

Chapter 1: Part F

Waste Minimisation and Management

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F1. INTRODUCTION

Waste and resource consumption is a major environmental issue and a priority for all levels of government within Australia. This is particularly the case as landfill sites become scarce and the environmental and economic costs of waste generation and disposal rise. Government and society alike are exposed to the issue of managing the increasingly large volumes of waste generated by our society.

Sustainable resource management and waste minimisation has emerged as a priority action area and a key in the quest for Ecologically Sustainable Development (ESD). Critical actions in this regard include the following (moving from most desirable to least desirable):

1. Avoiding unnecessary resource consumption
2. Recovering resources for reuse
3. Recovering resources for recycling or reprocessing
4. Disposing of residual waste (as a last resort).

The building and construction industry in particular is a major contributor to waste, much of which is still deposited to landfill. The implementation of effective waste minimisation strategies has the potential to significantly reduce these volumes.

Effective waste planning and management can also benefit the builder/developer. Some of the benefits of good waste planning and management include:

1. Reduced costs.
2. Improved workplace safety.
3. Enhanced public image.
4. Compliance with legislation such as the *Protection of the Environment Operation Act 1997* that requires waste to only be transported to a place that can lawfully accept it.

F1.1 Purpose of this Section

This Section of the DCP aims to facilitate sustainable waste management within the Local Government Area in a manner consistent with the principles of ESD.

F1.2 Objectives of this Section

The objectives of this Section of the DCP in pursuit of sustainable waste management include:

Waste minimisation

1. To minimise resource requirements and construction waste through reuse and recycling and the efficient selection and use of resources.
2. To minimise demolition waste by promoting adaptability in building design and focussing upon end of life deconstruction.
3. To encourage building designs, construction and demolition techniques in general which minimise waste generation.
4. To maximise reuse and recycling of household waste and industrial/commercial waste.

Waste management

5. To assist applicants in planning for sustainable waste management, through the preparation of a site waste minimisation and management plan.
6. To assist applicants to develop systems for waste management that ensure waste is transported and disposed of in a lawful manner.

7. To provide guidance in regards to space, storage, amenity and management of waste management facilities.
8. To ensure waste management systems are compatible with collection services.
9. To minimise risks associated with waste management at all stages of development.

F1.3 Development Controlled by this Section of the DCP

This Section of the DCP applies to the following types of development, where that development may be carried out only with development consent:

1. Demolition.
2. Development involving construction, erection of a building or carrying out works.
3. Change of use.

Storage and disposal of liquid waste such as oils, chemicals, grease, interceptor waste and other liquid trade wastes are not covered by this Section of the DCP. Developments that generate these types of waste will require a separate Liquid Trade Waste approval pursuant to Section 68 of the Local Government Act, 1993.

The definitions of various terms used are contained in the Byron LEP 2010 Dictionary, or in the Dictionary to this DCP.

Development that Requires Consent

When determining a development application under Section 79C of the *Environmental Planning and Assessment Act, 1979* (as amended) (The Act), Council must consider the contents of this Section of the DCP. Compliance with the minimum provisions herein does not, however, necessarily mean that an application will be approved, as each application will be considered on its merits.

Exempt and Complying Development

Preparation of a Site Waste Minimisation and Management Plan (SWMMP) is not required for exempt and complying development unless specified in an Environmental Planning Instrument. However, persons carrying out exempt and complying development are encouraged to minimise the generation of waste in the construction and operation of any such use or activity and deal with any waste generated in accordance with the objectives herein.

F1.4 Departures from the Controls of this Section of the DCP

It is accepted that optimum waste minimisation and management will necessitate site specific and sometimes unique solutions. Council may approve variations to the Prescriptive Measures herein in accordance with the principles of merit-based assessment. Any request for variation to the provisions must be in writing and must comprise part of the application. The request must clearly demonstrate that:

1. The objectives of this Section of the DCP and relevant Element Objectives are met,
2. The proposal complies with relevant Element Performance Criteria,
3. Compliance with the relevant provisions is unreasonable or unnecessary in the circumstances of the case, and
4. The proposed variation results in an equivalent or better outcome in terms of ESD.

F1.5 Exempt and Complying Development & the Codes SEPP

The provisions of this DCP do not apply to Exempt and Complying Development that is governed by Byron LEP 2010, or to development that is governed by *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008* (the 'Codes SEPP'). Under the Codes SEPP, certain development can be either exempt development or complying development.

