardous / special - pharmaceutical	0.163
S-139	Hazardous / special - personal care with microbeads	0.000
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.268
S-144	Liquid paperboard (cardboard) - NOT CDS	0.263
S-145	Liquid paperboard (cardboard) - other packaging	0.279
S-146	Nappies (incl. AHW)	2.036
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.000
	<b>Total</b>	<b>100.000</b>

Figure 72 shows the top 15 materials. The top 15 materials in garbage bags from the professional, scientific, and technical services sector were:

- Food organics – unpackaged
- Paper – contaminated (incl. tissue/excl. hand towels)
- Plastic – film – non-packaging
- Cardboard dry – packaging
- Paper – printing / writing (other office)
- Textiles – cloth / rags
- Paper – hand towels
- Paper – single-use items
- Hazardous / special – oil (with contents)
- Paper – other packaging
- Food organics – packaged
- Plastic – LDPE non- packaging (P4)
- Plastic – film – packaging – other
- Plastic – PP packaging (P5)
- Nappies (incl. AHW)

**Figure 72 Professional, scientific, and technical services – top 15 materials**



## 5.9.2. Composition using visual audit categories

### **Consolidated composition**

Table 134 shows the composition of garbage bags from the professional, scientific, and technical services sector using the consolidated visual audit categories.

The results show:

- Paper and cardboard occupied most of the garbage bag contents by weight at 34.1%.
- Followed by organics (27.3%) and plastics (20.1%).
- These materials made up approximately 80% of garbage bag contents.

**Table 134 Professional, scientific, and technical services – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	34.14
Electrical & Electronic	1.56
Organics	27.31
Glass	2.15
Aggregates, Masonry & Soils	0.05
Metals	3.58
Plastics	20.05
Rubber	0.36
Textiles & Leather	5.05
Nappies	2.04
Hazardous	3.71
Other	0.00
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 135 shows the composition of garbage bags from the professional, scientific, and technical services sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 135 Professional, scientific, and technical services – detailed composition – visual categories**

Visual category	Percentage by weight
V-1 A, M & soils – concrete, bricks & asphalt	0.000
V-2 A, M & soils – plasterboard	0.051
V-3 A, M & soils – soil, clay & rubble	0.000
V-4 A, M & soils – other	0.000
V-5 E&E – batteries	0.017
V-6 E&E – computers and peripherals	0.690
V-7 E&E – TVs	0.000
V-8 E&E – whitegoods	0.000
V-9 E&E – photovoltaic systems	0.000
V-10 E&E – other	0.849
V-11 Glass – non-packaging	0.077
V-12 Glass – packaging	2.072
V-13 Metal – ferrous – non-packaging	0.314
V-14 Metal – ferrous – packaging	1.542
V-15 Metal – aluminium – non-packaging	0.152
V-16 Metal – aluminium – packaging	1.579
V-17 Food organics – unpackaged	20.865
V-18 Food organics – packaged	2.814
V-19 Food organics – liquid	2.155

	Visual category	Percentage by weight
V-20	Garden organics	1.272
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.212
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	5.321
V-30	Cardboard – wet	1.006
V-31	Cardboard – wet strength/waxed	4.577
V-32	Paper – recyclable	9.250
V-33	Paper – non-recyclable	10.728
V-34	Paper – packaging	3.243
V-35	Plastic – EPS foam	0.089
V-36	Plastic – film packaging	2.787
V-37	Plastic – other	11.132
V-38	Plastic – rigid packaging	6.045
V-39	Rubber – other	0.361
V-40	Rubber – tyres	0.000
V-41	Leather	0.251
V-42	Textiles – cloth & rags	4.800
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	3.550
V-49	Hazardous – Clinical	0.163
V-50	Other waste	2.036
	<b>Total</b>	<b>100.000</b>

### 5.9.3. Recoverability of materials in garbage bags

Table 136 provides the consolidated recoverability composition for garbage bags from the professional, scientific, and technical services sector. Figure 73 shows the results graphically. The data shows that 56.8% of materials in garbage bags were recoverable now and 32.0% was recoverable in the future.

**Table 136 Professional, scientific, and technical services – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	56.80
Recoverable in the future	32.04
Not recoverable	11.16
<b>Total</b>	<b>100.00</b>

**Figure 73 Professional, scientific, and technical services – recoverability consolidated composition**

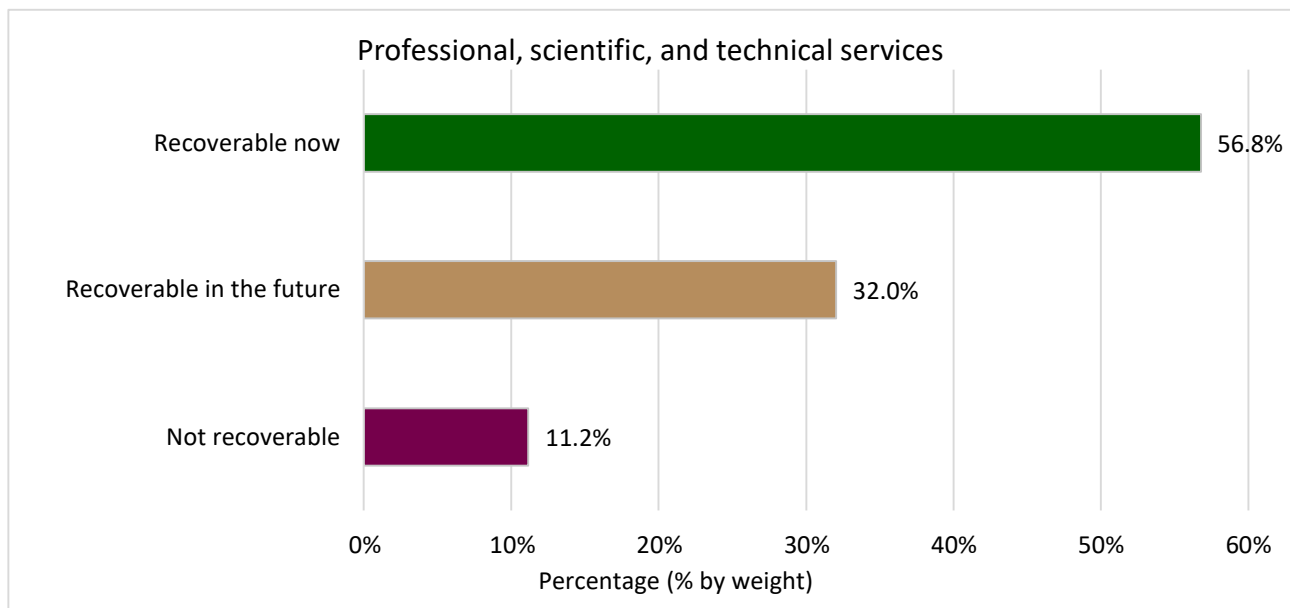


Table 137 provides the detailed recoverability of materials in garbage bags from the professional, scientific, and technical services sector and Figure 74 shows the data graphically. The data shows that:

- Most material recoverable now is organic compostable food and paper, cardboard and plastic commingled respectively.
- Most material recoverable in the future is plastic film, textiles other, plastic other, cardboard other, oils, organic other and nappies respectively.

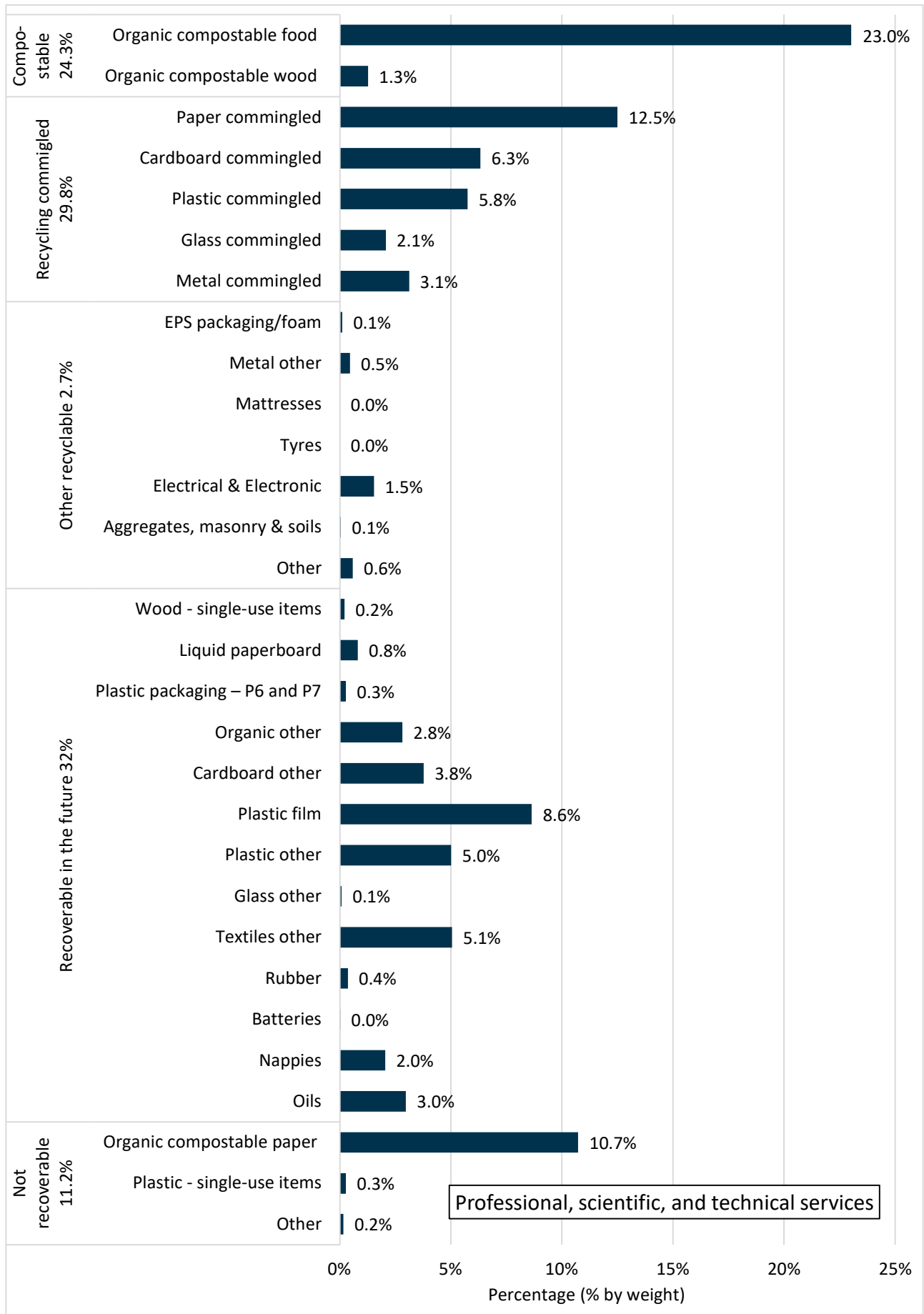


**Table 137 Professional, scientific, and technical services – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	23.02
Organic compostable wood	1.27
Paper commingled	12.50
Cardboard commingled	6.33
Plastic commingled	5.75
Glass commingled	2.07
Metal commingled	3.12
EPS packaging/foam	0.11
Metal other	0.46
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	1.54
Aggregates, masonry & soils	0.05
Other ^	0.58
<b>Sub-total: Recoverable now</b>	<b>56.80</b>
Wood – single-use items	0.21
Liquid paperboard	0.81
Plastic packaging – P6 and P7	0.27
Organic other	2.81
Cardboard other	3.77
Plastic film	8.64
Plastic other	5.01
Glass other	0.08
Textiles other	5.05
Rubber	0.36
Batteries	0.02
Nappies	2.04
Oils	2.97
<b>Sub-total: Recoverable in the future</b>	<b>32.04</b>
Organic compostable paper	10.73
Plastic single-use items	0.27
Other	0.16
<b>Sub-total: Not recoverable</b>	<b>11.16</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 74 Professional, scientific, and technical services – recoverability detailed composition**



## 5.9.4. Focus material: degradable organic content (DOC)

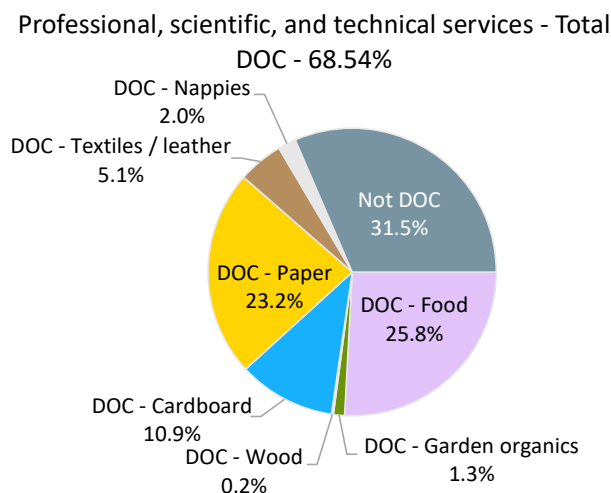
Table 138 provides the DOC in garbage bags from the professional, scientific, and technical services sector, as defined in Table 3. Figure 75 shows the data graphically. The garbage bag contents were 68.5% DOC, with the top three materials in this order:

- DOC – food 25.8%;
- DOC – paper 23.2%; and
- DOC – cardboard 10.9%.

**Table 138 Professional, scientific, and technical services – focus material – DOC**

DOC type	Overall
DOC – food	25.83
DOC – garden organics	1.27
DOC – wood	0.21
DOC – cardboard	10.91
DOC – paper	23.23
DOC – textiles and leather	5.05
DOC – nappies	2.04
<b>Sub-total – DOC content</b>	<b>68.54</b>
Other waste	31.46
<b>Total</b>	<b>100.0</b>

**Figure 75 Professional, scientific, and technical services – focus material – DOC**



## 5.9.5. Focus material: packaging material

Table 139 provides the packaging material content in garbage bags from the professional, scientific, and technical services sector, as defined in Table 3. Figure 76 shows the data graphically.

The garbage bag contents were 28.0% packaging material, with the top three materials in this order:

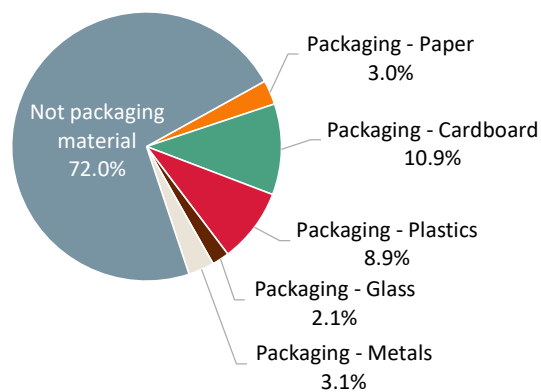
- Packaging – cardboard 10.9%;
- Packaging – plastics 8.9%; and
- Packaging – metals 3.1%.

**Table 139 Professional, scientific, and technical services – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	2.95
Packaging - Cardboard	10.91
Packaging - Plastics	8.92
Packaging - Glass	2.07
Packaging - Metals	3.12
<b>Sub-total – packaging material</b>	<b>27.97</b>
Other waste	72.03
<b>Total</b>	<b>100.00</b>

**Figure 76 Professional, scientific, and technical services – focus material – packaging material**

Professional, scientific, and technical services - Total  
Packaging - 27.97%



### 5.9.6. Focus material: food organics

Table 140 provides the food organics content in garbage bags from the professional, scientific, and technical services sector, as defined in Table 3. Figure 77 shows the data graphically.

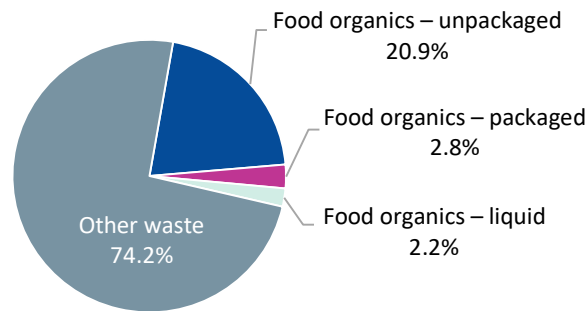
The data shows that approximately 26% of garbage bag contents is food organics; with 20.9% unpackaged food and 5.0% packaged food including cooking oil or other liquid.

**Table 140 Professional, scientific, and technical services – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	20.87
Food organics – packaged	2.81
Food organics – liquid	2.15
<b>Sub-total – food organics</b>	<b>25.83</b>
Other waste	74.17
<b>Total</b>	<b>100.00</b>

**Figure 77 Professional, scientific, and technical services – focus material – food organics**

Professional, scientific, and technical services - Total  
Food organics - 25.83%



### 5.9.7. Focus material: textiles and leather

Approximately 5% of garbage bag contents from the professional, scientific, and technical services sector is textiles and leather. Table 141 provides the types of textiles and leather content in garbage bags from the professional, scientific, and technical services sector and Figure 78 shows the data graphically.

The data shows that the main types were:

- Textiles synthetic textiles, 50.8%;
- Textiles natural fibres, 31.2%; and
- Textiles mixed fibres, 13.0%.

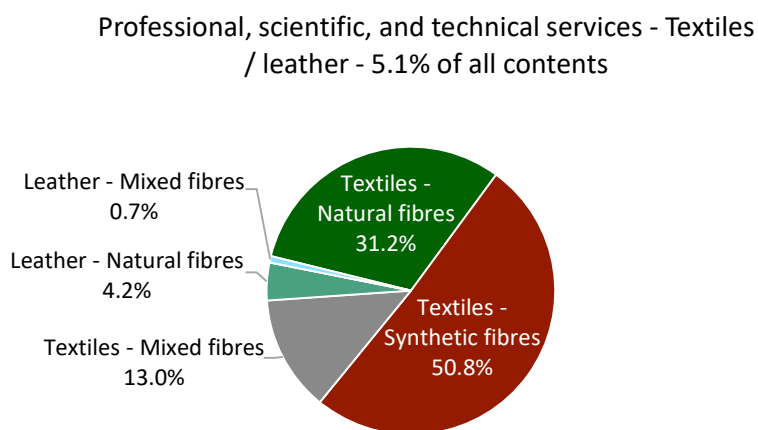
**Table 141 Professional, scientific, and technical services – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.03	0.62
Natural fibres	Textiles	Clothing - wearable	0.45	8.85
Natural fibres	Textiles	Clothing - unwearable	0.02	0.34
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.92	18.12
Natural fibres	Textiles	Towels	0.05	0.94
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.02	0.47
Natural fibres	Textiles	Soft toys	0.08	1.51
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.02	0.31
<b>Sub-total: Textiles</b>			<b>1.59</b>	<b>31.16</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.21	4.24
<b>Sub-total: Leather</b>			<b>0.21</b>	<b>4.24</b>
<b>Sub-total: Natural fibres</b>			<b>1.80</b>	<b>35.40</b>
Synthetic fibres	Textiles	Nappies - cloth	0.02	0.32
Synthetic fibres	Textiles	Clothing - wearable	0.00	0.00
Synthetic fibres	Textiles	Clothing - unwearable	2.18	43.12
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.03	0.66
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.24	4.85
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.09	1.88
<b>Sub-total: Textiles</b>			<b>2.56</b>	<b>50.83</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>2.56</b>	<b>50.83</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.00	0.00

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.00	0.00
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.03	0.65
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.17	3.28
Mixed fibres	Textiles	Soft toys	0.03	0.68
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.42	8.42
<b>Sub-total: Textiles</b>			<b>0.65</b>	<b>13.03</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.04	0.74
<b>Sub-total: Leather</b>			<b>0.04</b>	<b>0.74</b>
<b>Sub-total: Mixed fibres</b>			<b>0.69</b>	<b>13.77</b>
<b>Total</b>			<b>5.05</b>	<b>100.00</b>

Figure 78 Professional, scientific, and technical services – focus material – textiles and leather



## 5.9.8. Focus material: CDS containers

Approximately 3.2% of garbage bag contents from the professional, scientific, and technical services sector is CDS containers. Table 142 provides the CDS containers content in garbage bags from the professional, scientific, and technical services sector, as defined in Table 3.

The data shows:

- By weight, PET containers and aluminium were the most, followed by glass, liquid paper board and steel.
- By count, aluminium was the most, followed by PET and liquid paperboard.

**Table 142 Professional, scientific, and technical services – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	1.23	38.77	110	29.81
HDPE (P2)	0.03	0.83	1	0.27
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.29	9.18	4	1.08
Steel	0.26	8.08	14	3.80
Aluminum	1.10	34.72	200	54.20
Liquid Paperboard	0.27	8.42	40	10.84
<b>Total</b>	<b>3.18</b>	<b>100.00</b>	<b>369</b>	<b>100.00</b>

## 5.9.9. Focus material: other beverage containers

Approximately 1.3% of garbage bag contents from the professional, scientific, and technical services sector is other beverage containers. Table 143 provides the other beverage containers content in garbage bags from the professional, scientific, and technical services sector, as defined in Table 3.

The data shows that approximately 80% of these containers were HDPE beverage containers, followed by wine / champagne bottles and PET fruit & vegetable juice bottles (>1-3L).

**Table 143 Professional, scientific, and technical services – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.05	2	6.45
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.64	25	80.65
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.56	4	12.90
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00



Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>1.25</b>	<b>31</b>	<b>100.00</b>

### 5.9.10. Focus material: single-use items

Table 144 provides the percentage of each single-use items type in garbage bags of all contents and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 53.9% of total single-use items.
- Followed by compostable coffee cups (19.8% of total single-use items) and non-compostable coffee cups (13.9% of total single-use items).

**Table 144 Professional, scientific, and technical services – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.21	3.47
Cardboard	Coffee cups - compostable	1.21	19.82
Cardboard	Coffee cups - non-compostable	0.85	13.93
Cardboard	Other cups	0.01	0.20
Paper	Single-use items	3.28	53.88
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.01	0.24
Plastic	PS/EPS cups	0.01	0.17
Plastic	PS/EPS coffee cup lids	0.24	3.99
Plastic	PS/EPS stemmed cotton buds	0.01	0.17
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.17	2.77
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.08	1.36
<b>Total</b>		<b>6.08</b>	<b>100.00</b>

## 5.10. Administrative and support services

### 5.10.1. Composition using all sorting categories

Table 145 provides the detailed composition of garbage bags from the administrative and support services sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 145 Administrative and support services – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	16.274
S-2	Food organics - packaged	0.656
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	0.636
S-5	Garden organics	0.000
S-6	Organics - other putrescible	0.000
S-7	Wood/untreated - single-use items	0.062
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	3.965
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.000
S-21	Cardboard wet - packaging	0.446
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.000
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.000
S-26	Cardboard - disposable - coffee cups - compostable	0.286
S-27	Cardboard - disposable - coffee cups - non-compostable	0.566
S-28	Cardboard - disposable - other cups	0.000
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.062
S-31	Paper - brochures and leaflets	0.059

	Sorting category	Percentage by weight
S-32	Paper - books	0.902
S-33	Paper - printing/writing (other office)	13.973
S-34	Paper - other packaging	0.961
S-35	Paper - newsprint	1.844
S-36	Paper - brown kraft paper	0.000
S-37	Paper - rolls of low grade	0.137
S-38	Paper - hand towels	8.016
S-39	Paper - single-use items	3.455
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	15.153
S-41	Plastic - PET beverage containers (P1) - CDS	0.672
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.149
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	0.818
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.179
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.000
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.000
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.440
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.751
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.000
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.042
S-58	Plastic - LDPE packaging (P4)	0.247
S-59	Plastic - LDPE non-packaging (P4)	10.844
S-60	Plastic - PP packaging (P5)	1.300
S-61	Plastic - PP non-packaging (P5) - cups	0.000
S-62	Plastic - PP non-packaging (P5) - other	1.124
S-63	Plastic - PS packaging (P6)	0.000
S-64	Plastic - EPS packaging containers (P6)	0.000
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.000
S-68	Plastic - PS/EPS - cups	0.000
S-69	Plastic - PS/EPS - coffee cup lids	0.115
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000

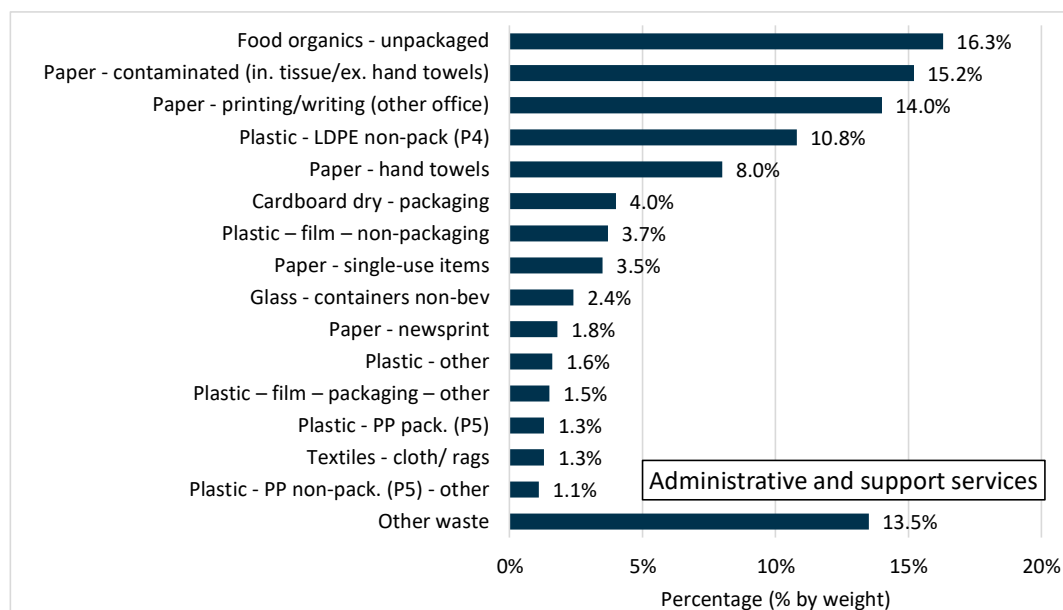
	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.000
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.000
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.000
S-77	Plastic – film – packaging – single use HDPE bags	0.333
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.628
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	1.507
S-81	Plastic – film – non-packaging	3.665
S-82	Plastic - polystyrene foam (EPS)	0.067
S-83	Plastic - other	1.586
S-84	Glass - containers beverage - CDS	0.000
S-85	Glass - containers beverage-not CDS-wine/champagne	0.000
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	2.362
S-94	Glass - containers (fines)	0.678
S-95	Glass - plate / non-packaging (other glass)	0.000
S-96	Metal (ferrous) - packaging beverage - CDS	0.462
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	0.757
S-100	Metal (ferrous) - non-packaging	0.555
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.504
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	0.062
S-105	Metal (non-ferrous) - non-packaging	0.249
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	1.286
S-109	Leather	0.000
S-110	Rubber - tyres, tubes	0.000

	Sorting category	Percentage by weight
S-111	Rubber - other	0.064
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.000
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.000
S-124	C&D - rock/dirt/soil	0.000
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.000
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.000
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.137
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.000
S-139	Hazardous / special - personal care with microbeads	0.213
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.275
S-144	Liquid paperboard (cardboard) - NOT CDS	0.106
S-145	Liquid paperboard (cardboard) - other packaging	0.370
S-146	Nappies (incl. AHW)	0.000
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.000
	<b>Total</b>	<b>100.000</b>

Figure 79 shows the top 15 materials. The top 15 materials in garbage bags from the administrative and support services sector were:

- Food organics - unpackaged
- Paper - contaminated (incl. tissue/excl. hand towels)
- Paper - printing/writing (other office)
- Plastic - LDPE non-packaging (P4)
- Paper - hand towels
- Cardboard dry - packaging
- Plastic – film – non-packaging
- Paper - single-use items
- Glass - containers non-beverage
- Paper - newsprint
- Plastic - other
- Plastic – film – packaging – other
- Plastic - PP packaging (P5)
- Textiles - cloth/ rags
- Plastic - PP non-packaging (P5) - other

**Figure 79 Administrative and support services – top 15 materials**



## 5.10.2. Composition using visual audit categories

### Consolidated composition

Table 146 shows the composition of garbage bags from the administrative and support services sector using the consolidated visual audit categories.

The results show:

- Paper and cardboard occupied most of the garbage bags by weight at 50.6%.
- Followed by plastics (24.5%) and organics (17.6%).
- These materials made up approximately 90% of garbage bag contents.

**Table 146 Administrative and support services – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	50.57
Electrical & Electronic	0.00
Organics	17.63
Glass	3.04
Aggregates, Masonry & Soils	0.00
Metals	2.58
Plastics	24.48
Rubber	0.06
Textiles & Leather	1.29
Nappies	0.00
Hazardous	0.35
Other	0.00
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 147 shows the composition of garbage bags from the administrative and support services sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 147 Administrative and support services – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	0.000
V-4	A, M & soils – other	0.000
V-5	E&E – batteries	0.000
V-6	E&E – computers and peripherals	0.000
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.000
V-11	Glass – non-packaging	0.000
V-12	Glass – packaging	3.040
V-13	Metal – ferrous – non-packaging	0.555
V-14	Metal – ferrous – packaging	1.219
V-15	Metal – aluminium – non-packaging	0.249
V-16	Metal – aluminium – packaging	0.566
V-17	Food organics – unpackaged	16.274
V-18	Food organics – packaged	0.656
V-19	Food organics – liquid	0.636

	Visual category	Percentage by weight
V-20	Garden organics	0.000
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.062
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	3.965
V-30	Cardboard – wet	0.446
V-31	Cardboard – wet strength/waxed	1.603
V-32	Paper – recyclable	20.295
V-33	Paper – non-recyclable	23.169
V-34	Paper – packaging	1.098
V-35	Plastic – EPS foam	0.067
V-36	Plastic – film packaging	2.468
V-37	Plastic – other	17.555
V-38	Plastic – rigid packaging	4.377
V-39	Rubber – other	0.064
V-40	Rubber – tyres	0.000
V-41	Leather	0.000
V-42	Textiles – cloth & rags	1.286
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.137
V-49	Hazardous – Clinical	0.213
V-50	Other waste	0.000
	<b>Total</b>	<b>100.000</b>



### 5.10.3. Recoverability of materials in garbage bags

Table 148 provides the consolidated recoverability composition for garbage bags from the administrative and support services sector. Figure 80 shows the results graphically. The data shows that 52.8% of materials in garbage bags were recoverable now and 23.7% was recoverable in the future.

