



WASTE MANAGEMENT PLAN

Proposed Residential Development
58 Princes Hwy
Dandenong

ADVERTISED PLAN

FOR

AARON ZHOU

25 October 2022

File 149CE

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Issue	Date	Prepared by	Checked by	Status
A	10 October 2022	JD	MD	Draft
A	25 October 2022	JD	MD	Final
B	5 April 2023	JD	MD	Final

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1. INTRODUCTION

Northern Environmental Design has been engaged by Aaron Zhou to prepare a waste management plan for the proposed residential development at 58 Princes Hwy, Dandenong.

This report was based on plans provided by JAG Building Design:

Drawing No.	Description	Revision	Date
TP01	Site description plan	-	28 Feb 2023
TP02	Ground floor plan	-	28 Feb 2023
TP03	Level 1/3 plan	-	28 Feb 2023
TP04	Level 4 plan	-	28 Feb 2023
TP06	Elevations	-	28 Feb 2023

- Discussions and correspondence with:
 - JAG Building Design

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2. BUILDING CONSTITUENTS

The proposed development comprises the following:

Level	No. of Apts.	No. of 1 Bed. Apts.	No. of 2 Bed. Apts.	No. of 3/4 Bed. Apts.
Ground	-	-	-	-
Level 1-3	12 Apts.	-	12 Apts.	-
Level 4	3 Apts.	2 Apts.	1 Apts.	-
Total	15 Apts.	2 Apts.	13 Apts.	-

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3. WASTE CALCULATION & WASTE MANAGEMENT SYSTEM

3.1 Estimated Garbage & Recycling Generation

Residential Waste	No of Units	Garbage	Commingled Recycling
1 Bed Apartments	2	0.16	0.16
2 Beds Apartments	13	1.3	1.3
Total (m³/wk uncompacted)		1.46	1.46
Total (L/wk uncompacted)		1460	1460

Note: Residential waste generation rates are based Sustainability Victoria Waste Generation Rates and Calculator.

3.2 Bin Schedule & Collection frequency

Waste Source	Waste Stream	Bin Qty	Bin Litres	Collection Frequency	Area m ² per Bin
Apartments	Garbage	3	660	1/Weekly	2.88
	Comm. Recycling	3	660	1/Weekly	2.88
	Hard Waste			As required	1.0
Total Net Bin Storage Area (excludes circulation)					5.76 m²

Note:

- ** = Hard rubbish disposal shall be arranged by the residents via appropriate contractors. Note that there is sufficient storage area within the 7 m² bin area.
- Developer shall provide the bins either purchased from a supplier or leased from the collection contractor
- Subject to stakeholders' preference/capability (and as built constraints), bin sizes and quantities can be changed. Also, recyclables can be either commingled or split into bins for separate recycling streams.

3.3 Collection Services

Collection of waste will be undertaken by a private contractor at the frequency listed above.

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3.4 Location, Equipment & System used for managing waste

The waste management system is summarised as follows:

- Residential unit receptacles for garbage and recycling
- 30L bin box/container for garbage and recyclables to be provided by operator to each apartments' kitchen to facilitate the transfer of garbage and recyclables from apartments to bins
- Bin store (located on ground floor in a dedicated enclosure easily accessible to residents)
- Collection bins (Kept within the bin store)

The waste-streams are listed below:

Garbage: For collection purposes, garbage shall be stored within collection storage bays.

Recycling: All recyclables shall be commingled into one type of collection bin (glass, steel, aluminium, PET, HDPE containers and paper/cardboard)

Garden Waste: All garden waste is to be removed by the gardening contractors at the time of the garden maintenance in accordance with the body corporate.

Compost: At this development, composting is considered impractical as there would be minimal onsite demand for compost.

Other Waste Streams: The disposal of hard/liquid waste and home detox (paint/chemicals), etc shall be organised with the assistance of the operator and the appropriate contractor.

E-Waste: Occupants will be required to dispose of their E-waste at the available drop-off point. Nearest e-waste recycling drop-off point can be found on Planet Ark's Recycling Near You at: <https://recyclingnearyou.com.au/electrical>

Bins will be stored within the bin area (6 m²) located on ground floor which is sufficient to accommodate the garbage and recycling bins specified in this report. However, should the proposed waste system fail to cope, the operator shall make the necessary operational adjustments.