The Codes SEPP applies to certain types of development in two main ways:

1. The General Exempt Development Code sets out the development standards for certain residential, commercial and industrial premises that can be carried out as exempt development under the Codes SEPP.
2. The General Commercial and Industrial Code aims to simplify the process for approving a change of use, minor external works and internal alterations to some existing commercial and industrial premises.

It is recommended that before preparing to undertake or to seek approval for development you should contact the NSW Department of Planning (website www.planning.nsw.gov.au) to confirm whether or not the provisions of the Codes SEPP apply rather than the controls in Byron LEP 2010 and this DCP. Council's Duty Planner is also available to assist with this.

F1.6 Other NSW Government Statutes

Apart from the Codes SEPP, various other statutory initiatives of the NSW Government may supplement, amend or override the controls in Byron LEP 2010 and this DCP.

It is recommended that before preparing to undertake or to seek approval for development you should contact the NSW Department of Planning (website www.planning.nsw.gov.au) to confirm whether or not the provisions of other Planning Instruments or statutes supplement, amend or override the controls in Byron LEP 2010 and this DCP. Council's Duty Planner is also available to assist with this.

F1.7 Abbreviations

The following abbreviations are used in this Section of the DCP:

BCA	Building Code of Australia
CC	Construction Certificate
DA	Development Application
DCP	Development Control Plan
EPA	Environment Protection Authority
ESD	Ecologically Sustainable Development
SEE	Statement of Environmental Effects
The Act	<i>Environmental Planning and Assessment Act, 1979</i> (as amended)
SWMMP	Site Waste Minimisation and Management Plan

F1.8 Summary Guide to Using This Section of the DCP

This Section of the DCP is designed to be used as follows:

1. Read Section F1 – Introduction

Section F1 provides a background to waste minimisation and management. It details aims and objectives of waste minimisation and management associated with local development and the application of this Section of the DCP.

2. Read Section F2 – Submission Requirements

Section F2 provides specific advice regarding information that must accompany a Development Application (DA) and highlights the requirements of a Site Waste Minimisation and Management Plan (SWMMP).

3. Read Section F3 and F4 – Assessment Criteria/Controls

Sections F3 and F4 detail the criteria and controls that Council will consider in assessing the adequacy of the Site Waste Minimisation and Management Plan, and in addressing the

principles of sustainable waste management. Section F3 details general criteria and controls for all demolition and construction, while Section F4 adds additional criteria and controls for specific types of construction.

4. Read the Appendices — Further Information

The Appendices provide useful information in interpreting this Section of the DCP, understanding the waste minimisation and management environment and documenting the central submission requirement for waste management issues – a Site Waste Minimisation and Management Plan.

F2 SUBMISSION REQUIREMENTS FOR DEVELOPMENT APPLICATIONS (DAs)

F2.1 Documentation required for all DAs

The Statement of Environmental Effects submitted for all development applications must include a Site Waste Minimisation and Management Plan (SWMMP) that addresses the requirements of this Section of the DCP.

In addition to submission of a SWMMP, the waste management facilities proposed as part of the development must be clearly illustrated on the plans and drawings accompanying the development application.

F2.2 Site Waste Minimisation and Management Plans

The level of detail required for the Site Waste Minimisation and Management Plan (SWMMP) will vary with the size and complexity of the proposed development. For example, a DA seeking consent for a single dwelling house would normally require a very simple SWMMP, while a DA seeking consent for a large commercial or industrial complex is likely to require an extensive SWMMP that documents full details of proposed waste generation, management, recycling, storage and disposal measures.

The SWMMP must outline measures to minimise and manage waste generated during:

1. Demolition;
2. Construction; and
3. Ongoing operation and use of the development.

In doing so, the SWMMP must nominate:

- i. The volume and type of waste and recyclables to be generated.
- ii. Proposed measures for storage and treatment of waste and recyclables on site.
- iii. Proposed measures for disposal of residual waste and recyclables.
- iv. Proposed operational procedures for ongoing waste management once the development is complete.
- v. Proposed means of access and manoeuvring for recycling/ waste management bins and vehicles.

The SWMMP must specify the proposed method of recycling or disposal and the waste management service provider.

Appendix A provides a template for the compilation of a SWMMP.

F2.3 Waste/Recycling Generation Rates

In the absence of project specific calculations, the rates specified in **Appendix B - Waste/Recycling Generation Rates** and Council's current rate of provision of services to residential properties can be used to inform the compilation of a SWMMP.