**Table 148 Administrative and support services – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	52.77
Recoverable in the future	23.73
Not recoverable	23.50
<b>Total</b>	<b>100.00</b>

**Figure 80 Administrative and support services – recoverability consolidated composition**

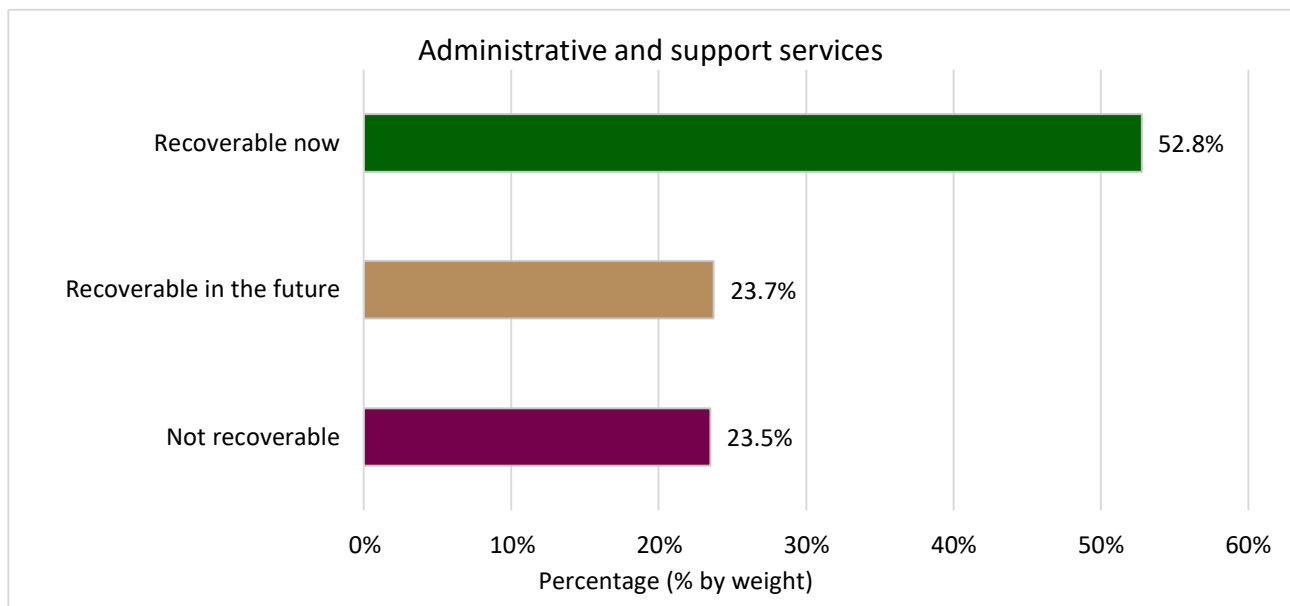


Table 149 provides the detailed recoverability of materials in garbage bags from the administrative and support services sector and Figure 81 shows the data graphically. The data shows that:

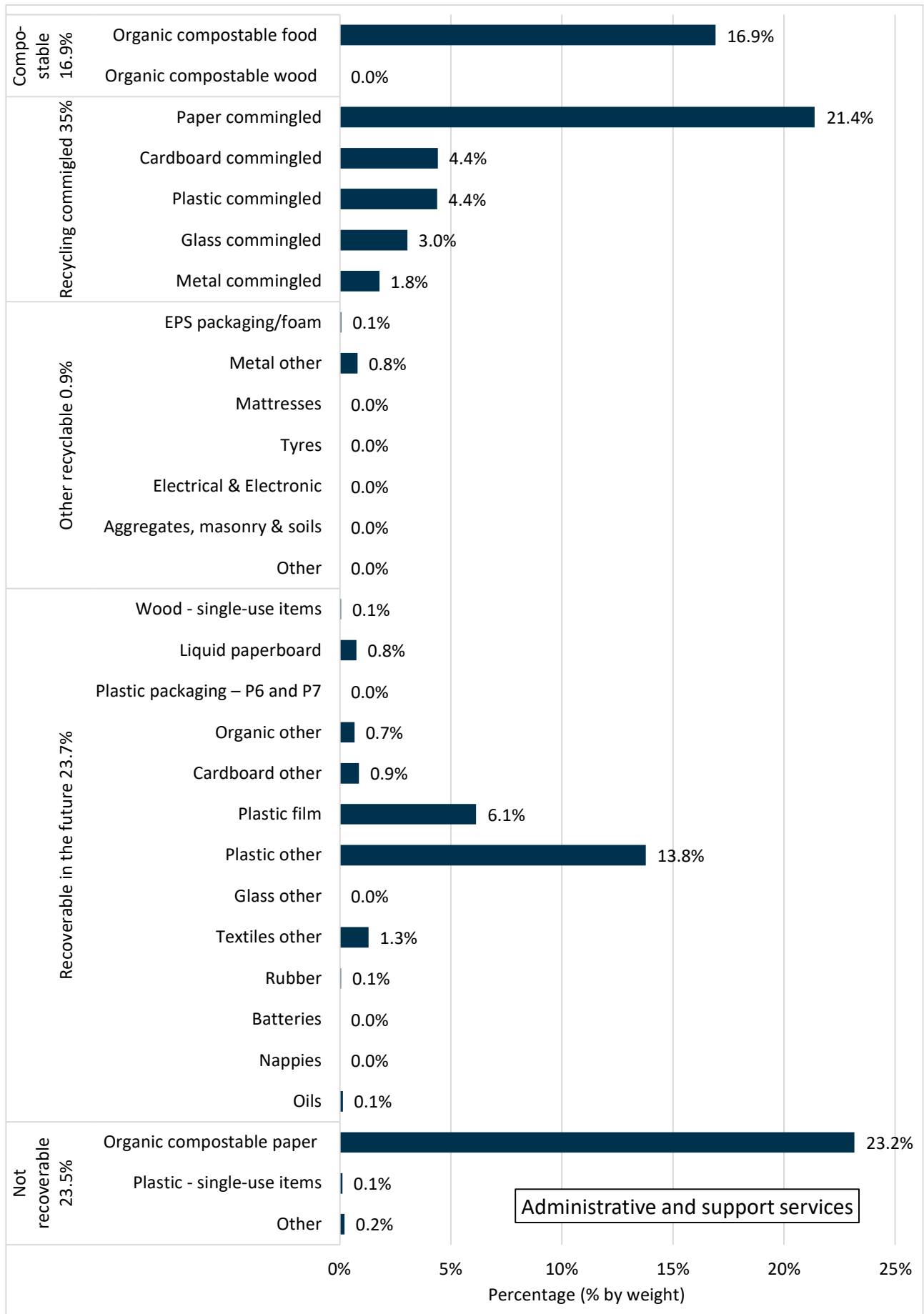
- Most material recoverable now is paper commingled, organics compostable food and other recycling commingled respectively.
- Most material recoverable in the future is plastic other, film and textiles other respectively.

**Table 149 Administrative and support services – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	16.91
Organic compostable wood	0.00
Paper commingled	21.38
Cardboard commingled	4.41
Plastic commingled	4.38
Glass commingled	3.04
Metal commingled	1.78
EPS packaging/foam	0.07
Metal other	0.80
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.00
Aggregates, masonry & soils	0.00
Other ^	0.00
<b>Sub-total: Recoverable now</b>	<b>52.77</b>
Wood – single-use items	0.06
Liquid paperboard	0.75
Plastic packaging – P6 and P7	0.00
Organic other	0.66
Cardboard other	0.86
Plastic film	6.14
Plastic other	13.77
Glass other	0.00
Textiles other	1.29
Rubber	0.06
Batteries	0.00
Nappies	0.00
Oils	0.14
<b>Sub-total: Recoverable in the future</b>	<b>23.73</b>
Organic compostable paper	23.17
Plastic single-use items	0.12
Other	0.21
<b>Sub-total: Not recoverable</b>	<b>23.50</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 81 Administrative and support services – recoverability detailed composition**



## 5.10.4. Focus material: degradable organic content (DOC)

Table 150 provides the DOC in garbage bags from the administrative and support services sector, as defined in Table 3. Figure 82 shows the data graphically. The garbage bag contents were 69.5% DOC, with the top three materials in this order:

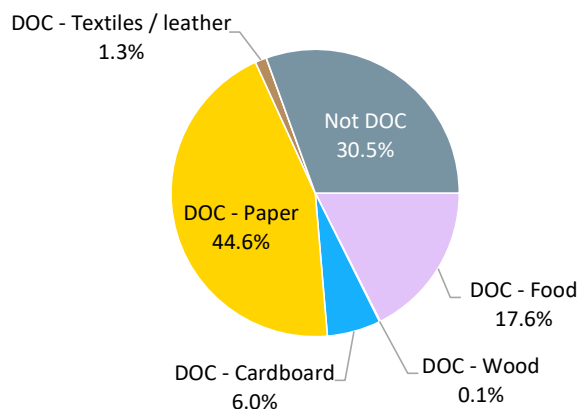
- DOC – paper 44.6%;
- DOC – food 17.6%; and
- DOC – cardboard 6.0%.

**Table 150 Administrative and support services – focus material – DOC**

DOC type	Overall
DOC – food	17.57
DOC – garden organics	0.00
DOC – wood	0.06
DOC – cardboard	6.02
DOC – paper	44.55
DOC – textiles and leather	1.29
DOC – nappies	0.00
<b>Sub-total – DOC content</b>	<b>69.49</b>
Other waste	30.51
<b>Total</b>	<b>100.0</b>

**Figure 82 Administrative and support services – focus material – DOC**

Administrative and support services - Total DOC - 69.49%



## 5.10.5. Focus material: packaging material

Table 151 provides the packaging material content in garbage bags from the administrative and support services sector, as defined in Table 3. Figure 83 shows the data graphically.

The garbage bag contents were 18.7% packaging material, with the top three materials in this order:

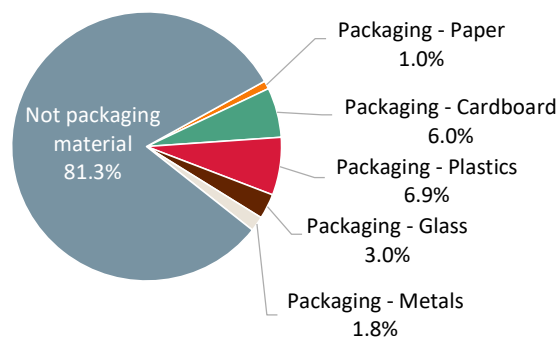
- Packaging – plastics 6.9%.
- Packaging – cardboard 6.0%; and
- Packaging – glass 3.0%.

**Table 151 Administrative and support services – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.96
Packaging - Cardboard	6.02
Packaging - Plastics	6.92
Packaging - Glass	3.04
Packaging - Metals	1.78
<b>Sub-total – packaging material</b>	<b>18.72</b>
Other waste	81.28
<b>Total</b>	<b>100.00</b>

**Figure 83 Administrative and support services – focus material – packaging material**

Administrative and support services - Total Packaging - 18.72%



### 5.10.6. Focus material: food organics

Table 152 provides the food organics content in garbage bags from the administrative and support services sector, as defined in Table 3. Figure 84 shows the data graphically.

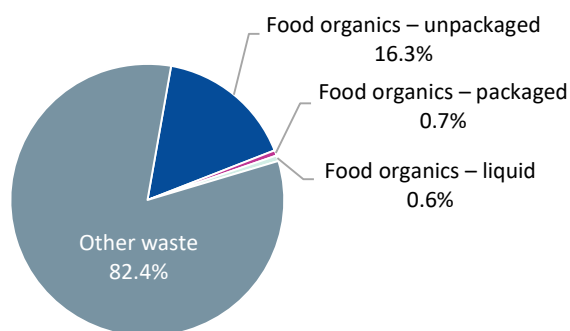
The data shows that approximately 17.6% of garbage bag contents is food organics; with 16.3% unpackaged food and 1.3% packaged food including cooking oil or other liquid.

**Table 152 Administrative and support services – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	16.27
Food organics – packaged	0.66
Food organics – liquid	0.64
<b>Sub-total – food organics</b>	<b>17.57</b>
Other waste	82.43
<b>Total</b>	<b>100.00</b>

**Figure 84 Administrative and support services – focus material – food organics**

Administrative and support services - Total Food organics - 17.57%



### 5.10.7. Focus material: textiles and leather

Approximately 1.3% of garbage bag contents from the administrative and support services sector is textiles and leather. Table 153 provides the types of textiles and leather content in garbage bags from the administrative and support services sector and Figure 85 shows the data graphically.

The data shows that all textiles audited was synthetic textiles, with no leather audited.

**Table 153 Administrative and support services – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.00	0.00
Natural fibres	Textiles	Clothing - unwearable	0.00	0.00
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.00	0.00
Natural fibres	Textiles	Towels	0.00	0.00
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>0.00</b>	<b>0.00</b>
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>0.00</b>	<b>0.00</b>
Synthetic fibres	Textiles	Nappies - cloth	0.37	28.54
Synthetic fibres	Textiles	Clothing - wearable	0.00	0.00
Synthetic fibres	Textiles	Clothing - unwearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.92	71.46
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>1.29</b>	<b>100.00</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>1.29</b>	<b>100.00</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.00	0.00
Mixed fibres	Textiles	Clothing - unwearable	0.00	0.00
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>0.00</b>	<b>0.00</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Mixed fibres</b>			<b>0.00</b>	<b>0.00</b>
<b>Total</b>			<b>1.29</b>	<b>100.00</b>

Figure 85 Administrative and support services – focus material – textiles and leather

Administrative and support services - Textiles / leather  
- 1.3% of all contents





## 5.10.8. Focus material: CDS containers

Approximately 1.9% of garbage bag contents from the administrative and support services sector is CDS containers. Table 154 provides the CDS containers content in garbage bags from the administrative and support services sector, as defined in Table 3.

The data shows:

- By weight, PET was the most, followed by aluminium and steel.
- By count, PET was the most, followed by aluminium, steel and liquid paperboard.

**Table 154 Administrative and support services – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.67	35.14	14	41.18
HDPE (P2)	0.00	0.00	0	0.00
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.00	0.00	0	0.00
Steel	0.46	24.16	4	11.76
Aluminum	0.50	26.35	12	35.29
Liquid Paperboard	0.27	14.35	4	11.77
<b>Total</b>	<b>1.90</b>	<b>100.00</b>	<b>34</b>	<b>100.00</b>

## 5.10.9. Focus material: other beverage containers

Approximately 0.6% of garbage bag contents from the administrative and support services sector is other beverage containers. Table 155 provides the other beverage containers content in garbage bags from the administrative and support services sector, as defined in Table 3.

The data shows that the most common was HDPE beverage containers and PET fruit & vegetable juice bottles (>1-3L).

**Table 155 Administrative and support services – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.15	1	25.00
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.44	3	75.00
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.00	0	0.00
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>0.59</b>	<b>4</b>	<b>100.00</b>

### 5.10.10. Focus material: single-use items

Table 156 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 63.5% of total single-use items.
- Followed by LDPE bags (11.5% of total single-use items) and non-compostable coffee cups (10.4% of total single-use items).

**Table 156 Administrative and support services – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.06	1.13
Cardboard	Coffee cups - compostable	0.29	5.25
Cardboard	Coffee cups - non-compostable	0.57	10.40
Cardboard	Other cups	0.00	0.00
Paper	Single-use items	3.45	63.46
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.00	0.00
Plastic	PS/EPS cups	0.00	0.00
Plastic	PS/EPS coffee cup lids	0.12	2.11
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.33	6.12
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.63	11.53
<b>Total</b>		<b>5.45</b>	<b>100.00</b>

## 5.11. Public administration and safety

### 5.11.1. Composition using all sorting categories

Table 157 provides the detailed composition of garbage bags from the public administration and safety services sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 157 Public administration and safety – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	18.825
S-2	Food organics - packaged	22.760
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	0.567
S-5	Garden organics	0.000
S-6	Organics - other putrescible	0.000
S-7	Wood/untreated - single-use items	0.109
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	2.139
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.000
S-21	Cardboard wet - packaging	0.078
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.000
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.000
S-26	Cardboard - disposable - coffee cups - compostable	0.177
S-27	Cardboard - disposable - coffee cups - non-compostable	1.420
S-28	Cardboard - disposable - other cups	0.000
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.947
S-31	Paper - brochures and leaflets	0.000

	Sorting category	Percentage by weight
S-32	Paper - books	0.000
S-33	Paper - printing/writing (other office)	1.821
S-34	Paper - other packaging	0.000
S-35	Paper - newsprint	0.324
S-36	Paper - brown kraft paper	0.000
S-37	Paper - rolls of low grade	0.000
S-38	Paper - hand towels	7.694
S-39	Paper - single-use items	0.931
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	4.437
S-41	Plastic - PET beverage containers (P1) - CDS	0.065
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.128
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	1.292
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.000
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.000
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.000
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.000
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.252
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.019
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.019
S-58	Plastic - LDPE packaging (P4)	0.000
S-59	Plastic - LDPE non-packaging (P4)	1.800
S-60	Plastic - PP packaging (P5)	1.068
S-61	Plastic - PP non-packaging (P5) - cups	0.962
S-62	Plastic - PP non-packaging (P5) - other	0.000
S-63	Plastic - PS packaging (P6)	0.000
S-64	Plastic - EPS packaging containers (P6)	0.000
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	1.211
S-68	Plastic - PS/EPS - cups	0.006
S-69	Plastic - PS/EPS - coffee cup lids	0.000
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.436

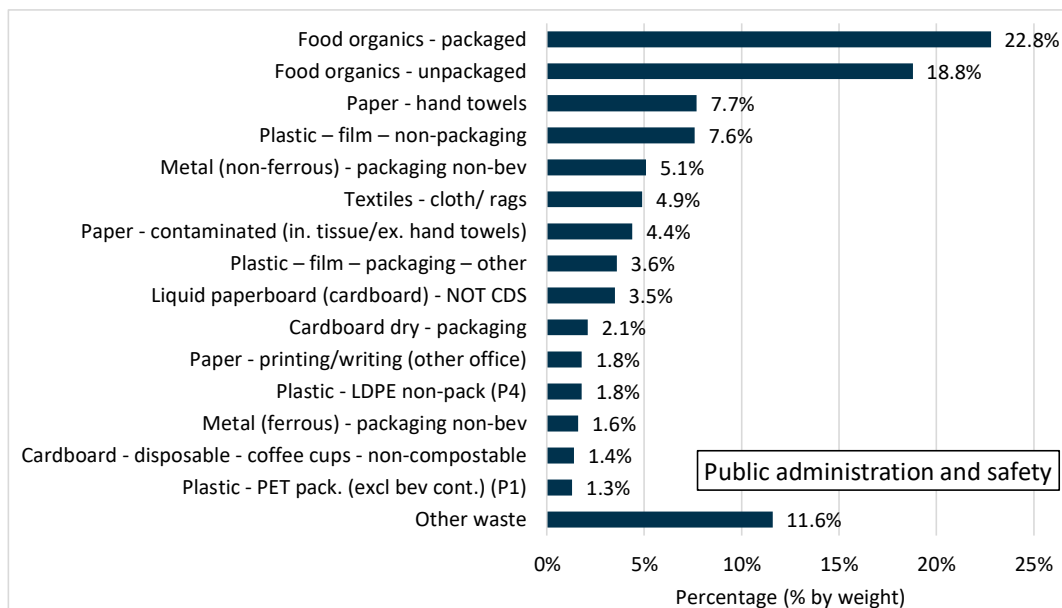
	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.000
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.000
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.000
S-77	Plastic – film – packaging – single use HDPE bags	0.028
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.000
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	3.624
S-81	Plastic – film – non-packaging	7.550
S-82	Plastic - polystyrene foam (EPS)	0.000
S-83	Plastic - other	0.000
S-84	Glass - containers beverage - CDS	0.651
S-85	Glass - containers beverage-not CDS-wine/champagne	0.000
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.405
S-94	Glass - containers (fines)	0.000
S-95	Glass - plate / non-packaging (other glass)	0.000
S-96	Metal (ferrous) - packaging beverage - CDS	0.000
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	1.638
S-100	Metal (ferrous) - non-packaging	0.000
S-101	Metal (non-ferrous) - packaging beverage - CDS	1.208
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	5.097
S-105	Metal (non-ferrous) - non-packaging	0.019
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	4.910
S-109	Leather	0.000
S-110	Rubber - tyres, tubes	0.000

	Sorting category	Percentage by weight
S-111	Rubber - other	0.716
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.000
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.000
S-124	C&D - rock/dirt/soil	0.000
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.000
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.000
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.000
S-139	Hazardous / special - personal care with microbeads	0.318
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.570
S-144	Liquid paperboard (cardboard) - NOT CDS	3.549
S-145	Liquid paperboard (cardboard) - other packaging	0.230
S-146	Nappies (incl. AHW)	0.000
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.000
	<b>Total</b>	<b>100.000</b>

Figure 86 shows the top 15 materials. The top 15 materials in garbage bags from the public administration and safety services sector were:

- Food organics – packaged
- Food organics – unpackaged
- Paper – hand towels
- Plastic – film – non-packaging
- Metal (non-ferrous) – packaging non-beverage
- Textiles – cloth / rags
- Paper – contaminated (incl. tissue/excl. hand towels)
- Plastic – film – packaging – other
- Liquid paperboard (cardboard) – NOT CDS
- Cardboard dry – packaging
- Paper – printing / writing (other office)
- Plastic – LDPE non-packaging (P4)
- Metal (ferrous) – packaging non-beverage
- Cardboard – disposable – coffee cups – non-compostable
- Plastic – PET packaging (excl. beverage containers) (P1)

**Figure 86 Public administration and safety – top 15 materials**



## 5.11.2. Composition using visual audit categories

### Consolidated composition

Table 158 shows the composition of garbage bags from the public administration and safety services sector using the consolidated visual audit categories.

The results show:

- Organics occupied most of the garbage bag contents by weight at 42.3%.
- Followed by paper and cardboard (24.3%), plastics (18.5%) and metals (8.0%).
- These materials made up approximately 90% of garbage bag contents.

**Table 158 Public administration and safety – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	24.32
Electrical & Electronic	0.00
Organics	42.26
Glass	1.05
Aggregates, Masonry & Soils	0.00
Metals	7.97
Plastics	18.45
Rubber	0.72
Textiles & Leather	4.91
Nappies	0.00
Hazardous	0.32
Other	0.00
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 159 shows the composition of garbage bags from the public administration and safety services sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 159 Public administration and safety – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	0.000
V-4	A, M & soils – other	0.000
V-5	E&E – batteries	0.000
V-6	E&E – computers and peripherals	0.000
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.000
V-11	Glass – non-packaging	0.000
V-12	Glass – packaging	1.056
V-13	Metal – ferrous – non-packaging	0.000
V-14	Metal – ferrous – packaging	1.638
V-15	Metal – aluminium – non-packaging	0.019
V-16	Metal – aluminium – packaging	6.305
V-17	Food organics – unpackaged	18.825
V-18	Food organics – packaged	22.760
V-19	Food organics – liquid	0.567



	Visual category	Percentage by weight
V-20	Garden organics	0.000
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.109
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	2.139
V-30	Cardboard – wet	0.078
V-31	Cardboard – wet strength/waxed	5.946
V-32	Paper – recyclable	4.023
V-33	Paper – non-recyclable	12.131
V-34	Paper – packaging	0.000
V-35	Plastic – EPS foam	0.000
V-36	Plastic – film packaging	3.652
V-37	Plastic – other	11.984
V-38	Plastic – rigid packaging	2.824
V-39	Rubber – other	0.716
V-40	Rubber – tyres	0.000
V-41	Leather	0.000
V-42	Textiles – cloth & rags	4.910
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.000
V-49	Hazardous – Clinical	0.318
V-50	Other waste	0.000
	<b>Total</b>	<b>100.000</b>

### 5.11.3. Recoverability of materials in garbage bags

Table 160 provides the consolidated recoverability composition for garbage bags from the public administration and safety services sector. Figure 87 shows the results graphically. The data shows that 37.5% of materials in garbage bags were recoverable now and 48.4% was recoverable in the future.

**Table 160 Public administration and safety – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	37.47
Recoverable in the future	48.43
Not recoverable	14.10
<b>Total</b>	<b>100.00</b>

**Figure 87 Public administration and safety – recoverability consolidated composition**

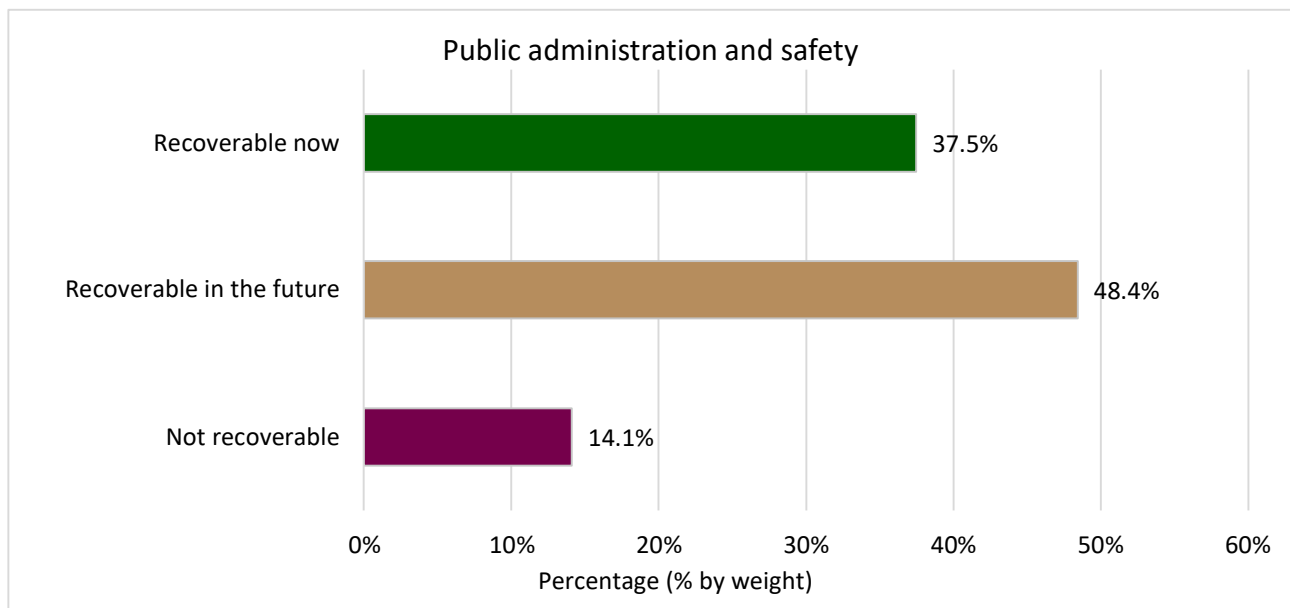


Table 161 provides the detailed recoverability of materials in garbage bags from the public administration and safety services sector and Figure 88 shows the data graphically. The data shows that:

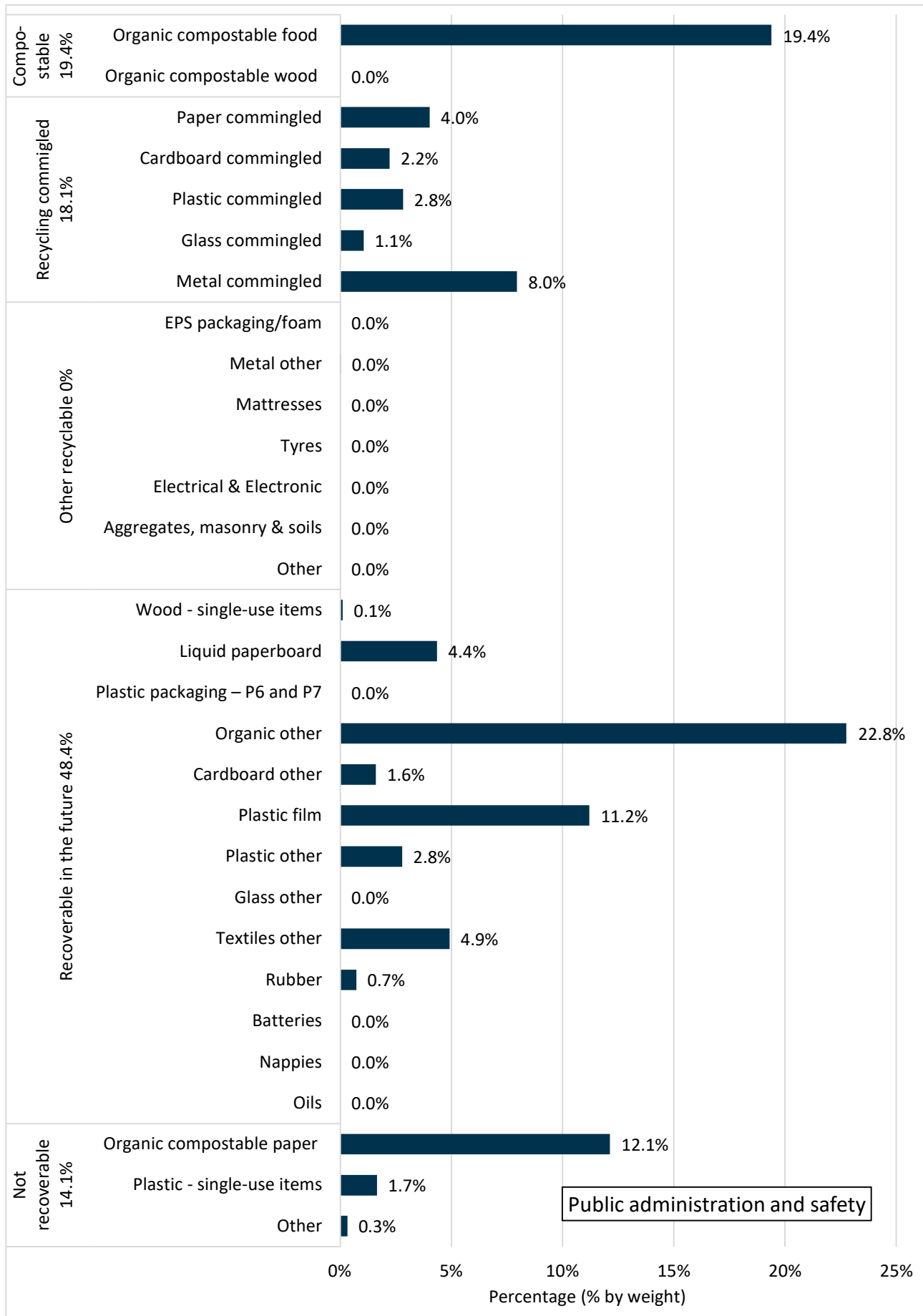
- Most material recoverable now is organic compostable food, metal commingled and other recycling commingled respectively.
- Most material recoverable in the future is organic other, plastic film, textiles other, liquid paperboard, plastic other and cardboard other respectively.

**Table 161 Public administration and safety – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	19.39
Organic compostable wood	0.00
Paper commingled	4.02
Cardboard commingled	2.22
Plastic commingled	2.82
Glass commingled	1.05
Metal commingled	7.95
EPS packaging/foam	0.00
Metal other	0.02
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.00
Aggregates, masonry & soils	0.00
Other ^	0.00
<b>Sub-total: Recoverable now</b>	<b>37.47</b>
Wood – single-use items	0.11
Liquid paperboard	4.35
Plastic packaging – P6 and P7	0.00
Organic other	22.76
Cardboard other	1.60
Plastic film	11.20
Plastic other	2.78
Glass other	0.00
Textiles other	4.91
Rubber	0.72
Batteries	0.00
Nappies	0.00
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>48.43</b>
Organic compostable paper	12.13
Plastic single-use items	1.65
Other	0.32
<b>Sub-total: Not recoverable</b>	<b>14.10</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 88 Public administration and safety – recoverability detailed composition**



## 5.11.4. Focus material: degradable organic content (DOC)

Table 162 provides the DOC in garbage bags from the public administration and safety services sector, as defined in Table 3. Figure 89 shows the data graphically. The garbage bag contents were 71.5% DOC, with the top three materials in this order:

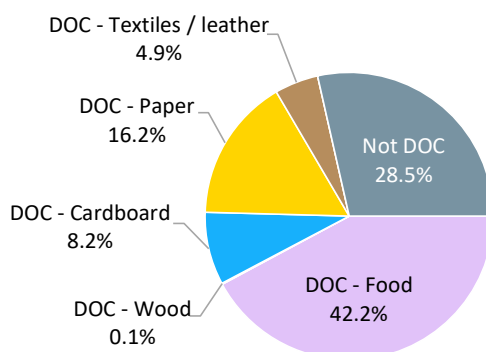
- DOC – food 42.2%;
- DOC – paper 16.2%; and
- DOC – cardboard 8.2%.

**Table 162 Public administration and safety – focus material – DOC**

DOC type	Overall
DOC – food	42.15
DOC – garden organics	0.00
DOC – wood	0.11
DOC – cardboard	8.17
DOC – paper	16.15
DOC – textiles and leather	4.91
DOC – nappies	0.00
<b>Sub-total – DOC content</b>	<b>71.49</b>
Other waste	28.51
<b>Total</b>	<b>100.0</b>

**Figure 89 Public administration and safety – focus material – DOC**

Public administration and safety - Total DOC - 71.49%



## 5.11.5. Focus material: packaging material

Table 163 provides the packaging material content in garbage bags from the public administration and safety services sector, as defined in Table 3. Figure 90 shows the data graphically.

The garbage bag contents were 23.6% packaging material, with the top three materials in this order:

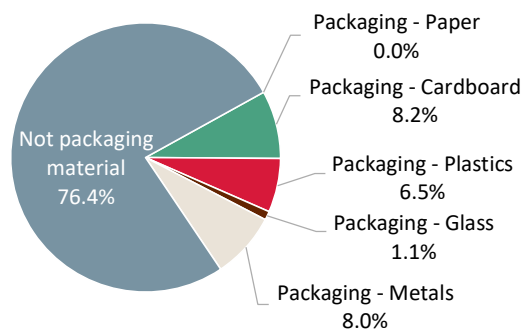
- Packaging – cardboard 8.2%.
- Packaging – metals 8.0%; and
- Packaging – plastics 6.5%.

**Table 163 Public administration and safety – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.00
Packaging - Cardboard	8.17
Packaging - Plastics	6.47
Packaging - Glass	1.05
Packaging - Metals	7.95
<b>Sub-total – packaging material</b>	<b>23.64</b>
Other waste	76.36
<b>Total</b>	<b>100.00</b>

**Figure 90 Public administration and safety – focus material – packaging material**

Public administration and safety - Total Packaging - 23.64%



### 5.11.6. Focus material: food organics

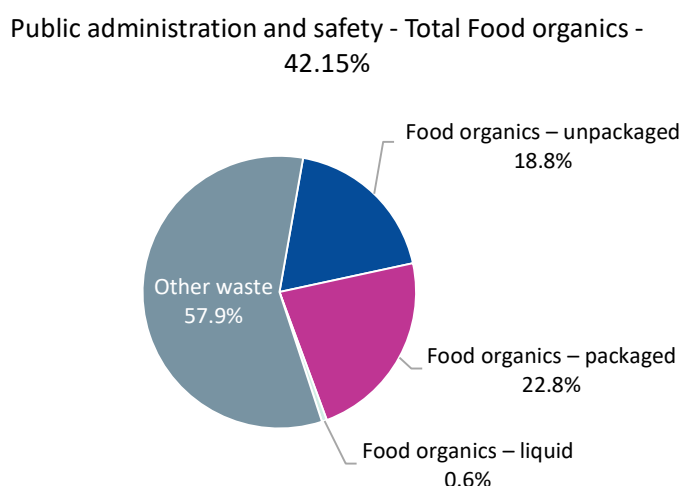
Table 164 provides the food organics content in garbage bags from the public administration and safety services sector, as defined in Table 3. Figure 91 shows the data graphically.

The data shows that approximately 42.2% of garbage bag contents is food organics; with 18.8% unpackaged food and 23.3% packaged food including cooking oil or other liquid.

**Table 164 Public administration and safety – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	18.82
Food organics – packaged	22.76
Food organics – liquid	0.57
<b>Sub-total – food organics</b>	<b>42.15</b>
Other waste	57.85
<b>Total</b>	<b>100.00</b>

**Figure 91 Public administration and safety – focus material – food organics**



### 5.11.7. Focus material: textiles and leather

Approximately 5.0% of garbage bag contents from the public administration and safety services sector is textiles and leather. Table 165 provides the types of textiles and leather content in garbage bags from the public administration and safety services sector and Figure 92 shows the data graphically.

