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WASTE MANAGEMENT PLAN

30 MASCAR ST &
101-111 MT GRAVATT CAPALABA RD
UPPER MOUNT GRAVATT QLD 4122

CLIENT

SCAS Leaf 4 Pty Ltd

July 2026

DOCUMENT INFORMATION

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MRA Environmental	V.1	V.1		

LIMITATIONS

MRA Environmental as part of MLEI QLD (MRA/MLEI)) has prepared this Waste Management Plan for the sole use of SCAS Leaf 4 Pty Ltd to support a Development Application for the proposed residential development located at 30 Mascar St & 101-111 Mt Gravatt Capalaba Rd, Upper Mount Gravatt Qld 4122.

This report relates to the storage and collection activities for the operational phase of the planned development in accordance with waste management requirements of the *Brisbane City Council City Plan 2014: v46 – SC6.26 Refuse Planning Scheme Policy*.

This report is for the sole use of SCAS Leaf 4 Pty Ltd and forms part of the Development Application to be submitted to the Brisbane City Council (Council). It may not contain sufficient information for the purposes of other parties, for other uses or at other locations.

We have performed our services for this project in accordance with our current professional standards. No other warranty, expressed or implied is made as to the professional advice included in this submission.

Opinions and judgements expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. The report also contains comments and information provided by others. MRA Environmental cannot take responsibility for advice provided by any third party.

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1.0 GLOSSARY OF TERMS

The *Brisbane City Council City Plan 2014: v36 – SC6.26 Refuse Planning Scheme Policy* utilises the following terminology unless the context of the subject matter otherwise indicates:

Bulk bin: a receptacle that is greater than 360L in capacity generally ranging from 0.66m^3 to 4.50m^3 that provides for the temporary storage of refuse and which is used for on-site collection.

Collection point: the identified position where refuse bins are presented for collection and emptying; where for bulk bins, the collection point could be the storage area.

Mobile garbage bin: a bin used for the temporary storage of refuse that is from 140L up to 360L in capacity and may be used in kerbside refuse collection or on-site collection.

Refuse: includes general waste (including bulky items), recyclables and green refuse.

Refuse and recycling chutes: a tubular chute penetrating each floor of a building to dispose of refuse or recycling material into a bulk bin or compaction unit at a level to be determined at design stage.

Refuse bin: a receptacle (mobile garbage (wheelie) bin or bulk bin) used for the temporary storage of refuse.

Refuse collection vehicle: a vehicle that is specifically designed for collecting and emptying refuse bins and refuse compactors.
Note—Standard refuse collection vehicle specifications are in Table 3.

Refuse compactor: a receptacle that provides for the mechanical compaction and temporary storage of refuse, to reduce bin numbers and collection frequency.

Refuse storage room: the room at the base of the refuse chute used for the storage of refuse bins.

Storage area: an area designated for storing refuse bins or a refuse compactor within the property.

2.0 INTRODUCTION

2.1 BACKGROUND

MRA Environmental as part of MLEI QLD (MRA/MLEI), has been commissioned by SCAS Leaf 4 Pty Ltd to prepare a Waste Management Plan (WMP) for the proposed residential development located at 30 Mascar St & 101-111 Mt Gravatt Capalaba Rd, Upper Mount Gravatt.

Therefore, this Waste Management Plan has been prepared to be submitted to Brisbane City Council as part of the Development Application and ensures that the waste storage and collection activities for the operation phase of the development are generally in accordance with the *Brisbane City Council City Plan 2014: v36 – SC6.26 Refuse Planning Scheme Policy*.

2.2 SITE DETAILS

The subject site is located at 30 Mascar St and 101-111 Mt Gravatt Capalaba Rd, Upper Mount Gravatt on six (6) parcels of land formally described as Lot 9 on RP70000, Lot 10 on RP70000, Lot 11 on RP70000, Lot 12 on RP70000, Lot 17 on RP70001 and Lot 18 on RP70001. Please refer to **Figure 1** for the site location.

The proposed residential development consists of 175 units across three (3) towers above a shared basement. The development will be staged to allow the construction of Tower 1 fronting onto Mascar St & Tower 2 fronting onto Mt Gravatt Capalaba Rd first as Stage 1, while the remaining Tower 3 fronting onto Mt Gravatt Capalaba Road will be constructed last as Stage 2. Please refer to **Figure 2** for the Staging Plan.

2.3 PURPOSE & SCOPE OF REPORT

This report represents a Waste Management Plan for the operational phase of the development, which includes:

- Details on the anticipated type and quantity of refuse (**Section 3.0**).
- Details of the refuse storage room requirements and refuse bins (**Section 4.0**); and
- Details of the proposed refuse collection arrangements (**Section 5.0**).

2.4 WMP OBJECTIVES & STRUCTURE

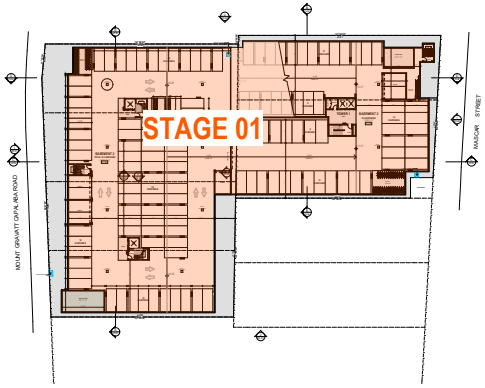
The main objectives of this report are to provide details for optimal waste management in the operational phase of the development.