F3 GENERAL DEVELOPMENT CRITERIA

F3.1 Element – Demolition of Buildings or Structures

Element Objectives

1. To maximise resource recovery and minimise residual waste from demolition activities.
2. To optimise adaptive reuse opportunities of existing building/structures.
3. To maximise reuse and recycling of materials.
4. To minimise waste generation.
5. To ensure appropriate storage and collection of waste.
6. To minimise the environmental impacts associated with waste management.
7. To avoid illegal dumping.
8. To promote improved project management.

Performance Criteria

There are no Performance Criteria for this Element.

Prescriptive Measures

A Site Waste Minimisation and Management Plan (SWMMP) must be submitted with development applications seeking consent for demolition. The SWMMP must demonstrate that the proposed development will:

1. Pursue adaptive reuse opportunities of buildings/structures.
2. Identify all waste likely to result from the demolition, and opportunities for reuse of materials. Refer to Table F3.1.
3. Facilitate reuse/recycling by using the process of 'deconstruction', where various materials are carefully dismantled and sorted.
4. Reuse or recycle salvaged materials onsite where possible.
5. Allocate an area for the storage of materials for use, recycling and disposal (giving consideration to slope, drainage, location of waterways, stormwater outlets, vegetation, and access and handling requirements).
6. Provide separate collection bins or areas for the storage of residual waste.
7. Clearly 'signpost' the purpose and content of the bins and storage areas.
8. Implement measures to prevent damage by the elements, odour and health risks, and windborne litter.
9. Minimise site disturbance, limiting unnecessary excavation.

When implementing the SWMMP the applicant must ensure that:

- i. Footpaths, public reserves, street gutters are not used as places to store demolition waste or materials of any kind without Council approval.
- ii. Any material moved offsite is transported in accordance with the requirements of the *Protection of the Environment Operations Act (1997)*.
- iii. Waste is only transported to a place that can lawfully be used as a waste facility.
- iv. Generation, storage, treatment and disposal of hazardous waste and special waste (including asbestos) is conducted in accordance with relevant waste legislation administered by the EPA and relevant Occupational Health and Safety legislation administered by WorkCover NSW.

- v. Evidence such as weighbridge dockets and invoices for waste disposal or recycling services are retained.

Note: Materials that have an existing reuse or recycling market should not be disposed of in a landfill. Table F3.1 provides a list of some potential reuse/recycling options. Reuse and recycling opportunities are decreased when asbestos is not carefully removed and segregated from other waste streams.

Table F3.1 Examples of demolition materials and potential reuse/recycling opportunities

<i>Material</i>	<i>Reuse/recycling potential</i>
Concrete	Reused for filling, levelling or road base
Bricks and Pavers	Can be cleaned for reuse or rendered over or crushed for use in landscaping and driveways
Roof Tiles	Can be cleaned and reused or crushed for use in landscaping and driveways
Untreated Timber	Reused as floorboards, fencing, furniture, mulched or sent to second hand timber suppliers
Treated Timber	Reused as formwork, bridging, blocking and propping, or sent to second hand timber suppliers
Doors, Windows, Fittings	Sent to second hand suppliers
Glass	Reused as glazing or aggregate for concrete production
Metals (fittings, appliances and wiring)	Removal for recycling
Synthetic Rubber (carpet underlay)	Reprocessed for use in safety devices and speed humps
Significant Trees	Relocated either onsite or offsite
Overburden	Power screened and used as topsoil
Garden Waste	Mulched, composted
Carpet	Can be sent to recyclers or reused in landscaping
Plasterboard	Removal for recycling, return to supplier

Source: Based on the *Combined Sydney Regional Organisation of Councils Model DCP 1997*.

F3.2 Element – Construction of Buildings or Structures

Element Objectives

1. *To maximise resource recovery and minimise residual waste from construction activities.*
2. *To maximise reuse and recycling of materials.*
3. *To minimise waste generation.*
4. *To ensure appropriate collection and storage of waste.*
5. *To minimise the environmental impacts associated with waste management.*
6. *To avoid illegal dumping.*
7. *To promote improved project management.*
8. *To optimise adaptive reuse opportunities of existing building/structures.*

Performance Criteria

There are no Performance Criteria for this Element.