The data shows that the main types were:

- Textiles synthetic textiles, 57.8%;
- Textiles mixed fibres, 37.4%; and
- Textiles natural fibres, 4.9%.

**Table 165 Public administration and safety – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.24	4.88
Natural fibres	Textiles	Clothing - wearable	0.00	0.00
Natural fibres	Textiles	Clothing - unwearable	0.00	0.00
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.00	0.00
Natural fibres	Textiles	Towels	0.00	0.00
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>0.24</b>	<b>4.88</b>

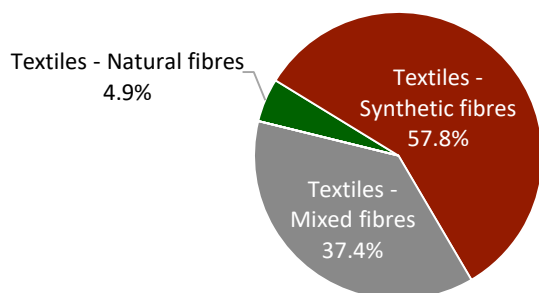
Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>0.24</b>	<b>4.88</b>
Synthetic fibres	Textiles	Nappies - cloth	0.00	0.00
Synthetic fibres	Textiles	Clothing - wearable	0.00	0.00
Synthetic fibres	Textiles	Clothing - unwearable	2.58	52.51
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.26	5.26
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>2.84</b>	<b>57.77</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>2.84</b>	<b>57.77</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.00	0.00



Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.00	0.00
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	1.83	37.35
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>1.83</b>	<b>37.35</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Mixed fibres</b>			<b>1.83</b>	<b>37.35</b>
<b>Total</b>			<b>4.91</b>	<b>100.00</b>

Figure 92 Public administration and safety – focus material – textiles and leather

Public administration and safety - Textiles / leather -  
4.9% of all contents



### 5.11.8. Focus material: CDS containers

Approximately 2.5% of garbage bag contents from the public administration and safety services sector is CDS containers. Table 166 provides the CDS containers content in garbage bags from the public administration sector, as defined in Table 3.

The data shows:

- By weight, aluminium was the most, followed by glass and liquid paperboard.
- By count, aluminium was the most, followed by liquid paperboard.

**Table 166 Public administration and safety – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.06	2.62	1	2.63
HDPE (P2)	0.00	0.00	0	0.00
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.65	26.09	1	2.63
Steel	0.00	0.00	0	0.00
Aluminum	1.21	48.44	26	68.42
Liquid Paperboard	0.57	22.85	10	26.32
<b>Total</b>	<b>2.49</b>	<b>100.00</b>	<b>38</b>	<b>100.00</b>

### 5.11.9. Focus material: other beverage containers

Approximately 0.1% of garbage bag contents from the public administration and safety services sector is other beverage containers. Table 167 provides the other beverage containers content in garbage bags from the public administration sector, as defined in Table 3.

The data shows only one PET fruit & vegetable juice container (>1-3L) was audited.

**Table 167 Public administration and safety – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.13	1	100.00
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.00	0	0.00
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.00	0	0.00
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00
Glass	Cordial	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>0.13</b>	<b>1</b>	<b>100.00</b>

### 5.11.10. Focus material: single-use items

Table 168 provides the percentage of each single-use items type in garbage bags of all contents and of the total single-use items by weight. The data shows:

- Coffee cups - non-compostable occupied 32.9% of total single-use items
- Followed by PS/EPS cutlery (28.1% of total single-use items) and Paper single-use items (21.6% of total single-use items).

**Table 168 Public administration and safety – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.11	2.52
Cardboard	Coffee cups - compostable	0.18	4.11
Cardboard	Coffee cups - non-compostable	1.42	32.88
Cardboard	Other cups	0.00	0.00
Paper	Single-use items	0.93	21.56
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	1.21	28.05
Plastic	PS/EPS cups	0.01	0.14
Plastic	PS/EPS coffee cup lids	0.00	0.00
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.43	10.09
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.03	0.65
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.00	0.00
<b>Total</b>		<b>4.32</b>	<b>100.00</b>

## 5.12. Arts and recreation services

### 5.12.1. Composition using all sorting categories

Table 168 provides the detailed composition of garbage bags from the arts and recreation services sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 169 Arts and recreation services – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	17.498
S-2	Food organics - packaged	5.233
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	5.804
S-5	Garden organics	0.243
S-6	Organics - other putrescible	0.000
S-7	Wood/untreated - single-use items	0.853
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.025
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.000
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	4.005
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.368
S-21	Cardboard wet - packaging	1.038
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.194
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.448
S-26	Cardboard - disposable - coffee cups - compostable	1.032
S-27	Cardboard - disposable - coffee cups - non-compostable	0.875
S-28	Cardboard - disposable - other cups	0.207
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.745
S-31	Paper - brochures and leaflets	0.007

	Sorting category	Percentage by weight
S-32	Paper - books	0.000
S-33	Paper - printing/writing (other office)	2.466
S-34	Paper - other packaging	0.463
S-35	Paper - newsprint	0.271
S-36	Paper - brown kraft paper	0.044
S-37	Paper - rolls of low grade	2.540
S-38	Paper - hand towels	3.711
S-39	Paper - single-use items	4.290
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	4.989
S-41	Plastic - PET beverage containers (P1) - CDS	1.689
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.348
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	1.797
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.251
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.036
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.157
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.405
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.391
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.081
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.075
S-58	Plastic - LDPE packaging (P4)	0.082
S-59	Plastic - LDPE non-packaging (P4)	0.517
S-60	Plastic - PP packaging (P5)	1.852
S-61	Plastic - PP non-packaging (P5) - cups	0.271
S-62	Plastic - PP non-packaging (P5) - other	0.078
S-63	Plastic - PS packaging (P6)	0.043
S-64	Plastic - EPS packaging containers (P6)	0.000
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.000
S-68	Plastic - PS/EPS - cups	0.024
S-69	Plastic - PS/EPS - coffee cup lids	0.232
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000

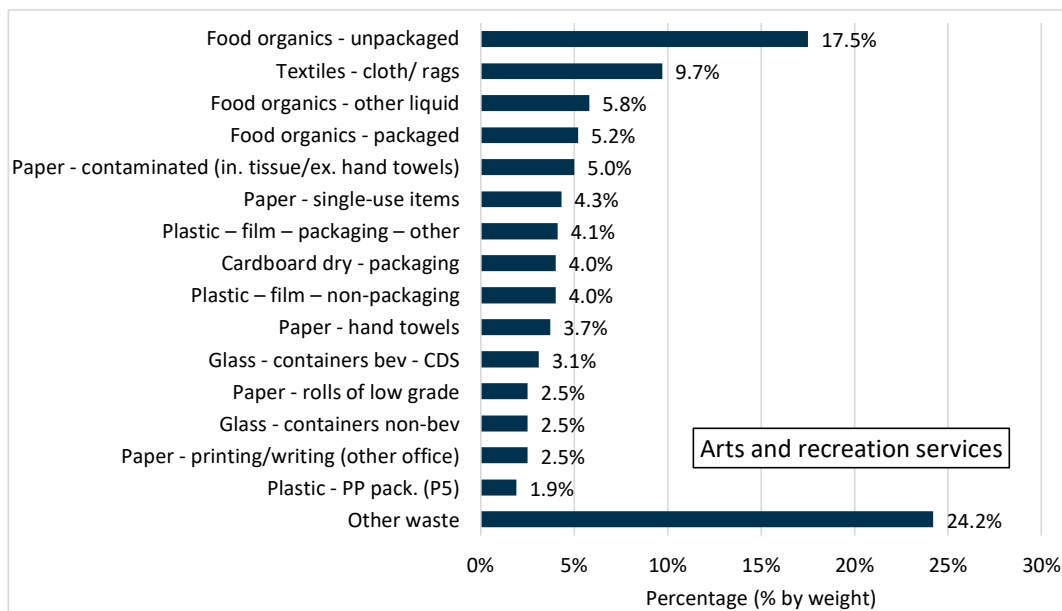
	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.000
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.019
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.207
S-77	Plastic – film – packaging – single use HDPE bags	0.574
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.342
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.000
S-80	Plastic – film – packaging – other	4.119
S-81	Plastic – film – non-packaging	3.983
S-82	Plastic - polystyrene foam (EPS)	0.018
S-83	Plastic - other	1.118
S-84	Glass - containers beverage - CDS	3.055
S-85	Glass - containers beverage-not CDS-wine/champagne	0.103
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	2.499
S-94	Glass - containers (fines)	0.109
S-95	Glass - plate / non-packaging (other glass)	0.259
S-96	Metal (ferrous) - packaging beverage - CDS	0.029
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	1.646
S-100	Metal (ferrous) - non-packaging	0.649
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.436
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.035
S-104	Metal (non-ferrous) - packaging non-beverage	0.142
S-105	Metal (non-ferrous) - non-packaging	0.065
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	9.748
S-109	Leather	0.000
S-110	Rubber - tyres, tubes	0.000

	Sorting category	Percentage by weight
S-111	Rubber - other	1.089
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.012
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.782
S-121	C&D - concrete	0.243
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.000
S-124	C&D - rock/dirt/soil	0.000
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.031
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.447
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.000
S-139	Hazardous / special - personal care with microbeads	0.000
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.248
S-144	Liquid paperboard (cardboard) - NOT CDS	0.300
S-145	Liquid paperboard (cardboard) - other packaging	0.269
S-146	Nappies (incl. AHW)	1.666
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.080
	<b>Total</b>	<b>100.000</b>

Figure 93 shows the top 15 materials. The top 15 materials in garbage bags from the arts and recreation services sector were:

- Food organics – unpackaged
- Textiles – cloth / rags
- Food organics – other liquid
- Food organics – packaged
- Paper – contaminated (incl. tissue/excl. hand towels)
- Paper – single-use items
- Plastic – film – packaging – other
- Cardboard dry – packaging
- Plastic – film – non-packaging
- Paper – hand towels
- Glass – beverage containers – CDS
- Paper – rolls of low grade
- Glass – non-beverage containers
- Paper – printing / writing (other office)
- Plastic – PP packaging (P5)

**Figure 93 Arts and recreation services – top 15 materials**



## 5.12.2. Composition using visual audit categories

### Consolidated composition

Table 170 shows the composition of garbage bags from the arts and recreation services sector using the consolidated visual audit categories.

The results show:

- Organics occupied most of the garbage bag contents by weight at 29.7%.
- Followed by paper and cardboard (28.5%), plastics (18.7%) and textiles and leather (9.8%).
- These materials made up approximately 85% of garbage bag contents.



**Table 170 Arts and recreation services – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	28.51
Electrical & Electronic	0.82
Organics	29.65
Glass	6.02
Aggregates, Masonry & Soils	0.24
Metals	3.00
Plastics	18.72
Rubber	1.09
Textiles & Leather	9.75
Nappies	1.67
Hazardous	0.45
Other	0.08
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 171 shows the composition of garbage bags from the arts and recreation services sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 171 Arts and recreation services – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.243
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	0.000
V-4	A, M & soils – other	0.000
V-5	E&E – batteries	0.031
V-6	E&E – computers and peripherals	0.000
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.794
V-11	Glass – non-packaging	0.259
V-12	Glass – packaging	5.766
V-13	Metal – ferrous – non-packaging	0.649
V-14	Metal – ferrous – packaging	1.675
V-15	Metal – aluminium – non-packaging	0.065
V-16	Metal – aluminium – packaging	0.613
V-17	Food organics – unpackaged	17.498
V-18	Food organics – packaged	5.233
V-19	Food organics – liquid	5.804

	Visual category	Percentage by weight
V-20	Garden organics	0.243
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.000
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.853
V-27	Wood – untreated – furniture	0.025
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	4.199
V-30	Cardboard – wet	1.038
V-31	Cardboard – wet strength/waxed	3.747
V-32	Paper – recyclable	7.779
V-33	Paper – non-recyclable	8.700
V-34	Paper – packaging	3.047
V-35	Plastic – EPS foam	0.018
V-36	Plastic – film packaging	5.035
V-37	Plastic – other	6.792
V-38	Plastic – rigid packaging	6.864
V-39	Rubber – other	1.089
V-40	Rubber – tyres	0.000
V-41	Leather	0.000
V-42	Textiles – cloth & rags	9.748
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.447
V-49	Hazardous – Clinical	0.000
V-50	Other waste	1.746
	<b>Total</b>	<b>100.000</b>

### 5.12.3. Recoverability of materials in garbage bags

Table 172 provides the consolidated recoverability composition for garbage bags from the arts and recreation services sector. Figure 94 shows the results graphically. The data shows that 75.1% of materials in garbage bags were recoverable now and 24.8% was recoverable in the future.

**Table 172 Arts and recreation services – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	75.13
Recoverable in the future	24.79
Not recoverable	0.08
<b>Total</b>	<b>100.00</b>

**Figure 94 Arts and recreation services – recoverability consolidated composition**

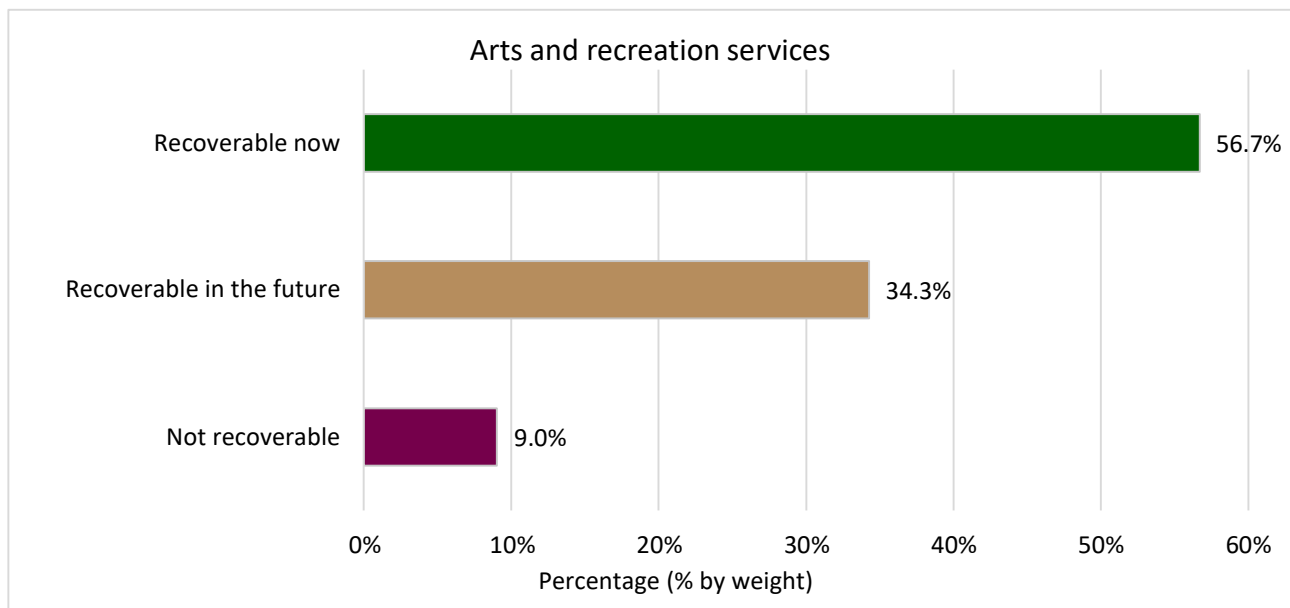


Table 173 provides the detailed recoverability of materials in garbage bags from the arts and recreation services sector and Figure 95 shows the data graphically. The data shows that:

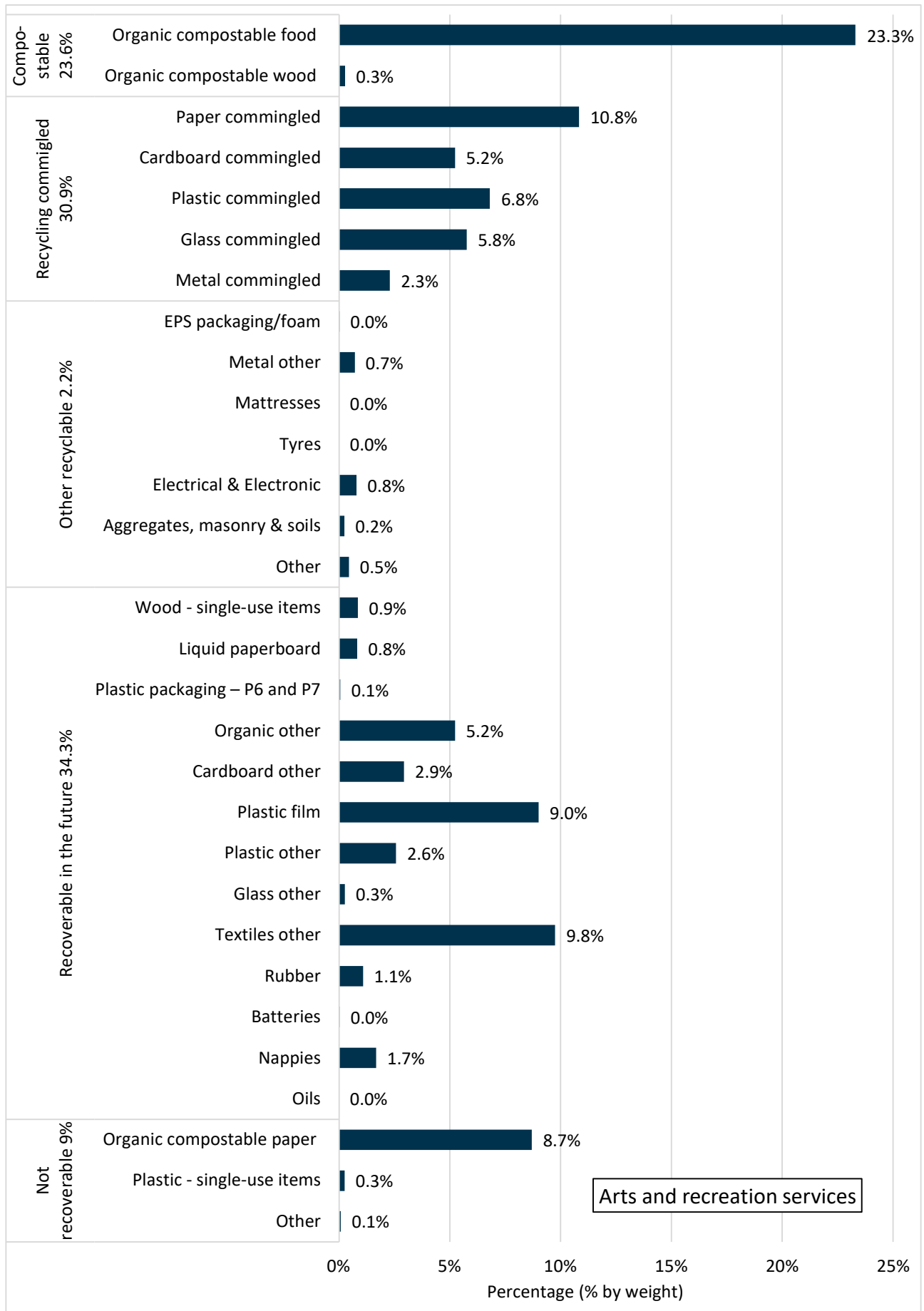
- Most material recoverable now is organic compostable food, paper commingled and other recycling commingled respectively.
- Most material recoverable in the future is textiles other, plastic film, organic other, cardboard other, plastic other, nappies and rubber respectively.

**Table 173 Arts and recreation services – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	23.30
Organic compostable wood	0.27
Paper commingled	10.83
Cardboard commingled	5.23
Plastic commingled	6.81
Glass commingled	5.76
Metal commingled	2.29
EPS packaging/foam	0.02
Metal other	0.71
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.79
Aggregates, masonry & soils	0.24
Other ^	0.45
<b>Sub-total: Recoverable now</b>	<b>56.70</b>
Wood – single-use items	0.85
Liquid paperboard	0.82
Plastic packaging – P6 and P7	0.06
Organic other	5.23
Cardboard other	2.93
Plastic film	9.01
Plastic other	2.57
Glass other	0.26
Textiles other	9.75
Rubber	1.09
Batteries	0.03
Nappies	1.67
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>34.27</b>
Organic compostable paper	8.70
Plastic single-use items	0.25
Other	0.08
<b>Sub-total: Not recoverable</b>	<b>9.03</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

Figure 95 Arts and recreation services – recoverability detailed composition



Arts and recreation services

## 5.12.4. Focus material: degradable organic content (DOC)

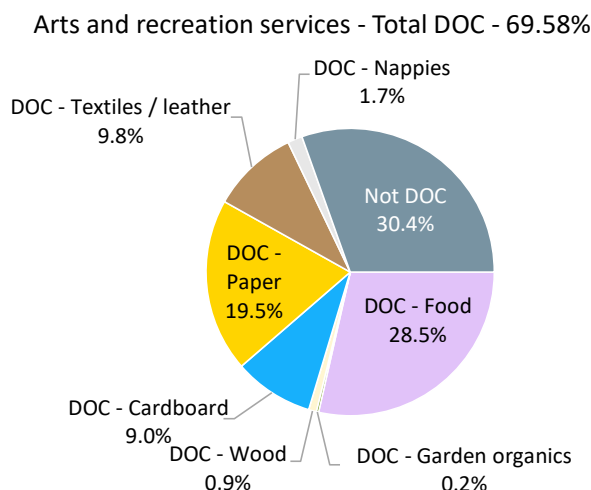
Table 174 provides the DOC in garbage bags from the arts and recreation services sector, as defined in Table 3. Figure 96 shows the data graphically. The garbage bag contents were 69.6% DOC, with the top three materials in this order:

- DOC – food 28.5%;
- DOC – paper 19.5%; and
- DOC – textiles 9.8%.

**Table 174 Arts and recreation services – focus material – DOC**

DOC type	Overall
DOC – food	28.53
DOC – garden organics	0.24
DOC – wood	0.88
DOC – cardboard	8.98
DOC – paper	19.53
DOC – textiles and leather	9.75
DOC – nappies	1.67
<b>Sub-total – DOC content</b>	<b>69.58</b>
Other waste	30.42
<b>Total</b>	<b>100.0</b>

**Figure 96 Arts and recreation services – focus material – DOC**



## 5.12.5. Focus material: packaging material

Table 175 provides the packaging material content in garbage bags from the arts and recreation services sector, as defined in Table 3. Figure 97 shows the data graphically.

The garbage bag contents were 29.5% packaging material, with the top three materials in this order:

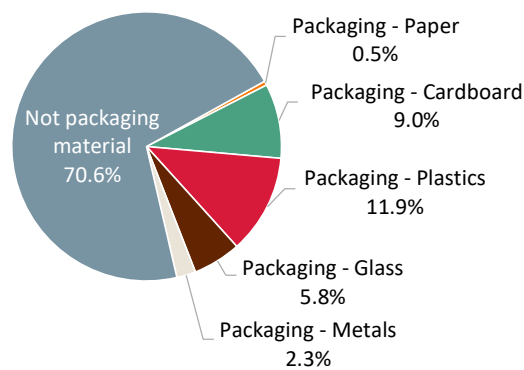
- Packaging – plastics 11.9%;
- Packaging – cardboard 9.0%; and
- Packaging – glass 5.8%.

**Table 175 Arts and recreation services – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.50
Packaging - Cardboard	8.98
Packaging - Plastics	11.92
Packaging - Glass	5.76
Packaging - Metals	2.29
<b>Sub-total – packaging material</b>	<b>29.45</b>
Other waste	70.55
<b>Total</b>	<b>100.00</b>

**Figure 97 Arts and recreation services – focus material – packaging material**

Arts and recreation services - Total Packaging - 29.45%



### 5.12.6. Focus material: food organics

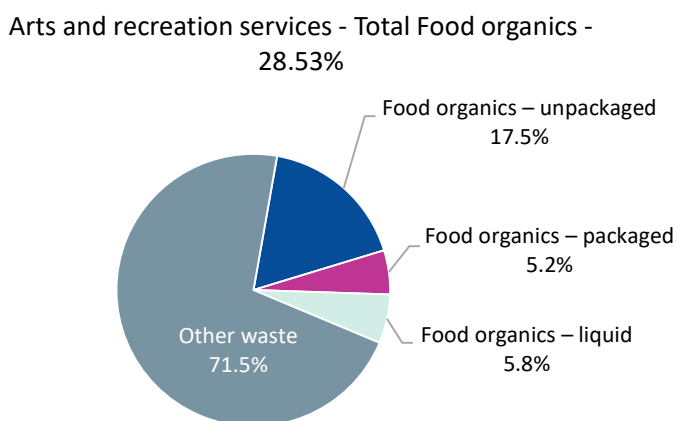
Table 176 provides the food organics content in garbage bags from the arts and recreation services sector, as defined in Table 3. Figure 98 shows the data graphically.

The data shows that approximately 28.5% of garbage bag contents is food organics; with 17.5% unpackaged food and 11.0% packaged food including cooking oil or other liquid.

**Table 176 Arts and recreation services – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	17.50
Food organics – packaged	5.23
Food organics – liquid	5.80
<b>Sub-total – food organics</b>	<b>28.53</b>
Other waste	71.47
<b>Total</b>	<b>100.00</b>

**Figure 98 Arts and recreation services – focus material – food organics**



### 5.12.7. Focus material: textiles and leather

Approximately 9.8% of garbage bag contents from the arts and recreation services sector is textiles and leather. Table 177 provides the types of textiles and leather content in garbage bags from the arts and recreation services sector and Figure 99 shows the data graphically.

The data shows that the main types were:

- Textiles mixed textiles, 89.4%;
- Textiles synthetic fibres, 9.7%; and
- Textiles natural fibres, 0.9%.

**Table 177 Arts and recreation services – focus material – textiles and leather**

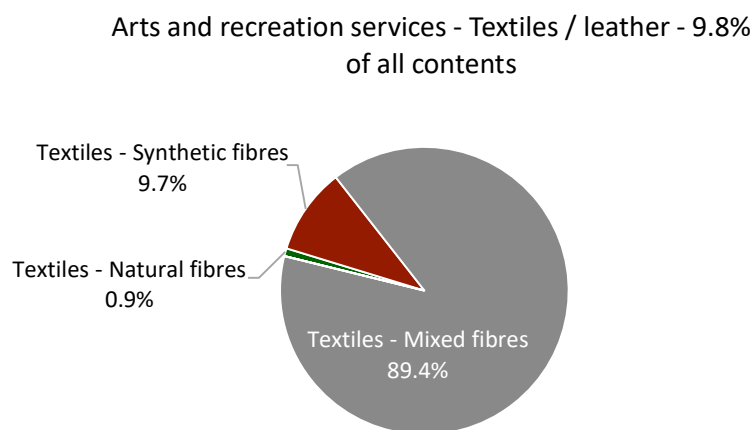
Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.00	0.00
Natural fibres	Textiles	Clothing - unwearable	0.00	0.00
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.00	0.00
Natural fibres	Textiles	Towels	0.09	0.89
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>0.09</b>	<b>0.89</b>



Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>0.09</b>	<b>0.89</b>
Synthetic fibres	Textiles	Nappies - cloth	0.00	0.00
Synthetic fibres	Textiles	Clothing - wearable	0.00	0.00
Synthetic fibres	Textiles	Clothing - unwearable	0.26	2.69
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.62	6.41
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.06	0.61
<b>Sub-total: Textiles</b>			<b>0.94</b>	<b>9.71</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>0.94</b>	<b>9.71</b>
Mixed fibres	Textiles	Nappies - cloth	0.02	0.24
Mixed fibres	Textiles	Clothing - wearable	4.22	43.27

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.45	4.57
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	1.40	14.35
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.44	4.51
Mixed fibres	Textiles	Soft toys	1.37	14.01
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.82	8.45
<b>Sub-total: Textiles</b>			<b>8.72</b>	<b>89.40</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Mixed fibres</b>			<b>8.72</b>	<b>89.40</b>
<b>Total</b>			<b>9.75</b>	<b>100.00</b>

Figure 99 Arts and recreation services – focus material – textiles and leather



## 5.12.8. Focus material: CDS containers

Approximately 5.6% of garbage bag contents from the arts and recreation services sector is CDS containers. Table 178 provides the CDS containers content in garbage bags from the arts and recreation services sector, as defined in Table 3.

The data shows:

- By weight, glass was the most, followed by PET and aluminium.
- By count, PET was the most, followed by aluminium and glass.

**Table 178 Arts and recreation services – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	1.69	30.09	65	41.40
HDPE (P2)	0.16	2.79	5	3.18
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	3.05	54.43	20	12.74
Steel	0.03	0.52	1	0.64
Aluminum	0.44	7.76	44	28.03
Liquid Paperboard	0.25	4.41	22	14.01
<b>Total</b>	<b>5.62</b>	<b>100.00</b>	<b>157</b>	<b>100.00</b>

## 5.12.9. Focus material: other beverage containers

Approximately 0.9% of garbage bag contents from the arts and recreation services sector is other beverage containers. Table 179 provides the other beverage containers content in garbage bags from the arts and recreation services sector, as defined in Table 3.

The data shows these containers were mainly HDPE and PET fruit & vegetable juice (>1-3L) beverage containers.

**Table 179 Arts and recreation services – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.35	6	35.29
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.41	10	58.83
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.10	1	5.88
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>0.86</b>	<b>17</b>	<b>100.00</b>

### 5.12.10. Focus material: single-use items

Table 180 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied more than 50.9% of total single-use items.
- Followed by compostable coffee cups (12.2% of total single-use items), non-compostable coffee cups (10.4% of total single-use items) and wood items (10.1% of total single-use items).

**Table 180 Arts and recreation services – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.85	10.12
Cardboard	Coffee cups - compostable	1.03	12.24
Cardboard	Coffee cups - non-compostable	0.87	10.38
Cardboard	Other cups	0.21	2.46
Paper	Single-use items	4.29	50.90
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.00	0.00
Plastic	PS/EPS cups	0.02	0.28
Plastic	PS/EPS coffee cup lids	0.23	2.75
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.57	6.81
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.34	4.06
<b>Total</b>		<b>8.41</b>	<b>100.00</b>

## 5.13. Education and training

### 5.13.1. Composition using all sorting categories

Table 181 provides the detailed composition of garbage bags from the education and training sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 181 Education and training – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	25.528
S-2	Food organics - packaged	2.017
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	2.497
S-5	Garden organics	3.160
S-6	Organics - other putrescible	0.029
S-7	Wood/untreated - single-use items	0.680
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.012
S-13	Wood/treated/painted - board/pole	0.014
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.029
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	3.698
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.000
S-21	Cardboard wet - packaging	0.586
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.574
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.137
S-26	Cardboard - disposable - coffee cups - compostable	0.692
S-27	Cardboard - disposable - coffee cups - non-compostable	0.642
S-28	Cardboard - disposable - other cups	0.010
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	1.023
S-31	Paper - brochures and leaflets	0.023

	Sorting category	Percentage by weight
S-32	Paper - books	0.063
S-33	Paper - printing/writing (other office)	7.103
S-34	Paper - other packaging	0.924
S-35	Paper - newsprint	0.368
S-36	Paper - brown kraft paper	0.032
S-37	Paper - rolls of low grade	0.164
S-38	Paper - hand towels	3.075
S-39	Paper - single-use items	4.674
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	4.999
S-41	Plastic - PET beverage containers (P1) - CDS	0.995
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.090
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	1.224
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.033
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.000
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.111
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.301
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	1.146
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.007
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.040
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.019
S-58	Plastic - LDPE packaging (P4)	0.029
S-59	Plastic - LDPE non-packaging (P4)	0.503
S-60	Plastic - PP packaging (P5)	1.661
S-61	Plastic - PP non-packaging (P5) - cups	0.124
S-62	Plastic - PP non-packaging (P5) - other	0.016
S-63	Plastic - PS packaging (P6)	0.124
S-64	Plastic - EPS packaging containers (P6)	0.031
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.060
S-68	Plastic - PS/EPS - cups	0.002
S-69	Plastic - PS/EPS - coffee cup lids	0.176
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.006

	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.000
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.115
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.200
S-77	Plastic – film – packaging – single use HDPE bags	0.247
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.077
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.047
S-80	Plastic – film – packaging – other	3.073
S-81	Plastic – film – non-packaging	6.056
S-82	Plastic - polystyrene foam (EPS)	0.149
S-83	Plastic - other	1.822
S-84	Glass - containers beverage - CDS	1.173
S-85	Glass - containers beverage-not CDS-wine/champagne	0.420
S-86	Glass - containers beverage-not CDS-spirits	0.164
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.667
S-94	Glass - containers (fines)	0.156
S-95	Glass - plate / non-packaging (other glass)	0.843
S-96	Metal (ferrous) - packaging beverage - CDS	0.262
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.055
S-99	Metal (ferrous) - packaging non-beverage	0.555
S-100	Metal (ferrous) - non-packaging	0.482
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.340
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	1.188
S-105	Metal (non-ferrous) - non-packaging	0.330
S-106	Textiles - carpet and underlay	0.090
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	2.785
S-109	Leather	0.044
S-110	Rubber - tyres, tubes	0.000

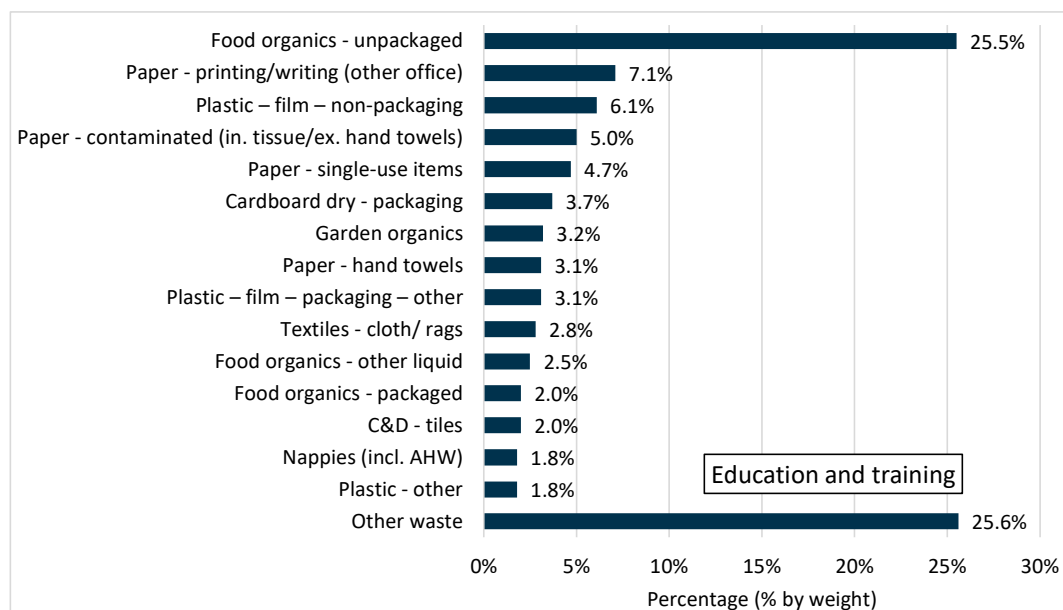
	Sorting category	Percentage by weight
S-111	Rubber - other	0.713
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.045
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	1.042
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	1.979
S-124	C&D - rock/dirt/soil	0.921
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.007
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.135
S-135	Hazardous / special - paint	0.231
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.109
S-139	Hazardous / special - personal care with microbeads	0.234
S-140	Hazardous / special - clinical - sharps	0.015
S-141	Hazardous / special - clinical - other	0.504
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.512
S-144	Liquid paperboard (cardboard) - NOT CDS	0.255
S-145	Liquid paperboard (cardboard) - other packaging	0.361
S-146	Nappies (incl. AHW)	1.847
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.299
	<b>Total</b>	<b>100.000</b>



Figure 100 shows the top 15 materials. The top 15 materials in garbage bags from the education and training sector were:

- Food organics – unpackaged
- Paper – printing/writing (other office)
- Plastic – film – non-packaging
- Paper – contaminated (incl. tissue/excl. hand towels)
- Paper – single-use items
- Cardboard dry – packaging
- Garden organics
- Paper – hand towels
- Plastic – film – packaging – other
- Textiles – cloth / rags
- Food organics – other liquid
- Food organics – packaged
- C&D – tiles
- Nappies (incl. AHW)
- Plastic – other

**Figure 100 Education and training – top 15 materials**



### 5.13.2. Composition using visual audit categories

#### **Consolidated composition**

Table 182 shows the composition of garbage bags from the education and training sector using the consolidated visual audit categories.

