



# Waste Management Report - Building Operation

Newcastle Courthouse Redevelopment  
9 Church Street, Newcastle

Katherine Daunt  
katherine.d@dwp.com

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# Introduction

dwp have prepared the following Operational Waste Management Report on behalf of Nihon Unveristy, in relation to the redevelopment of 9 Church Street Newcastle. This report pertains to the on-site waste storage requirements of the development. This Waste Management Report will assist in identifying and understanding the type and quantity of waste that will be generated during the operation of the facility, and will inform the operator of the building on how to reuse, recycle and dispose of waste from the site.

Waste management for demolition and during construction has been specifically excluded from this report. It is understood that this assessment will be prepared by the successful contractor, prior to construction commencing.

## Operational Waste Calculations

The following calculations for both Garbage and Recycling waste have been determined using waste generation rates set out in the *Newcastle DCP 2012 - Waste Management Technical Manual June 2012*.

Number of Occupants / Area	Garbage Waste	Recycling Waste
109 x Residential Occupants	60L/occupant/week = 6,540L/week	20L/occupant/week = 2,180L/week
Cafeteria & Kitchen Net Area = 224m <sup>2</sup> + 22m <sup>2</sup> = 246m <sup>2</sup>	10L/1.5m <sup>2</sup> floor area/day = 1,640L/day Operating 5 x days per week, equates to 8,200L/week	2L/1.5m <sup>2</sup> /day dining = 328L/day Operating 5 x days per week, equates to 1,640L/week
Public Building Net floor Area = 1210m <sup>2</sup>	10L/100m <sup>2</sup> /day = 121L/day Operating 5 x days per week, equates to 605L/week	10L/100m <sup>2</sup> /day = 121L/day Operating 5 x days per week, equates to 605L/week
Education Building Net floor area = 1360m <sup>2</sup>	10L/100m <sup>2</sup> /day = 136L/day Operating 5 x days per week, equates to 680L/week	10L/100m <sup>2</sup> /day = 136L/day Operating 5 x days per week, equates to 680L/week
<b>TOTAL WASTE PER WEEK</b>	<b>16,025L/week</b>  <b>Collection 3 x times per week = requires 5 x 1100L MGBs</b>	<b>7,285L/week</b>  <b>Collection 3 x times per week = requires 3 x 1100L MGBs</b>

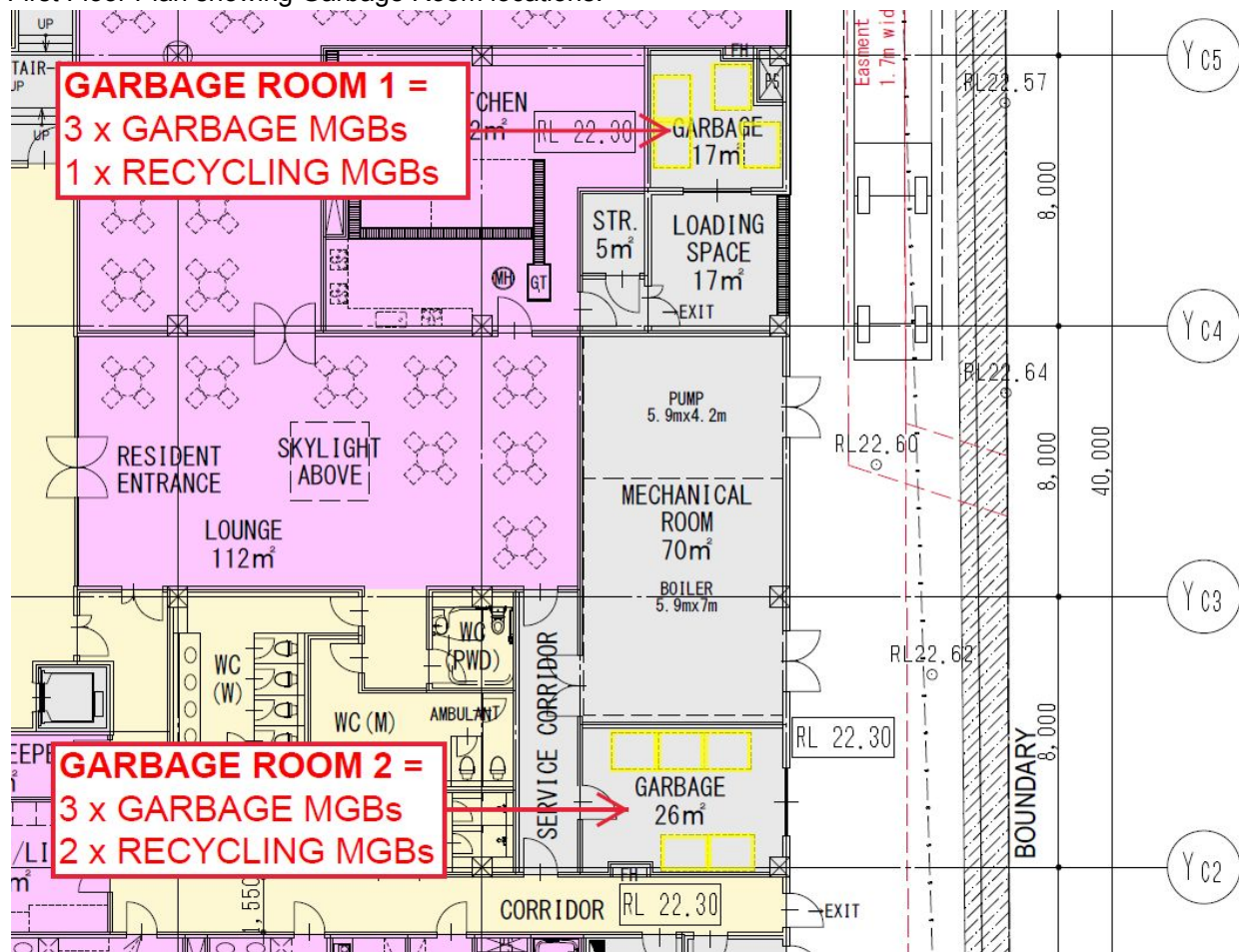
Note: these calculations include an over allowance for bins. There is zero allowance for compaction of general waste & recycling.