This copy is for the E-waste available for the Planet Ark's Recycling Near You at: <https://recyclingnearyou.com.au/electrical>
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Bin Details

Capacity (litres)	Height (mm)	Depth (mm)	Width (mm)	Empty Weight (Kg)	Average * Gross Weight (Kg)
660	1250	780	1240	43	130

Note:

- * = Average Gross Weight is based on domestic waste studies. More weight expected for wet or compacted waste

Greater Dandenong council Colour Coding

Bin	Garbage	Recycling
Lid colour	Red	Yellow
Body colour	Black	Black

Note: For private bins, AS4123.7 bin colours can be adopted. Private bins shall be labelled to identify the waste generator and site address.

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4. ACCESS TO WASTE FACILITIES

Resident's Access

The starting date will be determined by the body corporate for both services as soon as the titles are issued, the property occupied, and waste contract established.

Residents have access to all waste bins for garbage and recyclables and they shall dispose garbage and recyclables into collection bins within the bin enclosure located on ground level. It will be the resident's responsibility to fill bins.

Contractor's Access and collection arrangement

- A private contractor shall collect waste onsite within carpark.
- Collection staff (driver and assistant) shall have access to the bin store and transfer bins to the truck and back to the store. The operator may assist the driver with bin transfers. (Bins will be returned to the bin store immediately after waste transfer).
- The waste collection shall be carried-out by Waste Wise mini rear loader. The mini rear loader width is approximately 1.7 m. The mini rear truck will park next to the bin store for waste transfer. The mini rear truck will be able exit the site in a forward direction.
- For improved safety and so as not to affect traffic flow, waste collections and bin transfer will be carried-out during off-peak traffic periods. Waste shall be between the following hours:

- Monday to Saturday – 10.00am and 3.00pm, and
- Sundays and Public Holidays – 10.00am and 3.00pm

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5. AMENITY

5.1 Noise Minimisation

- Collection bins shall feature a plastic lid and body with rubber castors for quiet rolling during transfers.
- Local laws shall be observed for all operations in public areas and roads
- Waste collection services will occur between the hours of 10 am and 3 pm to minimise noise disturbances and traffic disturbance and bin collection times will comply with EPA guidelines for collection times and noise.

5.2 Ventilation, vermin-prevention & washing

Waste areas will feature:

- Ventilation in accordance with Australian Standard AS1668
- All bins have secure fitting lids that are vermin proof
- Impervious flooring (smooth, slip-resistant and appropriately drained)
- For hygienic reasons, bins will be washed (when required) to remove waste-smear and odour. It is the operator's responsibilities via the body corporate to clean. Appropriate facilities will be provided to facilitate the washing and cleaning of bin)

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5.3 Design & Aesthetics of waste storage area

- The design and construction of waste facilities and equipment will conform to the Building Code of Australia, Australian Standards and Local Laws.
- Waste will be placed within the bins and stored in designated onsite areas hidden from external views.
- Waste facilities will be constructed of durable material and finishes and maintained to ensure that the aesthetic of the development is not compromised

6. MANAGEMENT OF WASTE STORAGE FACILITIES

6.1 Arrangements for litter reduction

The residents shall be responsible for:

- Preventing overfilled bins, keeping lids closed
- Promoting adequate waste disposal into the bins to avoid waste dumping
- Securing the bin enclosure

6.2 Protection of Equipment from theft & vandalism

The operator will be responsible to protect the equipment from theft and vandalism.

The following initiative will be including:

- Label the bins according to Property address
- Secure the waste storage area (bin enclosure)

6.3 Signage & education on use of services

All bins will be clearly marked as to their proper use. The operator will provide appropriate signage for the bins.

Educational material and “house rules” will be provide to users. These will include:

- Advise them to sort and recycle waste with care to reduce contamination of recyclables
- Inform them about waste management system and the use/location of associated equipment
- Improve facility management results

6.4 Ongoing Management & Maintenance

It is the responsibility of the operator/body corporate to maintain all waste areas and components, to the satisfaction of users, staff and relevant authority. Note that if operational requirements changes, potential review into the waste management plan service will be undertaken.