The results show:

- Organics occupied most of the garbage bag contents by weight at 34.0%.
- Followed by paper and cardboard (29.9%) and plastics (18.5%).
- These materials made up approximately 80% of garbage bag contents.

**Table 182 Education and training – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	29.90
Electrical & Electronic	1.10
Organics	33.97
Glass	3.42
Aggregates, Masonry & Soils	2.90
Metals	3.22
Plastics	18.49
Rubber	0.71
Textiles & Leather	2.92
Nappies	1.85
Hazardous	1.22
Other	0.30
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 183 shows the composition of garbage bags from the education and training sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 183 Education and training – detailed composition – visual categories**

Visual category	Percentage by weight
V-1 A, M & soils – concrete, bricks & asphalt	0.000
V-2 A, M & soils – plasterboard	0.000
V-3 A, M & soils – soil, clay & rubble	0.921
V-4 A, M & soils – other	1.979
V-5 E&E – batteries	0.007
V-6 E&E – computers and peripherals	0.000
V-7 E&E – TVs	0.000
V-8 E&E – whitegoods	0.000
V-9 E&E – photovoltaic systems	0.000
V-10 E&E – other	1.087
V-11 Glass – non-packaging	0.843
V-12 Glass – packaging	2.580
V-13 Metal – ferrous – non-packaging	0.482
V-14 Metal – ferrous – packaging	0.872
V-15 Metal – aluminium – non-packaging	0.330
V-16 Metal – aluminium – packaging	1.528
V-17 Food organics – unpackaged	25.528
V-18 Food organics – packaged	2.017
V-19 Food organics – liquid	2.497

	Visual category	Percentage by weight
V-20	Garden organics	3.189
V-21	Sawdust	0.012
V-22	Wood – treated/painted	0.014
V-23	Wood – MDF & chipboard	0.029
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.680
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	4.272
V-30	Cardboard – wet	0.586
V-31	Cardboard – wet strength/waxed	2.609
V-32	Paper – recyclable	13.254
V-33	Paper – non-recyclable	8.074
V-34	Paper – packaging	1.120
V-35	Plastic – EPS foam	0.149
V-36	Plastic – film packaging	3.444
V-37	Plastic – other	9.024
V-38	Plastic – rigid packaging	5.867
V-39	Rubber – other	0.713
V-40	Rubber – tyres	0.000
V-41	Leather	0.044
V-42	Textiles – cloth & rags	2.785
V-43	Textiles – carpet & underlay	0.090
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.366
V-49	Hazardous – Clinical	0.862
V-50	Other waste	2.146
	<b>Total</b>	<b>100.000</b>

### 5.13.3. Recoverability of materials in garbage bags

Table 184 provides the consolidated recoverability composition for garbage bags from the education and training sector. Figure 101 shows the results graphically. The data shows that approximately 66.4% of materials in garbage bags were recoverable now and 24.2% was recoverable in the future.

**Table 184 Education and training – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	66.37
Recoverable in the future	24.15
Not recoverable	9.48
<b>Total</b>	<b>100.00</b>

**Figure 101 Education and training – recoverability consolidated composition**

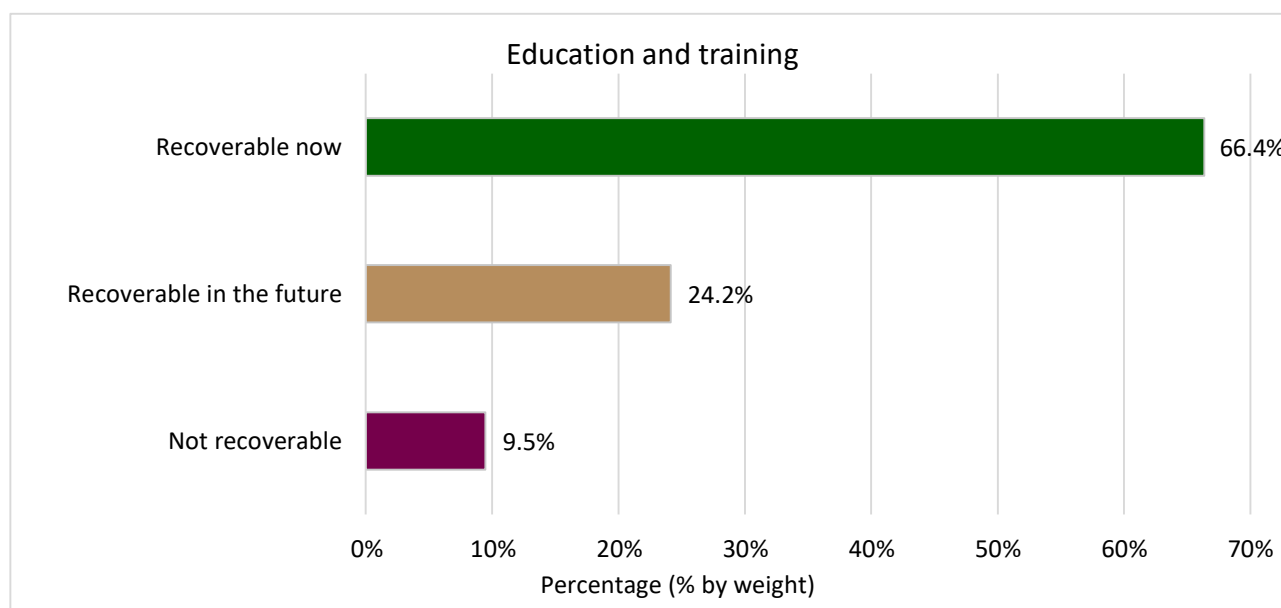


Table 185 provides the detailed recoverability of materials in garbage bags from the education and training sector and Figure 102 shows the data graphically. The data shows that:

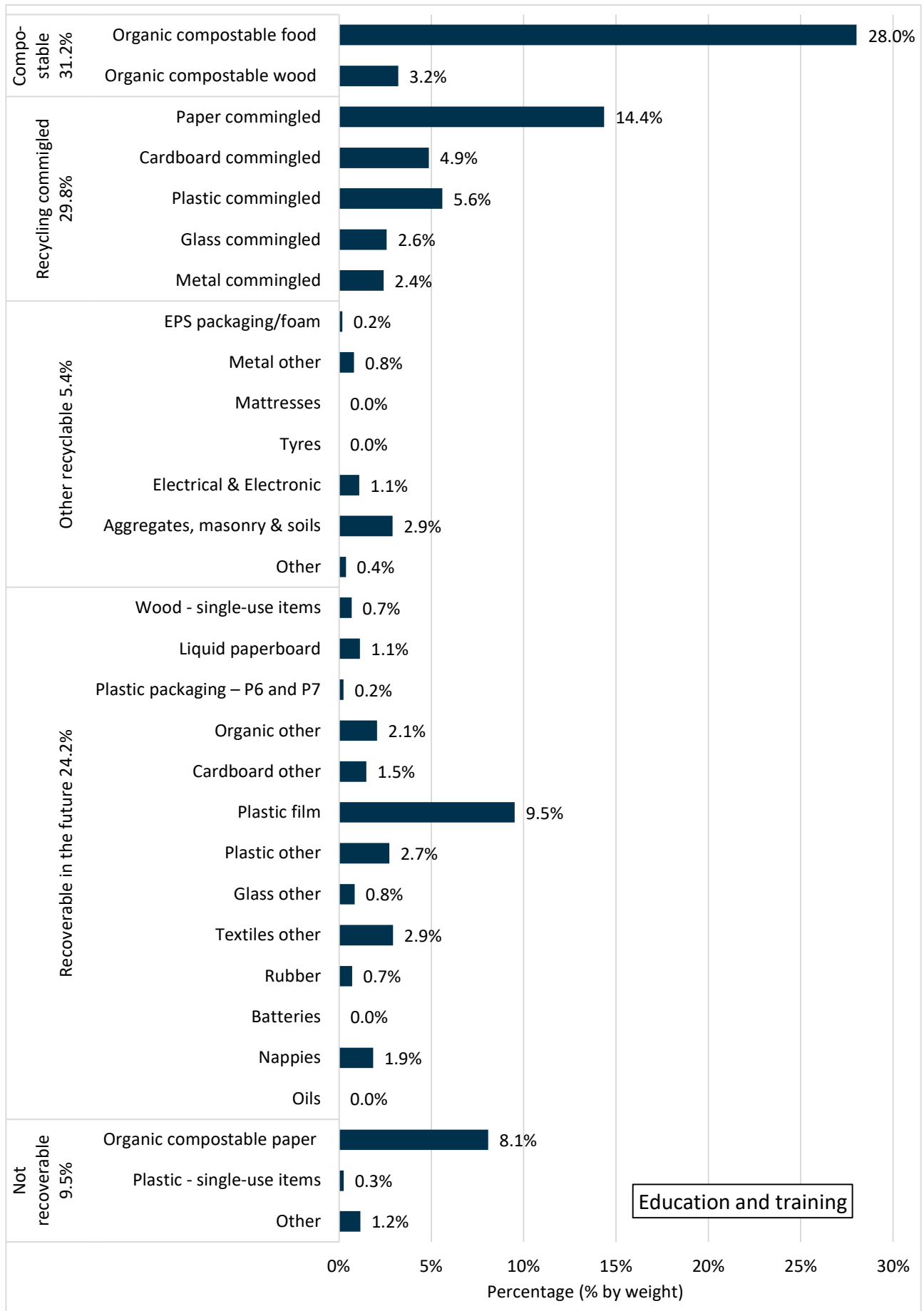
- Most material recoverable now is organic compostable food, each recycling commingled, electrical and electronic and aggregates, masonry and soils, organic compostable wood respectively.
- Most material recoverable in the future is plastic film, textiles other, plastic other, organic other, nappies, cardboard other and liquid paperboard respectively.

**Table 185 Education and training – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	28.03
Organic compostable wood	3.20
Paper commingled	14.35
Cardboard commingled	4.86
Plastic commingled	5.59
Glass commingled	2.58
Metal commingled	2.41
EPS packaging/foam	0.18
Metal other	0.81
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	1.09
Aggregates, masonry & soils	2.90
Other ^	0.37
<b>Sub-total: Recoverable now</b>	<b>66.37</b>
Wood – single-use items	0.68
Liquid paperboard	1.13
Plastic packaging – P6 and P7	0.24
Organic other	2.06
Cardboard other	1.48
Plastic film	9.51
Plastic other	2.72
Glass other	0.84
Textiles other	2.92
Rubber	0.71
Batteries	0.01
Nappies	1.85
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>24.15</b>
Organic compostable paper	8.08
Plastic single-use items	0.25
Other	1.15
<b>Sub-total: Not recoverable</b>	<b>9.48</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 102 Education and training – recoverability detailed composition**



Education and training

### 5.13.4. Focus material: degradable organic content (DOC)

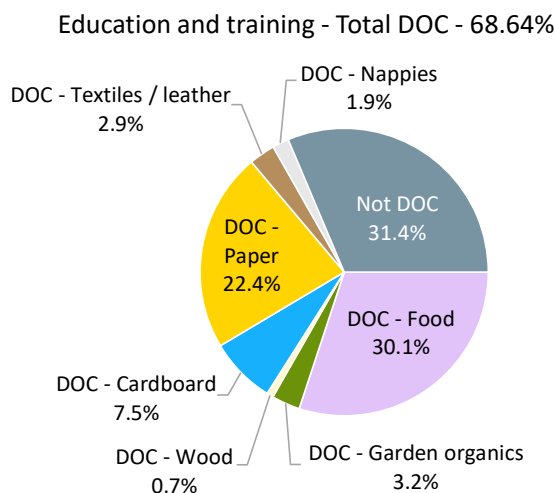
Table 186 provides the DOC in garbage bags from the education and training sector, as defined in Table 3. Figure 103 shows the data graphically. The garbage bag contents were 68.6% DOC, with the top three materials in this order:

- DOC – food organics 30.1%;
- DOC – paper 22.4%; and
- DOC – cardboard 7.5%.

**Table 186 Education and training – focus material – DOC**

DOC type	Overall
DOC – food	30.05
DOC – garden organics	3.19
DOC – wood	0.73
DOC – cardboard	7.47
DOC – paper	22.43
DOC – textiles and leather	2.92
DOC – nappies	1.85
<b>Sub-total – DOC content</b>	<b>68.64</b>
Other waste	31.36
<b>Total</b>	<b>100.00</b>

**Figure 103 Education and training – focus material – DOC**



### 5.13.5. Focus material: packaging material

Table 187 provides the packaging material content in garbage bags from the education and training sector, as defined in Table 3. Figure 104 shows the data graphically.

The garbage bag contents were 22.9% packaging material, with the top three materials in this order:

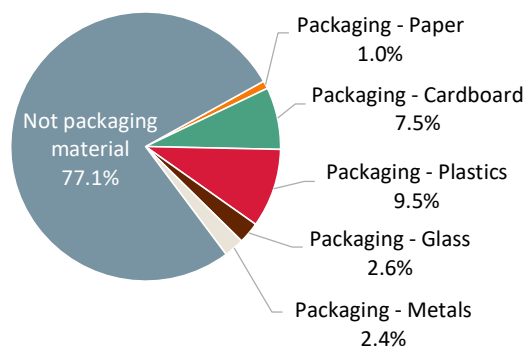
- Packaging – plastics 9.5%.
- Packaging – cardboard 7.5%; and
- Packaging – glass 2.6%.

**Table 187 Education and training – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.95
Packaging - Cardboard	7.47
Packaging - Plastics	9.46
Packaging - Glass	2.58
Packaging - Metals	2.41
<b>Sub-total – packaging material</b>	<b>22.87</b>
Other waste	77.13
<b>Total</b>	<b>100.00</b>

**Figure 104 Education and training – focus material – packaging material**

Education and training - Total Packaging - 22.87%



### 5.13.6. Focus material: food organics

Table 188 provides the food organics content in garbage bags from the education and training sector, as defined in Table 3. Figure 105 shows the data graphically.

The data shows that approximately 30% of garbage bag contents is food organics; with 25.5% unpackaged food and 4.5% packaged food including cooking oil or other liquid.

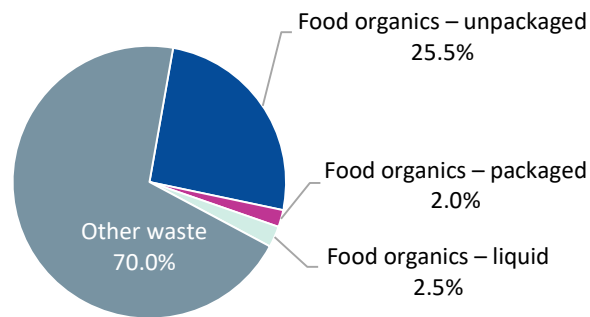
**Table 188 Education and training – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	25.53
Food organics – packaged	2.02
Food organics – liquid	2.50
<b>Sub-total – food organics</b>	<b>30.05</b>
Other waste	69.95
<b>Total</b>	<b>100.00</b>



**Figure 105 Education and training – focus material – food organics**

Education and training - Total Food organics - 30.05%



### 5.13.7. Focus material: textiles and leather

Approximately 3% of garbage bag contents from the education and training sector is textiles and leather. Table 189 provides the types of textiles and leather content in garbage bags from the education and training sector and Figure 106 shows the data graphically.

The data shows that the main types were:

- Textiles synthetic textiles, 45.2%;
- Textiles natural fibres, 30.2%; and
- Textiles mixed fibres, 23.1%.

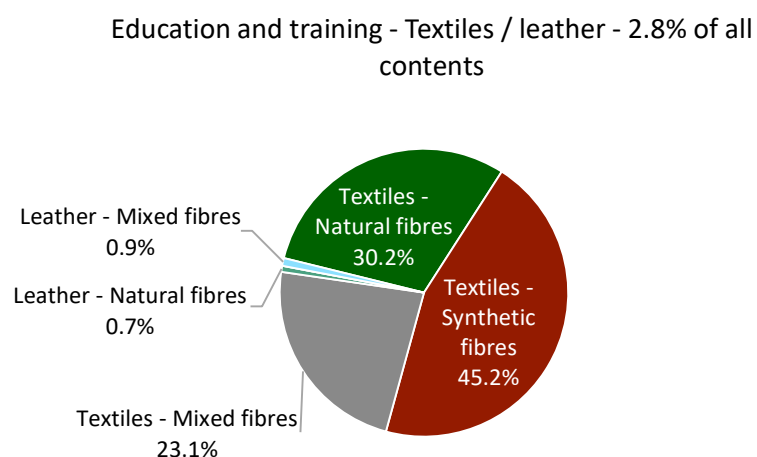
**Table 189 Education and training – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.18	6.24
Natural fibres	Textiles	Clothing - unwearable	0.19	6.75
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.41	14.53
Natural fibres	Textiles	Towels	0.06	2.00
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.02	0.65
<b>Sub-total: Textiles</b>			<b>0.86</b>	<b>30.17</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.02	0.70
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.02</b>	<b>0.70</b>
<b>Sub-total: Natural fibres</b>			<b>0.88</b>	<b>30.87</b>
Synthetic fibres	Textiles	Nappies - cloth	0.00	0.15
Synthetic fibres	Textiles	Clothing - wearable	0.23	8.04
Synthetic fibres	Textiles	Clothing - unwearable	0.13	4.49
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.60	21.32
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.32	11.19
<b>Sub-total: Textiles</b>			<b>1.28</b>	<b>45.19</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>1.28</b>	<b>45.19</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.25	8.79

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.24	8.66
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.07	2.41
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.04	1.52
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.05	1.69
<b>Sub-total: Textiles</b>			<b>0.65</b>	<b>23.07</b>
Mixed fibres	Leather	Clothing – wearable	0.02	0.87
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.02</b>	<b>0.87</b>
<b>Sub-total: Mixed fibres</b>			<b>0.67</b>	<b>23.94</b>
<b>Total</b>			<b>2.83</b>	<b>100.00</b>

Figure 106 Education and training – focus material – textiles and leather



### 5.13.8. Focus material: CDS containers

Approximately 3.4% of garbage bag contents from the education and training sector is CDS containers. Table 190 provides the CDS containers content in garbage bags from the education and training sector, as defined in Table 3.

The data shows:

- By weight, glass was the most, followed by PET and liquid paperboard.
- By count, PET was the most, followed by liquid paperboard and aluminium.

**Table 190 Education and training – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.99	29.33	129	29.32
HDPE (P2)	0.11	3.27	16	3.64
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	1.17	34.57	22	5.00
Steel	0.26	7.72	66	15.00
Aluminum	0.34	10.01	88	20.00
Liquid Paperboard	0.51	15.10	119	27.04
<b>Total</b>	<b>3.38</b>	<b>100.00</b>	<b>440</b>	<b>100.00</b>

### 5.13.9. Focus material: other beverage containers

Approximately 1.0% of garbage bag contents from the education and training sector is other beverage containers. Table 191 provides the other beverage containers content in garbage bags from the education and training sector, as defined in Table 3.

The data shows that HDPE beverage containers was the most, followed by PET fruit & vegetable juice >1-3L and wine / champagne bottles.

**Table 191 Education and training – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.09	5	17.86
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.30	18	64.28
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.42	4	14.29
Glass	Spirits	0.16	1	3.57
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>0.97</b>	<b>28</b>	<b>100.00</b>

### 5.13.10. Focus material: single-use items

Table 192 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied more than 64.3% of total single-use items.
- Followed by compostable coffee cups (9.5% of total single-use items), wood items (9.4% of total single-use items) and non-compostable coffee cups (8.8% of total single-use items).

**Table 192 Education and training – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.68	9.36
Cardboard	Coffee cups - compostable	0.69	9.52
Cardboard	Coffee cups - non-compostable	0.64	8.84
Cardboard	Other cups	0.01	0.14
Paper	Single-use items	4.67	64.33
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.06	0.82
Plastic	PS/EPS cups	0.00	0.02
Plastic	PS/EPS coffee cup lids	0.18	2.43
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.01	0.09
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.25	3.40
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.08	1.05
<b>Total</b>		<b>7.27</b>	<b>100.00</b>

## 5.14. Health care and social assistance

### 5.14.1. Composition using all sorting categories

Table 193 provides the detailed composition of garbage bags from the health care and social assistance sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 193 Health care and social assistance – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	11.729
S-2	Food organics - packaged	1.174
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	0.800
S-5	Garden organics	0.576
S-6	Organics - other putrescible	0.046
S-7	Wood/untreated - single-use items	0.317
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.007
S-10	Wood/untreated - furniture	0.075
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.071
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	2.304
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.075
S-21	Cardboard wet - packaging	0.574
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.030
S-24	Cardboard wet - production spoils	0.002
S-25	Cardboard wet - waxed / wet strength - boxes	0.198
S-26	Cardboard - disposable - coffee cups - compostable	0.748
S-27	Cardboard - disposable - coffee cups - non-compostable	0.415
S-28	Cardboard - disposable - other cups	0.018
S-29	Paper - photocopy paper	0.020
S-30	Paper - magazines / catalogues	0.686
S-31	Paper - brochures and leaflets	0.005

	Sorting category	Percentage by weight
S-32	Paper - books	0.379
S-33	Paper - printing/writing (other office)	4.448
S-34	Paper - other packaging	0.365
S-35	Paper - newsprint	1.246
S-36	Paper - brown kraft paper	0.049
S-37	Paper - rolls of low grade	0.105
S-38	Paper - hand towels	4.121
S-39	Paper - single-use items	2.330
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	5.495
S-41	Plastic - PET beverage containers (P1) - CDS	0.486
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.117
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.005
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.033
S-46	Plastic - PET packaging (excl beverage containers) (P1)	0.551
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.080
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.022
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.023
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.308
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.321
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.024
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.010
S-58	Plastic - LDPE packaging (P4)	0.006
S-59	Plastic - LDPE non-packaging (P4)	0.477
S-60	Plastic - PP packaging (P5)	1.205
S-61	Plastic - PP non-packaging (P5) - cups	0.075
S-62	Plastic - PP non-packaging (P5) - other	0.145
S-63	Plastic - PS packaging (P6)	0.055
S-64	Plastic - EPS packaging containers (P6)	0.015
S-65	Plastic - PS/EPS - straws	0.006
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.016
S-68	Plastic - PS/EPS - cups	0.064
S-69	Plastic - PS/EPS - coffee cup lids	0.158
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.016

	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.001
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.002
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.086
S-77	Plastic – film – packaging – single use HDPE bags	0.196
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.043
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.013
S-80	Plastic – film – packaging – other	1.999
S-81	Plastic – film – non-packaging	4.920
S-82	Plastic - polystyrene foam (EPS)	0.006
S-83	Plastic - other	0.820
S-84	Glass - containers beverage - CDS	0.435
S-85	Glass - containers beverage-not CDS-wine/champagne	0.345
S-86	Glass - containers beverage-not CDS-spirits	0.086
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.351
S-94	Glass - containers (fines)	0.084
S-95	Glass - plate / non-packaging (other glass)	0.051
S-96	Metal (ferrous) - packaging beverage - CDS	0.021
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.036
S-99	Metal (ferrous) - packaging non-beverage	0.508
S-100	Metal (ferrous) - non-packaging	0.199
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.243
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.006
S-104	Metal (non-ferrous) - packaging non-beverage	0.094
S-105	Metal (non-ferrous) - non-packaging	0.158
S-106	Textiles - carpet and underlay	0.004
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	3.495
S-109	Leather	0.087
S-110	Rubber - tyres, tubes	0.000

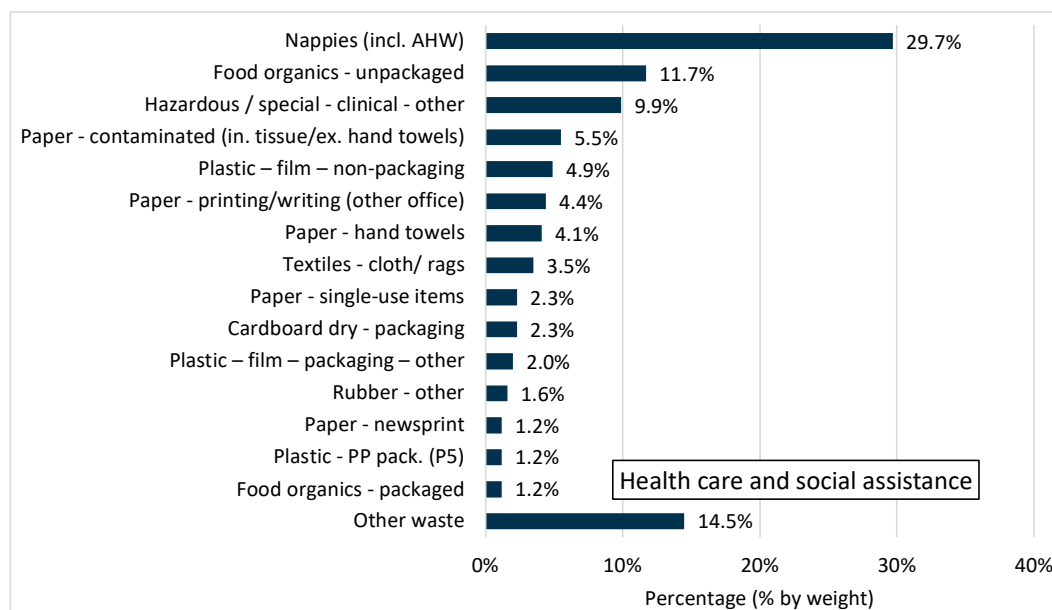


	Sorting category	Percentage by weight
S-111	Rubber - other	1.648
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.258
S-121	C&D - concrete	0.038
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.225
S-124	C&D - rock/dirt/soil	0.029
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.032
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.008
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.208
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.054
S-139	Hazardous / special - personal care with microbeads	0.055
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	9.856
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.097
S-144	Liquid paperboard (cardboard) - NOT CDS	0.125
S-145	Liquid paperboard (cardboard) - other packaging	0.440
S-146	Nappies (incl. AHW)	29.693
S-147	Insulation	0.012
S-148	Other (specify in notes)	0.307
	<b>Total</b>	<b>100.000</b>

Figure 107 shows the top 15 materials. The top 15 materials in garbage bags from the health care and social assistance sector were:

- Nappies (incl. AHW)
- Food organics – unpackaged
- Hazardous / special – clinical – other
- Paper – contaminated (incl. tissue/excl. hand towels)
- Plastic – film – non-packaging
- Paper – printing / writing (other office)
- Paper – hand towels
- Textiles – cloth / rags
- Paper – single-use items
- Cardboard dry – packaging
- Plastic – film – packaging – other
- Rubber – other
- Paper – newsprint
- Plastic – PP packaging (P5)
- Food organics – packaged

**Figure 107 Health care and social assistance – top 15 materials**



## 5.14.2. Composition using visual audit categories

### Consolidated composition

Table 194 shows the composition of garbage bags from the health care and social assistance sector using the consolidated visual audit categories.

The results show:

- Nappies occupied most of the garbage bag contents by weight at 29.7%.
- Followed by paper and cardboard (24.3%), organics (14.8%), plastics (12.3%) and hazardous (10.2%).
- These materials made up approximately 90% of garbage bag contents.

**Table 194 Health care and social assistance – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	24.26
Electrical & Electronic	0.27
Organics	14.80
Glass	1.35
Aggregates, Masonry & Soils	0.32
Metals	1.27
Plastics	12.31
Rubber	1.65
Textiles & Leather	3.58
Nappies	29.69
Hazardous	10.18
Other	0.32
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 195 shows the composition of garbage bags from the health care and social assistance sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 195 Health care and social assistance – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.038
V-2	A, M & soils – plasterboard	0.032
V-3	A, M & soils – soil, clay & rubble	0.029
V-4	A, M & soils – other	0.225
V-5	E&E – batteries	0.008
V-6	E&E – computers and peripherals	0.000
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.258
V-11	Glass – non-packaging	0.051
V-12	Glass – packaging	1.301
V-13	Metal – ferrous – non-packaging	0.199
V-14	Metal – ferrous – packaging	0.565
V-15	Metal – aluminium – non-packaging	0.158
V-16	Metal – aluminium – packaging	0.343
V-17	Food organics – unpackaged	11.729
V-18	Food organics – packaged	1.174
V-19	Food organics – liquid	0.800

	Visual category	Percentage by weight
V-20	Garden organics	0.622
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.071
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.317
V-27	Wood – untreated – furniture	0.075
V-28	Wood – untreated – pallets	0.007
V-29	Cardboard – dry	2.334
V-30	Cardboard – wet	0.576
V-31	Cardboard – wet strength/waxed	2.116
V-32	Paper – recyclable	9.114
V-33	Paper – non-recyclable	9.616
V-34	Paper – packaging	0.519
V-35	Plastic – EPS foam	0.006
V-36	Plastic – film packaging	2.251
V-37	Plastic – other	6.896
V-38	Plastic – rigid packaging	3.151
V-39	Rubber – other	1.648
V-40	Rubber – tyres	0.000
V-41	Leather	0.087
V-42	Textiles – cloth & rags	3.495
V-43	Textiles – carpet & underlay	0.004
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.012
V-48	Hazardous – Chemicals/other hazardous	0.208
V-49	Hazardous – Clinical	9.965
V-50	Other waste	30.000
	<b>Total</b>	<b>100.000</b>

### 5.14.3. Recoverability of materials in garbage bags

Table 196 provides the consolidated recoverability composition for garbage bags from the health care and social assistance sector. Figure 108 shows the results graphically. The data shows that 32.2% of materials in garbage bags were recoverable now and 47.6% was recoverable in the future.