Prescriptive Measures

A Site Waste Minimisation and Management Plan (SWMMP) must be submitted with development applications seeking consent for construction of buildings or structures. The SWMMP must:

1. Estimate volumes of materials to be used and incorporate these volumes into a purchasing policy so that the correct quantities are purchased. For small-scale building projects see the rates in **Appendix B Waste/Recycling Generation Rates** for a guide.
2. Identify potential reuse/recycling opportunities of excess construction materials.
3. Incorporate the use of prefabricated components and recycled materials.
4. Specify arrangements for the delivery of materials so that materials are delivered 'as needed' to prevent the degradation of materials through weathering and moisture damage.
5. Consider organising to return excess materials to the supplier or manufacturer.
6. Allocate an area for the storage of materials for use, recycling and disposal (considering slope, drainage, location of waterways, stormwater outlets and vegetation).
7. Nominate proposed arrangements to ensure appropriate transport, processing and disposal of waste and recycling; and to ensure that all contractors are aware of the legal requirements for disposing of waste.
8. Promote separate collection bins or areas for the storage of residual waste.
9. Clearly 'signpost' the purpose and content of the bins and storage areas.
10. Specify intended implementation measures to prevent damage by the elements, odour and health risks, and windborne litter.
11. Minimise site disturbance and limit unnecessary excavation.
12. Ensure that all waste is transported to a place that can lawfully be used as a waste facility.
13. Require retention of all records demonstrating lawful disposal of waste and keep them readily accessible for inspection by regulatory authorities such as council, DECC or WorkCover NSW.

F3.3 Element – Bin Sizes and Collection Measures

Element Objectives

1. *To ensure that adequate provision is made for collection, storage and transport of waste for all development, commensurate with the development's scale, nature and potential for waste generation.*
2. *To ensure that the design and provision of waste collection, storage and transport facilities does not create significant adverse impacts on the amenity of the surrounding locality.*
3. *To ensure that the design and provision of waste collection, storage and transport facilities does not create significant adverse parking, cycle or traffic impacts on adjoining roads.*

Performance Criteria

Recycling and waste collection services in Byron Shire provide for two primary levels of on-site waste storage and collection facilities. For smaller scale developments such as individual dwelling houses, small scale multi dwelling housing and low key Business Premises or industries Council provides a kerbside pickup service utilising 80 Litre, 140 Litre and 240 Litre 'wheelie bins'. For larger developments a bulk bin service is required, for which the land owner and/ or occupier must enter into a contractual arrangement with a service provider.

The SWMMP provided with the development application must specify the proposed bin sizes and collection arrangements for the development.

Where collection is proposed by Council's kerbside pickup service, the SWMMP and development application must specify and illustrate in a site plan drawn to a readily legible scale:

1. The site's boundary dimensions and available kerbside/ road frontage space, after deducting existing or proposed access driveways.
2. The kerbside/ road frontage space intended to be occupied by 'wheelie bins' on pickup days, based on the dimensions of the bins proposed. Bin dimensions are available on request from Council.

If the kerbside/ road frontage space intended to be occupied by 'wheelie bins' exceeds 75% of the site's available kerbside/ road frontage space (after deducting existing or proposed access driveways), the SWMMP must include justification of reasons why a bulk bin service should not be provided. That justification must include an analysis of the likely amenity, pedestrian, cycle and traffic impacts of the proposed kerbside/ road frontage bin storage and collection arrangements on pickup day. The analysis must address visual impacts, amenity impacts, pedestrian and cycle impacts and impacts on parking and traffic movement on adjoining roads. In those circumstances Council is unlikely to approve a kerbside pickup service for the development unless it considers that those impacts are likely to be not significant.

Where collection is proposed other than by Council's kerbside pickup service, the SWMMP and development application must specify and illustrate in a site plan drawn to a readily legible scale:

1. The proposed bin storage location, dimensions, pickup vehicle access and manoeuvring arrangements.
2. The proposed means of ensuring that the pickup vehicle can enter and exit the site in a forward direction and can manoeuvre safely on site, consistent with the requirements of Part G - Vehicle Circulation and Parking of this DCP.

Prescriptive Measures

There are no Prescriptive Measures for this Element.

F4 SPECIFIC DEVELOPMENT CRITERIA

F4.1 Element – Single & Semi Detached Dwellings & Dual Occupancy

Element Objectives

1. To encourage source separation of waste, reuse, and recycling by ensuring appropriate storage and collection facilities for waste, and quality design of waste facilities.
2. To maximise reuse and recycling of materials.
3. To minimise waste generation.
4. To ensure appropriate collection and storage of waste.
5. To minimise the environmental impacts associated with waste management.
6. To avoid illegal dumping

Performance Criteria

There are no Performance Criteria for this Element.

Prescriptive Measures

A Site Waste Minimisation and Management Plan (SWMMP) must be submitted with development applications. Plans submitted with the development application and SWMMP must show:

1. The location of an indoor waste/recycling cupboard (or other appropriate storage space) for each dwelling.
2. The location of an onsite waste/recycling storage area for each dwelling, that is of sufficient size to accommodate Council's waste and recycling bins. Indicative bin sizes are shown in **Appendix B - Indicative Bin Sizes**.
3. An identified kerbside collection point for the collection and emptying of Council's waste and recycling bins.

