

WOOLWORTHS LIMITED

Hoxton Park Dick Smith Distribution Centre Waste Management Plan

Project	Dick Smith Distribution Centre		
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1 BUSINESS REQUIREMENTS

1.1 Recycling and Salvage Area

- Compactor bin, for cardboard, is to be located on the North side near the recessed despatch docks.
- Bailer for plastic packaging recycling is located adjacent to compactor.
- Include a bunded area for drainage disposal of sweeper/scrubber (battery charge area)
- Pallet storage opposite receiving and despatch docks.

1.2 Provision for Waste Storage Generated Through Order Selection

- Provision to be made at crossover points in the pick module for bins or cages for cardboard and Plastic generated from order selection.
- Bins or cages to be allowed for strategically at the end of racking aisles.
- PLS and full case pick module to have waste takeout provisions.

1.3 Provision for Waste Storage/Removal for General Waste

- General waste bins for DC related waste to be located adjacent to bailer and compactor.
- Sulo style bins, with kitchen and other waste, to be picked up from area adjacent to kitchen.

2 PROCESS FOR MANAGING WASTE

2.1 Compactors and Three Cubic Metre Bins

- Compactor bin, for cardboard, is to be located on the North side near the recessed despatch docks. This will have a dedicated roller door with bin lifters.
- The bin lifters will be located on the compactor outside the roller door to allow the area to be secured and roller doors closed.
- Cardboard recycling bins will be located throughout the pick module and the DC racking to facilitate waste removal
- Any external ramps will have normal roller door access.
- A bunded area for drainage disposal of scrubber/sweepers outputs will be located in the battery charge area. Pits will drain to external holding tank which is to be emptied via external piping by third party provider.
- The storage of pallets will be located opposite the receiving and despatch docks.

2.2 Process for Removing Waste from Pick Areas

There are three specific pick methods, Pick to Belt (PTB), Pick to Pallet (PTP) and Split Cast.

2.2.1 Pick to Belt

- These modules produce a small amount of cardboard waste but around 50% of plastic waste.
- There are 2 x 3 level pick modules in this area, on the bottom level split case picking may occur and full case picking will occur on the second and third levels of all modules.
- Cages will be placed in strategic pallet locations on each level to handle cardboard and plastic waste.
- Wheelie bins will be placed within the modules for general waste.

2.2.2 Pick to Pallet

- This is a ground level pick area; generally plastic waste will be generated in this area, and only minimal cardboard waste.
- Cages will be placed strategically at the end of racking aisles where the waste plastic will be placed.
- The picker will remove the plastic from the pallet and put the waste plastic in the cage provided. Wheelie bins will be placed around these areas for general waste.

2.2.3 Split Case

- The Split case pick module generates 85% of the cardboard waste, 30% of the plastic waste and 25% of the general waste.
- The cardboard waste is collected in 660 litre Sulo type bins and transported to the compactor to be emptied.
- The plastic is collected in cages which are transported to the bailer for compacting. General waste is collected in "wheelie" bins for collection by the waste contractor.
- The 660 litre bins are placed adjacent to the conveyor diverts and at the end of the aisles. The plastic recycling and waste cages are placed at the end of each pick aisle.

2.3 Receiving from Local, Indent, and Cross Dock Suppliers

- Plastic, cardboard, strapping, string, tape waste will be produced in the receiving area.
- 660 litre bins and cages will be placed across the front, indent and Xdock docks for plastic and cardboard waste, as well as wheelie bins for general waste. Checkers and receivers will be responsible for keeping their work areas clean, receiving personnel are responsible for removing waste from these areas.
- Cages are removed using fork trucks and bins by pushing.

2.4 Kitchen Area General Waste

- General waste is generated in the dining and kitchen area, as well as the outside dining area.
- DC personnel will have nominated clean up days where they are responsible for house keeping the dining and outside dining areas.
- Bins provided for general waste will be emptied at morning tea and lunch times by the nominated people.
- Full bins will be deposited in a nominated area and picked up and emptied by the waste contractor.
- Once emptied, they will be put back into there designated area.

2.5 Removal of Cardboard and Plastic Waste

- Nominated operators will use fork trucks to transport bins from the pick areas to the compactors.
- As one bin is removed it will be replaced immediately with an empty bin.