The structure of this report will be as follows:

- An introduction including the site details, purpose and scope of the report along with the objectives and structure;
- Development Figures including the site location and outlining the refuse storage and collection infrastructure and locations;

- Refuse quantities including the type of refuse, quantities of refuse and the proposed development tenancies; and
- Details of the refuse collection including collection frequencies, the refuse bin collection point, Refuse Collection Vehicle (RCV) and RCV access.

Figure 1: Site location



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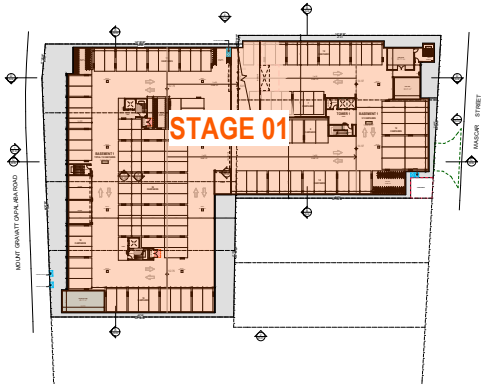
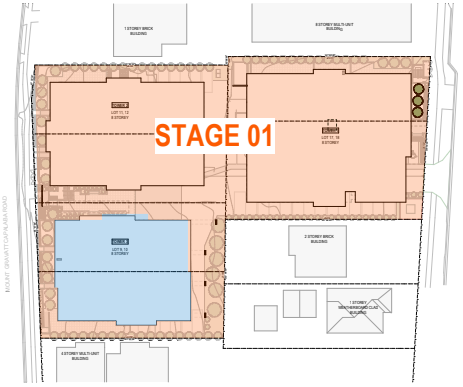
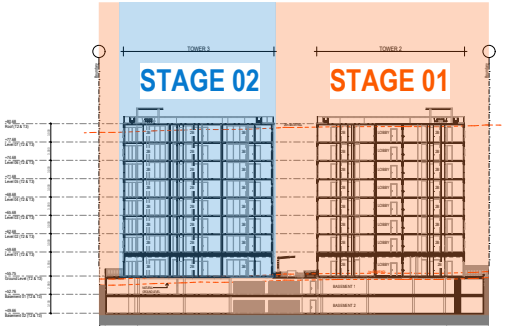


2 Basement Plan 01 1:1000





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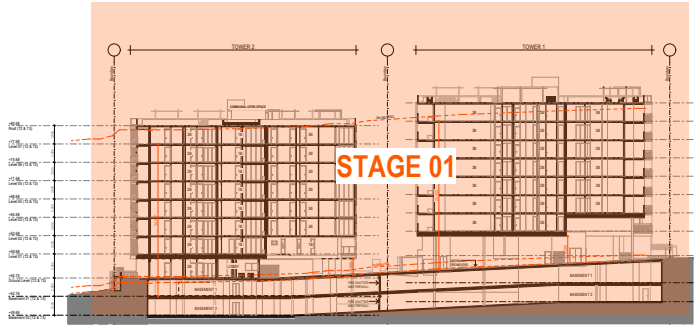

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STAGING PLAN
DEVELOPMENT APPLICATION
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DA-03.05
scale 1:400 @ A3 0246
DA - 17/07/2026

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DESIGNED RP	SCALE NTS	CLIENT	JOB NUMBER MRA25-192
DRAWN RP	LEVEL DATUM -	PROJECT WASTE MANAGEMENT PLAN 30 MASCAR ST & 101-111 MT GRAVATT CAPALABA RD UPPER MOUNT GRAVATT	DRAWING Figure 2
CHECKED AR	SHEET SIZE A4		
APPROVED AR	CAD FILE	TITLE STAGING PLAN	REV A
DATE JULY 2026	ISSUE FINAL		