# On-site Waste Storage Facilities

## Centralised Garbage Rooms

- Located on the 1st floor of the residential building are 2 x Garbage Rooms. These rooms have been sized to house the required minimum quantity of Mobile Garbage Bins (MGBs), and are to be used for the entire development.
- Bin locations have been nominated on the floor plan, and clearly illustrate that the rooms have sufficient size to house the minimum required bins.
- Typical 1100L MGB sizes are: 1373w x 1073d x 1354h (equal to Otto).
- The centralised Garbage Rooms have been located adjacent to the Service Driveway for access
- The centralised Garbage Room will be well ventilated and lit and will have access to a cold water supply for cleaning of bins and the waste area. Wastewater will be discharged to the sewer.

First Floor Plan showing Garbage Room locations:



## Residential Building

- Within the Lobby to each occupant room, there will be the provision for individual bins for separated recycling and garbage waste. It will be the responsibility of each occupant to place their own waste in the bins in the Lobbies. These individual bins will be collected on a daily basis by a cleaner/building manager and taken to the centralised waste room on the 1st floor.



- Within the common areas of the residential building, such as the communal kitchens and resident lounge, individual bins for separated recycling and garbage waste will be provided for occupants to dispose of their waste. These individual bins will be collected on a daily basis by a cleaner/building manager and taken to the centralised waste room on the 1st floor.

## Public & Education Building

- Within the Public and Education building, individual bins for separated recycling and garbage waste will be provided throughout the facility for users to dispose of their waste.
- These individual bins will be collected on a daily basis by a cleaner/building manager and taken to the centralised waste room on the 1st floor.

## Collection

- Collection of waste (both Garbage and recycling) will occur up to 3 times per week.
- Collection will be undertaken by an independent waste contractor, engaged and managed directly by the building owner.
- At time of collection, the bins will be wheeled along the service driveway to the kerb by the building manager.
- The path of travel from the bin room to the point of collection on road is step free access and a suitable gradient for the manouvreability of the bins.
- The waste collection will be organised to occur outside of business hours to limit the impact upon the road network.

## Conclusion

The waste storage and collection methods proposed for the redevelopment of 9 Church Street Newcastle, allows for safe and manageable storage and collection of waste from the site during occupation.

If there are any queries in relation to the content of this report, please contact the undersigned.

Yours sincerely

Katherine Daunt  
Design Director