**Table 196 Health care and social assistance – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	32.24
Recoverable in the future	47.59
Not recoverable	20.17
<b>Total</b>	<b>100.00</b>

**Figure 108 Health care and social assistance – recoverability consolidated composition**

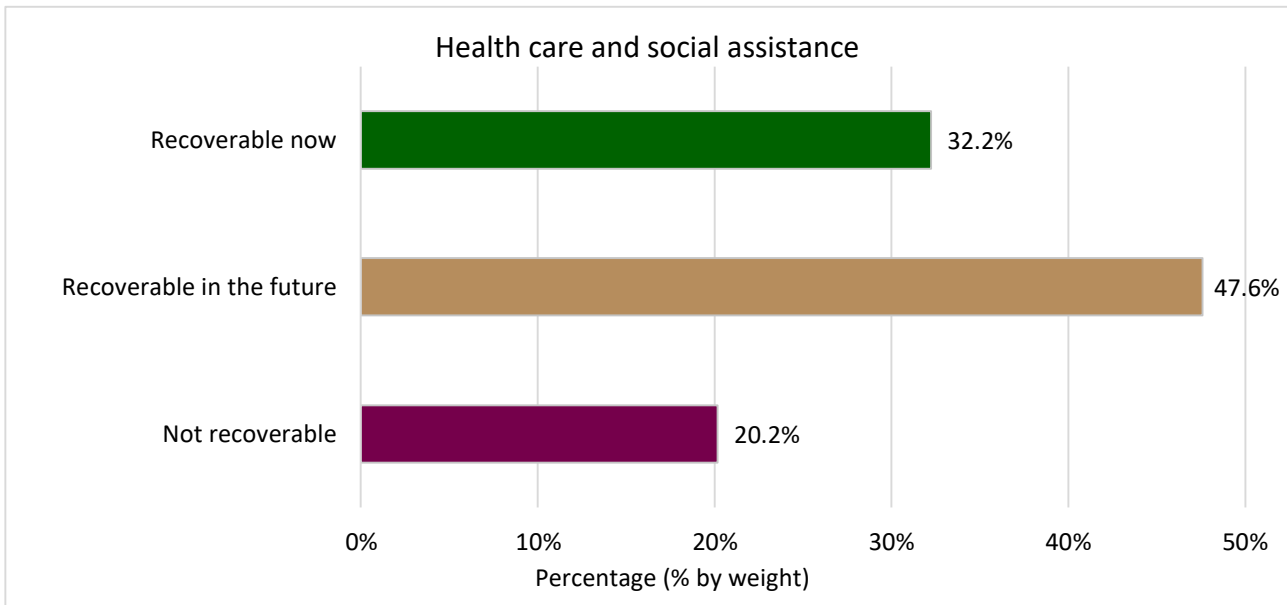


Table 197 provides the detailed recoverability of materials in garbage bags from the health care and social assistance sector and Figure 109 shows the data graphically. The data shows that:

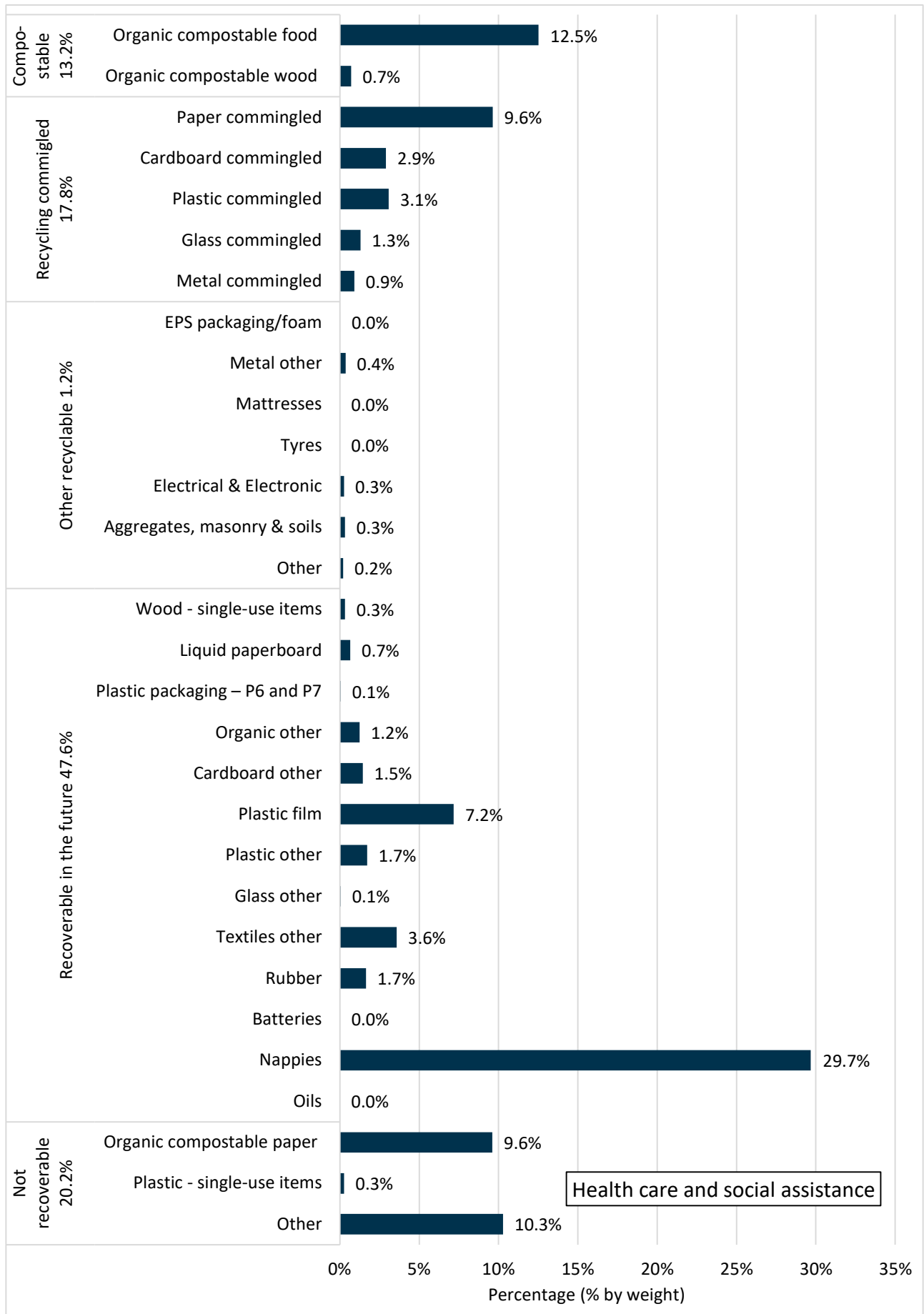
- Most material recoverable now is organic compostable food and paper, plastic and cardboard commingled respectively.
- Most material recoverable in the future is nappies, plastic film, textiles other, plastic other, rubber, cardboard other and organic other respectively.

**Table 197 Health care and social assistance – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	12.53
Organic compostable wood	0.71
Paper commingled	9.64
Cardboard commingled	2.90
Plastic commingled	3.08
Glass commingled	1.30
Metal commingled	0.91
EPS packaging/foam	0.02
Metal other	0.36
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.26
Aggregates, masonry & soils	0.32
Other ^	0.21
<b>Sub-total: Recoverable now</b>	<b>32.24</b>
Wood – single-use items	0.32
Liquid paperboard	0.66
Plastic packaging – P6 and P7	0.05
Organic other	1.24
Cardboard other	1.45
Plastic film	7.17
Plastic other	1.72
Glass other	0.05
Textiles other	3.58
Rubber	1.65
Batteries	0.01
Nappies	29.69
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>47.59</b>
Organic compostable paper	9.61
Plastic single-use items	0.27
Other	10.29
<b>Sub-total: Not recoverable</b>	<b>20.17</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 109 Health care and social assistance – recoverability detailed composition**



## 5.14.4. Focus material: degradable organic content (DOC)

Table 198 provides the DOC in garbage bags from the health care and social assistance sector, as defined in Table 3. Figure 110 shows the data graphically. The garbage bag contents were 72% DOC, with the top three materials in this order:

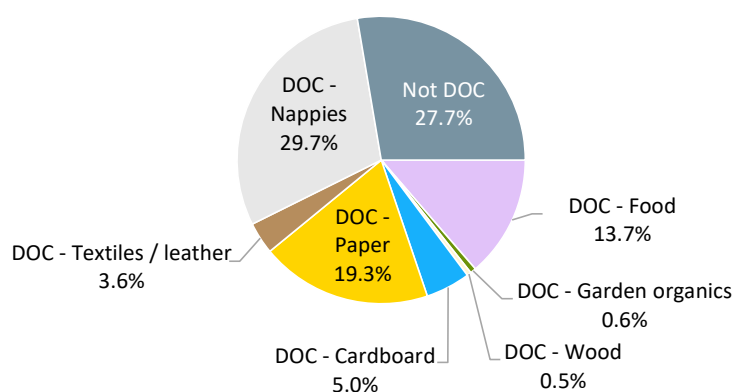
- DOC – nappies 29.7%;
- DOC – paper 19.3%; and
- DOC – food organics 13.7%.

**Table 198 Health care and social assistance – focus material – DOC**

DOC type	Overall
DOC – food	13.70
DOC – garden organics	0.63
DOC – wood	0.47
DOC – cardboard	5.01
DOC – paper	19.25
DOC – textiles and leather	3.58
DOC – nappies	29.69
<b>Sub-total – DOC content</b>	<b>72.33</b>
Other waste	27.67
<b>Total</b>	<b>100.00</b>

**Figure 110 Health care and social assistance – focus material – DOC**

Health care and social assistance - Total DOC - 72.33%



## 5.14.5. Focus material: packaging material

Table 199 provides the packaging material content in garbage bags from the health care and social assistance sector, as defined in Table 3. Figure 111 shows the data graphically.

The garbage bag contents were 13.0% packaging material, with the top three materials in this order:

- Packaging – plastics 5.4%.
- Packaging – cardboard 5.0%; and
- Packaging – glass 1.3%.

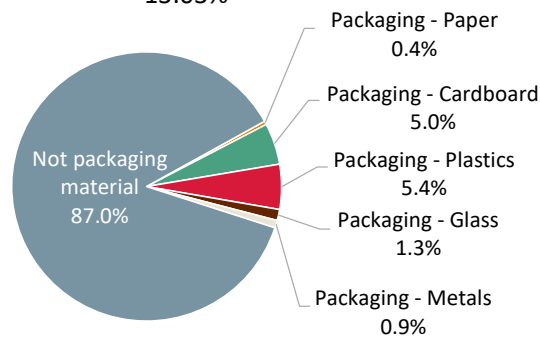


**Table 199 Health care and social assistance – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.41
Packaging - Cardboard	5.01
Packaging - Plastics	5.40
Packaging - Glass	1.30
Packaging - Metals	0.91
<b>Sub-total – packaging material</b>	<b>13.03</b>
Other waste	86.97
<b>Total</b>	<b>100.00</b>

**Figure 111 Health care and social assistance – focus material – packaging material**

Health care and social assistance - Total Packaging - 13.03%



### 5.14.6. Focus material: food organics

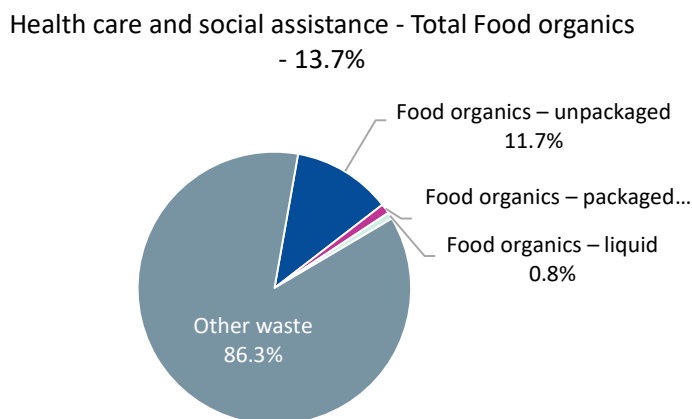
Table 200 provides the food organics content in garbage bags from the health care and social assistance sector, as defined in Table 3. Figure 112 shows the data graphically.

The data shows that approximately 13.7% of garbage bag contents is food organics; with 11.7% unpackaged food and 2.0% packaged food including cooking oil or other liquid.

**Table 200 Health care and social assistance – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	11.73
Food organics – packaged	1.17
Food organics – liquid	0.80
<b>Sub-total – food organics</b>	<b>13.70</b>
Other waste	86.30
<b>Total</b>	<b>100.00</b>

**Figure 112 Health care and social assistance – focus material – food organics**



### 5.14.7. Focus material: textiles and leather

Approximately 3.6% of garbage bag contents from the health care and social assistance sector is textiles and leather. Table 201 provides the types of textiles and leather content in garbage bags from the health care and social assistance sector and Figure 113 shows the data graphically.

The data shows that the main types were:

- Textiles mixed textiles, 47.4%;
- Textiles synthetic fibres, 29.0%; and
- Textiles natural fibres, 21.2%.

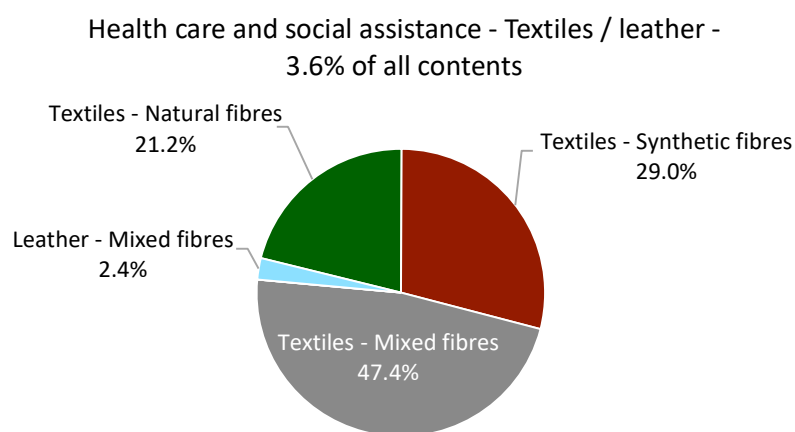
**Table 201 Health care and social assistance – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.18	5.07
Natural fibres	Textiles	Clothing - unwearable	0.02	0.54
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.10	2.82
Natural fibres	Textiles	Towels	0.41	11.52
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.02	0.46
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.03	0.78
<b>Sub-total: Textiles</b>			<b>0.76</b>	<b>21.19</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>0.76</b>	<b>21.19</b>
Synthetic fibres	Textiles	Nappies - cloth	0.02	0.48
Synthetic fibres	Textiles	Clothing - wearable	0.09	2.44
Synthetic fibres	Textiles	Clothing - unwearable	0.01	0.13
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.09	2.49
Synthetic fibres	Textiles	Towels	0.03	0.91
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.28	7.88
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.52	14.64
<b>Sub-total: Textiles</b>			<b>1.04</b>	<b>28.97</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>1.04</b>	<b>28.97</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.66	18.29

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.14	3.94
Mixed fibres	Textiles	Shoes - wearable	0.34	9.59
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.08
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.11	2.97
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.08	2.32
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.01	0.31
Mixed fibres	Textiles	Soft toys	0.07	2.09
Mixed fibres	Textiles	Cushions	0.21	5.82
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.07	2.01
<b>Sub-total: Textiles</b>			<b>1.69</b>	<b>47.42</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.08	2.21
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.01	0.21
<b>Sub-total: Leather</b>			<b>0.09</b>	<b>2.42</b>
<b>Sub-total: Mixed fibres</b>			<b>1.78</b>	<b>49.84</b>
<b>Total</b>			<b>3.58</b>	<b>100.00</b>

Figure 113 Health care and social assistance – focus material – textiles and leather



## 5.14.8. Focus material: CDS containers

Approximately 1.3% of garbage bag contents from the health care and social assistance sector is CDS containers. Table 202 provides the CDS containers content in garbage bags from the health care and social assistance sector, as defined in Table 3.

The data shows:

- By weight, PET was the most, followed by glass and aluminium.
- By count, PET was the most, followed by aluminium and liquid paperboard.

**Table 202 Health care and social assistance – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.49	37.24	182	40.90
HDPE (P2)	0.02	1.74	6	1.35
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	0.44	33.33	27	6.07
Steel	0.02	1.64	6	1.35
Aluminum	0.24	18.62	171	38.42
Liquid Paperboard	0.10	7.43	53	11.91
<b>Total</b>	<b>1.31</b>	<b>100.00</b>	<b>445</b>	<b>100.00</b>

## 5.14.9. Focus material: other beverage containers

Approximately 0.9% of garbage bag contents from the health care and social assistance sector is other beverage containers. Table 203 provides the other beverage containers content in garbage bags from the health care and social assistance sector, as defined in Table 3.

The data shows that HDPE beverage containers was the most, followed by PET fruit & vegetable juice >1-3L containers and wine / champagne bottles.

**Table 203 Health care and social assistance – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.12	20	22.47
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.01	1	1.12
HDPE (P2)	-	0.31	58	65.17
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.34	8	8.99
Glass	Spirits	0.09	2	2.25
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>0.87</b>	<b>89</b>	<b>100.00</b>

### 5.14.10. Focus material: single-use items

Table 204 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 53.9% of total single-use items.
- Followed by compostable coffee cups (17.3% of total single-use items) and non-compostable coffee cups (9.6% of total single-use items).

**Table 204 Health care and social assistance – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.32	7.32
Cardboard	Coffee cups - compostable	0.75	17.28
Cardboard	Coffee cups - non-compostable	0.41	9.59
Cardboard	Other cups	0.02	0.42
Paper	Single-use items	2.33	53.87
Plastic	PS/EPS straws	0.01	0.13
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.02	0.37
Plastic	PS/EPS cups	0.06	1.47
Plastic	PS/EPS coffee cup lids	0.16	3.66
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.02	0.38
Plastic	EPS plates / bowls	0.00	0.01
Plastic	Film – packaging – single use HDPE bags	0.20	4.52
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.04	0.98
<b>Total</b>		<b>4.34</b>	<b>100.00</b>

## 5.15. Shopping centres

### 5.15.1. Composition using all sorting categories

Table 205 provides the detailed composition of garbage bags from the shopping centres sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 205 Shopping centres – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	23.157
S-2	Food organics - packaged	1.899
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	1.974
S-5	Garden organics	0.526
S-6	Organics - other putrescible	0.233
S-7	Wood/untreated - single-use items	0.238
S-8	Wood/untreated - board/pole	0.035
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.012
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.112
S-16	Wood/treated - chipboard / MDF	0.027
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	2.799
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.098
S-21	Cardboard wet - packaging	0.614
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.016
S-23	Cardboard - pizza boxes	0.311
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.211
S-26	Cardboard - disposable - coffee cups - compostable	0.416
S-27	Cardboard - disposable - coffee cups - non-compostable	0.955
S-28	Cardboard - disposable - other cups	0.103
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.913
S-31	Paper - brochures and leaflets	0.005

	Sorting category	Percentage by weight
S-32	Paper - books	0.323
S-33	Paper - printing/writing (other office)	2.660
S-34	Paper - other packaging	0.543
S-35	Paper - newsprint	0.669
S-36	Paper - brown kraft paper	0.049
S-37	Paper - rolls of low grade	0.138
S-38	Paper - hand towels	2.428
S-39	Paper - single-use items	5.127
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	5.065
S-41	Plastic - PET beverage containers (P1) - CDS	0.964
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.052
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.034
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.000
S-46	Plastic - PET packaging (excl beverage containers) (P1)	1.329
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.121
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.013
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.070
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.751
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.660
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.017
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.013
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.969
S-58	Plastic - LDPE packaging (P4)	0.013
S-59	Plastic - LDPE non-packaging (P4)	2.003
S-60	Plastic - PP packaging (P5)	2.314
S-61	Plastic - PP non-packaging (P5) - cups	0.148
S-62	Plastic - PP non-packaging (P5) - other	0.320
S-63	Plastic - PS packaging (P6)	0.107
S-64	Plastic - EPS packaging containers (P6)	0.042
S-65	Plastic - PS/EPS - straws	0.002
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.034
S-68	Plastic - PS/EPS - cups	0.031
S-69	Plastic - PS/EPS - coffee cup lids	0.195
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.008



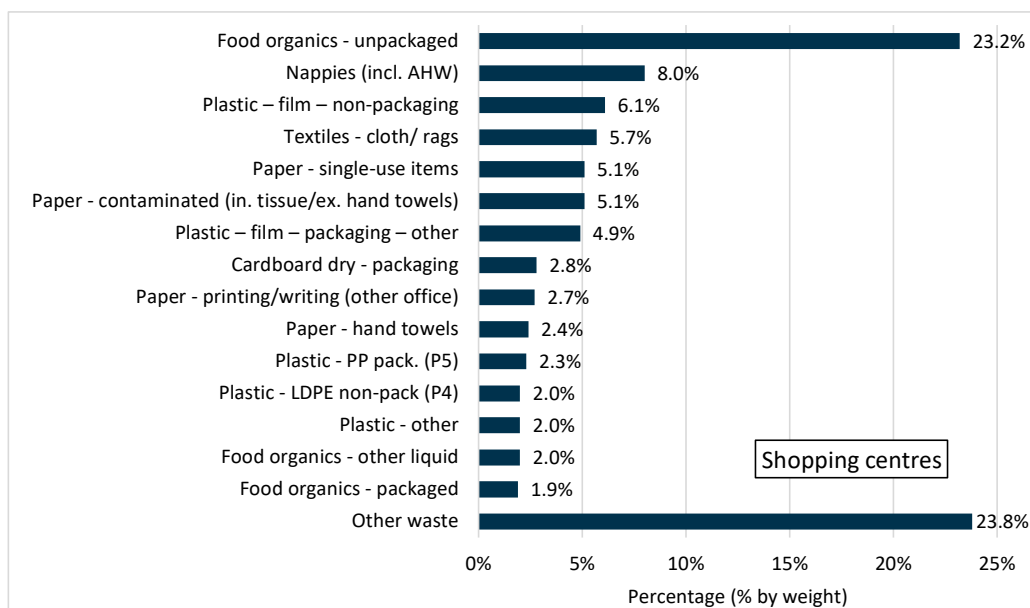
	Sorting category	Percentage by weight
S-72	Plastic - EPS - plates / bowls	0.001
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.025
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.298
S-77	Plastic – film – packaging – single use HDPE bags	0.426
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.133
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.039
S-80	Plastic – film – packaging – other	4.935
S-81	Plastic – film – non-packaging	6.092
S-82	Plastic - polystyrene foam (EPS)	0.046
S-83	Plastic - other	1.994
S-84	Glass - containers beverage - CDS	1.639
S-85	Glass - containers beverage-not CDS-wine/champagne	0.494
S-86	Glass - containers beverage-not CDS-spirits	0.208
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.443
S-94	Glass - containers (fines)	0.024
S-95	Glass - plate / non-packaging (other glass)	0.334
S-96	Metal (ferrous) - packaging beverage - CDS	0.073
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.069
S-99	Metal (ferrous) - packaging non-beverage	1.288
S-100	Metal (ferrous) - non-packaging	0.321
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.515
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	0.375
S-105	Metal (non-ferrous) - non-packaging	0.315
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	5.667
S-109	Leather	0.161
S-110	Rubber - tyres, tubes	0.000

	Sorting category	Percentage by weight
S-111	Rubber - other	0.732
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.032
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.313
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.130
S-124	C&D - rock/dirt/soil	0.241
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.078
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.390
S-135	Hazardous / special - paint	0.003
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.027
S-139	Hazardous / special - personal care with microbeads	0.108
S-140	Hazardous / special - clinical - sharps	0.023
S-141	Hazardous / special - clinical - other	0.256
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.319
S-144	Liquid paperboard (cardboard) - NOT CDS	0.582
S-145	Liquid paperboard (cardboard) - other packaging	0.489
S-146	Nappies (incl. AHW)	7.992
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.504
	<b>Total</b>	<b>100.000</b>

Figure 114 shows the top 15 materials. The top 15 materials in garbage bags from the shopping centres sector were:

- Food organics – unpackaged
- Nappies (incl. AHW)
- Plastic – film – non-packaging
- Textiles – cloth / rags
- Paper – single-use items
- Paper – contaminated (incl. tissue/excl. hand towels)
- Plastic – film – packaging – other
- Cardboard dry – packaging
- Paper – printing / writing (other office)
- Paper – hand towels
- Plastic – PP packaging (P5)
- Plastic – LDPE non- packaging (P4)
- Plastic – other
- Food organics – other liquid
- Food organics – packaged

**Figure 114 Shopping centres – top 15 materials**



## 5.15.2. Composition using visual audit categories

### Consolidated composition

Table 206 shows the composition of garbage bags from the shopping centres sector using the consolidated visual audit categories.

The results show:

- Organics occupied most of the garbage bag contents by weight at 28.2%.
- Followed by paper and cardboard (24.9%), plastics (24.2%) and nappies (8.0%).
- These materials made up approximately 85% of garbage bag contents.

**Table 206 Shopping centres – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	24.85
Electrical & Electronic	0.42
Organics	28.22
Glass	3.13
Aggregates, Masonry & Soils	0.37
Metals	2.96
Plastics	24.19
Rubber	0.73
Textiles & Leather	5.83
Nappies	7.99
Hazardous	0.81
Other	0.50
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 207 shows the composition of garbage bags from the shopping centres sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 207 Shopping centres – detailed composition – visual categories**

Visual category	Percentage by weight
V-1 A, M & soils – concrete, bricks & asphalt	0.000
V-2 A, M & soils – plasterboard	0.000
V-3 A, M & soils – soil, clay & rubble	0.241
V-4 A, M & soils – other	0.130
V-5 E&E – batteries	0.078
V-6 E&E – computers and peripherals	0.032
V-7 E&E – TVs	0.000
V-8 E&E – whitegoods	0.000
V-9 E&E – photovoltaic systems	0.000
V-10 E&E – other	0.313
V-11 Glass – non-packaging	0.334
V-12 Glass – packaging	2.808
V-13 Metal – ferrous – non-packaging	0.321
V-14 Metal – ferrous – packaging	1.430
V-15 Metal – aluminium – non-packaging	0.315
V-16 Metal – aluminium – packaging	0.890
V-17 Food organics – unpackaged	23.157
V-18 Food organics – packaged	1.899
V-19 Food organics – liquid	1.974

	Visual category	Percentage by weight
V-20	Garden organics	0.759
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.012
V-23	Wood – MDF & chipboard	0.027
V-24	Wood – treated – furniture	0.112
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.273
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	3.126
V-30	Cardboard – wet	0.614
V-31	Cardboard – wet strength/waxed	3.173
V-32	Paper – recyclable	9.697
V-33	Paper – non-recyclable	7.493
V-34	Paper – packaging	0.730
V-35	Plastic – EPS foam	0.046
V-36	Plastic – film packaging	5.533
V-37	Plastic – other	12.246
V-38	Plastic – rigid packaging	6.374
V-39	Rubber – other	0.732
V-40	Rubber – tyres	0.000
V-41	Leather	0.161
V-42	Textiles – cloth & rags	5.667
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.393
V-49	Hazardous – Clinical	0.414
V-50	Other waste	8.496
	<b>Total</b>	<b>100.000</b>

### 5.15.3. Recoverability of materials in garbage bags

Table 208 provides the consolidated recoverability composition for garbage bags from the shopping centres sector. Figure 115 shows the results graphically. The data shows that 53.2% of materials in garbage bags were recoverable now and 38.1% was recoverable in the future.

**Table 208 Shopping centres – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	53.23
Recoverable in the future	38.08
Not recoverable	8.69
<b>Total</b>	<b>100.00</b>

**Figure 115 Shopping centres – recoverability consolidated composition**

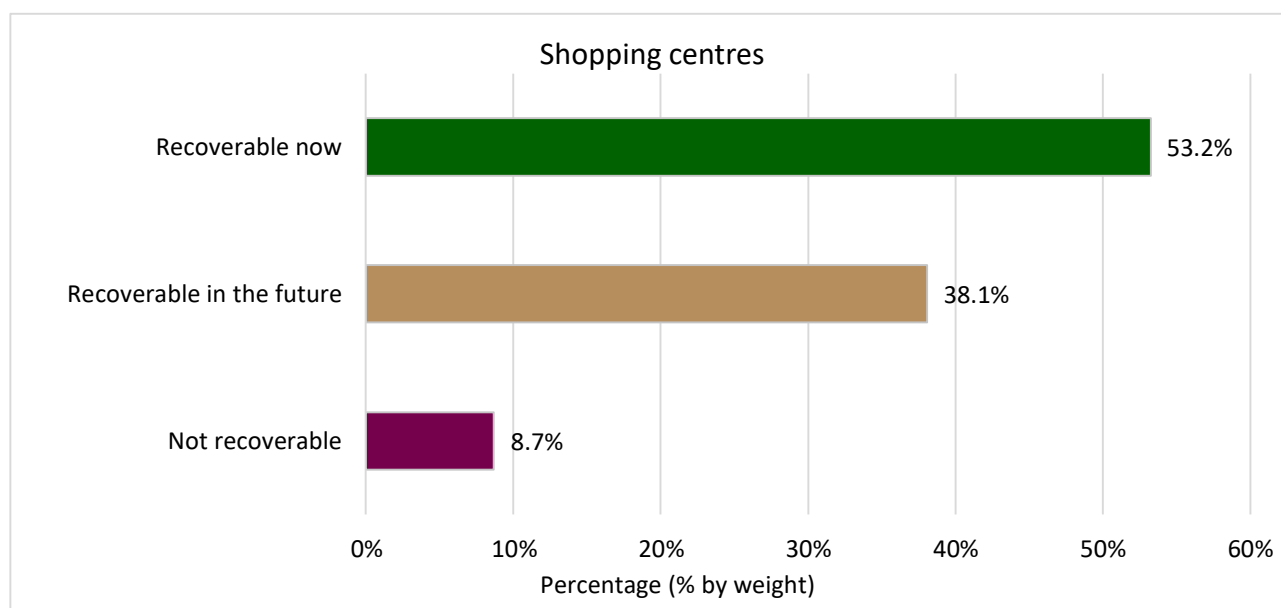


Table 209 provides the detailed recoverability of materials in garbage bags from the shopping centres sector and Figure 116 shows the data graphically. The data shows that:

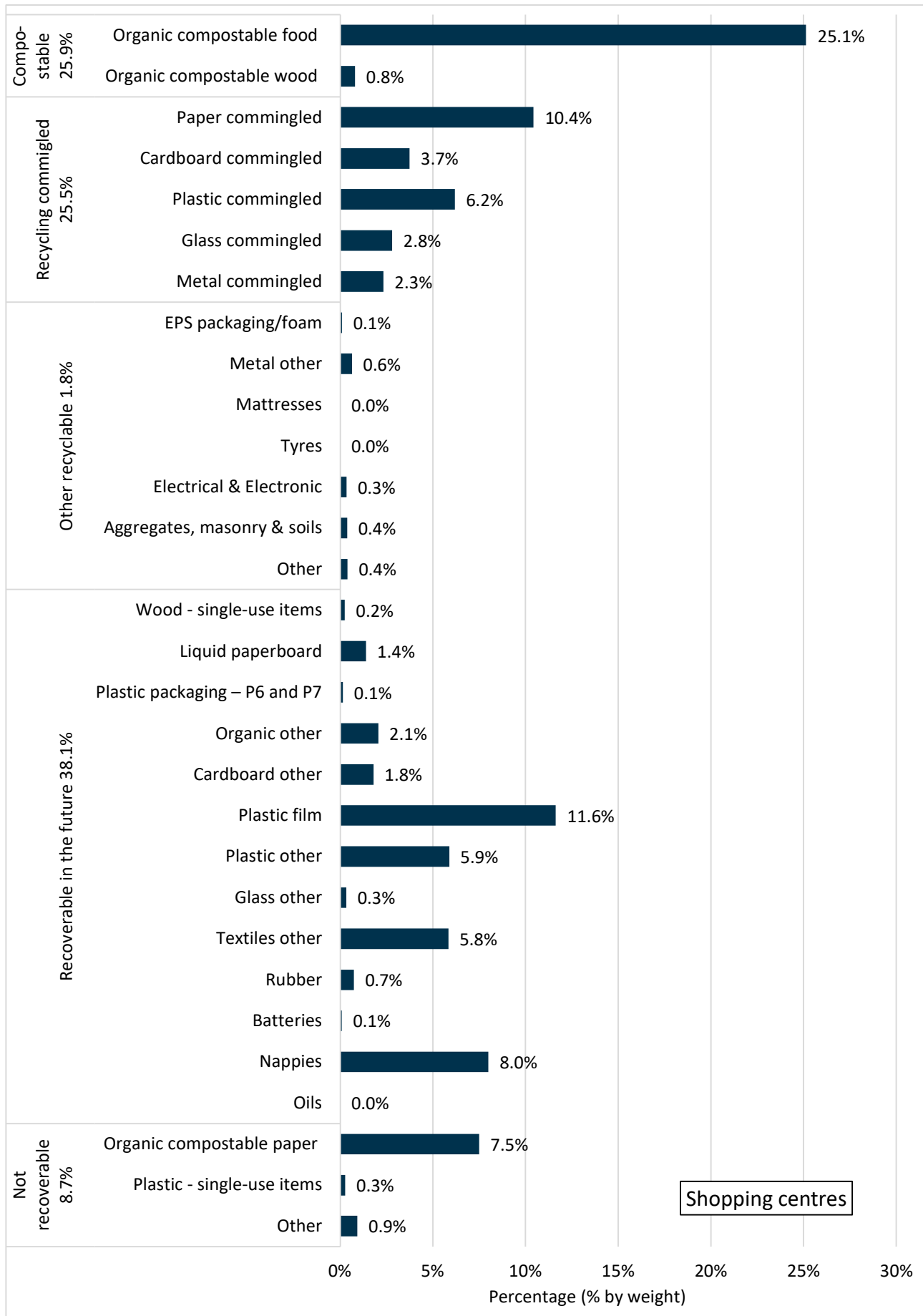
- Most material recoverable now is organic compostable food, paper and other recycling comingled respectively.
- Most material recoverable in the future is plastic film, nappies, plastic other, textiles other, organic other, cardboard other and liquid paperboard respectively.