The SWMMP must:

- i. Identify arrangements for waste container storage in a suitable location so as to avoid vandalism, nuisance and adverse visual impacts.
- ii. Demonstrate that any designated area for composting is not likely to adversely impact on adjoining properties.
- iii. Where possible, locate the waste/recycling storage area in the rear yard and minimise the distance of travel to the collection point.
- iv. Demonstrate that the waste storage area will be easily accessible and will have unobstructed access to Council's usual collection point.
- v. Demonstrate that there will be sufficient space within the kitchen (or an alternate location) for the interim storage of waste and recyclables.
- vi. Demonstrate that the placement of bins for collection at the nominated collection point will ensure that adequate traffic and pedestrian safety is maintained.

Note 1: It is the responsibility of dwelling occupants to move bins to the identified collection point no earlier than the evening before collection day and to then return the bins to their storage area no later than the evening of collection day. Bins must remain in their on-site storage area at all other times.

Note 2: There is a general trend towards recycling of food and garden waste, either via on site processes such as composting, worm farms or mulching, or via kerbside collections for garden waste or food and garden waste. Consideration should be given to provision of sufficient space in the waste storage area (or suitable alternate location) for a food/garden waste recycling bin and or a compost bin/worm farm.

Service options available to Single Dwellings, Semi-Detached and Dual Occupancy are described in **Appendix F - Waste and Recycling Collection Service Options.**

F4.2 Element – Multi Dwelling Housing & Residential Flat Buildings

Element Objectives

1. *To encourage source separation of waste, reuse, and recycling by ensuring appropriate storage and collection facilities for waste, and quality design of waste facilities.*
2. *To ensure appropriate waste storage and collection facilities.*
3. *To maximise source separation and recovery of recyclables.*
4. *To ensure waste management systems are as intuitive for occupants as possible and are readily accessible.*
5. *To ensure appropriate resourcing of waste management systems, including servicing.*
6. *To minimise risk to health and safety associated with handling and disposal of waste and recycled material, and ensure optimum hygiene.*
7. *To minimise adverse environmental impacts associated with waste management.*
8. *To discourage illegal dumping by providing on site storage, and removal services.*

Performance Criteria

There are no Performance Criteria for this Element.

Prescriptive Measures

A Site Waste Minimisation and Management Plan (SWMMP) must be submitted with development applications. Plans submitted with the development application and SWMMP must show:

1. The location of an indoor waste/recycling cupboard (or other appropriate storage space) for each dwelling.
2. The location of individual waste/recycling storage areas (such as for townhouses and villas) or a communal waste/recycling storage room(s) able to accommodate Council's waste and recycling bins.
3. The location of any interim storage facilities for recyclable materials.
4. The location of any waste compaction equipment.
5. An identified location for individual compost containers or communal compost container.
6. An identified collection point for the collection and emptying of Council's waste and recycling bins.
7. The path of travel for moving bins from the storage area to the identified collection point (if collection is to occur away from the storage area).
8. The on-site path of travel for collection vehicles (if collection is to occur on-site), taking into account accessibility, width, height and grade.

The SWMMP must address and demonstrate that the following criteria and outcomes will be achieved:

Systems must be designed to maximise source separation and recovery of recyclables.

Waste management systems must be designed and operated to prevent the potential risk or injury or illness associated with the collection, storage and disposal of wastes.

The following minimum collection and storage facilities must be provided:

- i. Each dwelling unit must be provided with an indoor waste/recycling cupboard (or other appropriate storage space) for the interim storage of a minimum one day's garbage and recycling generation.

- ii. Residential flat buildings must include communal waste/recycling storage facilities in the form of a waste/recycling storage room (or rooms) designed in accordance with **Appendix C - Waste Recycling/Storage Rooms in Multi- Dwelling Housing** and the *Better Practice Guide for Waste Management in Multi-Unit Dwellings*.
- iii. Multi Dwelling housing in the form of townhouses and villas must include either individual waste/recycling storage areas for each dwelling or a communal facility in the form of a waste/recycling storage room (or rooms) designed in accordance with **Appendix C - Waste Recycling/Storage Rooms in Multi- Dwelling Housing** and the *Better Practice Guide for Waste Management in Multi-Unit Dwellings*.
- iv. The waste/recycling storage area(s) or room(s) must be of a size that can comfortably accommodate separate garbage, recycling and garden waste containers at the rate of Council provision.
- v. For multi-storey developments that include ten or more dwellings, a dedicated room or caged area must be provided for the temporary storage of discarded bulky items which are awaiting removal. The storage area must be readily accessible to all residents and must be located close to the main waste storage room or area.