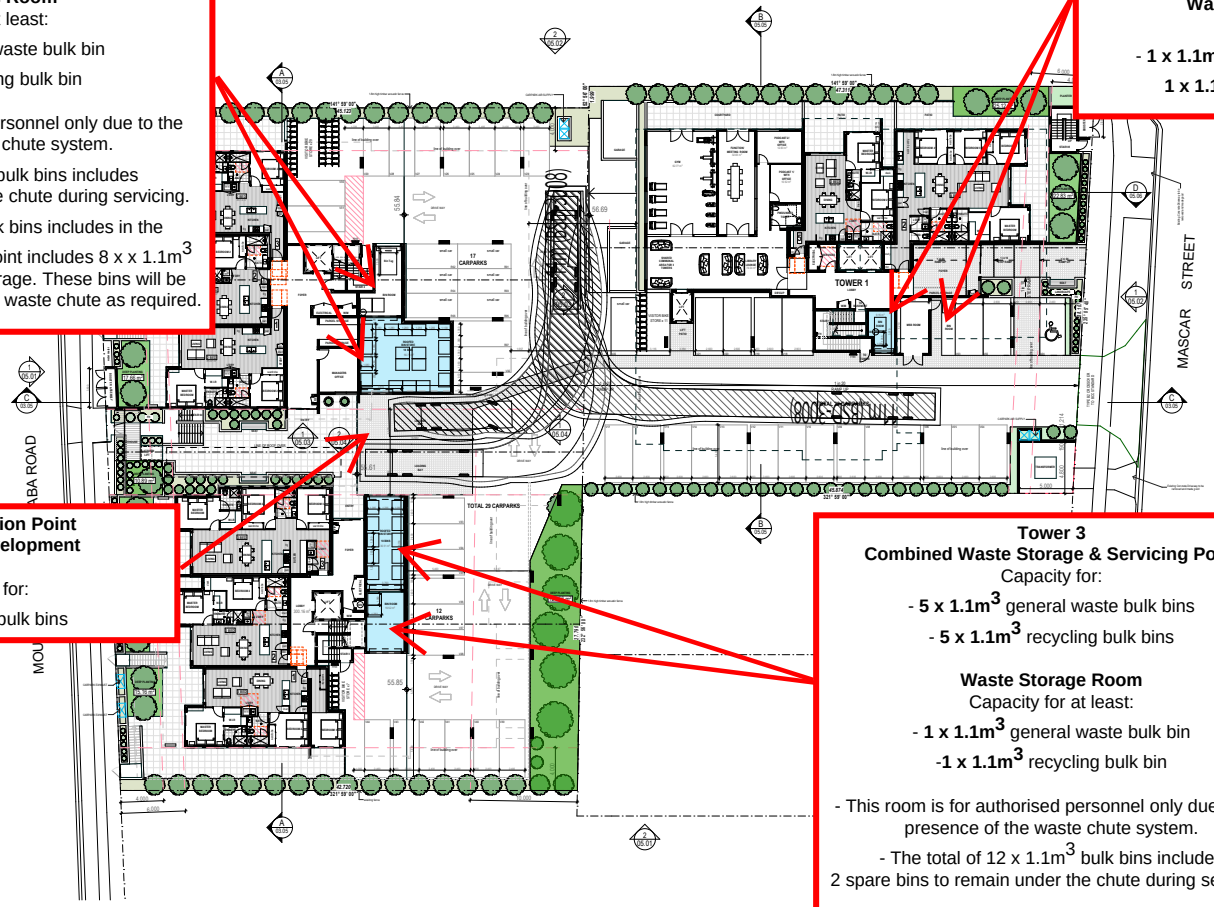
Tower 2
Combined Waste Storage & Servicing Point
Capacity for:
- **9 x 1.1m^3** general waste bulk bins
- **9 x 1.1m^3** recycling bulk bins

Waste Storage Room
Capacity for at least:
- **1 x 1.1m^3** general waste bulk bin
-**1 x 1.1m^3** recycling bulk bin

- This room is for authorised personnel only due to the presence of the waste chute system.
- The total of 20 x 1.1m^3 bulk bins includes 2 spare bins to remain under the chute during servicing.
- The total of 18 x 1.1m^3 bulk bins includes in the combined storage & servicing point includes 8 x x 1.1m^3 bulk bins for Tower 1 waste storage. These bins will be rotated for use under the Tower 1 waste chute as required.

Tower 1
Waste Storage Room
Capacity for:
- **1 x 1.1m^3** general waste bulk bin
- **1 x 1.1m^3** recycling bulk bin

Waste Storage Point
Capacity for:
- **1 x 1.1m^3** general waste bulk bin
1 x 1.1m^3 recycling bulk bin



Waste Collection Point
for overall development

Capacity for:
- **28 x 1.1m^3** bulk bins

Tower 3
Combined Waste Storage & Servicing Point
Capacity for:
- **5 x 1.1m^3** general waste bulk bins
- **5 x 1.1m^3** recycling bulk bins

Waste Storage Room
Capacity for at least:
- **1 x 1.1m^3** general waste bulk bin
-**1 x 1.1m^3** recycling bulk bin

- This room is for authorised personnel only due to the presence of the waste chute system.
- The total of 12 x 1.1m^3 bulk bins includes 2 spare bins to remain under the chute during servicing