**Table 209 Shopping centres – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	25.13
Organic compostable wood	0.80
Paper commingled	10.43
Cardboard commingled	3.74
Plastic commingled	6.18
Glass commingled	2.80
Metal commingled	2.33
EPS packaging/foam	0.09
Metal other	0.63
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.34
Aggregates, masonry & soils	0.37
Other ^	0.39
<b>Sub-total: Recoverable now</b>	<b>53.23</b>
Wood – single-use items	0.24
Liquid paperboard	1.39
Plastic packaging – P6 and P7	0.14
Organic other	2.05
Cardboard other	1.79
Plastic film	11.63
Plastic other	5.88
Glass other	0.33
Textiles other	5.83
Rubber	0.73
Batteries	0.08
Nappies	7.99
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>38.08</b>
Organic compostable paper	7.50
Plastic single-use items	0.27
Other	0.92
<b>Sub-total: Not recoverable</b>	<b>8.69</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 116 Shopping centres – recoverability detailed composition**





## 5.15.4. Focus material: degradable organic content (DOC)

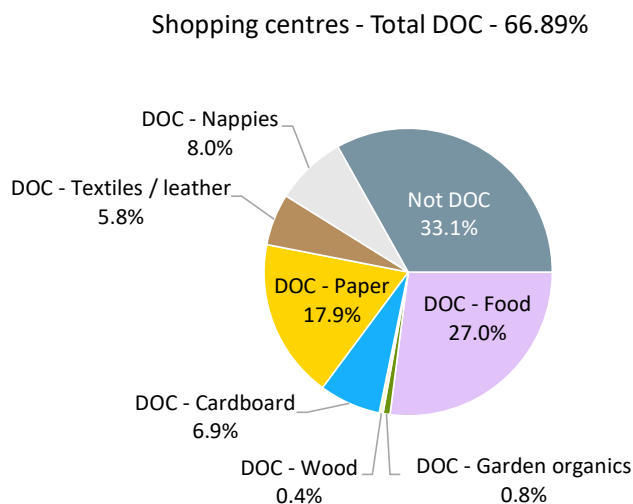
Table 210 provides the DOC in garbage bags from the shopping centres sector, as defined in Table 3. Figure 117 shows the data graphically. The garbage bag contents were 66.9% DOC, with the top three materials in this order:

- DOC – food organics 27.0%;
- DOC – paper 17.9%; and
- DOC – nappies 8.0%.

**Table 210 Shopping centres – focus material – DOC**

DOC type	Overall
DOC – food	27.03
DOC – garden organics	0.76
DOC – wood	0.43
DOC – cardboard	6.92
DOC – paper	17.93
DOC – textiles and leather	5.83
DOC – nappies	7.99
<b>Sub-total – DOC content</b>	<b>66.89</b>
Other waste	33.11
<b>Total</b>	<b>100.00</b>

**Figure 117 Shopping centres – focus material – DOC**



## 5.15.5. Focus material: packaging material

Table 211 provides the packaging material content in garbage bags from the shopping centres sector, as defined in Table 3. Figure 118 shows the data graphically.

The garbage bag contents were 24.6% packaging material, with the top three materials in this order:

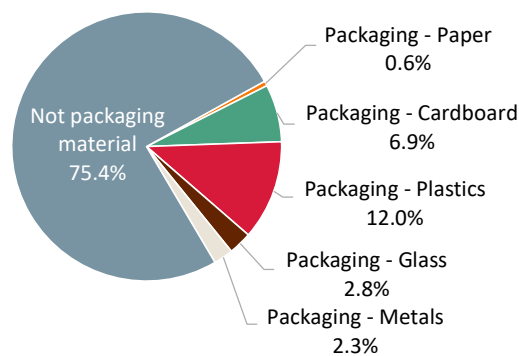
- Packaging – plastics 12.0%.
- Packaging – cardboard 6.9%; and
- Packaging – glass 2.8%.

**Table 211 Shopping centres – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.59
Packaging - Cardboard	6.92
Packaging - Plastics	11.95
Packaging - Glass	2.80
Packaging - Metals	2.33
<b>Sub-total – packaging material</b>	<b>24.59</b>
Other waste	75.41
<b>Total</b>	<b>100.00</b>

**Figure 118 Shopping centres – focus material – packaging material**

Shopping centres - Total Packaging - 24.59%



### 5.15.6. Focus material: food organics

Table 212 provides the food organics content in garbage bags from the shopping centres sector, as defined in Table 3. Figure 119 shows the data graphically.

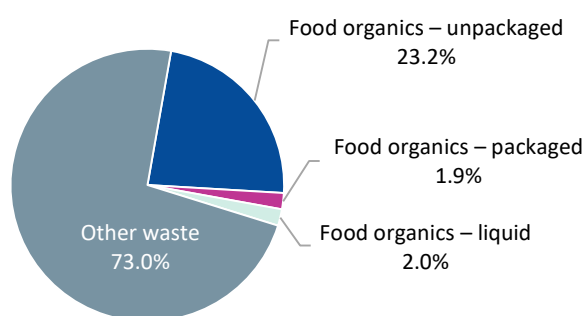
The data shows that approximately 27.0% of garbage bag contents is food organics; with 23.2% unpackaged food and 3.9% packaged food including cooking oil or other liquid.

**Table 212 Shopping centres – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	23.16
Food organics – packaged	1.90
Food organics – liquid	1.97
<b>Sub-total – food organics</b>	<b>27.03</b>
Other waste	72.97
<b>Total</b>	<b>100.00</b>

**Figure 119 Shopping centres – focus material – food organics**

Shopping centres - Total Food organics - 27.03%



### 5.15.7. Focus material: textiles and leather

Approximately 5.8% of garbage bag contents from the shopping centres sector is textiles and leather. Table 213 provides the types of textiles and leather content in garbage bags from the shopping centres sector and Figure 120 shows the data graphically.

The data shows that the main types were:

- Textiles mixed textiles, 46.8%;
- Textiles natural fibres, 26.6%; and
- Textiles synthetic fibres, 23.8%.

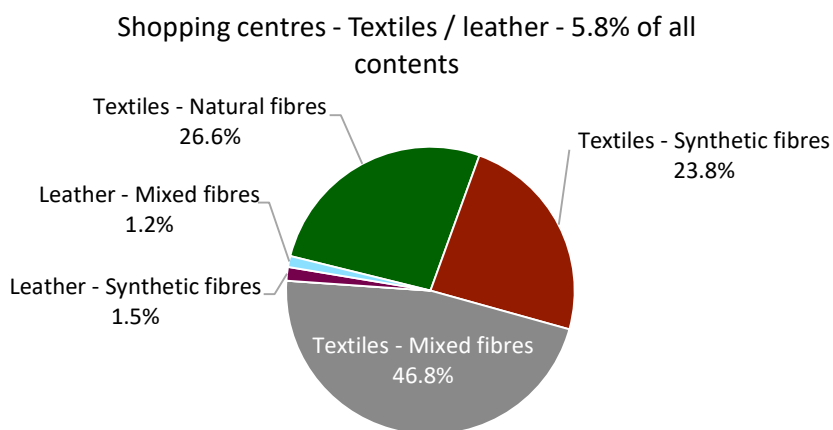
**Table 213 Shopping centres – focus material – textiles and leather**

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.93	15.94
Natural fibres	Textiles	Clothing - unwearable	0.23	4.02
Natural fibres	Textiles	Shoes - wearable	0.07	1.15
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.14	2.44
Natural fibres	Textiles	Towels	0.10	1.71
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.03
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.08	1.34
<b>Sub-total: Textiles</b>			<b>1.55</b>	<b>26.63</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>1.55</b>	<b>26.63</b>
Synthetic fibres	Textiles	Nappies - cloth	0.01	0.16
Synthetic fibres	Textiles	Clothing - wearable	0.10	1.73
Synthetic fibres	Textiles	Clothing - unwearable	0.39	6.66
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.07	1.28
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.02	0.41
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.49	8.34
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.31	5.24
<b>Sub-total: Textiles</b>			<b>1.39</b>	<b>23.82</b>
Synthetic fibres	Leather	Clothing – wearable	0.01	0.23
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.08	1.31
<b>Sub-total: Leather</b>			<b>0.09</b>	<b>1.54</b>
<b>Sub-total: Synthetic fibres</b>			<b>1.48</b>	<b>25.36</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.61	10.46

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	1.02	17.48
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.62	10.68
Mixed fibres	Textiles	Towels	0.16	2.76
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.02	0.35
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.30	5.05
<b>Sub-total: Textiles</b>			<b>2.73</b>	<b>46.78</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.07	1.23
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.07</b>	<b>1.23</b>
<b>Sub-total: Mixed fibres</b>			<b>2.80</b>	<b>48.01</b>
<b>Total</b>			<b>5.83</b>	<b>100.00</b>

Figure 120 Shopping centres – focus material – textiles and leather



### 5.15.8. Focus material: CDS containers

Approximately 3.6% of garbage bag contents from the shopping centres sector is CDS containers. Table 214 provides the CDS containers content in garbage bags from the shopping centres sector, as defined in Table 3.

The data shows:

- By weight, glass was the most, followed by PET and aluminium.
- By count, aluminium was the most, followed by PET and liquid paperboard.

**Table 214 Shopping centres – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.96	26.91	266	34.64
HDPE (P2)	0.07	1.96	20	2.60
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	1.64	45.79	65	8.46
Steel	0.07	2.05	37	4.82
Aluminum	0.52	14.38	288	37.50
Liquid Paperboard	0.32	8.91	92	11.98
<b>Total</b>	<b>3.58</b>	<b>100.00</b>	<b>768</b>	<b>100.00</b>

### 5.15.9. Focus material: other beverage containers

Approximately 1.6% of garbage bag contents from the shopping centres sector is other beverage containers. Table 215 provides the other beverage containers content in garbage bags from the shopping centres sector, as defined in Table 3. The data shows that approximately 90% was HDPE beverage containers.

**Table 215 Shopping centres – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.05	7	3.15
PET (P1)	Cordial	0.03	4	1.80
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.75	197	88.75
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.49	8	3.60
Glass	Spirits	0.21	5	2.25
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00
Glass	Cordial	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Flavoured milk >1-3L	0.00	0	0.00
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.02	1	0.45
<b>Total</b>		<b>1.55</b>	<b>222</b>	<b>100.00</b>

### 5.15.10. Focus material: single-use items

Table 216 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 66.8% of total single-use items.
- Followed by non-compostable coffee cups (12.5% of total single-use items), HDPE bags (5.6% of total single-use items) and compostable coffee cups (5.4% of total single-use items).

**Table 216 Shopping centres – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.24	3.11
Cardboard	Coffee cups - compostable	0.42	5.42
Cardboard	Coffee cups - non-compostable	0.96	12.45
Cardboard	Other cups	0.10	1.35
Paper	Single-use items	5.13	66.83
Plastic	PS/EPS straws	0.00	0.03
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.03	0.44
Plastic	PS/EPS cups	0.03	0.41
Plastic	PS/EPS coffee cup lids	0.20	2.54
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.01	0.11
Plastic	EPS plates / bowls	0.00	0.02
Plastic	Film – packaging – single use HDPE bags	0.43	5.55
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.13	1.74
<b>Total</b>		<b>7.68</b>	<b>100.00</b>

## 5.16. Offices

### 5.16.1. Composition using all sorting categories

Table 217 provides the detailed composition of garbage bags from the offices sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 217 Offices – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	19.163
S-2	Food organics - packaged	1.898
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	2.695
S-5	Garden organics	0.672
S-6	Organics - other putrescible	0.000
S-7	Wood/untreated - single-use items	0.284
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.000
S-16	Wood/treated - chipboard / MDF	0.119
S-17	Wood/treated - sawdust	0.000
S-18	Cardboard dry - packaging	4.029
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.000
S-21	Cardboard wet - packaging	1.133
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.325
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.068
S-26	Cardboard - disposable - coffee cups - compostable	0.772
S-27	Cardboard - disposable - coffee cups - non-compostable	1.478
S-28	Cardboard - disposable - other cups	0.706
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	0.796
S-31	Paper - brochures and leaflets	0.017
S-32	Paper - books	0.000



	Sorting category	Percentage by weight
S-33	Paper - printing/writing (other office)	6.144
S-34	Paper - other packaging	0.554
S-35	Paper - newsprint	0.000
S-36	Paper - brown kraft paper	0.506
S-37	Paper - rolls of low grade	0.044
S-38	Paper - hand towels	7.679
S-39	Paper - single-use items	5.041
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	9.672
S-41	Plastic - PET beverage containers (P1) - CDS	1.191
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.058
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.059
S-46	Plastic - PET packaging (excl beverage containers) (P1)	2.615
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.150
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.016
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.120
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.389
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.371
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.091
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.007
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.000
S-58	Plastic - LDPE packaging (P4)	0.050
S-59	Plastic - LDPE non-packaging (P4)	2.011
S-60	Plastic - PP packaging (P5)	1.846
S-61	Plastic - PP non-packaging (P5) - cups	0.068
S-62	Plastic - PP non-packaging (P5) - other	0.000
S-63	Plastic - PS packaging (P6)	0.071
S-64	Plastic - EPS packaging containers (P6)	0.016
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.008
S-67	Plastic - PS/EPS - cutlery	0.123
S-68	Plastic - PS/EPS - cups	0.024
S-69	Plastic - PS/EPS - coffee cup lids	0.486
S-70	Plastic - PS/EPS - stemmed cotton buds	0.005
S-71	Plastic - PS - plates/bowls	0.091
S-72	Plastic - EPS - plates / bowls	0.000

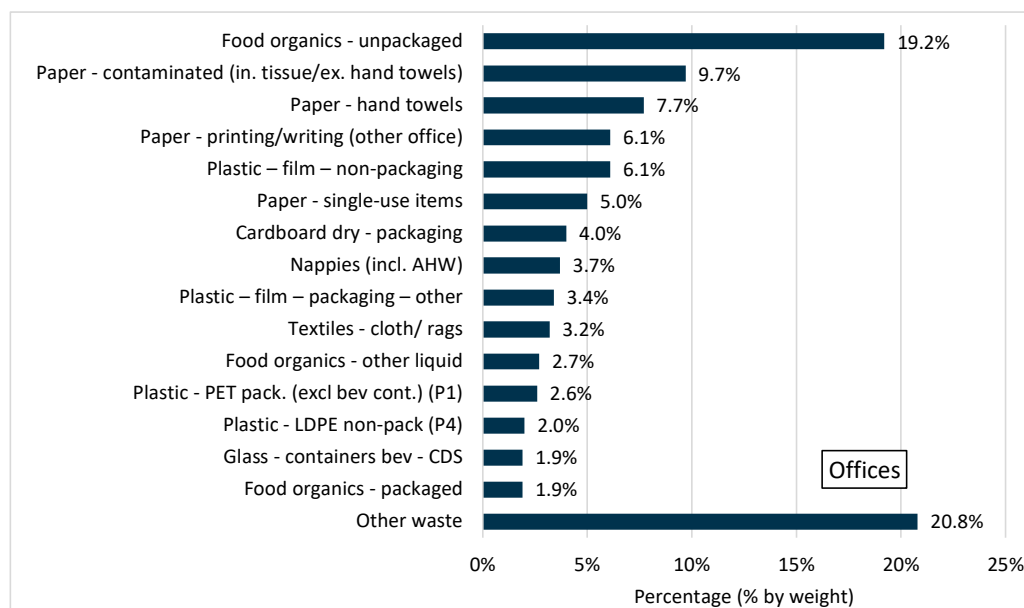
	Sorting category	Percentage by weight
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.000
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.038
S-77	Plastic – film – packaging – single use HDPE bags	0.121
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.121
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.027
S-80	Plastic – film – packaging – other	3.418
S-81	Plastic – film – non-packaging	6.122
S-82	Plastic - polystyrene foam (EPS)	0.025
S-83	Plastic - other	1.232
S-84	Glass - containers beverage - CDS	1.903
S-85	Glass - containers beverage-not CDS-wine/champagne	0.241
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	0.834
S-94	Glass - containers (fines)	0.017
S-95	Glass - plate / non-packaging (other glass)	0.000
S-96	Metal (ferrous) - packaging beverage - CDS	0.000
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	1.465
S-100	Metal (ferrous) - non-packaging	0.091
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.629
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	0.629
S-105	Metal (non-ferrous) - non-packaging	0.396
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	3.224
S-109	Leather	0.000
S-110	Rubber - tyres, tubes	0.000
S-111	Rubber - other	0.475

	Sorting category	Percentage by weight
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.000
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	0.150
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.000
S-124	C&D - rock/dirt/soil	0.000
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.000
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.000
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.472
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.064
S-139	Hazardous / special - personal care with microbeads	0.240
S-140	Hazardous / special - clinical - sharps	0.000
S-141	Hazardous / special - clinical - other	0.000
S-142	Fines (<10mm) not able to be categorised	0.138
S-143	Liquid paperboard (cardboard) - CDS	0.029
S-144	Liquid paperboard (cardboard) - NOT CDS	0.268
S-145	Liquid paperboard (cardboard) - other packaging	0.111
S-146	Nappies (incl. AHW)	3.729
S-147	Insulation	0.000
S-148	Other (specify in notes)	0.130
	<b>Total</b>	<b>100.000</b>

Figure 121 shows the top 15 materials. The top 15 materials in garbage bags from the offices sector were:

- Food organics – unpackaged
- Paper – contaminated (incl. tissue/excl. hand towels)
- Paper – hand towels
- Paper – printing / writing (other office)
- Plastic – film – non-packaging
- Paper – single-use items
- Cardboard dry – packaging
- Nappies (incl. AHW)
- Plastic – film – packaging – other
- Textiles – cloth / rags
- Food organics – other liquid
- Plastic – PET packaging (excl. beverage containers) (P1)
- Plastic – LDPE non-packaging (P4)
- Glass – beverage containers – CDS
- Food organics – packaged

**Figure 121 Offices – top 15 materials**



## 5.16.2. Composition using visual audit categories

### Consolidated composition

Table 218 shows the composition of garbage bags from the offices sector using the consolidated visual audit categories. The results show:

- Paper occupied most of the garbage bag contents at 39.4%.
- Followed by organics (24.8%) and plastics (21.0%).
- These materials made up approximately 85% of garbage bag contents.

**Table 218 Offices – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	39.37
Electrical & Electronic	0.15
Organics	24.82
Glass	2.99
Aggregates, Masonry & Soils	0.00
Metals	3.21
Plastics	21.00
Rubber	0.47
Textiles & Leather	3.22
Nappies	3.73
Hazardous	0.77
Other	0.27
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 219 shows the composition of garbage bags from the offices sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 219 Offices – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.000
V-3	A, M & soils – soil, clay & rubble	0.000
V-4	A, M & soils – other	0.000
V-5	E&E – batteries	0.000
V-6	E&E – computers and peripherals	0.000
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	0.150
V-11	Glass – non-packaging	0.000
V-12	Glass – packaging	2.995
V-13	Metal – ferrous – non-packaging	0.091
V-14	Metal – ferrous – packaging	1.465
V-15	Metal – aluminium – non-packaging	0.396
V-16	Metal – aluminium – packaging	1.258
V-17	Food organics – unpackaged	19.163
V-18	Food organics – packaged	1.898
V-19	Food organics – liquid	2.695

	Visual category	Percentage by weight
V-20	Garden organics	0.672
V-21	Sawdust	0.000
V-22	Wood – treated/painted	0.000
V-23	Wood – MDF & chipboard	0.119
V-24	Wood – treated – furniture	0.000
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.284
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	4.354
V-30	Cardboard – wet	1.133
V-31	Cardboard – wet strength/waxed	3.432
V-32	Paper – recyclable	11.998
V-33	Paper – non-recyclable	17.351
V-34	Paper – packaging	1.104
V-35	Plastic – EPS foam	0.025
V-36	Plastic – film packaging	3.687
V-37	Plastic – other	10.374
V-38	Plastic – rigid packaging	6.884
V-39	Rubber – other	0.475
V-40	Rubber – tyres	0.000
V-41	Leather	0.000
V-42	Textiles – cloth & rags	3.224
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	0.000
V-48	Hazardous – Chemicals/other hazardous	0.472
V-49	Hazardous – Clinical	0.304
V-50	Other waste	3.997
	<b>Total</b>	<b>100.000</b>

### 5.16.3. Recoverability of materials in garbage bags

Table 220 provides the consolidated recoverability composition for garbage bags from the offices sector. Figure 122 shows the results graphically. The data shows that approximately 54.8% of materials in garbage bags were recoverable now and 26.6% was recoverable in the future.

**Table 220 Offices – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	54.78
Recoverable in the future	26.56
Not recoverable	18.66
<b>Total</b>	<b>100.00</b>

**Figure 122 Offices – recoverability consolidated composition**

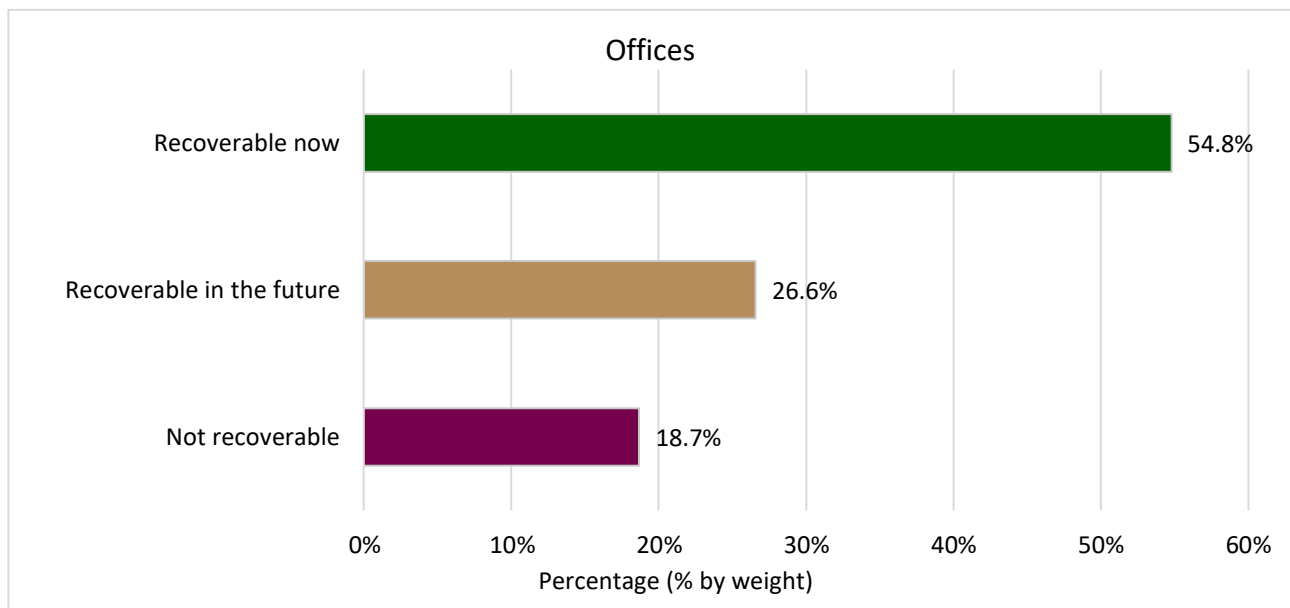


Table 221 provides the detailed recoverability of materials in garbage bags from the offices sector and Figure 123 shows the data graphically. The data shows that:

- Most material recoverable now is organic compostable food, paper and other recycling commingled respectively.
- Most material recoverable in the future is plastic film, nappies, plastic other, textiles other, cardboard other and organic other respectively.

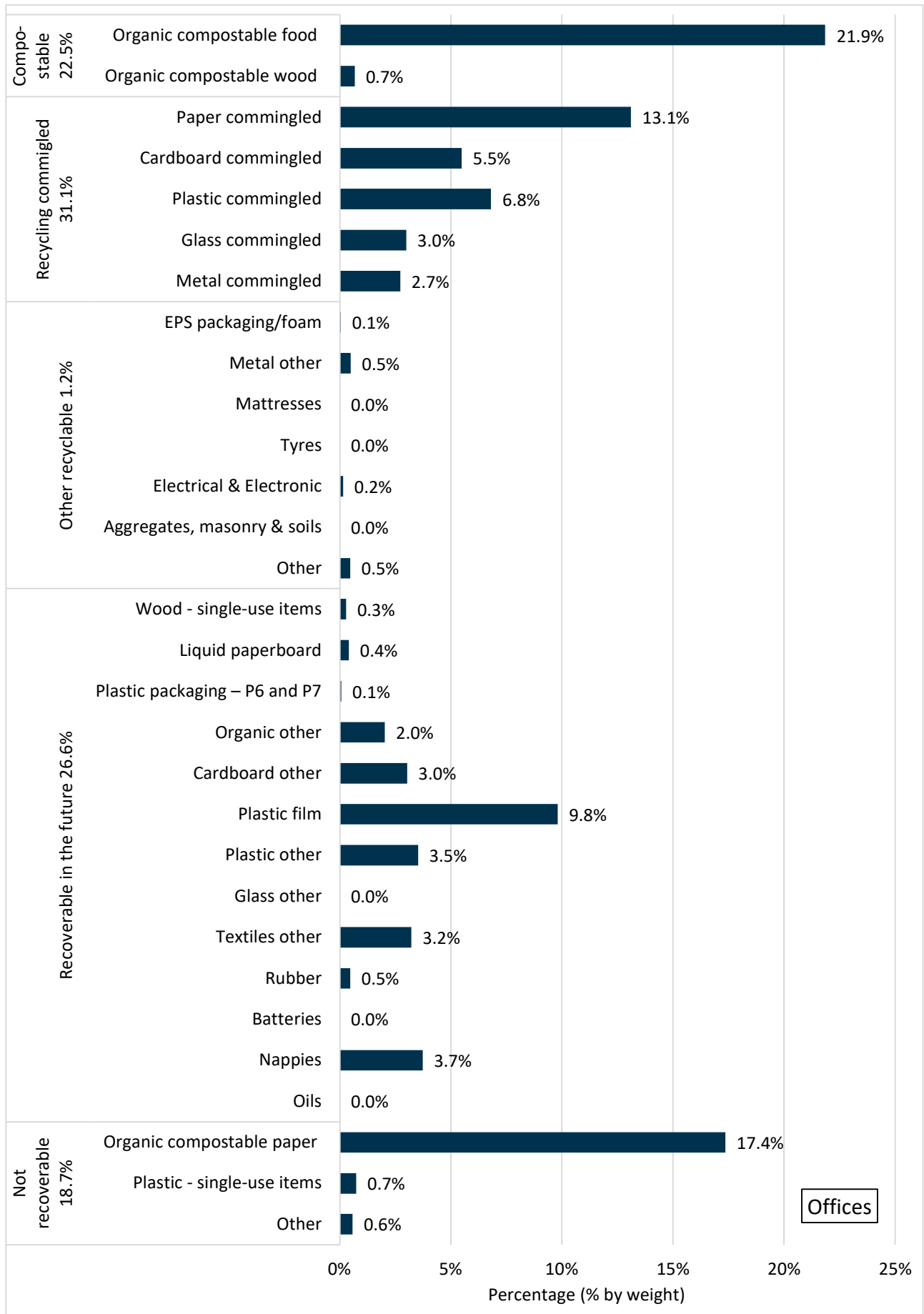
**Table 221 Offices – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	21.85
Organic compostable wood	0.67
Paper commingled	13.10
Cardboard commingled	5.48
Plastic commingled	6.81
Glass commingled	2.99
Metal commingled	2.72
EPS packaging/foam	0.05
Metal other	0.49
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	0.15
Aggregates, masonry & soils	0.00
Other ^	0.47
<b>Sub-total: Recoverable now</b>	<b>54.78</b>
Wood – single-use items	0.28
Liquid paperboard	0.41
Plastic packaging – P6 and P7	0.07
Organic other	2.02
Cardboard other	3.03
Plastic film	9.81
Plastic other	3.52
Glass other	0.00
Textiles other	3.22
Rubber	0.47
Batteries	0.00
Nappies	3.73
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>26.56</b>
Organic compostable paper	17.35
Plastic single-use items	0.74
Other	0.57
<b>Sub-total: Not recoverable</b>	<b>18.66</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.



**Figure 123 Offices – recoverability detailed composition**



## 5.16.4. Focus material: degradable organic content (DOC)

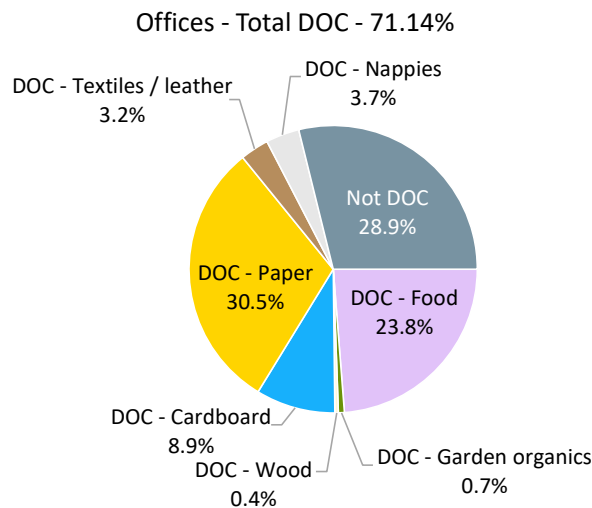
Table 222 provides the DOC in garbage bags from the offices sector, as defined in Table 3. Figure 124 shows the data graphically. The garbage bag contents were 71.1% DOC, with the top three materials in this order:

- DOC – paper 30.5%;
- DOC – food organics 23.8%; and
- DOC – cardboard 8.9%.

**Table 222 Offices – focus material – DOC**

DOC type	Overall
DOC – food	23.75
DOC – garden organics	0.67
DOC – wood	0.40
DOC – cardboard	8.92
DOC – paper	30.45
DOC – textiles and leather	3.22
DOC – nappies	3.73
<b>Sub-total – DOC content</b>	<b>71.14</b>
Other waste	28.86
<b>Total</b>	<b>100.00</b>

**Figure 124 Offices – focus material – DOC content**



## 5.16.5. Focus material: packaging material

Table 223 provides the packaging material content in garbage bags from the offices sector, as defined in Table 3. Figure 125 shows the data graphically.

The garbage bag contents were 26.3% packaging material, with the top three materials in this order:

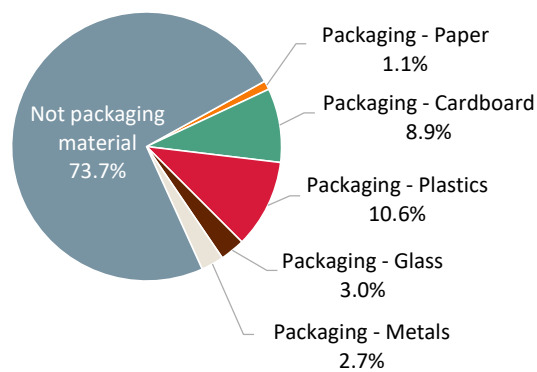
- Packaging – plastics 10.6%.
- Packaging – cardboard 8.9%; and
- Packaging – glass 3.0%.

**Table 223 Offices – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	1.06
Packaging - Cardboard	8.92
Packaging - Plastics	10.62
Packaging - Glass	2.99
Packaging - Metals	2.72
<b>Sub-total – packaging material</b>	<b>26.31</b>
Other waste	73.69
<b>Total</b>	<b>100.00</b>

**Figure 125 Offices – focus material – packaging material**

Offices - Total Packaging - 26.31%



### 5.16.6. Focus material: food organics

Table 224 provides the food organics content in garbage bags from the offices sector, as defined in Table 3. Figure 126 shows the data graphically.

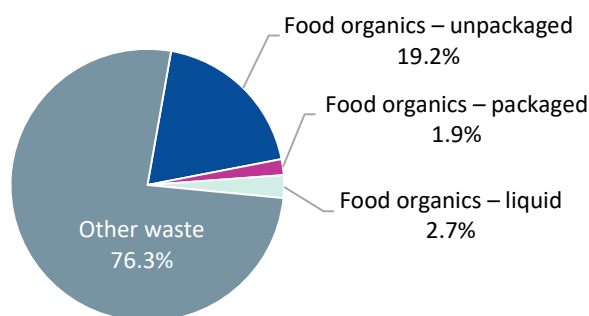
The data shows that approximately 23.8% of garbage bag contents is food organics; with 19.2% unpackaged food and 4.6% packaged food including cooking oil or other liquid.

**Table 224 Offices – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	19.16
Food organics – packaged	1.90
Food organics – liquid	2.69
<b>Sub-total – food organics</b>	<b>23.75</b>
Other waste	76.25
<b>Total</b>	<b>100.00</b>

**Figure 126 Offices – focus material – food organics**

Offices - Total Food organics - 23.75%



### 5.16.7. Focus material: textiles and leather

Approximately 3.2% of garbage bag contents from the offices sector is textiles and leather. Table 225 provides the types of textiles and leather content in garbage bags from the offices sector and Figure 127 shows the data graphically.

The data shows that the main types were:

- Textiles mixed textiles, 51.5%;
- Textiles synthetic fibres, 34.9%; and
- Textiles natural fibres, 13.6%.