The following location and design criteria apply to collection and storage facilities:

- a) In townhouse and villa developments with individual waste/recycling storage areas, such areas must be located and designed in a manner which reduces adverse impacts upon neighbouring properties and upon the appearance of the premises.
- b) There must be an unobstructed and Continuous Accessible Path of Travel (as per *Australian Standard 1428 Design for Access and Mobility - 2001*) from the waste/recycling storage area(s) or room(s) to:
 - i. the entry to any Adaptable Housing (as per *Australian Standard 4299 Adaptable Housing - 1995*)
 - ii. the principal entrance to each residential flat building
 - iii. the point at which bins are collected/emptied.

In instances where a proposal does not comply with these requirements, Council will consider alternative proposals that seek to achieve a reasonable level of access to waste/recycling storage area(s) or room(s).

- c) Communal waste storage areas must have adequate space to accommodate and manoeuvre Council's required number of waste and recycling containers.
- d) Each service room and storage area must be located for convenient access by users and must be well ventilated and well lit.
- e) Where site characteristics, number of bins and length of street frontage allow, bins may be collected from a kerbside location. In instances where kerbside bin collection is not appropriate, bins must be collected onsite. Bins that are collected onsite must be collected either from their usual storage point or from an onsite temporary holding area located inside the property boundary and close to a property entrance.
- f) Where bins cannot be collected from a kerbside location or from a temporary holding area located immediately inside the property boundary, the development must be designed to allow for on-site access by garbage collection vehicles (of dimensions detailed at **Appendix D - Garbage Truck Dimensions for Residential Waste Collection**). In these instances, the site must be configured so as to allow collection vehicles to enter and exit the site in a forward direction and so that collection vehicles do not impede general access to, from or within the site. Access driveways to be used by collection vehicles must be of sufficient strength to support such vehicles. All access design must be consistent with the requirements of Chapter B4 - Traffic Planning, Vehicle Circulation and Parking of this DCP.

Note: As a minimum requirement for collection vehicle access, Council will require indemnity against claims for loss or damage to the pavement or other driving surface. Council may also

require indemnity against liabilities, losses, damages and any other demands arising from any on-site collection service. In all cases, a hazard assessment will need to be conducted prior to Council agreeing to undertake the service.

Should a collection vehicle be required to enter a property, access driveways and internal roads must be designed in accordance with *Australian Standard 2890.2 Parking Facilities – Off-Street Commercial Vehicle Facilities – 2002*, and must comply with the provisions of Chapter B4 - Traffic Planning, Vehicle Circulation and Parking of this DCP.

- g) If Council waste collectors and/or waste collection vehicles are required to enter a site for the purpose of emptying bins, then site specific arrangements must be in place.
- h) If bins need to be moved from normal storage areas to a different location for collection purposes, it is the responsibility of agents of the owners' corporation to move the bins to the collection point no earlier than the evening before collection day and to then return the bins to their storage areas no later than the evening of collection day. Bins must remain in their on-site storage areas at all other times.
- i) Residents must have access to a cold water supply for the cleaning of bins and the waste storage areas. Storage areas must be constructed and designed to be weather proof and easy to clean, with wastewater discharged to sewer.
- j) The design and location of waste storage areas/facilities must be such that they complement the design of both the development and the surrounding streetscape.

The SWMMP must include measures to ensure that agents of the owners' corporation will take responsibility for the management of waste and recyclable materials generated upon the site. Arrangements must be in place in regards to the management, maintenance and cleaning of all waste/recycling management facilities.

Note: There is a general trend towards recycling of food and garden waste, either via on site processes such as composting, worm farms or mulching, or via kerbside collections for garden waste or food and garden waste. This can be difficult to manage in a Multi Dwelling complex, particularly where communal bin storage areas are used and bins are shared. Consideration should be given to provision of an individual compost container for each dwelling (such as in townhouse and villa developments) or for a communal compost container; the siting of which will have regard to potential amenity impacts.