The operator will ensure that maintenance and upgrades are carried out on the facility and components of the waste system. When required, the operator will engage an appropriate contractor to conduct services, replacements or upgrades.

6.5 Supplementary information

The operator and waste collector shall observe all relevant OH&S legislation, regulations, and guidelines. The relevant entity shall define their tasks and:

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- Comply with Worksafe Victoria's Occupational Health and Safety Guidelines for the Collection, Transport and Unloading of Non-hazardous Waste and Recyclable Materials (June 2003).
- Assess the Manual Handling Risk and prepare a Manual Handling Control Plan for waste and bin transfers (as per regulatory requirements and Victorian COP for Manual Handling).
- Obtain and provide to their staff/contractors equipment manuals, training, health and safety procedures, risk assessments, and adequate personal protective equipment (PPE) to control/minimise risks/hazards associated with all waste management activities.

7. CONTACT INFORMATION

The following includes a complimentary listing of collection contractors and equipment suppliers. The stakeholders will not be obligated to procure goods/services from these companies. Northern Environmental Design does not warrant or make representations for the goods/services provided by these suppliers

WasteWise Environmental (Private waste collector)
Ph 93591555

SITA Environmental Solutions (Private waste collector)
64-84 Water Close, Hampton Park VIC 3976
Ph 8795 2000

JJ Richards & Sons Pty Ltd (Private waste collector)
50 Elliot Road, Dandenong VIC 3175
Ph 9794 5722

VISY Waste Management Integrated Solutions (Private waste collector)
Lot 2, 46-48 Dohertys Road, Laverton VIC 3025
Ph 9369 7477

8. LIMITATIONS

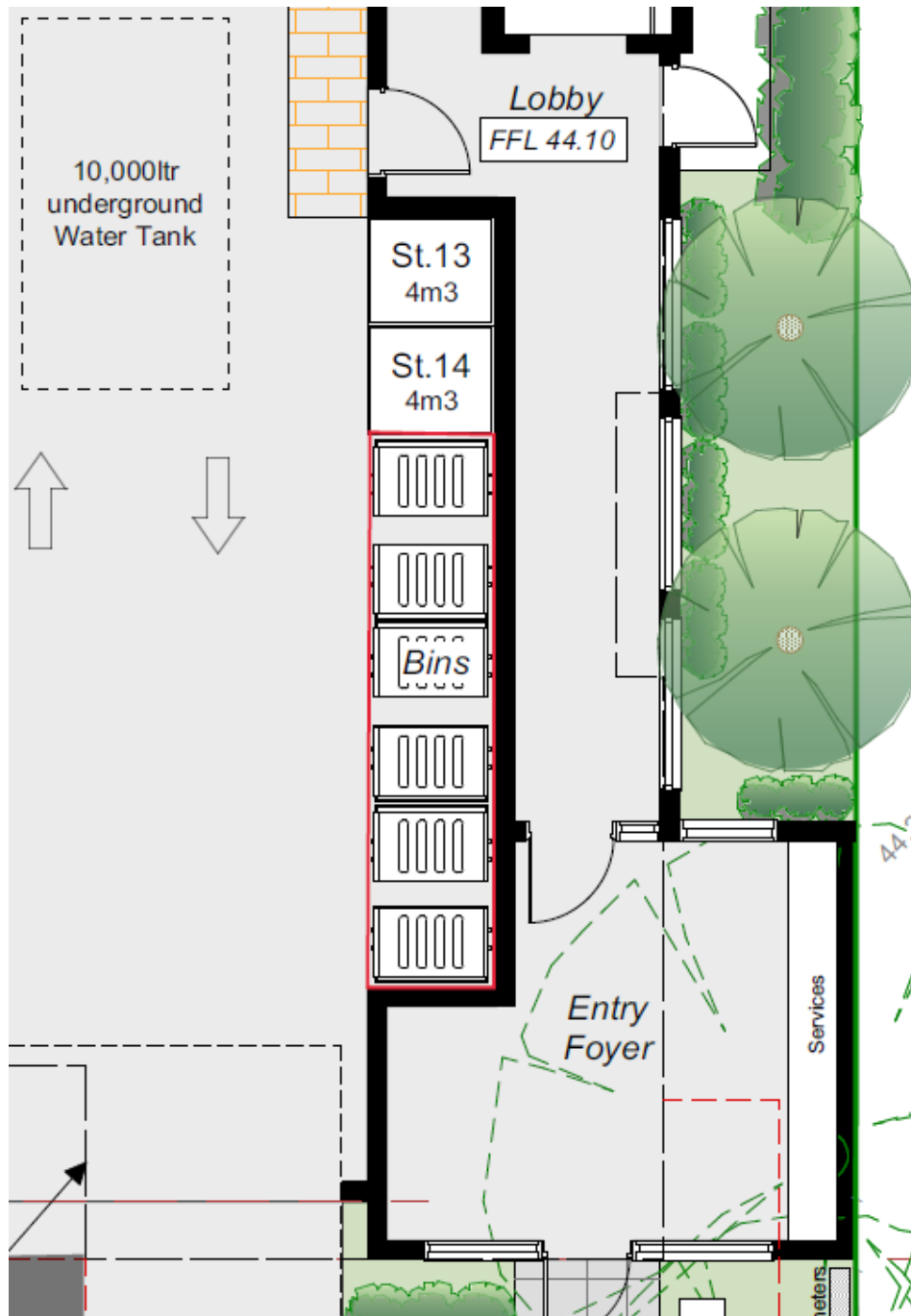
This waste management plan is based on the following conditions