3 INDICATIVE VOLUMES*

TYPE OF WASTE TO BE GENERATED	PROPOSED ON SITE STORAGE AND TREATMENT FACILITIES	DESTINATION
Cardboard (5500 kg/wk)	Compacted on-site. Storage in waste storage and recycling area(s).	National waste management/recycling contractor for recycling.
Plastic (360 kg/wk)	Bale up on-site. Storage in waste storage and recycling area(s).	National waste management/recycling contractor for recycling. Non-recyclable plastics to be disposed as general waste
General (2200 kg/wk)	Stored on site in bins in designated areas	Non-recyclable material to be disposed to landfill
Pallets	Stored on-site in designated areas for reuse.	Supplier for reuse
Waste/Reject Product (0.5 m ³ /wk)	Storage in waste storage and recycling area(s) or in racks.	Returned to Supplier or disposed of in accordance with council regulations
Liquid Waste (from kitchen)	Grease traps to be maintained in accordance with Sydney Water Trade Waste Agreement	Effluent to sewer in accordance with Sydney Water Trade Waste Agreement
Recyclable Glass, Aluminium and Plastic Containers (2.5m ³ /wk)	To be separated at source as far as practicable for recycling by recycling contractor	National waste management/recycling contractor for recycling
Liquid waste (ablutions)	To sewerage system	Sewerage system
Liquid Waste (from Maintenance area wash down bay)	Drain maintained in accordance with Sydney Water Trade Waste Agreement	Effluent to sewer in accordance with Sydney Water Trade Waste Agreement
Green Waste	Mulched vegetation to be reused for landscaping where possible	Dispose to green waste recycling centre

*All waste storage and recycling bins to be clearly labelled. The warehouse manager or representative would be responsible for maintaining the waste storage and recycling areas, for ensuring bins are emptied and collected as required, and for ensuring that no contamination of waste streams is occurring

4 WASTE DISPOSAL HANDLING

The waste handling area will be equipped with:

- 1 x compactor for Cardboard only located on the northern end of the build next to the Despatch Docks
- 1 x bailer for plastic only located adjacent to the compactor inside the building
- 240 litre wheeled bins for general waste
- A nominal number of 660 litre bins with wheels located around the DC floor for the collection of cardboard
- Cages located around the DC floor for the collection of plastic
- The area will have running water for clean up
- The area will be covered by CCTV

Type of waste generated and method of handling of the waste:

ITEM	SECTION	WHO	TYPE OF WASTE	DISPOSAL METHOD
1	Receiving from local vendors	Receivers/checkers	Stretch wrap/Plastic strapping/Tape/String	660 litre wheeled bins for cardboard, Cages for plastic, used for transporting to either the cardboard compactor or plastic bailer
2	De-Stuffing Containers	Unloaders	Cardboard/Plastic/Plastic Strapping	660 litre wheeled bins for cardboard, Cages for plastic, used for transporting to either the cardboard compactor or plastic bailer
3	X-Dock	Unloaders/Packers/palletising	Cardboard/Plastic/Tape/String /	660 litre wheeled bins for cardboard, Cages for plastic, used for transporting to either the cardboard compactor or plastic bailer

ITEM	SECTION	WHO	TYPE OF WASTE	DISPOSAL METHOD
4	Split case picking	Order selectors/forklift operators	Stretch wrap/Plastic strapping/Tape/String	660 litre wheeled bins for cardboard, Cages for plastic, used for transporting to either the cardboard compactor or plastic bailer
5	Pick to belt	Order selectors/forklift operators	Stretch wrap/Plastic strapping/Tape/String	660 litre wheeled bins for cardboard, Cages for plastic, used for transporting to either the cardboard compactor or plastic bailer
6	Pick to pallet	Order selectors/forklift operators	Stretch wrap/Plastic strapping/Tape/String	660 litre wheeled bins for cardboard, Cages for plastic, used for transporting to either the cardboard compactor or plastic bailer
7	Kitchen/lunch rooms	Kitchen staff/DC Employees	Canteen rubbish/food scraps	240 litre wheeled bins for the collection of rubbish and food scraps
8	Offices	Employees	General waste	240 litre bins for the collection of either General waste, plastic or paper/cardboard