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GROUND FLOOR (LEVEL 1)
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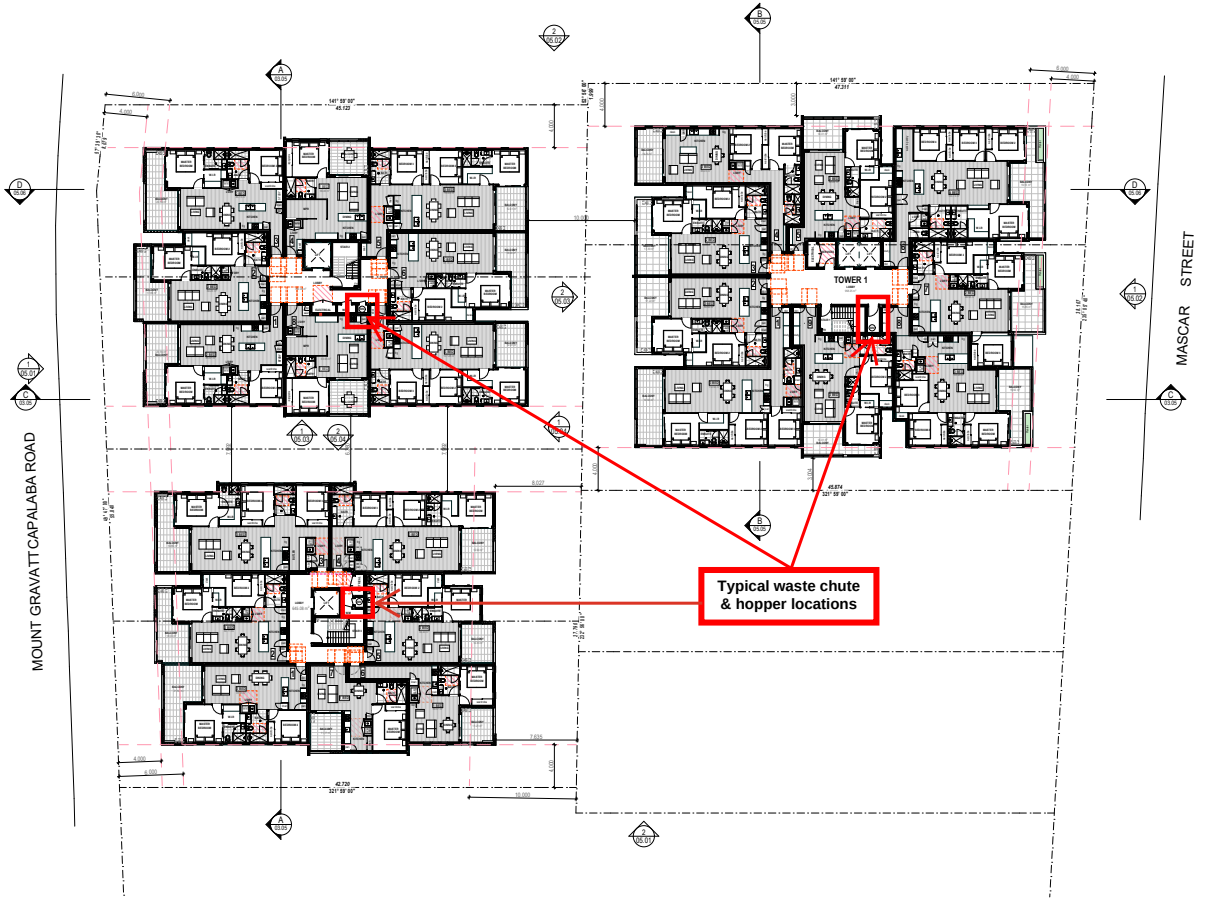
DESIGNED RP	SCALE NTS	CLIENT	SCAS LEAF 4 PTY LTD
DRAWN RP	LEVEL DATUM -	PROJECT	WASTE MANAGEMENT PLAN 30 MASCAR ST & 101-111 MT GRAVATT CAPALABA RD UPPER MOUNT GRAVATT
CHECKED AR	SHEET SIZE A4		
APPROVED AR	CAD FILE	TITLE	WASTE STORAGE & SERVICING POINTS
DATE JULY 2026	ISSUE FINAL		

JOB NUMBER MRA25-192
DRAWING Figure 3
REV A



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TYPICAL LEVELS 3-8
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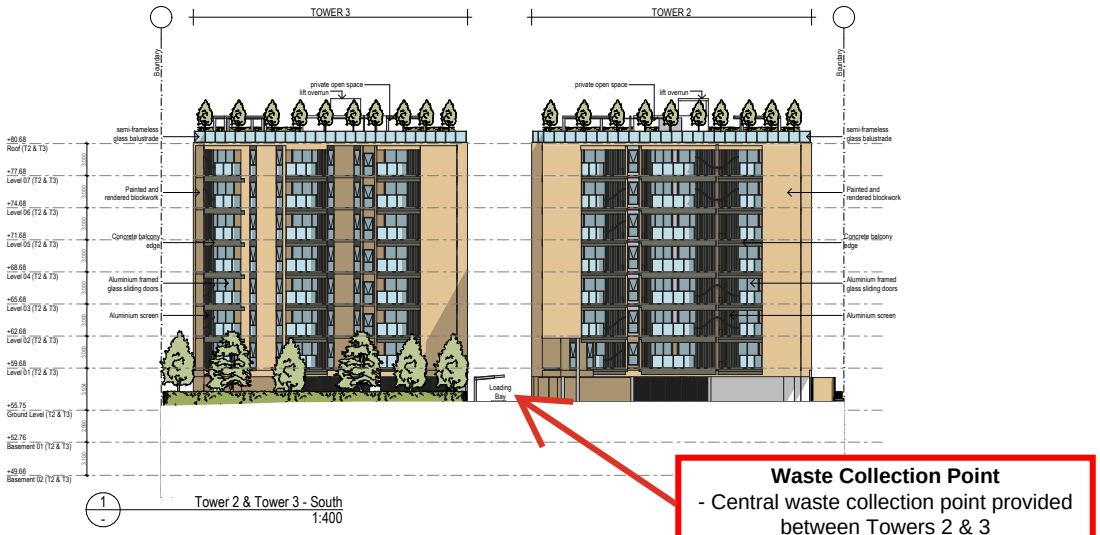
DESIGNED	RP	SCALE	NTS
DRAWN	RP	LEVEL DATUM	-
CHECKED	AR	SHEET SIZE	A4
APPROVED	AR	CAD FILE	
DATE	JULY 2026	ISSUE	FINAL