On-going use of the premises. Does not include demolition or construction stages.
Figures and calculations are based on drawings and information supplied by JAG Building Design.
Waste volume figures are estimates only and will be influenced by the tenant resident and operator's disposition toward waste disposal and recycling and by the development's occupancy rate. The operator shall make adjustments, as required, based on actual waste volumes (if actual waste volume is greater than estimated, then the number of bins and/or the number of collections per week will be increased).

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APPENDIX 1: LOCATION OF BIN STORAGE



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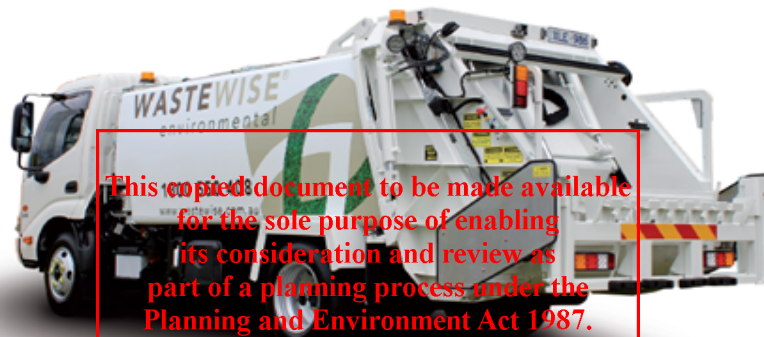
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APPENDIX 2: EXAMPLES OF MINI REAR LOADER

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Introducing the WASTE WISE MINI



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REAR LOADER

Waste Wise Environmental introduced the first MINI rear loader vehicle into Australia in September 2011.

The success of the MINI rear loader has been well documented over the first 12 months of service. The ability to manoeuvre in confined areas within basement car parks, where bin rooms are located, and laneways where other vehicles find difficulty in reversing is unique, but achievable for this compact unit.

With an overall height of just 2.08 metres and length of 6.40 metres, this vehicle can enter most car parks, going down three (3) basement levels or climbing up eight (8) car park levels to empty MGB 240 litre & MGB 660 litre bins within its own height capacity.

MGB 1100 litre bins will be lifted higher than the vehicle and generally find a spot within the complex to do so.

The MINI rear loader is valuable to all: architects, developers, owners corporations (space saving and cost saving) and councils (no bins at kerbside affecting the streetscape).

