

## ID Dunedin Fashion Week 2023 railway station Waste audit:

	Landfill (Red)	Recycling (Yellow)	Cardboard in sacks	Glass (Blue)	Compost in Black Bin
Total weight (with container & bags)	169.8kg (from 6 bins)	148.6kg (from 6 bins)	102.6kg (from 6 sacks)	402.2kg (from 9 bins)**	62kg (from 1 bokashi bin)
Weight of containers	6 wheelie bins = <b>78kg</b>	6 wheelie bins = <b>78kg</b>	6 woolsack = <b>9kg</b>	9 wheelie bins = <b>122.4kg</b>	Bokashi bin 1.5kg
<b>TOTAL items only (before sorting)</b>	<b>96.7kg</b>	<b>70.6kg</b>	<b>93.6kg</b>	<b>474.8kg</b>	<b>No sorting required</b>
<b>TOTAL items only (post sorting)</b>	<b>70.95kg</b>	<b>18.8kg</b>	<b>90kg</b>	<b>502.8kg</b>	<b>62kg</b>
Diversions difference after sorting (kg)	Reduced by 25.75kg	Reduced by 51.8 kg	Reduced by 3.6kg	Increased by 28kg	N/A
CO <sub>2</sub> calculation value* total post sorting value	<b>45.90kg of CO<sub>2</sub> GENERATED</b>	<b>12.16kg of CO<sub>2</sub> DIVERTED</b>	<b>58.23CO<sub>2</sub> of CO<sub>2</sub> DIVERTED</b>	<b>325.31kg of CO<sub>2</sub> DIVERTED</b>	<b>325.31kg of CO<sub>2</sub> DIVERTED</b>
Volunteer Hours Polytechnic pProduct design students and Fi, Ross, Machiko, jonny - paid	8 people onsite xx hours.  10 - 3pm, ½ break - 5 hrs 7 ppl = 35 Fi until 6.30pm 3.5 hrs 1 pp Fi and H sunday mish collection from railway station. 2 hrs 2 ppl		42.5 volunteer hours @\$65ph = \$2762.50 donated time.		

\* Using Waste to landfill value (without gas recovery) = 0.647kg CO<sub>2</sub>emissions per kg unit

\*\* An additional 2.5 glass bins belonging to the Railway station were not able to be taken away for weighing. Glass had commingled colours of glass, none of the bins were sorted due to the glass hazard. We estimated the weight of the 2.5 glass bins to total to 195kg based on the other full bins weighed.

\*\*\* The total before and after sorting value showed a difference (42kg) which indicated human data collation/weight error. 10L of liquid was collected and surmised to be part of this difference.

### Conclusion of data

- There was considerably more glass than anticipated. Glass made up 72% of the total items in the audit.
- Cardboard made up 1% of total and mixed recycling was 3% of the total weight of items
- 5.1kg plastic reusable cups were found in the bins during the audit.

- Overall CO2 generated from the landfill quantity only made up 9% of the overall items generated from the event.
- **The diversion rate from landfill was 90% following the final sorting.**

#### **Observations during audit 2023 audit for review:**

- Required extra wool sacks
- Railway Station bins were utilised instead of the iD provided for audit. These had to be left behind. Thus not able to be weighed or sorted as part of the audit. A total of 2.5 full glass bins and 1 large yellow recycling skip bin
- Yellow bin only provided backstage. Should have had a landfill bin and compost as well, a waste warrior would also be of assistance here to minimise contamination.
- Make-up station had a large amount of single use items

#### **Recommendations from 2023 Audit:**

- Need to have separate bins for different glass colours due to the high amount of glass. It becomes a greater hazard and more time consuming to sort off site.
  - Recommend cleaners/staff are given a briefing about sorting waste into correct bins.
  - Glass bins need to be sorted by colour to minimise hazard and handling at the drop off point.
  - These need to be labelled correctly - identify what glass colours will be used on site, we had clear, green and brown.
  - We require more glass and recycling bins at the next event so that railway station bins are not used, cleaners and staff need to be made aware of the new system, auditing is taking place, we require you to sort properly.
  - This minimises our time handsorting which saves you money.
- *Encourage people to bring their own keep cups, food containers and water bottles.*
- *Water refill stations can also double as recycling rinsing facilities?*
  - *We recommend this all the time but it may not be appropriate for your consumer, having reusable and compostable alternatives is key here.*
  - *Please note: Compostable alternatives also require a diversion waste stream that is currently not available commercially.*
- Find alternate re-use cup that is able to withstand sterilisation temperatures for reuse
  - we recommend a proper wine glass hire, or a stainless steel reusable. This will need to be costed properly for the event and funding access.
- Ban or find environmental alternatives to single use giveaway items - this was minimised by providing bins where people could take the thing if they wanted too, but the brands and packaging also come into play here.
  - This is a supply chain and procurement process.
- We found alot of uneaten food in the ordered packages, this included dairy which we can only bokashi to compost, we recommend providing a separate bin for food waste so that it does not contaminate the recycling bins.
- Waste Warriors required backstage for models and staff.
- Make up station needs separate bins/boxes to sort into, there can be blood and other items in this waste that can be unsanitary.
- We also provided backstage reusable cups for models and staff, this worked well and will be repeated next time.
- We recommend using bin signs on the railway platform for patrons.

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**Photos 1-2: Examples of bin set-up and final amount of bins for audit**



**Photos 1-3: Examples of cardboard and containers collected and yellow skip bin that belonged to the Railway Station - this was unable to be weighed.**



**Photo 4: Examples of contaminated recycling bin**



**Photos 5-6: Examples of comingled glass this has to be hand sorted.**



Photo 7-11: Examples of mixed and contaminated recycling - pre sorting



Photo 12-14: Examples of landfill bins - presort



**Photo 15: Examples of amount of cork - during sorting**



**Photo 16: Dirty soft plastic dumped at landfill & landfill post sort bin**



**it's not though, is it.**



Photo 18-20: examples of reusable cups, left over wine, single use cups and compostable food packaging.