CLIENT: SCAS LEAF 4 PTY LTD
PROJECT: WASTE MANAGEMENT PLAN
30 MASCAR ST & 101-111 MT GRAVATT CAPALABA RD
UPPER MOUNT GRAVATT
TITLE: TYPICAL WASTE CHUTE & HOPPER LOCATIONS

JOB NUMBER: MRA25-192
DRAWING: Figure 4
REV: A



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17/07/2026	Development Application	

TOWER 2/3 (S), TOWER 3 (W)
DEVELOPMENT APPLICATION
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DA-05.04
0246
DA - 17/07/2026

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DESIGNED	RP	SCALE	NTS
DRAWN	RP	LEVEL DATUM	-
CHECKED	AR	SHEET SIZE	A4
APPROVED	AR	CAD FILE	
DATE	JULY 2026	ISSUE	FINAL

CLIENT: SCAS LEAF 4 PTY LTD
PROJECT: WASTE MANAGEMENT PLAN
30 MASCAR ST & 101-111 MT GRAVATT CAPALABA RD
UPPER MOUNT GRAVATT
TITLE: CROSS-SECTION OF WASTE SERVICING POINT

JOB NUMBER: MRA25-192
DRAWING: Figure 5
REV: A

3.0 WASTE QUANTITIES

3.1 TYPE OF WASTE

Table 1 outlines the predicted types of refuse that is expected to be generated from the proposed development.

Table 1: Predicted refuse types to be generated

Tenancy Type	Predicted Refuse Types
Residential units	General waste & recycling

3.2 WASTE QUANTITIES

Calculations of the anticipated refuse quantities have been separated into the general waste and recycling components. 240L of general waste per dwelling and 240L of recycling generation per dwelling are the basis of the refuse calculations in accordance with Council's *SC6.26 Refuse Planning Scheme Policy.*

3.3 RESIDENTIAL WASTE

Table 2 displays the general waste quantities and **Table 3** displays the recyclable quantities that are anticipated for the townhouses and the residential apartments for each Building.

Table 2: Anticipated general waste quantities

Dwellings	No.	Total Required Waste Capacity (L/week)	Estimated Waste Generation (m^3/week)	Estimated Daily Waste Generation (m^3/day)
Tower 1 units	64	15,360	15.36	2.19
Tower 2 units	59	14,160	14.16	2.02
Tower 3 units	52	12,480	12.48	1.78
TOTAL	**175**	**42,000**	**42.00**	**5.99**

Table 3: Anticipated recycling quantities

Dwellings	No.	Total Required Waste Capacity (L/week)	Estimated Waste Generation (m^3/week)	Estimated Daily Waste Generation (m^3/day)
Tower 1 units	64	15,360	15.36	2.19
Tower 2 units	59	14,160	14.16	2.02
Tower 3 units	52	12,480	12.48	1.78
TOTAL	**175**	**42,000**	**42.00**	**5.99**

3.4 TOTAL WASTE CAPACITY

Tower 1 is estimated to generate approximately **2.19m^3/day** of general waste and **2.19m^3/day** of recycling waste.

Tower 2 is estimated to generate approximately **2.02m^3/day** of general waste and **2.02m^3/day** of recycling waste.

Tower 3 is estimated to generate approximately **1.78m^3/day** of general waste and **1.78m^3/day** of recycling waste.

At full capacity operation of all towers within the development, it is estimated to generate a combined total of approximately **5.99m^3/day** of general waste and **5.99m^3/day** of recycling waste.

Although the towers have been assessed individually, the same type of bulk bins (1.1m^3 bulk bins) will be used and can be co-located for storage & collection at two (2) combined waste storage & servicing points positioned adjacent to the loading bays. These bulk bins will be rotated for use under the waste chute systems in each tower by site management as required. The number of required bins, the on-site collection location and the frequency of collection is discussed in detail in **Section 4.0.**

4.0 WASTE & RECYCLING STORAGE

This section outlines the general design criteria of the waste storage points, waste chutes and waste hoppers as required by Council's *SC6.26 Refuse Planning Scheme Policy* along with a description of the proposed bins to be used.

4.1 WASTE STORAGE POINTS

There will be six (6) waste storage points within the development which will include:

- one (1) waste storage room for Tower 1 located at the base of the waste chute on the ground floor adjacent to the fire stair;
- one (1) waste storage point for Tower 1 for ground floor residents located adjacent to visitor carpark 3;
- one (1) waste storage room for Tower 2 located at the base of the waste chute on the ground floor adjacent to the fire stair;
- one (1) waste storage room for Tower 3 located at the base of the waste chute on the ground floor adjacent to the fire stair; and
- two (2) combined waste storage & servicing points located on the ground floor of Towers 2 & 3 positioned either side of the central loading bays.

Please refer to **Figure 3** for the locations of these waste storage points.

All general waste and recycling waste from Tower 1, 2 and 3 units is proposed to be disposed of via single waste chute systems fitted with a diverter for recycling which will terminate in their respective waste storage rooms. Waste disposal points (hoppers) will be provided on residential levels 2-8 of each tower in a dedicated compartment.