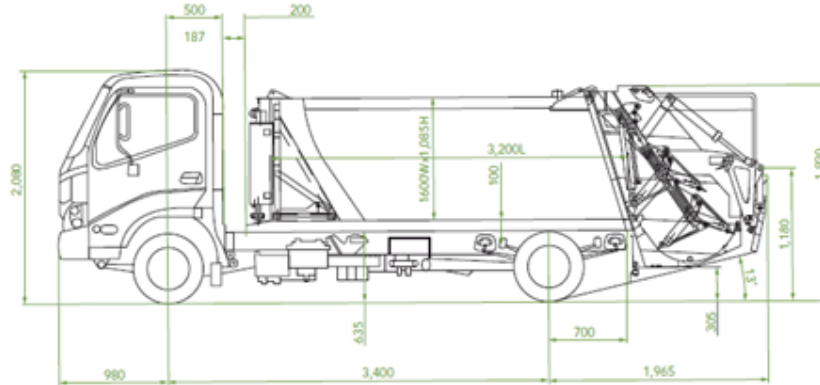


The Waste Wise Environmental fleet of MINI'S has successfully demonstrated its ability as the most valuable & versatile MINI rear loader on the road today. Not only in confined areas, but also under standard rear loader conditions at street level.



1300 550 408

Vehicle Dimensions



Truck Bin Lift Capabilities

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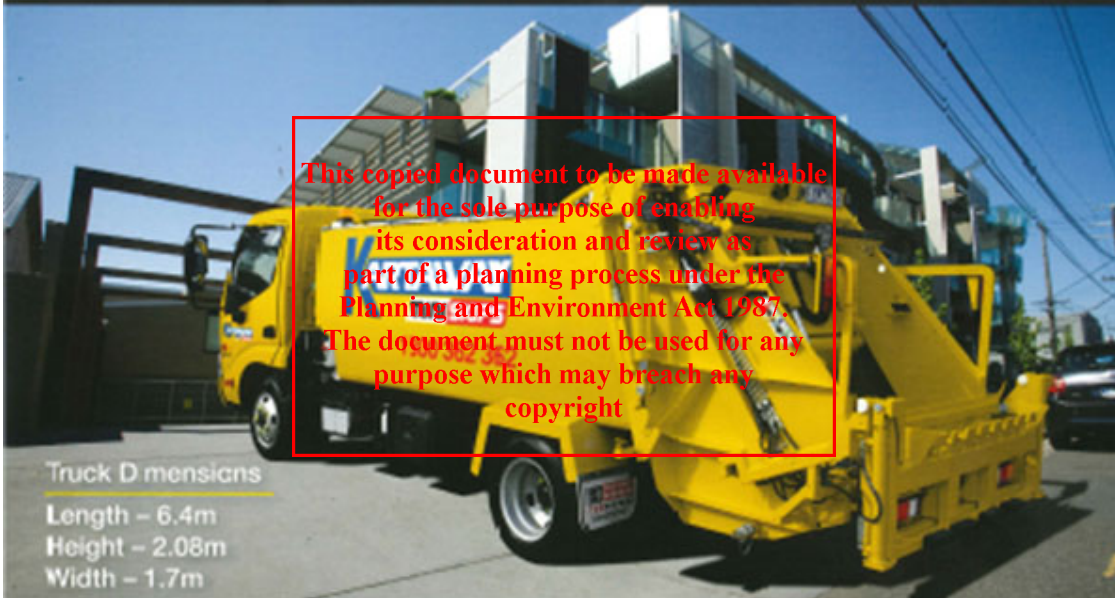
Flexible Waste Solutions

Introducing the new **Junior Rear Lift Loader**

Kartaway adds the new Junior rear lift loader to its fleet and provides a competitive option for dwellings with restricted access. Able to operate in most underground car parks and storage areas.

Benefits include:

- Clearance height below 2.1m
- Reduced turning circle
- No need for bins to be left on the curb
- Can access and service most underground car parks
- Reduces excessive noise
- Out of sight out of mind



Truck Dimensions

Length – 6.4m
Height – 2.08m
Width – 1.7m

Servicing all areas.
For the best service call:

1300 362 362



www.kartaway.com.au

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