Service options available to Multi-Unit Dwellings are described in **Appendix F - Waste and Recycling Collection Service Options.**

F4.3 Element – Commercial & Retail Development

Element Objectives

1. *To specify recycling and waste management criteria that apply to development to which Section D4 - Commercial and Retail Development of this DCP applies.*
2. *To ensure that new developments and changes to existing developments are designed to maximise resource recovery (through waste avoidance, source separation and recycling); and to ensure that appropriate well-designed storage and collection facilities are accessible to occupants and service providers.*
3. *To ensure appropriate waste storage and collection facilities.*
4. *To maximise source separation and recovery of recyclables.*
5. *To ensure that waste management systems are as intuitive for occupants as possible and readily accessible to occupants and service providers.*
6. *To ensure appropriate resourcing of waste management systems, including servicing.*
7. *To minimise risk to health and safety associated with handling and disposal of waste and recycled material and ensure optimum hygiene.*
8. *To minimise adverse environmental impacts associated with waste management.*

9. To discourage illegal dumping by providing on site storage, and removal services.

Performance Criteria

There are no Performance Criteria for this Element.

Prescriptive Measures

This Element applies to development to which Section D4 - Commercial and Retail Development of this DCP applies.

A Site Waste Minimisation and Management Plan (SWMMP) must be submitted with development applications. Plans submitted with the development application and SWMMP must show:

1. The location of the designated waste and recycling storage room(s) or areas, sized to meet the waste and recycling needs of all tenants.
2. The location of temporary waste and recycling storage areas within each tenancy. These are to be of sufficient size to store a minimum of one day's worth of waste.
3. An identified collection point for the collection and emptying of waste, recycling and garden waste bins.
4. The path of travel for moving bins from the storage area to the identified collection point (if collection is to occur away from the storage area).
5. The on-site path of travel for collection vehicles (if collection is to occur on-site).

The SWMMP must address and demonstrate that the following criteria and outcomes will be achieved:

- i. There must be convenient access from each tenancy to the waste/recycling storage room(s) or area(s). There must be step-free access between the point at which bins are collected/emptied and the waste/recycling storage room(s) or area(s).
- ii. Every development must include a designated waste/recycling storage area or room(s) (designed in accordance with **Appendix E - Commercial/Industrial Waste and Recycling Storage Areas**).
- iii. Depending upon the size and type of the development, it may be necessary to include a separate waste/recycling storage room/area for each tenancy.
- iv. All commercial tenants must keep written evidence on site of a valid contract with a licensed waste contractor for the regular collection and disposal of the waste and recyclables that are generated on site.
- v. Between collection periods, all waste/recyclable materials generated on site must be kept in enclosed bins with securely fitting lids so the contents are not able to leak or overflow. Bins must be stored in the designated waste/recycling storage room(s) or area(s).
- vi. Arrangements must be in all parts of the development for the separation of recyclable materials from general waste. Arrangements must be in all parts of the development for the movement of recyclable materials and general waste to the main waste/recycling storage room/area. For multiple storey buildings, this might involve the use of a goods lift.
- vii. The waste/recycling storage room/area must be able to accommodate bins that are of sufficient volume to contain the quantity of waste generated (at the rate described in **Appendix B - Waste/Recycling Generation Rates**) between collections.
- viii. The waste/recycling storage room/area must provide separate containers for the separation of recyclable materials from general waste. Standard and consistent signage on how to use the waste management facilities should be clearly displayed.
- ix. The type and volume of containers used to hold waste and recyclable materials must be compatible with the collection practices of the nominated waste contractor.
- x. Waste management facilities must be suitably enclosed, covered and maintained so as to prevent polluted wastewater runoff from entering the stormwater system.

- xi. Where possible, waste/recycling containers should be collected from a rear lane access point. The servicing location and methodology shall minimise adverse impacts upon residential amenity, pedestrian movements and vehicle movements.
- xii. The size and layout of the waste/recycling storage room/area must be capable of accommodating reasonable future changes in use of the development.
- xiii. A waste/recycling cupboard must be provided for each and every kitchen area in a development, including kitchen areas in hotel rooms, motel rooms and staff food preparation areas. Each waste/recycling cupboard must be of sufficient size to hold a minimum of a single day's waste and to hold separate containers for general waste and recyclable materials.
- xiv. Premises which generate at least 240 litres per week of meat, seafood, poultry or food waste must have that waste collected in mobile garbage bins (wheelie bins) at least twice weekly or must store that waste in a dedicated and refrigerated waste storage area until collection.
- xv. Arrangements must be in place regarding the regular maintenance and cleaning of waste management facilities. Tenants and cleaners must be aware of their obligations in regards to these matters.

Service options available to Commercial Developments are described in **Appendix F - Waste and Recycling Collection Service Options**.