The residential units on the ground floors of each tower will not have access to the waste chute system and will therefore manually transfer their general waste and recycling to one of the combined waste storage & servicing points. Alternatively for Tower 1 residents, there is a waste storage point provided adjacent to the visitor carpark 3 that residents can manually transfer their general waste & recycling bulk bins into.

Each of the Towers 1, 2 and 3 waste storage rooms which will have capacity for at least two (2) x 1,100L bulk bins consisting of one (1) x general waste bulk bin and 1 x recycling waste bulk bin to be positioned under the waste chute.

The two (2) combined waste storage & servicing points will house the majority of bulk bins for the development, with site management to monitor capacity within each waste storage room and rotate bulk bins for use under the chutes as required to ensure capacity is maintained. Each waste storage room has been allocated two (2) spare bulk bins that are available to be placed under the waste chutes on the days of collection, to ensure continuity of general waste and recycling disposal.

The bulk bins under the chutes in the Tower 2 & 3 waste storage rooms will be physically separated from the combined waste storage & servicing points which are adjacent to the central waste collection point, which will have capacity to temporarily store all bulk bins on servicing days. The central refuse collection point will be discussed in **Section 5.2**.

The waste storage points/rooms will be designed and constructed to meet the following requirements:

1. Bulk bins are to be contained in a roofed and wholly screened enclosure or room of sufficient size for the bulk bin quantity required;
2. Easily accessible for residents and for the required servicing of bins. The Towers 1, 2 and 3 waste storage rooms will be accessed by authorised persons only (e.g. site management);
3. Screened from neighbouring properties to mitigate odour, amenity and noise;
4. Designed to allow the bins to be serviced on-site, with bulk bins to be easily manoeuvred to a separate collection point (no steps or lips on bin carting route);
5. Constructed hardstand area with a solid concrete base or acceptable equivalent;
6. Designed to mitigate the harbourage of vermin or attraction of scavenging animals;
7. Provided with natural or temperature-controlled ventilation if in an enclosed room;
8. Of a design that maintains a minimum internal vertical clearance of 2.1m;
9. Kept clear of obstructions, such as fixed bay separators, that impede the ability to change from existing bin sizes or which otherwise limit future waste collection options;
10. Provided with adequate artificial lighting;
11. The walls, floor and equipment of the waste storage rooms/points are to be designed and constructed of impervious material with a smooth finish to allow for easy cleaning; and
12. Are not to contain other amenities such as air-conditioning apartments, hot water systems or electrical hubs.

4.2 WASTE CHUTES

The waste chute systems will be constructed to meet the requirements listed below:

1. Adequate in strength for its purpose, including additional reinforcing where necessary at joins, bends and hopper intersections;
2. Insect and vermin proof;
3. Constructed and installed to allow refuse to fall into the bin and prevent the following during use and operation of the system:
    - transmission of vibration to the structure of the premises;
    - excessive odour – there must not be a noticeable odour beyond the refuse disposal and storage points;
    - excessive noise to the occupants of the building.

4. Installed in a 'fire rated' duct and ventilated in compliance with building requirements of the *National Construction Code – Building Code of Australia*;
5. Comply with the refuse chute manufacturer's technical specifications and/or operational limitations, including installation design features and ancillary equipment required to prevent blockages and noise disturbances to achieve compliance with the section; and
6. Fitted with a shutter at the base of the chute for closing off the chute manually during bin exchange and automatically in the case of fire. The manual control shall be located to ensure that the operator is safe from any waste that may inadvertently exit the bin.

4.3 WASTE HOPPER CONSTRUCTION

Waste hoppers are available on residential levels 2-8 of each tower in a dedicated compartment.

The typical location of the waste chutes and hoppers is shown on **Figure 4**.

The waste hoppers will be constructed to meet the requirements listed below:

1. Located in a position which is:
    - in a dedicated room or compartment;
    - easily accessible by the occupants of each dwelling;
    - separated from any habitable portion of a building or place used in connection with food preparation or storage;
2. The hopper door automatically returns to the closed position after use;
3. Designed to permit free flow of refuse into the chute;
4. Constructed so that the diameter or largest dimension of the service opening (the diagonal of a rectangular opening) does not exceed three-quarters (3/4) of the diameter of the chute with which the hopper is connected; and
5. The floor adjacent to the hopper will be a durable impervious material with a smooth finished surface.

4.4 PROPOSED WASTE BINS

To ensure the design of each storage area is sufficient, the details of the type of waste and the number of bins to be stored for each tower are outlined in **Table 4**.

Table 4: Details of proposed bin & servicing frequency

Storage Location	Waste Type	Waste Quantity (m^3/week)	Bins Proposed	Collection frequency
Tower 1	General	15.36	6 x 1.1m^3 bulk bins (includes 1 spare)	Three times per week
	Recycling	15.36	6 x 1.1m^3 bulk bins (includes 1 spare)	Three times per week
Tower 2	General	14.16	6 x 1.1m^3 bulk bins (includes 1 spare)	Three times per week

Storage Location	Waste Type	Waste Quantity (m^3/week)	Bins Proposed	Collection frequency
	Recycling	14.16	6 x 1.1m^3 bulk bins (includes 1 spare)	Three times per week
Tower 3	General	12.48	5 x 1.1m^3 bulk bins (includes 1 spare)	Three times per week
	Recycling	12.48	5 x 1.1m^3 bulk bins (includes 1 spare)	Three times per week

4.5 DIMENSIONS OF WASTE BINS

Table 5 provides dimensions of the 1,100L bulk bins to be used on-site. The 1,100L bulk bins will be composed of solid plastic with lightweight plastic lids.

