

PLEASE NOTE: The plan/s that are being provided to you may not reflect what is ultimately approved by Council however they are the most recent version as at the date shown below:

Date Plans Provided: 27/07/2021

5 June 2021

Attention: To whom it may concern 19 Werribee Street South, Werribee, VIC 3030

WASTE MANAGEMENT PLAN – 19 Werribee Street South, Werribee, VIC 3030

Below is a waste management plan for the proposed childcare centre development at 19 Werribee Street South, Werribee, VIC 3030.

This waste management plan will address the following:

- The anticipated garbage and recycling generation levels for the development;
- Details of the required bin types and sizes for the development;
- Details of the proposed bin storage location;
- Details on proposed bin collection method (including details on manoeuvrability conditions of the waste collection vehicle); and
- Best practice notes to manage waste within the site.

BACKGROUND

The subject site is located at 19 Werribee Street South, Werribee, VIC 3030 and includes a total land of 1,384 square metres. The proposal seeks to construct a childcare centre within the site to accommodate a total of 73 children (with 13 staff). The proposed childcare centre will operate between 6.30am to 6.30pm, Monday to Friday.

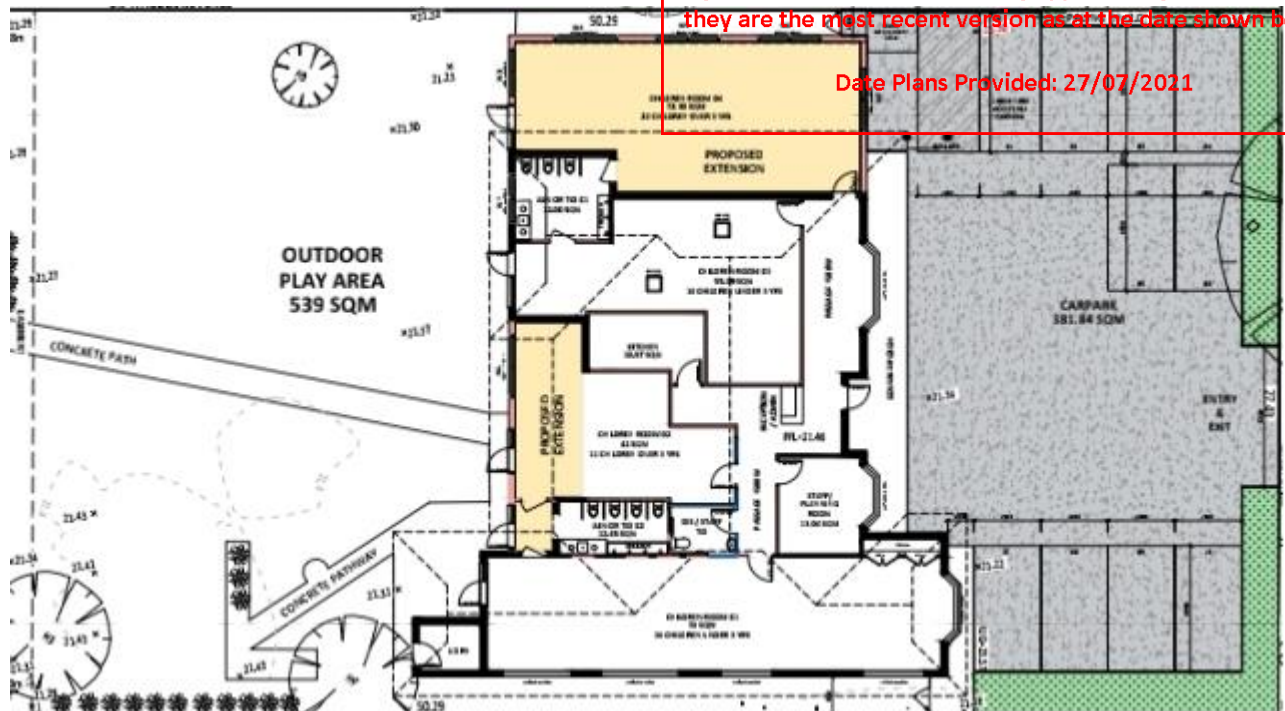
On-site car parking is provided to accommodate a total of 10 vehicles (including one disability accessible car spaces). A waste bin enclosure has also been provided between Room 4 and the shared space.

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Plan: 1 of 5

Figure 1 illustrates the proposed site plan.



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Figure 1: Proposed site plan

ANTICIPATED WASTE GENERATION LEVELS

The Better Practice Guide for Waste Management and Recycling in MUDS, provides the weekly waste generation rates for various types of developments. The following table illustrates the waste generation rates for Childcare:

| Type of Premises | Garbage Generation | Recycling Generation |
|------------------|----------------------------|----------------------------|
| Childcare | 350L/100m2 floor area/week | 350L/100m2 floor area/week |

Figure 2: Commercial Waste Generation Rates

The proposed development has floor area of 400.32m2. Applying the above identified garbage and recycling generation rates to the proposed development, the following are obtained:

- Garbage: 1,401.12L per week (350 divide by 100 multiplied by 400.32m2)
- Recycling: 1,401.12L per week (350 divide by 100 multiplied by 400.32m2)

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Plan: 2 of 5

BIN STORAGE

The proposed development includes an enclosed waste bin storage area between Room 4 and the shared space. The *Guidelines for Preparing a Waste Management Plan – 2017* document provides the following standard bin dimensions.

| Type (L) | Width (m) | Depth (m) | Height (m) |
|----------|-----------|-----------|------------|
| 120 | 0.5 | 0.6 | 1.0 |
| 240 | 0.6 | 0.8 | 1.1 |
| 660 | 1.4 | 0.7 | 1.2 |
| 1100 | 1.4 | 1.3 | 1.5 |

Figure 3: Standard Bin Dimensions

Based on the above bin dimensions, the following bin configuration is proposed for the subject development (assuming twice a week collections):

- Garbage: use 2 x 660 L bins to accommodate the anticipated generation of 1,401.12L of garbage per week (collection twice a week).
- Recycling: use 2 x 660 L bins to accommodate the anticipated generation of 1,401.12L of recycling per week (collection twice a week).