**Table 225 Offices – focus material – textiles and leather**

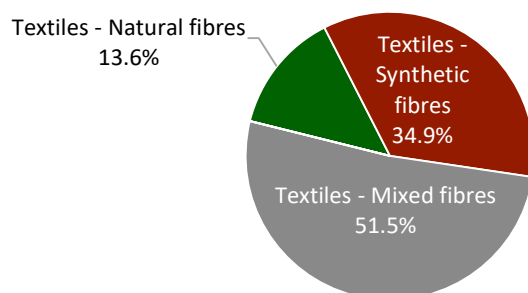
Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	0.00	0.00
Natural fibres	Textiles	Clothing - unwearable	0.44	13.61
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.00	0.00
Natural fibres	Textiles	Towels	0.00	0.00
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>0.44</b>	<b>13.61</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>0.44</b>	<b>13.61</b>
Synthetic fibres	Textiles	Nappies - cloth	0.06	1.87
Synthetic fibres	Textiles	Clothing - wearable	0.00	0.00
Synthetic fibres	Textiles	Clothing - unwearable	0.09	2.72
Synthetic fibres	Textiles	Shoes - wearable	0.00	0.00
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.94	29.36
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.03	0.90
<b>Sub-total: Textiles</b>			<b>1.12</b>	<b>34.85</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>1.12</b>	<b>34.85</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.00	0.00

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	1.64	50.79
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	0.00	0.00
Mixed fibres	Textiles	Towels	0.00	0.00
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.02	0.75
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>1.66</b>	<b>51.54</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Mixed fibres</b>			<b>1.66</b>	<b>51.54</b>
<b>Total</b>			<b>3.22</b>	<b>100.00</b>

Figure 127 Offices – focus material – textiles and leather

Offices - Textiles / leather - 3.2% of all contents



## 5.16.8. Focus material: CDS containers

Approximately 3.9% of garbage bag contents from the offices sector is CDS containers. Table 226 provides the CDS containers content in garbage bags from the offices sector, as defined in Table 3.

The data shows:

- By weight, glass was the most, followed by PET and aluminium.
- By count, PET was the most, followed by aluminium and glass.

**Table 226 Offices – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	1.19	30.76	67	43.79
HDPE (P2)	0.12	3.10	5	3.27
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	1.90	49.15	15	9.80
Steel	0.00	0.00	0	0.00
Aluminum	0.63	16.24	63	41.18
Liquid Paperboard	0.03	0.75	3	1.96
<b>Total</b>	<b>3.87</b>	<b>100.00</b>	<b>153</b>	<b>100.00</b>

## 5.16.9. Focus material: other beverage containers

Approximately 0.8% of garbage bag contents from the offices sector is other beverage containers. Table 227 provides the other beverage containers content in garbage bags from the offices sector, as defined in Table 3.

The data shows 72% was HDPE beverage containers, followed by PVC cordial containers.

**Table 227 Offices – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.06	1	5.56
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.39	13	72.21
PVC (P3)	Cordial	0.09	3	16.67
Glass	Wine/champagne	0.24	1	5.56
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>0.78</b>	<b>18</b>	<b>100.00</b>

### 5.16.10. Focus material: single-use items

Table 228 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 54.5% of total single-use items.
- Followed by non-compostable coffee cups (16.0% of total single-use items), compostable coffee cups (8.3% of total single-use items) and other cups (7.6% of total single-use items).

**Table 228 Offices – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.28	3.07
Cardboard	Coffee cups - compostable	0.77	8.34
Cardboard	Coffee cups - non-compostable	1.48	15.97
Cardboard	Other cups	0.71	7.62
Paper	Single-use items	5.04	54.45
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.01	0.09
Plastic	PS/EPS cutlery	0.12	1.32
Plastic	PS/EPS cups	0.02	0.26
Plastic	PS/EPS coffee cup lids	0.49	5.25
Plastic	PS/EPS stemmed cotton buds	0.01	0.05
Plastic	PS plates/bowls	0.09	0.98
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.12	1.30
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.12	1.30
<b>Total</b>		<b>9.26</b>	<b>100.00</b>



## 5.17. Mixed Small-to-Medium Enterprises (SMEs)

### 5.17.1. Composition using all sorting categories

Table 229 provides the detailed composition of garbage bags from the mixed SMEs sector by percentage using the 148 sorting categories (excluding the sub-sort of textiles and leather). Three decimal places are provided because a large number of categories were used with many present in small percentages.

**Table 229 Mixed SMEs – detailed composition – 148 categories**

	Sorting category	Percentage by weight
S-1	Food organics - unpackaged	15.288
S-2	Food organics - packaged	2.265
S-3	Food organics - cooking oil	0.000
S-4	Food organics - other liquid	1.467
S-5	Garden organics	0.692
S-6	Organics - other putrescible	0.858
S-7	Wood/untreated - single-use items	0.434
S-8	Wood/untreated - board/pole	0.000
S-9	Wood/untreated - pallets	0.000
S-10	Wood/untreated - furniture	0.000
S-11	Wood/untreated - chipboard / MDF	0.000
S-12	Wood/untreated - sawdust	0.000
S-13	Wood/treated/painted - board/pole	0.000
S-14	Wood/treated/painted - pallets	0.000
S-15	Wood/treated/painted - furniture	0.061
S-16	Wood/treated - chipboard / MDF	0.938
S-17	Wood/treated - sawdust	2.630
S-18	Cardboard dry - packaging	2.983
S-19	Cardboard dry - production spoils	0.000
S-20	Cardboard dry - waxed	0.000
S-21	Cardboard wet - packaging	1.616
S-22	Cardboard - not-CDS-wine/champagne casks/sachets >1-3L	0.000
S-23	Cardboard - pizza boxes	0.268
S-24	Cardboard wet - production spoils	0.000
S-25	Cardboard wet - waxed / wet strength - boxes	0.062
S-26	Cardboard - disposable - coffee cups - compostable	0.481
S-27	Cardboard - disposable - coffee cups - non-compostable	0.163
S-28	Cardboard - disposable - other cups	0.007
S-29	Paper - photocopy paper	0.000
S-30	Paper - magazines / catalogues	1.037
S-31	Paper - brochures and leaflets	0.000
S-32	Paper - books	0.000

	Sorting category	Percentage by weight
S-33	Paper - printing/writing (other office)	1.082
S-34	Paper - other packaging	0.246
S-35	Paper - newsprint	0.175
S-36	Paper - brown kraft paper	0.716
S-37	Paper - rolls of low grade	0.311
S-38	Paper - hand towels	1.167
S-39	Paper - single-use items	3.750
S-40	Paper - contaminated (incl. tissue/excl. hand towels)	4.626
S-41	Plastic - PET beverage containers (P1) - CDS	0.638
S-42	Plastic - PET beverage containers (P1) - NOT CDS - fruit & veg juice >1-3L	0.066
S-43	Plastic - PET beverage containers (P1) - NOT CDS - cordial	0.000
S-44	Plastic - PET beverage containers (P1) - NOT CDS - flavoured milk >1-3L	0.000
S-45	Plastic - PET beverage containers (P1) - NOT CDS - other	0.074
S-46	Plastic - PET packaging (excl beverage containers) (P1)	0.714
S-47	Plastic - PET other non-beverage/non-packaging (P1) - cups	0.007
S-48	Plastic - PET other non-beverage/non-packaging (P1) - other	0.000
S-49	Plastic - HDPE beverage containers (P2) - CDS	0.017
S-50	Plastic - HDPE beverage containers (P2) - NOT CDS	0.576
S-51	Plastic - HDPE packaging (excl beverage containers) (P2)	0.198
S-52	Plastic - HDPE other non-beverage/non-packaging (P2)	0.000
S-53	Plastic - PVC beverage containers (P3) - CDS	0.000
S-54	Plastic - PVC beverage containers (P3) - NOT CDS - cordial	0.000
S-55	Plastic - PVC beverage containers (P3) - NOT CDS - other	0.000
S-56	Plastic - PVC packaging (excl beverage containers) (P3)	0.028
S-57	Plastic - PVC other non-beverage/non-packaging (P3)	0.113
S-58	Plastic - LDPE packaging (P4)	0.000
S-59	Plastic - LDPE non-packaging (P4)	0.778
S-60	Plastic - PP packaging (P5)	1.595
S-61	Plastic - PP non-packaging (P5) - cups	0.024
S-62	Plastic - PP non-packaging (P5) - other	0.019
S-63	Plastic - PS packaging (P6)	0.039
S-64	Plastic - EPS packaging containers (P6)	0.000
S-65	Plastic - PS/EPS - straws	0.000
S-66	Plastic - PS/EPS - stirrers	0.000
S-67	Plastic - PS/EPS - cutlery	0.041
S-68	Plastic - PS/EPS - cups	0.050
S-69	Plastic - PS/EPS - coffee cup lids	0.150
S-70	Plastic - PS/EPS - stemmed cotton buds	0.000
S-71	Plastic - PS - plates/bowls	0.000
S-72	Plastic - EPS - plates / bowls	0.000

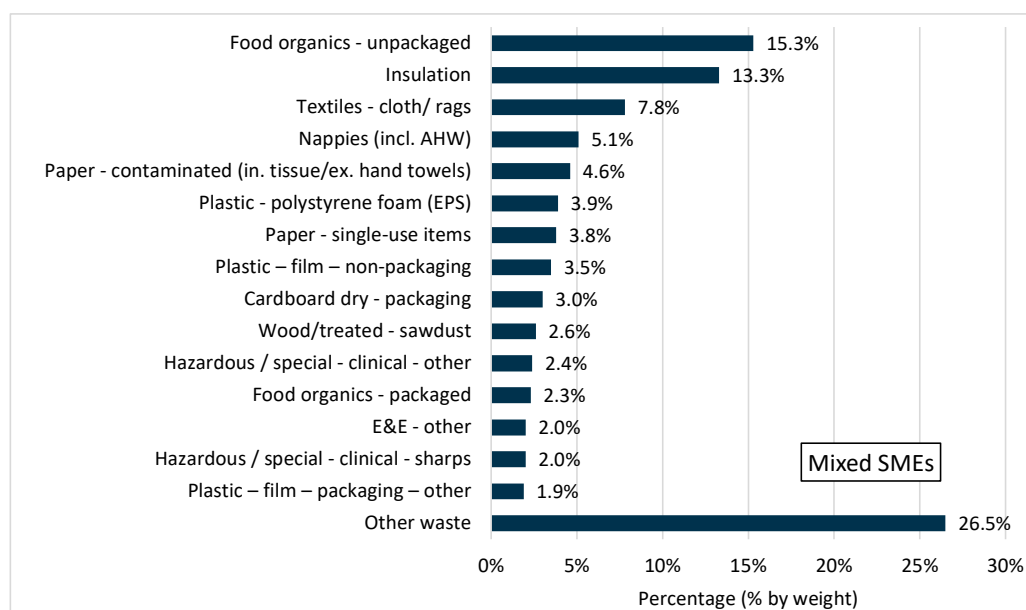
	Sorting category	Percentage by weight
S-73	Plastic - Other plastic beverage containers (P7) - CDS	0.000
S-74	Plastic - Other plastic beverage containers (P7) - NOT CDS	0.000
S-75	Plastic - Other plastic packaging (excl. beverage containers) (P7)	0.000
S-76	Plastic - Other plastic non-beverage non-packaging (P7)	0.098
S-77	Plastic – film – packaging – single use HDPE bags	0.198
S-78	Plastic – film – packaging – single use ‘boutique’ (LDPE) bags	0.027
S-79	Plastic – film – packaging – reusable non-woven PP bag	0.222
S-80	Plastic – film – packaging – other	1.886
S-81	Plastic – film – non-packaging	3.538
S-82	Plastic - polystyrene foam (EPS)	3.921
S-83	Plastic - other	0.678
S-84	Glass - containers beverage - CDS	1.226
S-85	Glass - containers beverage-not CDS-wine/champagne	0.684
S-86	Glass - containers beverage-not CDS-spirits	0.000
S-87	Glass - containers beverage-not CDS-flavoured alcoholic beverage	0.000
S-88	Glass - containers beverage-not CDS-fruit & veg juice >1-3L	0.000
S-89	Glass - containers beverage-not CDS-cordial	0.000
S-90	Glass - containers beverage-not CDS-flavoured milk >1-3L	0.000
S-91	Glass - containers beverage-not CDS-unflavoured milk	0.000
S-92	Glass - containers beverage-not CDS-other	0.000
S-93	Glass - containers non-beverage	1.308
S-94	Glass - containers (fines)	0.229
S-95	Glass - plate / non-packaging (other glass)	0.051
S-96	Metal (ferrous) - packaging beverage - CDS	0.072
S-97	Metal (ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-98	Metal (ferrous) - packaging beverage - NOT CDS - other	0.000
S-99	Metal (ferrous) - packaging non-beverage	0.539
S-100	Metal (ferrous) - non-packaging	0.179
S-101	Metal (non-ferrous) - packaging beverage - CDS	0.201
S-102	Metal (non-ferrous) - packaging beverage - NOT CDS - flavoured alcoholic beverage	0.000
S-103	Metal (non-ferrous) - packaging beverage - NOT CDS - other	0.000
S-104	Metal (non-ferrous) - packaging non-beverage	0.206
S-105	Metal (non-ferrous) - non-packaging	0.037
S-106	Textiles - carpet and underlay	0.000
S-107	Textiles - mattresses	0.000
S-108	Textiles - cloth/ rags	7.805
S-109	Leather	0.042
S-110	Rubber - tyres, tubes	0.000
S-111	Rubber - other	0.740

	Sorting category	Percentage by weight
S-112	E&E - TVs	0.000
S-113	E&E - computers and peripherals	0.054
S-114	E&E - mobile phones	0.000
S-115	E&E - toner cartridges	0.000
S-116	E&E - whitegoods	0.000
S-117	E&E - photo-voltaic systems - rooftop	0.000
S-118	E&E - photo-voltaic systems - portable	0.000
S-119	E&E - smoke detectors	0.000
S-120	E&E - other (specify in notes)	1.988
S-121	C&D - concrete	0.000
S-122	C&D - bricks	0.000
S-123	C&D - tiles	0.153
S-124	C&D - rock/dirt/soil	0.280
S-125	C&D - asphalt	0.000
S-126	C&D - plasterboard	0.566
S-127	Asbestos	0.000
S-128	Hazardous / special - batteries - lead acid (e.g. car)	0.000
S-129	Hazardous / special - batteries - large removable (e.g. e-bike/powertool)	0.000
S-130	Hazardous / special - batteries - other	0.037
S-131	Hazardous / special - gas bottles	0.000
S-132	Hazardous / special - fire extinguishers	0.000
S-133	Hazardous / special - fluorescent lamps (lights)	0.000
S-134	Hazardous / special - chemicals	0.757
S-135	Hazardous / special - paint	0.000
S-136	Hazardous / special - oil (empty)	0.000
S-137	Hazardous / special - oil (with contents)	0.000
S-138	Hazardous / special - pharmaceutical	0.105
S-139	Hazardous / special - personal care with microbeads	0.216
S-140	Hazardous / special - clinical - sharps	1.981
S-141	Hazardous / special - clinical - other	2.389
S-142	Fines (<10mm) not able to be categorised	0.000
S-143	Liquid paperboard (cardboard) - CDS	0.188
S-144	Liquid paperboard (cardboard) - NOT CDS	0.451
S-145	Liquid paperboard (cardboard) - other packaging	0.028
S-146	Nappies (incl. AHW)	5.149
S-147	Insulation	13.321
S-148	Other (specify in notes)	0.000
	<b>Total</b>	<b>100.000</b>

Figure 128 shows the top 15 materials. The top 15 materials in garbage bags from the mixed SMEs sector were:

- Food organics – unpackaged
- Insulation
- Textiles – cloth / rags
- Nappies (incl. AHW)
- Paper – contaminated (in. tissue/ex. hand towels)
- Plastic – polystyrene foam (EPS)
- Paper – single-use items
- Plastic – film – non-packaging
- Cardboard dry – packaging
- Wood/treated – sawdust
- Hazardous / special – clinical – other
- Food organics – packaged
- E&E – other
- Hazardous / special – clinical – sharps
- Plastic – film – packaging – other

**Figure 128 Mixed SMEs – top 15 materials**



## 5.17.2. Composition using visual audit categories

### Consolidated composition

Table 230 shows the composition of garbage bags from the mixed SMEs sector using the consolidated visual audit categories.

The results show:

- Organics occupied most of the garbage bag contents by weight at 24.6%.
- Followed by paper and cardboard (19.3%), plastics (15.7%), other (13.3%) and textiles and leather (7.9%).
- These materials made up approximately 80% of garbage bag contents.

**Table 230 Mixed SMEs – consolidated composition – visual categories**

Consolidated visual category	Percentage by weight
Paper & Cardboard	19.34
Electrical & Electronic	2.08
Organics	24.63
Glass	3.50
Aggregates, Masonry & Soils	0.99
Metals	1.24
Plastics	15.71
Rubber	0.74
Textiles & Leather	7.85
Nappies	5.15
Hazardous	5.45
Other	13.32
<b>Total</b>	<b>100.00</b>

**Detailed composition**

Table 231 shows the composition of garbage bags from the mixed SMEs sector using the detailed visual audit categories. Three decimal places are used based on the large number of categories and small percentages for some materials.

**Table 231 Mixed SMEs – detailed composition – visual categories**

	Visual category	Percentage by weight
V-1	A, M & soils – concrete, bricks & asphalt	0.000
V-2	A, M & soils – plasterboard	0.566
V-3	A, M & soils – soil, clay & rubble	0.280
V-4	A, M & soils – other	0.153
V-5	E&E – batteries	0.037
V-6	E&E – computers and peripherals	0.054
V-7	E&E – TVs	0.000
V-8	E&E – whitegoods	0.000
V-9	E&E – photovoltaic systems	0.000
V-10	E&E – other	1.988
V-11	Glass – non-packaging	0.051
V-12	Glass – packaging	3.447
V-13	Metal – ferrous – non-packaging	0.179
V-14	Metal – ferrous – packaging	0.611
V-15	Metal – aluminium – non-packaging	0.037
V-16	Metal – aluminium – packaging	0.407
V-17	Food organics – unpackaged	15.288
V-18	Food organics – packaged	2.265
V-19	Food organics – liquid	1.467

	Visual category	Percentage by weight
V-20	Garden organics	1.550
V-21	Sawdust	0.000
V-22	Wood – treated/painted	2.630
V-23	Wood – MDF & chipboard	0.938
V-24	Wood – treated – furniture	0.061
V-25	Wood – treated – pallets	0.000
V-26	Wood – untreated	0.434
V-27	Wood – untreated – furniture	0.000
V-28	Wood – untreated – pallets	0.000
V-29	Cardboard – dry	3.251
V-30	Cardboard – wet	1.616
V-31	Cardboard – wet strength/waxed	1.380
V-32	Paper – recyclable	6.044
V-33	Paper – non-recyclable	5.793
V-34	Paper – packaging	1.273
V-35	Plastic – EPS foam	3.921
V-36	Plastic – film packaging	2.333
V-37	Plastic – other	5.496
V-38	Plastic – rigid packaging	3.945
V-39	Rubber – other	0.740
V-40	Rubber – tyres	0.000
V-41	Leather	0.042
V-42	Textiles – cloth & rags	7.805
V-43	Textiles – carpet & underlay	0.000
V-44	Textiles – covered furniture	0.000
V-45	Textiles – mattresses	0.000
V-46	Asbestos	0.000
V-47	Insulation	13.321
V-48	Hazardous – Chemicals/other hazardous	0.757
V-49	Hazardous – Clinical	4.691
V-50	Other waste	5.149
	<b>Total</b>	<b>100.000</b>

### 5.17.3. Recoverability of materials in garbage bags

Table 232 provides the consolidated recoverability composition for garbage bags from the mixed SMEs sector. Figure 129 shows the results graphically. The data shows that 46.8% of materials in garbage bags were recoverable now and 29.2% was recoverable in the future.

**Table 232 Mixed SMEs – recoverability consolidated composition**

Recoverability	Percentage by weight
Recoverable now	46.78
Recoverable in the future	29.17
Not recoverable	24.05
<b>Total</b>	<b>100.00</b>

**Figure 129 Mixed SMEs – recoverability consolidated composition**

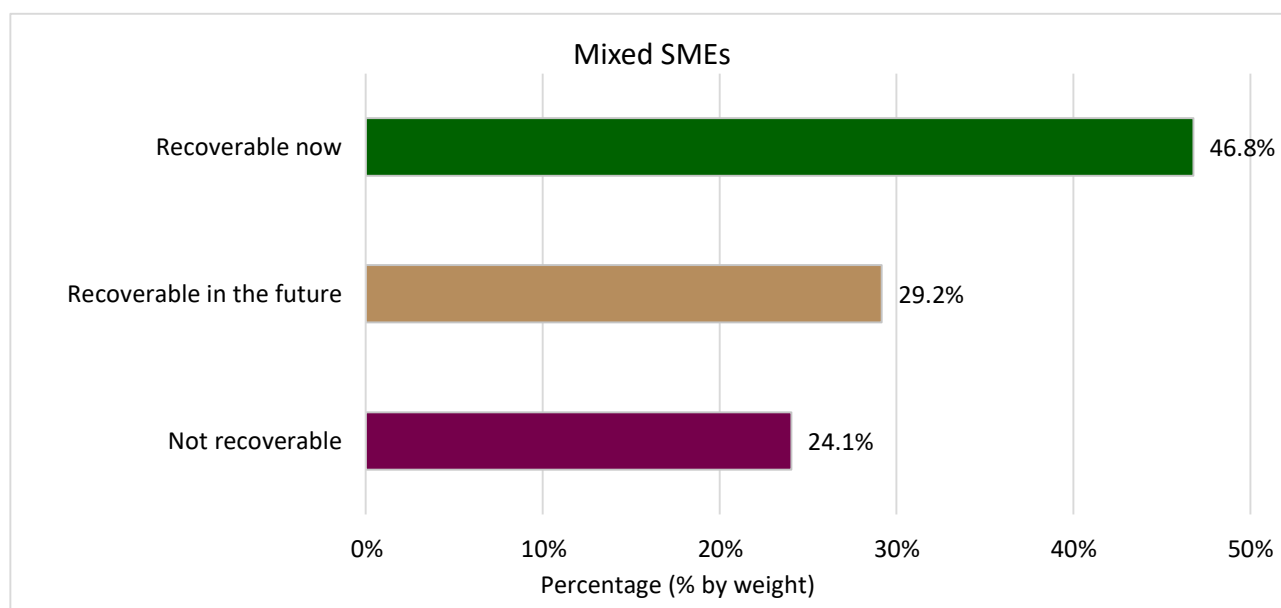


Table 233 provides the detailed recoverability of materials in garbage bags from the mixed SMEs sector and Figure 130 shows the data graphically. The data shows that:

- Most material recoverable now is organic compostable food, each recycling commingled, EPS packaging/foam, electrical and electronic and organic compostable wood respectively.
- Most material recoverable in the future is textiles other, organic other, plastic film, nappies and plastic other respectively.

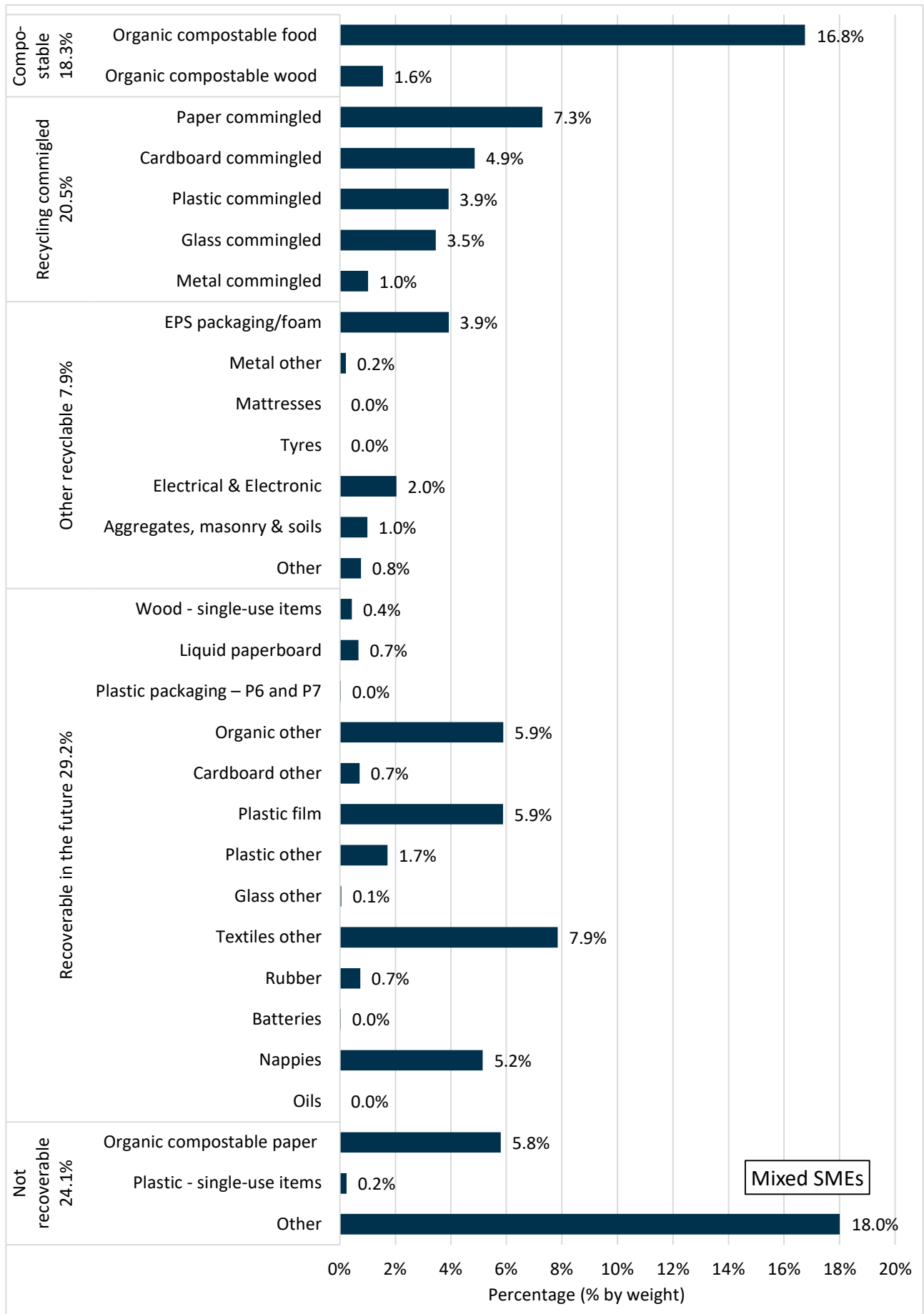


**Table 233 Mixed SMEs – recoverability detailed composition**

Recoverability category detail	Percentage by weight
Organic compostable food	16.76
Organic compostable wood	1.55
Paper commingled	7.30
Cardboard commingled	4.86
Plastic commingled	3.91
Glass commingled	3.45
Metal commingled	1.02
EPS packaging/foam	3.92
Metal other	0.22
Mattresses	0.00
Tyres	0.00
Electrical & Electronic	2.04
Aggregates, masonry & soils	0.99
Other ^	0.76
<b>Sub-total: Recoverable now</b>	<b>46.78</b>
Wood – single-use items	0.43
Liquid paperboard	0.67
Plastic packaging – P6 and P7	0.04
Organic other	5.89
Cardboard other	0.71
Plastic film	5.88
Plastic other	1.72
Glass other	0.05
Textiles other	7.85
Rubber	0.74
Batteries	0.04
Nappies	5.15
Oils	0.00
<b>Sub-total: Recoverable in the future</b>	<b>29.17</b>
Organic compostable paper	5.80
Plastic single-use items	0.24
Other	18.01
<b>Sub-total: Not recoverable</b>	<b>24.05</b>
<b>Total</b>	<b>100.00</b>

^ Includes gas bottles, fire extinguishers, fluorescent lamps/lights, chemicals and paint.

**Figure 130 Mixed SMEs – recoverability detailed composition**



## 5.17.4. Focus material: degradable organic content (DOC)

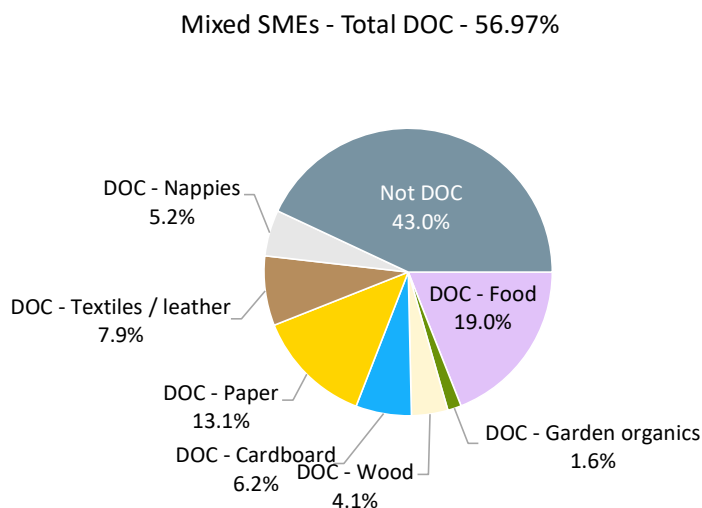
Table 234 provides the DOC in garbage bags from the mixed SMEs sector, as defined in Table 3. Figure 131 shows the data graphically. The garbage bag contents were 57.0% DOC, with the top three materials in this order:

- DOC – food organics 19.0%;
- DOC – paper 13.1%; and
- DOC – textile 7.8%.

**Table 234 Mixed SMEs – focus material – DOC**

DOC type	Overall
DOC – food	19.02
DOC – garden organics	1.55
DOC – wood	4.06
DOC – cardboard	6.24
DOC – paper	13.10
DOC – textiles and leather	7.85
DOC – nappies	5.15
<b>Sub-total – DOC content</b>	<b>56.97</b>
Other waste	43.03
<b>Total</b>	<b>100.00</b>

**Figure 131 Mixed SMEs – focus material – DOC**



## 5.17.5. Focus material: packaging material

Table 235 provides the packaging material content in garbage bags from the mixed SMEs sector, as defined in Table 3. Figure 132 shows the data graphically.

The garbage bag contents were 21.9% packaging material, with the top three materials in this order:

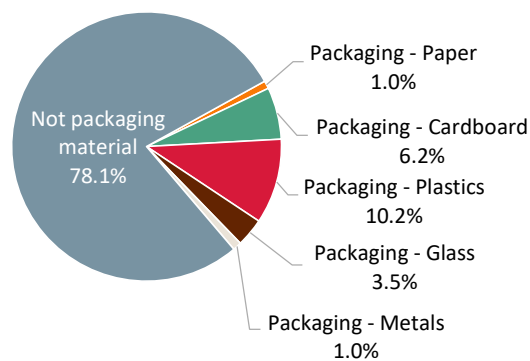
- Packaging – plastics 10.2%.
- Packaging – cardboard 6.2%; and
- Packaging – glass 3.5%.

**Table 235 Mixed SMEs – focus material – packaging material**

Packaging type	Overall
Packaging - Paper	0.95
Packaging - Cardboard	6.24
Packaging - Plastics	10.21
Packaging - Glass	3.45
Packaging - Metals	1.02
<b>Sub-total – packaging material</b>	<b>21.87</b>
Other waste	78.13
<b>Total</b>	<b>100.00</b>

**Figure 132 Mixed SMEs – focus material – packaging material**

Mixed SMEs - Total Packaging - 21.87%



### 5.17.6. Focus material: food organics

Table 236 provides the food organics content in garbage bags from the mixed SMEs sector, as defined in Table 3. Figure 133 shows the data graphically.

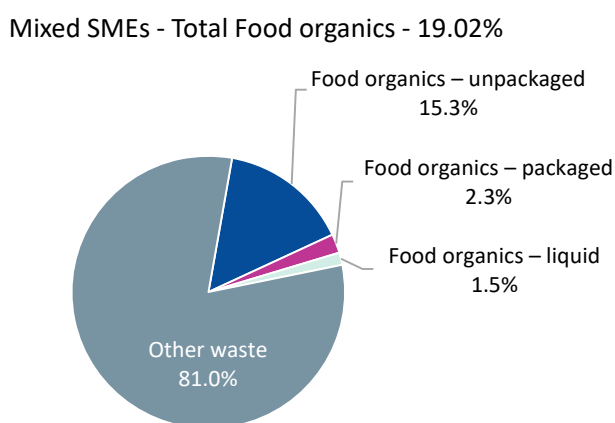
The data shows that approximately 19.0% of garbage bag contents is food organics; with 15.3% unpackaged food and 3.7% packaged food including cooking oil or other liquid.

**Table 236 Mixed SMEs – focus material – food organics**

Food organics type	Overall
Food organics – unpackaged	15.29
Food organics – packaged	2.26
Food organics – liquid ^	1.47
<b>Sub-total – food organics</b>	<b>19.02</b>
Other waste	80.98
<b>Total</b>	<b>100.00</b>

^ Includes cooking oil and other liquid.

**Figure 133 Mixed SMEs – focus material – food organics**



### 5.17.7. Focus material: textiles and leather

Approximately 7.9% of garbage bag contents from the mixed SMEs sector is textiles and leather. Table 237 provides the types of textiles and leather content in garbage bags from the mixed SMEs sector and Figure 134 shows the data graphically.

The data shows that the main types were:

- Textiles mixed textiles, 38.7%;
- Textiles synthetic fibres, 32.7%; and
- Textiles natural fibres, 28.1%.