Table 5: Dimensions of bulk bins

Bin Type	Volume	Width (mm)	Height (mm)	Depth (mm)	Collection Vehicle Type
Bulk bin	1.1m^3	1,280	1,340	1,080	Rear Lift Truck

4.6 DRAINAGE AND BIN WASH

Bin wash facilities (including hose-cock) will be provided within each waste storage room & the combined waste storage points, which will be graded to a central drainage point that is connected to sewer in accordance with trade waste requirements. These storage areas will be undercover and designed to prevent infiltration of stormwater to the sewer system.

These areas will be utilised as the bin washing facility for both the general waste and recycling bulk bins. It will be the responsibility of site management to wash bins and to maintain the cleanliness of the combined waste storage & servicing points.

5.0 DETAILS OF COLLECTION

5.1 FREQUENCY

Waste servicing frequencies for both the general waste and recycling bulk bins have been outlined in **Table 4**. Residential general waste & recycling are both anticipated to be serviced three times per week.

5.2 BULK BIN COLLECTION POINT

On-site servicing is proposed for the development, with a central collection/servicing point provided in the loading bays adjacent to the combined waste storage & servicing points on the ground floor of Towers 2 & 3 (Refer to **Figure 3**). The 1.1m^3 bulk bins will be serviced on-site by the engaged waste contractor using a rear-lift truck.

As previously noted, the development is proposed to be staged (refer to **Figure 2**), however it is important to note that the bulk bin collection point will be provided in Stage 1 of the development.

The central waste collection point is within the loading bays on the ground floor located between the two (2) combined waste storage & servicing points. There is capacity within the central waste collection point for twenty-eight (28) bulk bins, which represents the number of bins for all stages of the development without the spare bins used under chutes on collection day.

Site management will be responsible for regular monitoring of the bulk bins under chutes and transferring bins to and from the refuse storage rooms to the central collection point as required. Bulk bins may be moved with the assistance of a mechanical aid by site management if required. If required, it will be at the discretion of on-site management as to which option and model of equipment they adopt as being most suitable and practical to use during operation of the development.

A rear lift waste collection vehicle is proposed to enter into the site in a forward motion from Mascar St, travel to the central waste collection point situated at the loading bays between Towers 2 & 3, service the bulk bins and exit in a forward motion onto Mascar St. The vertical clearance available along the vehicle travel path and in the loading bay is shown in **Figure 5**.

The project traffic consultant has provided a swept path analysis for a 11m long HRV which is larger than the size of the proposed rear lift refuse collection vehicle which shows the vehicle can enter and exit the site in a forward motion. Refer to **Attachment A** which provides the swept path analysis for access to/from the central waste collection point.

The central waste collection point is proposed to meet the following requirements:

1. Sufficient access and clearance for the refuse collection vehicles to service the bulk bins;
2. Access for the refuse collection vehicle to the collection point is to be maintained at all times;
3. Designed so that bins can be serviced in a safe and efficient manner, without detrimental impacts to pedestrian amenity or safety, Council or private infrastructure;
4. Provided with sufficient clearances around bins;
5. Bin-carting route must allow bins to be easily manoeuvred and be devoid of steps or steep rises;
6. Bin-carting route must not extend through habitable parts of a building, or a food premises, and only occur through common property or publicly accessible locations;
7. Clear of speed control devices or similar provisions which inhibit direct access to the bins for collection; and
8. Screened to minimise the view of bins from neighbouring properties.

5.3 WASTE COLLECTION VEHICLE

Table 6 details the dimensions of the rear lift domestic refuse collection vehicle (RCV) that will be used to service the development.

Table 6: Rear lift refuse collection vehicle dimensions

Length overall	10.24m
Width overall	2.5m
Operational height*	3.6m
Travel height	3.6m
Turning Circle	R9.5 (kerb-kerb)
Turning template	As per BSD-3008-2

*Note that the waste collection vehicle clearance height (working height) is to be calculated according to the following formula as a minimum:

SUITABLE CLEARANCE = VEHICLE OPERATING DIMENSIONS + 100mm + CLEARANCE FOR SERVICES + CALCULATION FOR ROADWAY GRADIENT

6.0 SUMMARY

Details of this Waste Management Plan are summarised below:

- The subject site is located at 30 Mascar St and 101-111 Mt Gravatt Capalaba Rd, Upper Mount Gravatt on six (6) parcels of land formally described as Lot 9 on RP70000, Lot 10 on RP70000, Lot 11 on RP70000, Lot 12 on RP70000, Lot 17 on RP70001 and Lot 18 on RP70001. Please refer to **Figure 1** for the site location;
- The proposed residential development consists of 175 units across three (3) towers above a shared basement. The development will be staged to allow the construction of Tower 1 fronting onto Mascar St & Tower 2 fronting onto Mt Gravatt Capalaba Rd first as Stage 1, while the remaining Tower 3 fronting onto Mt Gravatt Capalaba Road will be constructed last as Stage 2. Please refer to **Figure 2** for the Staging Plan;
- The proposed development is estimated to generate approximately **5.99m^3/day** of general waste and **5.99m^3/day** of recycling waste;
- There will be six (6) waste storage points within the development which will include:
    - one (1) waste storage room for Tower 1 located at the base of the waste chute on the ground floor adjacent to the fire stair;
    - one (1) waste storage point for Tower 1 for ground floor residents located adjacent to visitor carpark 3;
    - one (1) waste storage room for Tower 2 located at the base of the waste chute on the ground floor adjacent to the fire stair;
    - one (1) waste storage room for Tower 3 located at the base of the waste chute on the ground floor adjacent to the fire stair; and
    - two (2) combined waste storage & servicing points located on the ground floor of Towers 2 & 3 positioned either side of the central loading bays.
- All general waste and recycling waste from Tower 1, 2 and 3 units is proposed to be disposed of via single waste chute systems fitted with a diverter for recycling which will terminate in their respective waste storage rooms. Waste disposal points (hoppers) will be provided on residential levels 2-8 of each tower in a dedicated compartment;
- The residential units on the ground floors of each tower will not have access to the waste chute system and will therefore manually transfer their general waste and recycling to one of the combined waste storage & servicing points. Alternatively for Tower 1 residents, there is a waste storage point provided adjacent to the visitor carpark 3 that residents can manually transfer their general waste & recycling bulk bins into;
- Each of the Towers 1, 2 and 3 waste storage rooms which will have capacity for at least two (2) x 1,100L bulk bins consisting of one (1) x general waste bulk bin and 1 x recycling waste bulk bin to be positioned under the waste chute;

- The two (2) combined waste storage & servicing points will house the majority of bulk bins for the development, with site management to monitor capacity within each waste storage room and rotate bulk bins for use under the chutes as required to ensure capacity is maintained. Each waste storage room has been allocated two (2) spare bulk bins that are available to be placed under the waste chutes on the days of collection, to ensure continuity of general waste and recycling disposal;
- On-site servicing is proposed for the development, with a central collection/servicing point provided in the loading bays adjacent to the combined waste storage & servicing points on the ground floor of Towers 2 & 3 (Refer to **Figure 3**). The 1.1m^3 bulk bins will be serviced on-site by the engaged waste contractor using a rear-lift truck;
- As previously noted, the development is proposed to be staged (refer to **Figure 2**), however it is important to note that the bulk bin collection point will be provided in Stage 1 of the development;
- The central waste collection point is within the loading bays on the ground floor located between the two (2) combined waste storage & servicing points. There is capacity within the central waste collection point for twenty-eight (28) bulk bins, which represents the number of bins for all stages of the development without the spare bins used under chutes on collection day; and
- The project traffic consultant has provided a swept path analysis for a 11m long HRV which is larger than the size of the proposed rear lift refuse collection vehicle which shows the vehicle can enter and exit the site in a forward motion. Refer to **Attachment A** which provides the swept path analysis for access to/from the central waste collection point.

ATTACHMENT A

Swept Path Analysis for Refuse Collection provided
by the project traffic consultant

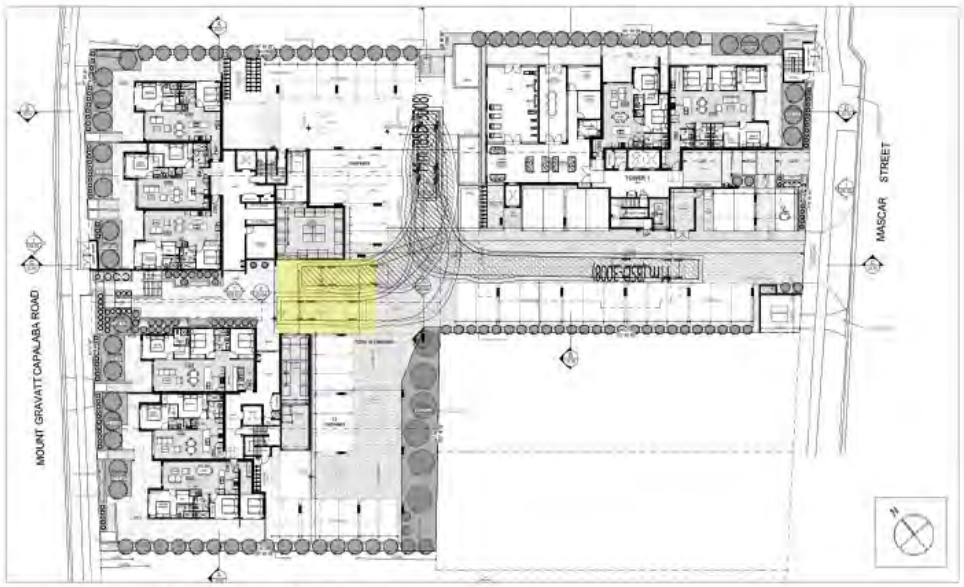

Figure 3.4: Extract from Ground Floor Plan