The following figure outlines the scaled bin area diagram for the subject site.

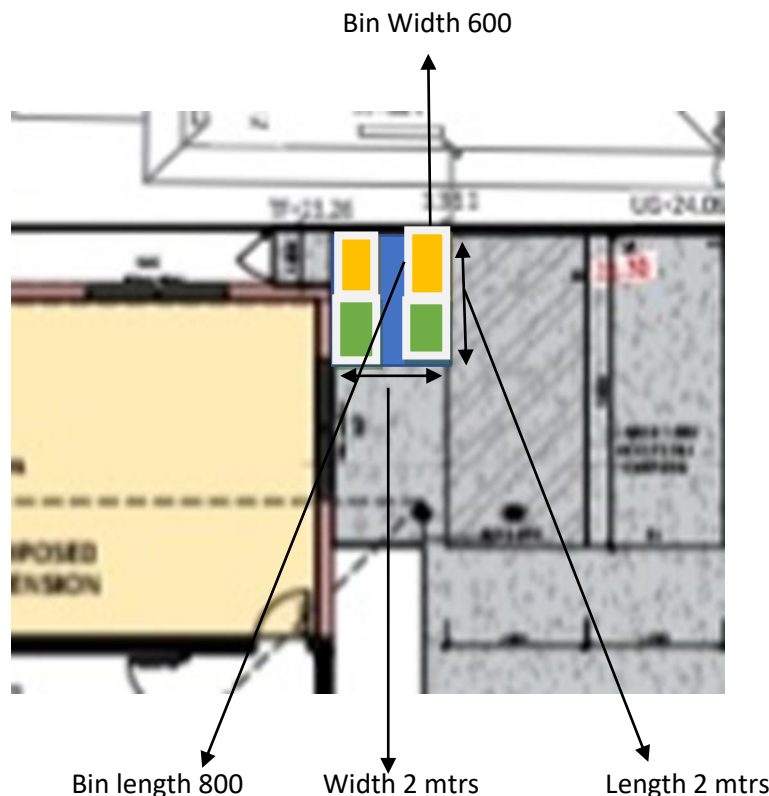


Figure 4: Scaled Bin Area Diagram

(there will be 1.8 m high screening to waste bin enclosure with 1.4 opening into the shared space)

As can be seen from the above scaled bin area diagram, the communal bin storage room can sufficiently accommodate 4x 660L bins (2 x 660L bins for garbage and 2 x 660L bins for recycling) and in fact has room for more.

COLLECTION

It is noted that, once operational, the development will utilise private waste collection services through a waste contractor. Therefore, the applicant shall engage a private waste collection contractor for twice a week collection of all waste (garbage and recycling).

The collection will typically be undertaken outside the operational hours of the childcare centre (i.e. outside the 6.30am to 6.30pm period). The proposed waste collection vehicle for this site is a low-profile rear loading small rigid collection vehicle (6.4 metres long, with 2.1 metre head clearance requirement – i.e. WasteWise Mini).

The following figure illustrates the template of the small rigid vehicle which will be used for waste collection (it is noted that this small rigid vehicle template is developed according to the dimensions specified in AS 2890.2-2004).

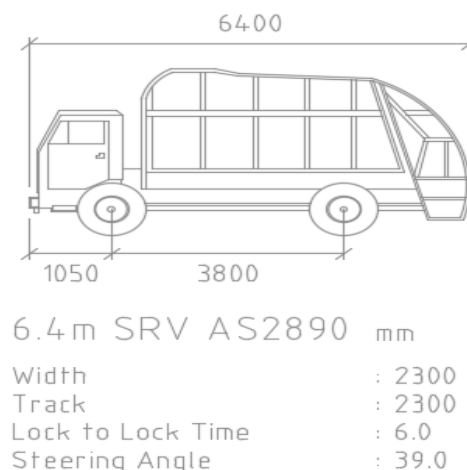


Figure 5: Small Rigid Vehicle Template used for the Swept Path Test

Given that the site has separate entry and exit points, a small rigid waste collection vehicle can conveniently manoeuvre in and out of the car park at the subject site. After close of business, on the eve of the day prior to collections, bins will be moved from the bin area and kept in parking spaces 8 and 9 for collection the following day morning. Therefore, the waste collection vehicle will enter from the entry point into the site in order to undertake waste collection and exit the site from the exit entry in forward motion.

BIN STORAGE AREA SCREENING

The developer should ensure sufficient screening is provided enclosing the proposed bin storage area. In this regard, a COLORBOND® Slat Rubbish Bin Screen Enclosure, as illustrated in the figure below, could be utilised.



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Figure 6: Typical Colourbond Waste Room Screen

(Source: <http://www.superiorscreens.com.au/gallery-rubbish-bin-and-aircon-screening1.html>)

RESPONSIBILITY AND MANAGEMENT

The owner/occupier of the building shall be responsible for storage of garbage and recycling within the building in smaller bins (within each classroom) – which will then be emptied into the bins provided within the communal bin storage area. In addition, the owner/occupier of the building shall actively monitor the adequacy of the waste collection frequency and increase the collections as needed (since the bin storage area capacity is fixed).

CONSIDERATION

Should Council require any further information in relation to this waste management plan, please do not hesitate to contact the undersigned.

Regards,
Dinesh Joshi
Dinesh Joshi
Director

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Plan: 5 of 5