**Table 237 Mixed SMEs – focus material – textiles and leather**

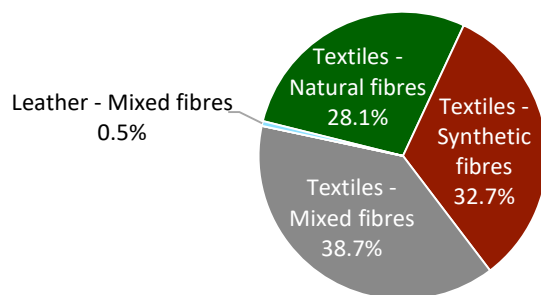
Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Textiles	Nappies - cloth	0.00	0.00
Natural fibres	Textiles	Clothing - wearable	1.58	20.12
Natural fibres	Textiles	Clothing - unwearable	0.00	0.00
Natural fibres	Textiles	Shoes - wearable	0.00	0.00
Natural fibres	Textiles	Shoes - unwearable	0.00	0.00
Natural fibres	Textiles	Bedding (Manchester)	0.63	7.95
Natural fibres	Textiles	Towels	0.00	0.00
Natural fibres	Textiles	Tableware	0.00	0.00
Natural fibres	Textiles	Pillows	0.00	0.00
Natural fibres	Textiles	Dooners	0.00	0.00
Natural fibres	Textiles	Curtains	0.00	0.00
Natural fibres	Textiles	Cloths (dish, dusters etc)	0.00	0.00
Natural fibres	Textiles	Soft toys	0.00	0.00
Natural fibres	Textiles	Cushions	0.00	0.00
Natural fibres	Textiles	Covered furniture	0.00	0.00
Natural fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>2.21</b>	<b>28.07</b>

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Natural fibres	Leather	Clothing – wearable	0.00	0.00
Natural fibres	Leather	Clothing – unwearable	0.00	0.00
Natural fibres	Leather	Shoes - wearable	0.00	0.00
Natural fibres	Leather	Shoes - unwearable	0.00	0.00
Natural fibres	Leather	Tableware	0.00	0.00
Natural fibres	Leather	Cushions	0.00	0.00
Natural fibres	Leather	Covered furniture	0.00	0.00
Natural fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Natural fibres</b>			<b>2.21</b>	<b>28.07</b>
Synthetic fibres	Textiles	Nappies - cloth	0.00	0.00
Synthetic fibres	Textiles	Clothing - wearable	0.55	7.03
Synthetic fibres	Textiles	Clothing - unwearable	1.18	15.05
Synthetic fibres	Textiles	Shoes - wearable	0.09	1.15
Synthetic fibres	Textiles	Shoes - unwearable	0.00	0.00
Synthetic fibres	Textiles	Bedding (Manchester)	0.00	0.00
Synthetic fibres	Textiles	Towels	0.00	0.00
Synthetic fibres	Textiles	Tableware	0.00	0.00
Synthetic fibres	Textiles	Pillows	0.00	0.00
Synthetic fibres	Textiles	Dooners	0.00	0.00
Synthetic fibres	Textiles	Curtains	0.00	0.00
Synthetic fibres	Textiles	Cloths (dish, dusters etc)	0.49	6.27
Synthetic fibres	Textiles	Soft toys	0.00	0.00
Synthetic fibres	Textiles	Cushions	0.00	0.00
Synthetic fibres	Textiles	Covered furniture	0.00	0.00
Synthetic fibres	Textiles	Other	0.25	3.23
<b>Sub-total: Textiles</b>			<b>2.56</b>	<b>32.73</b>
Synthetic fibres	Leather	Clothing – wearable	0.00	0.00
Synthetic fibres	Leather	Clothing – unwearable	0.00	0.00
Synthetic fibres	Leather	Shoes - wearable	0.00	0.00
Synthetic fibres	Leather	Shoes - unwearable	0.00	0.00
Synthetic fibres	Leather	Tableware	0.00	0.00
Synthetic fibres	Leather	Cushions	0.00	0.00
Synthetic fibres	Leather	Covered furniture	0.00	0.00
Synthetic fibres	Leather	Other	0.00	0.00
<b>Sub-total: Leather</b>			<b>0.00</b>	<b>0.00</b>
<b>Sub-total: Synthetic fibres</b>			<b>2.56</b>	<b>32.73</b>
Mixed fibres	Textiles	Nappies - cloth	0.00	0.00
Mixed fibres	Textiles	Clothing - wearable	0.34	4.32

Textiles / leather type			Percentage of all contents	Percentage of textiles / leather
Mixed fibres	Textiles	Clothing - unwearable	0.81	10.31
Mixed fibres	Textiles	Shoes - wearable	0.00	0.00
Mixed fibres	Textiles	Shoes - unwearable	0.00	0.00
Mixed fibres	Textiles	Bedding (Manchester)	1.41	17.90
Mixed fibres	Textiles	Towels	0.28	3.56
Mixed fibres	Textiles	Tableware	0.00	0.00
Mixed fibres	Textiles	Pillows	0.00	0.00
Mixed fibres	Textiles	Dooners	0.00	0.00
Mixed fibres	Textiles	Curtains	0.00	0.00
Mixed fibres	Textiles	Cloths (dish, dusters etc)	0.20	2.58
Mixed fibres	Textiles	Soft toys	0.00	0.00
Mixed fibres	Textiles	Cushions	0.00	0.00
Mixed fibres	Textiles	Covered furniture	0.00	0.00
Mixed fibres	Textiles	Other	0.00	0.00
<b>Sub-total: Textiles</b>			<b>3.04</b>	<b>38.67</b>
Mixed fibres	Leather	Clothing – wearable	0.00	0.00
Mixed fibres	Leather	Clothing – unwearable	0.00	0.00
Mixed fibres	Leather	Shoes - wearable	0.00	0.00
Mixed fibres	Leather	Shoes - unwearable	0.00	0.00
Mixed fibres	Leather	Tableware	0.00	0.00
Mixed fibres	Leather	Cushions	0.00	0.00
Mixed fibres	Leather	Covered furniture	0.00	0.00
Mixed fibres	Leather	Other	0.04	0.53
<b>Sub-total: Leather</b>			<b>0.04</b>	<b>0.53</b>
<b>Sub-total: Mixed fibres</b>			<b>3.08</b>	<b>39.20</b>
<b>Total</b>			<b>7.85</b>	<b>100.00</b>

Figure 134 Mixed SMEs – focus material – textiles and leather

Mixed SMEs - Textiles / leather - 7.9% of all contents



## 5.17.8. Focus material: CDS containers

Approximately 2.4% of garbage bag contents from the mixed SMEs sector is CDS containers. Table 238 provides the CDS containers content in garbage bags from the mixed SMEs sector, as defined in Table 3.

The data shows:

- By weight, glass was the most, followed by PET, aluminium and liquid paperboard.
- By count, PET was the most, followed by aluminium and liquid paperboard.

**Table 238 Mixed SMEs – focus material – CDS containers**

Beverage container material type	Percentage of all contents by weight	Percentage of CDS by weight	Total audited by count	Percentage of CDS by count
PET (P1)	0.64	27.24	56	44.45
HDPE (P2)	0.02	0.73	1	0.79
PVC (P3)	0.00	0.00	0	0.00
Other plastics (P7)	0.00	0.00	0	0.00
Glass	1.23	52.37	11	8.73
Steel	0.07	3.06	11	8.73
Aluminum	0.20	8.56	24	19.05
Liquid Paperboard	0.19	8.04	23	18.25
<b>Total</b>	<b>2.35</b>	<b>100.00</b>	<b>126</b>	<b>100.00</b>

## 5.17.9. Focus material: other beverage containers

Approximately 1.3% of garbage bag contents from the mixed SMEs sector is other beverage containers. Table 239 provides the other beverage containers content in garbage bags from the mixed SMEs sector, as defined in Table 3.

The data shows that approximately 80% was HDPE beverage containers.

**Table 239 Mixed SMEs – focus material – other beverage containers**

Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
PET (P1)	Fruit & vegetable juice >1-3L	0.07	2	7.69
PET (P1)	Cordial	0.00	0	0.00
PET (P1)	Flavoured milk >1-3L	0.00	0	0.00
HDPE (P2)	-	0.58	21	80.77
PVC (P3)	Cordial	0.00	0	0.00
Glass	Wine/champagne	0.68	3	11.54
Glass	Spirits	0.00	0	0.00
Glass	Flavoured alcoholic beverage	0.00	0	0.00
Glass	Fruit & vegetable juice >1-3L	0.00	0	0.00
Glass	Cordial	0.00	0	0.00
Glass	Flavoured milk >1-3L	0.00	0	0.00



Material	Container type	Percentage of all contents by weight	Total audited by count	Percentage of other beverage containers by count
Glass	Unflavoured milk	0.00	0	0.00
Steel	Flavoured alcoholic beverage	0.00	0	0.00
Aluminum	Flavoured alcoholic beverage	0.00	0	0.00
Cardboard	Wine/champagne casks/sachets >1-3L	0.00	0	0.00
<b>Total</b>		<b>1.33</b>	<b>26</b>	<b>100.00</b>

### 5.17.10. Focus material: single-use items

Table 240 provides the percentage of each single-use items type in garbage bags and of the total single-use items by weight. The data shows:

- Paper single-use items occupied 70.7% of total single-use items.
- Followed by compostable coffee cups (9.1% of total single-use items) and wood items (8.2% of total single-use items).

**Table 240 Mixed SMEs – focus material – single-use items**

Material	Item	Percentage by weight of all contents	Percentage by weight of total single-use items
Wood	Single-use items (e.g., bamboo cutlery, stirrers)	0.43	8.19
Cardboard	Coffee cups - compostable	0.48	9.08
Cardboard	Coffee cups - non-compostable	0.16	3.08
Cardboard	Other cups	0.01	0.13
Paper	Single-use items	3.75	70.74
Plastic	PS/EPS straws	0.00	0.00
Plastic	PS/EPS stirrers	0.00	0.00
Plastic	PS/EPS cutlery	0.04	0.77
Plastic	PS/EPS cups	0.05	0.94
Plastic	PS/EPS coffee cup lids	0.15	2.83
Plastic	PS/EPS stemmed cotton buds	0.00	0.00
Plastic	PS plates/bowls	0.00	0.00
Plastic	EPS plates / bowls	0.00	0.00
Plastic	Film – packaging – single use HDPE bags	0.20	3.74
Plastic	Film – packaging – single use 'boutique' (LDPE) bags	0.03	0.50
<b>Total</b>		<b>5.30</b>	<b>100.00</b>

## 6. Discussion

This garbage bag audit provides an insight into materials in commercial and industrial waste garbage bags still disposed to landfills and the scope for recovery. The composition of garbage bags is a direct reflection of business practices and availability of storage and collection and separation systems onsite.

This garbage bag compositional data is critical in the determination of the overall material composition of the C&I waste disposed at landfills, with 51.4% recoverable now and 36.2% recoverable in the future.

These audit results offer valuable insights into the effectiveness of the WLRM initiative and inform the success of the current Government initiatives, such as the *Waste and Sustainable Material Strategy 2041* (WaSM), and the various business recycling programs developed and implemented by the Government as well as future directions for improving resource recovery and the transition to a circular economy in NSW.

The audits undertaken in 2014 and 2023 also help to understand the trends in generation of waste and recycling in garbage bags. There have been some changes in 2023 since 2014, with the main changes including:

### 3. MLA:

#### a. Recoverable now:

- i. A increase of plastic and cardboard comingled, electrical and electronic items and EPS packaging.
- ii. A decrease of paper comingled, organic compostable wood and food.

#### b. Recoverable in the future:

- i. A increase of nappies, textiles other, cardboard other, plastic other and rubber (except tyres).
- ii. A decrease of plastic packaging – P6 and P7, organic other and plastic film.

### 4. RLA:

#### a. Recoverable now:

- i. A increase of paper commingled, electrical and electronic items and organic compostable wood, aggregates, masonry & soils and metal (commingled and other).
- ii. A decrease of organic compostable food, glass, plastic and cardboard commingled and EPS packaging.

#### b. Recoverable in the future:

- i. A increase of nappies, cardboard other, organic other, plastic other and liquid paperboard.
- ii. A decrease of plastic film, plastic packaging – P6 and P7, textiles other, and rubber (except tyres).

Current programs should continue to prioritise the main materials in garbage bags, such as organic compostables, commingled paper and cardboard and recoverable containers.

# 7. Conclusions

The audit results lead to the following conclusions.

## **Resource recovery**

1. Innovative recovery options should be investigated, programs developed and implemented, to reduce recoverable materials still present in the garbage bags. This includes waste avoidance, separation of material at source, storage provisions onsite, cost effective collections, innovative processing technologies and markets for recycled products. The target materials are organic compostable food and paper, plastic film, paper commingled, plastic commingled and nappies. The priority materials for the regulated areas of NSW are:
  - a. MLA
    - i. Textiles other
    - ii. Plastic other
    - iii. Cardboard other
    - iv. Cardboard commingled
    - v. Organics other
  - b. RLA
    - i. Plastic other
    - ii. Textiles other
    - iii. Cardboard commingled
    - iv. Cardboard other
    - v. Metal commingled
  - c. NLA
    - i. Textiles other
    - ii. Plastic other
    - iii. Cardboard commingled
    - iv. Glass commingled
    - v. Organic other
2. Programs should be developed and implemented to improve recycling of garbage bag contents at specific industry sectors. These programs should continue to target organic compostable food and paper, plastic film as the priorities in all sectors. Additionally, the following three materials should be prioritised by sector:
  - a. Manufacturing – food
    - i. Plastic commingled
    - ii. Plastic other
    - iii. Organics other
  - b. Manufacturing – other
    - i. Rubber
    - ii. Plastic Other
    - iii. Textiles other
  - c. Wholesale trade
    - i. Glass commingled
    - ii. Cardboard commingled
    - iii. Paper commingled and textile other
  - d. Food retailing
    - i. Plastic commingled
    - ii. Paper commingled
    - iii. Organics other
  - e. Other store retailing
    - i. Paper commingled
    - ii. Electrical
    - iii. Plastic other

- f. Accommodation
  - i. Textile other
  - ii. Nappies
  - iii. Paper commingled
- g. Cafés and restaurants
  - i. Plastic commingled
  - ii. Textile other
  - iii. Paper commingled
- h. Transport, postal and warehousing
  - i. Nappies
  - ii. Plastic other
  - iii. Textiles other
- i. Professional, scientific, and technical services
  - i. Paper commingled
  - ii. Plastic commingled
  - iii. Cardboard commingled and plastic other
- j. Administrative and support services
  - i. Paper commingled
  - ii. Plastic other
  - iii. Plastic commingled
- k. Public administration and safety services
  - i. Organic other
  - ii. Metal commingled
  - iii. Paper commingled
- l. Arts and recreation services
  - i. Textile other
  - ii. Paper commingled
  - iii. Plastic commingled
- m. Education and training
  - i. Paper commingled
  - ii. Plastic commingled
  - iii. Cardboard commingled
- n. Health care and social assistance
  - i. Nappies
  - ii. Paper commingled
  - iii. Textile other
- o. Shopping centres
  - i. Nappies
  - ii. Paper commingled
  - iii. Plastic commingled
- p. Offices
  - i. Paper commingled
  - ii. Plastic commingled
  - iii. Cardboard commingled
- q. Mixed Small-to-Medium Enterprises (SMEs)
  - i. Textile other
  - ii. Organics other
  - iii. Nappies

### **Link to other programs**

- Utilise the mixed small to medium size business compositional results to inform the BinTrim program. This information will be also useful for small to medium size businesses in the following industry sectors:
  - Retail trade
  - Offices
  - Accommodation, cafes and restaurants
- Utilise the mixed medium to large size business compositional results to inform new programs under the *Waste and Sustainable Materials Strategy*. This information will be also useful for medium to large size businesses in the following industry sectors:
  - Manufacturing
  - Wholesale trade
  - Retail trade
  - Accommodation, cafes and restaurants
  - Transport, postal and warehousing
  - Education and training
  - Health care and social assistance
  - Shopping centres
- Use the results to inform the infrastructure grants programs under the NSW Government's WaSM initiative.
- Use the results to inform programs to support the *NSW Plastics Action Plan*.

### **Project methods**

- Review the garbage bag audit project method and incorporate the additional tasks for future use, particularly the sampling from business sources, sampling by sectors and additional sorting categories used.
- Develop a C&I audit guideline similar to that is available for the residential kerbside bins audit.

### **Seasons**

Conduct smaller audits at different times of the year to obtain seasonal data and re-audit the same address after additional education strategies have been implemented to determine any variations in the results.

# Abbreviations

APC	Anne Prince Consulting
AHW	Absorbent Hygiene Waste
AWD	Australian Waste Database
AWT	Alternative Waste Treatment (or technology)
AS	Australian Standard
CFL	Compact Fluorescent Light (globes)
DOC	Degradable Organic Carbon
EPS	Expanded Polystyrene
ERA	Extended Regulated Area
HDPE	High Density Polyethylene
KG	Kilogram
LDPE or LLDPE	Low Density Polyethylene
LGA	Local Government Authority
MGB	Mobile Garbage Bin
MLA	Metropolitan Levy Area
MRF	Materials Recovery Facility
MSW	Municipal Solid Waste
NLA	Non-Levied Area
OH&S	Occupational Health and Safety
OHSMS	Occupational Health and Safety Management System
PET	Polyethylene Terephthalate
PP	Polypropylene
PPE	Personal Protective Equipment
PS	Polystyrene
PVC	Polyvinyl Chloride
QMS	Quality Management System
RLA	Regional Levy Area
RRA	Regional Regulated Area
SMA	Sydney Metropolitan Area
SWMS	Safe Work method Statement
WaSM	Waste & Sustainable Materials Strategy
WEEE	Waste Electronic and Electrical Equipment
WLRM	Waste Less Recycle More

# Appendix A – CDS eligibility

Figure 135 indicates the criteria required for a container to be eligible for the CDS.

**Figure 135 CDS eligibility**

Container types	Container sizes							
	0-150ml	151-500ml	501ml-1L	1.1-1.5L	1.6-2L	2.1-2.5L	2.6-3L	>3.1L
Alcoholic sodas and spirit mixers	Ineligible	Eligible	Eligible	Eligible	Eligible	Eligible	Eligible	Ineligible
Beer	Ineligible	Eligible	Eligible	Eligible	Eligible	Eligible	Eligible	Ineligible
Cider/fruit based	Ineligible	Eligible	Eligible	Eligible	Eligible	Eligible	Eligible	Ineligible
Flavoured water/soft drink (carbonated)	Ineligible	Eligible	Eligible	Eligible	Eligible	Eligible	Eligible	Ineligible
Flavoured water/soft drink/ sports drink (non-carbonated)	Ineligible	Eligible	Eligible	Eligible	Eligible	Eligible	Eligible	Ineligible
Plain milk	Ineligible	Ineligible	Ineligible	Ineligible	Ineligible	Ineligible	Ineligible	Ineligible
Flavoured milk	Ineligible	Eligible	Eligible	+	Ineligible	Ineligible	Ineligible	Ineligible
Pure fruit/veg juice (> 90%) and coconut water	Ineligible	Eligible	Eligible	+	Ineligible	Ineligible	Ineligible	Ineligible
Other fruit juice/drinks	Ineligible	Eligible	Eligible	Eligible	Eligible	Eligible	Eligible	Ineligible
Drink pouches	Ineligible	***	Eligible	Eligible	Eligible	Eligible	Eligible	Ineligible
Plain water (incl. carbonated)	Ineligible	Eligible	Eligible	**	Eligible	Eligible	Eligible	Ineligible
Wine *	Ineligible	*	Ineligible	**	Ineligible	Ineligible	Ineligible	Ineligible
Wine cooler	Ineligible	Eligible	Eligible	Ineligible	Ineligible	Ineligible	Ineligible	Ineligible
Spirit ^	Ineligible	Unless glass						Ineligible
Other	Ineligible	Ineligible	Ineligible	Ineligible	Ineligible	Ineligible	Ineligible	Ineligible
* Sachets between 150m – 249ml are eligible								
^ Containers between sizes 151ml - 3L are eligible, except if glass.								
** Casks for wine, wine-based beverage or water that are greater than 1L are ineligible.								
*** Wine in sachets/pouches 250ml and greater are ineligible.								
+ Flavoured milk and juice 1L or more are ineligible								

Key
Eligible
Ineligible

# Appendix B – Definition of regions

This Appendix shows the list of councils with the regulated areas of MLA and RLA. Other councils within NSW which are not listed in Table 241 belong to NLA.

**Table 241 List of MLA and RLA Councils**

MLA councils		RLA councils
Bayside	Maitland	Ballina
Blacktown	Mosman	Bellingen
Burwood	Newcastle	Blue Mountains
Camden	Northern Beaches	Byron
Campbelltown	North Sydney	Clarence Valley
Canada Bay	Parramatta	Coffs Harbour
Canterbury-Bankstown	Penrith	Dungog
Central Coast	Port Stephens	Kempsey
Cessnock	Randwick	Kyogle
Cumberland	Ryde	Lismore
Fairfield	Shellharbour	Mid-Coast
Georges River	Shoalhaven	Muswellbrook
Hawkesbury	Strathfield	Nambucca
Hornsby	Sutherland	Port Macquarie-Hastings
Hunter's Hill	Sydney	Richmond Valley
Inner West	The Hills	Singleton
Kiama	Waverley	Tweed
Ku-ring-gai	Willoughby	Upper Hunter
Lake Macquarie	Wingecarribee	Wollondilly
Lane Cove	Wollongong	
Liverpool	Woollahra	



# Appendix C – Management systems

## Quality Control

The following quality control factors were implemented:

- **Material weighing** – Each weight was verified by a second person for accuracy.
- **Scale servicing** – Each scale was serviced prior to the audit and calibrated for accuracy to within 0.5% of an interval for use.
- **Scale calibration** – Scales were externally serviced and calibrated if they did not calibrate based on internal calibrations.
- **Purity audits** – A team leader conducted a purity audit of selected sorted material to ensure quality control standards were met.
- **Data form back-up** – All data forms were created in duplicate in the field using electronic back-up. The original and back-up resided in two separate secure locations until data entry.
- **Monitoring** – A management staff member was assigned the role of monitoring the audit for WHS compliance, sorting accuracy, conducting equipment checks, managing stakeholders and data verification.

## Work Health and Safety

A detailed WHS plan was made for the audit including:

- Safe Work Method Statement (SWMSs).
- Hazard Assessment Checks (HACs).
- Site inductions.
- Training permits to work.
- Personal Protective Equipment (PPE).
- Manual handling aids.

# Appendix D – Audit photos

Figures 136 to 149 provide photos for the streams sorted.

**Figure 136** Photos of recoverable now organic compostable



1-3. Food waste – unpackaged. 4. Garden organics.

Figure 137 Photos of recoverable in the future organic other



1. Kitty litter. 2. Wood hangers. 3. MDF and engineered wood. 4. Treated wood.

Figure 138 Photos of recoverable now cardboard commingled



1-4. Cardboard packaging boxes.

Figure 139 Photos of recoverable in the future cardboard other



1.



2.

1. Drinking waxed paper cups. 2. Liquid paperboard containers

Figure 140 Photos of recoverable now paper commingled



1.



2.



3.



4.

1. Newspaper. 2. Shredded paper. 3. Printing paper. 4. Paper shopping bags.

Figure 141 Photos of recoverable now plastic commingled



1. Soft drink and water bottles. 2. Milk bottles. 3-5. Rigid plastic packaging 6. EPS packaging.

Figure 142 Photos of recoverable in the future plastic other



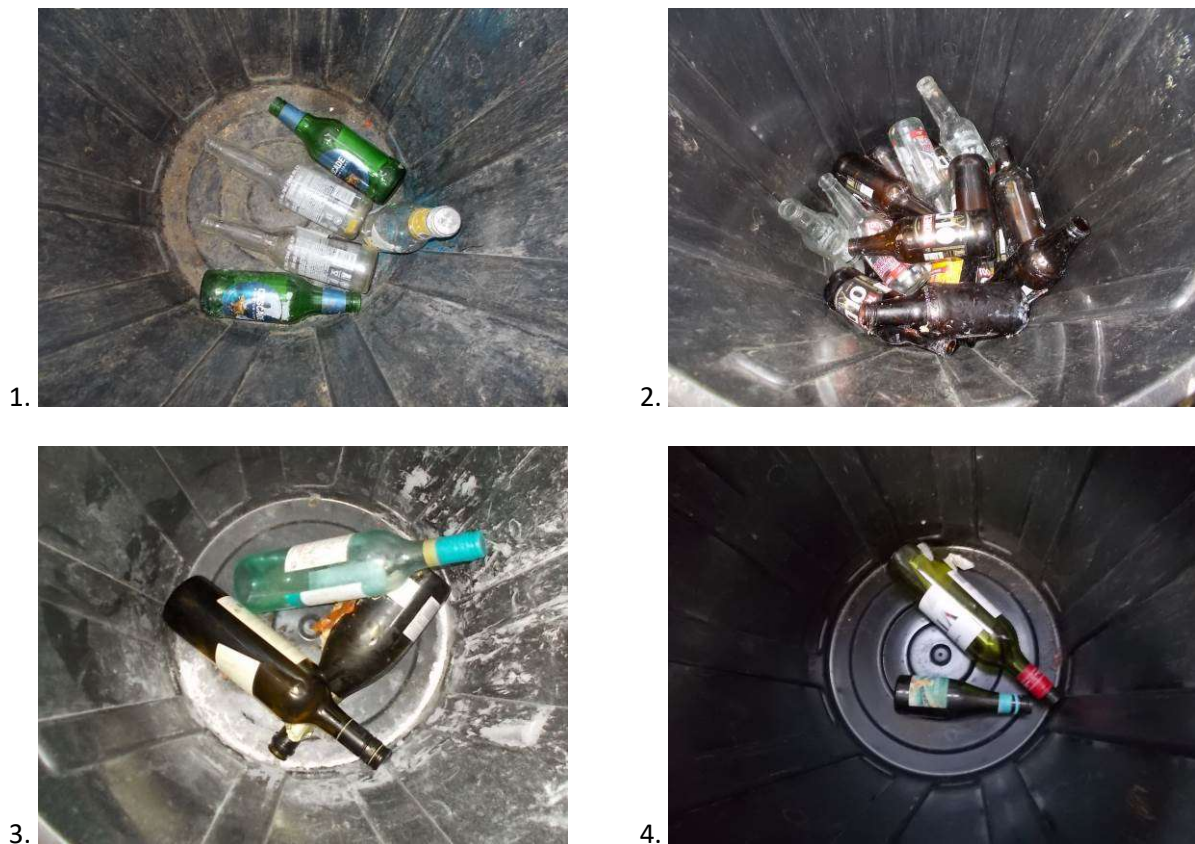
1. Shredded plastics. 2. Plastic boxes.

Figure 143 Photos of recoverable in the future plastic film



1-2. examples of plastic film.

Figure 144 Photos of recoverable now glass commingled



1-2. Recoverable CDS eligible glass bottles. 3-4. Wine and champagne bottles.

**Figure 145** Photos of recoverable in the future glass other



1.



2.

1. Drinking glasses. 2. A plate glass kitchen jar.

**Figure 146** Photos of recoverable now metal commingled and other metal



1.



2.



3.



4.

1. Steel cans and buckets. 2. Aluminium cans. 3. A aluminium pot and lids. 4. Aluminium foil.

Figure 147 Photos of recoverable in the future textiles / leather



1. Cloth, fabric bags and clothes. 2. Wearable clothes. 3. A cushion. 4. Plush toys. 5. Shoes. 6. Masks.



Figure 148 Photos of recoverable in the future rubber



1.



2.

1. Gumboots. 2. Gloves.

Figure 149 Photos of recoverable now electrical items



1.



2.



3.



4.

1. Computer mice. 2. A keyboard and an electronic part. 3. An iron. 4. A toner cartridge.

Figure 150 Photos of other materials



1. Insulation. 2. Building waste. 3-4. Nappies (for children). 5-6. Clinical waste.

## Appendix E – Raw data

This Appendix provides the raw data, in a separate Excel file, providing the raw data for this current audit.

# Appendix F – Definition of per industry sector

This appendix provides the definition and examples of per industry sector code.

**Table 242 Definition of industry sector code**

Industry sector	Examples of business types within the division
<b>Manufacturing</b>	<b>M1 – Food product manufacturing:</b> meat and meat product manufacturing, seafood processing, dairy product manufacturing, fruit and vegetable processing, oil and fat manufacturing, grain mill and cereal product manufacturing, bakery product manufacturing, sugar and confectionery manufacturing, other food product manufacturing
	<b>M2 – Textile, leather, clothing and footwear:</b> leather tanning and product manufacturing, textile, knitted, clothing and footwear manufacturing
	<b>M3 – Wood product manufacturing:</b> log sawmilling, timber dressing, other wood product manufacturing
	<b>M4 – Polymer product and rubber product manufacturing</b>
	<b>M5 – Furniture and other manufacturing:</b> furniture, machinery and equipment, metal and metal products
<b>Wholesale trade</b>	<b>W1 – Grocery, Liquor and Tobacco product wholesaling:</b> food and beverage distributors, beer, wine, and distilled alcoholic beverage wholesalers
	<b>W2 – Other good wholesalers:</b> textile, clothing, footwear, pharmaceutical, toiletry, furniture, floor covering and other goods
<b>Retail trade</b>	<b>R1 – Food retailing:</b> grocery stores and supermarkets
	<b>R2 – Other stores-based retailing:</b> furniture, floor coverings, houseware, textile goods, electrical and electronic, hardware, building and garden supplies, recreational goods, clothing, footwear personal accessory, department stores, pharmaceutical and other store-based retailing.
<b>Accommodation and food services</b>	<b>AF1 – Accommodation:</b> hotels and motels, bed and breakfasts, hostels, guest houses, boutique hotels, serviced apartments, inns, backpackers' lodges, resorts, campgrounds, RV parks, timeshare properties, Airbnb.
	<b>AF2 – Food and beverage:</b> restaurants, cafes, bars, pubs, food trucks, bakeries, wineries, breweries, coffee shops, and catering companies
<b>Transport, postal and warehousing</b>	<b>T – Transport, postal and warehousing:</b> trucking companies, couriers and delivery services, shipping and freight companies, air and sea cargo transport companies, warehousing and storage companies, postal and courier activities, removalists and relocation companies, passenger transport companies, pipeline transport companies
<b>Information media and telecommunications</b>	<b>IT – Information media and telecommunications:</b> telecommunications carriers, internet service providers, television broadcasting companies, radio broadcasting companies, newspaper publishers, book publishers, music publishers, software publishers, web search portals and search engines, data processing and hosting services, computer system design services, IT consulting services, video game development companies, motion picture and video production companies, and sound recording studios
<b>Financial and insurance services</b>	<b>F – Financial and insurance services:</b> banks, credit unions, investment firms, insurance companies, mortgage lenders, brokerage firms, accounting firms, tax preparation services, financial planning services, venture capital firms, private equity firms, hedge funds, real estate investment trusts, pension funds, and commodity exchanges

Industry sector	Examples of business types within the division
<b>Rental, hiring and real estate services</b>	<b><u>RE – Rental, hiring and real estate services</u></b> : real estate agencies, property management companies, car rental companies, equipment rental companies, event rental companies, party supply rental companies, furniture rental companies, audio-visual equipment rental companies, construction equipment rental companies, boat, staffing agencies,
<b>Professional, scientific, and technical services</b>	<b><u>PS – Professional, scientific, and technical services</u></b> : law firms, accounting firms, architectural firms, engineering firms, consulting firms, advertising agencies, market research firms, public relations firms, scientific research and development companies, environmental consulting firms, computer programming and software development companies, data processing and hosting companies, translation and interpretation services
<b>Administrative and support services</b>	<b><u>AD – Administrative and support services</u></b> : office administrative services, call centres and answering services, printing and copying services, packaging and labelling services, security and investigation services, travel agency, tour services building maintenance and repair services, janitorial services, landscaping services, pest control services, temporary staffing / employment /recruitment agencies.
<b>Public administration and safety</b>	<b><u>G – Public administration and safety</u></b> : government agencies, police departments, fire departments, emergency medical services, correctional facilities, courts and tribunals, border control agencies, transportation safety agencies, regulatory agencies, disaster relief agencies, homeland security agencies, national parks and wildlife agencies, public health agencies, consumer protection agencies
<b>Education and training</b>	<b><u>ED – Education and training</u></b> : public and private schools, colleges and universities, vocational training centres, technical schools, language schools, tutoring and test preparation services, online education platforms, corporate training and development services, leadership training companies, management consulting firms, career counselling services
<b>Health care and social assistance</b>	<b><u>H – Health care and social assistance</u></b> : hospitals, medical clinics, dental clinics, nursing homes, assisted living facilities, home health care agencies, mental health clinics, addiction treatment centres, rehabilitation facilities, social work agencies, child care providers, family counselling services, elder care services
<b>Arts and recreation services</b>	<b><u>AR – Arts and recreation services</u></b> : movie theatres, music venues, art galleries, museums, sports teams and leagues, fitness centres and gyms, dance studios, yoga studios, photography studios, event planning and production companies, amusement parks, bowling alleys
<b>Shopping centre</b>	<b><u>SC – Shopping centre</u></b> : large, enclosed complex of shops, restaurants, and other businesses
<b>Offices</b>	<b><u>O – Offices</u></b> : office-based businesses i.e., accounting firms, law firms, marketing agencies, advertising agencies, architectural firms.
<b>Other</b>	<b><u>X – Other: None of the above</u></b> : if source (generally SMEs) cannot be identified through the gatehouse survey or during garbage bag audits.
<b>Unknown</b>	<b><u>U – Unknown</u></b>