F4.4 Element – Mixed Use Development

Element Objectives

1. *To ensure that new developments and changes to existing development are designed to maximise resource recovery (through waste avoidance, source separation and recycling) and to ensure appropriate, well-designed storage and collection facilities are accessible to occupants and service providers.*
2. *To ensure appropriate waste storage and collection facilities.*
3. *To maximise source separation and recovery of recyclables.*
4. *To ensure waste management facilities are safely and easily accessible to occupants and service providers.*
5. *To ensure appropriate resourcing of waste management systems, including servicing.*
6. *To minimise risk to health and safety associated with handling and disposal of waste and recycled material and ensure optimum hygiene.*
7. *To minimise adverse environmental impacts associated with waste management.*
8. *To discourage illegal dumping by providing on site storage, and removal services.*

Performance Criteria

There are no Performance Criteria for this Element.

Prescriptive Measures

This Element applies to Mixed Use Development (as defined by Byron LEP 2010).

A Site Waste Minimisation and Management Plan (SWMMP) must be submitted with development applications. The SWMMP must address and demonstrate that the following criteria and outcomes will be achieved:

1. The provisions of Element F4.2 – Multi Dwelling Housing & Residential Flat Buildings apply to the residential component of mixed use development.
2. The provisions of Element F4.3 – Commercial & Retail Development apply to the non-residential component of mixed use development.

3. Mixed Use development must incorporate separate and self-contained waste management systems for the residential component and the non-residential component. In particular, the development must incorporate separate waste/recycling storage rooms/areas for the residential and non-residential components. Commercial tenants must be prevented (via signage and other means), from using the residential waste/recycling bins and vice versa.
4. The residential waste management system and the non-residential waste management system must be designed so that they can efficiently operate without conflict. Conflict may potentially occur between residential and non-residential storage, collection and removal systems, and between these systems and the surrounding land uses. For example, collection vehicles disrupting peak residential and commercial traffic flows or causing noise issues when residents are sleeping.

Service options available to Mixed Use Development are described in **Appendix F - Waste and Recycling Collection Service Options**.

F4.5 Element – Industrial Development

Element Objectives

1. *To ensure that new developments and changes to existing developments are designed to maximise resource recovery (through waste avoidance, source separation and recycling) and to ensure appropriate, well-designed storage and collection facilities are accessible to occupants and service providers.*
2. *To ensure appropriate waste storage and collection facilities.*
3. *To maximise source separation and recovery of recyclables.*
4. *To ensure that waste management facilities are as intuitive for occupants as possible and readily accessible to occupants and service providers.*
5. *To ensure appropriate resourcing of waste management systems, including servicing.*
6. *To minimise risk to health and safety associated with handling and disposal of waste and recycled material and ensure optimum hygiene.*
7. *To minimise adverse environmental impacts associated with waste management.*
8. *To discourage illegal dumping by providing on site storage, and removal services.*

Performance Criteria

There are no Performance Criteria for this Element.

Prescriptive Measures

This Element applies to Industrial and other Development referred to in Section D5 – Industrial Development of this DCP.

A Site Waste Minimisation and Management Plan (SWMMP) must be submitted with development applications. Plans submitted with the SWMMP must show:

1. The location of designated waste and recycling storage room(s) or areas sized to meet the waste and recycling needs of all tenants. Waste should be separated into at least 3 streams, paper/cardboard & recyclables, general waste, industrial process type wastes.
2. The on-site path of travel for collection vehicles.

The SWMMP must address and demonstrate that the following criteria and outcomes will be achieved:

- i. The SWMMP must provide evidence of compliance with any specific industrial waste laws/protocols. For example, those related to production, storage and disposal of industrial and hazardous wastes as defined by the *Protection of the Environment Operations Act 1997*.

- ii. There must be convenient access from each tenancy and/or larger waste producing area of the development to the waste/recycling storage room(s) or area(s). There must be step-free access between the point at which bins are collected/emptied and the waste/recycling storage room(s) or area(s).
- iii. Every development must include a designated general waste/recycling storage area or room(s) (designed in accordance with **Appendix E - Commercial/ Industrial Waste & Recycling Storage Areas**), as well as designated storage areas for industrial waste streams (designed in accordance with specific waste laws/protocols).
- iv. Depending upon the size and type of the development, it might need to include separate waste/recycling storage room/area for each tenancy and/or larger waste producing areas.
- v. All tenants must keep written evidence on site of a valid contract with a licensed waste contractor for the regular collection and disposal of all the waste streams and recyclables which are generated on site.
- vi. Between collection periods, all waste/recyclable materials generated on site must be kept in enclosed bins with securely fitted lids so the contents are not able to leak or overflow. Bins must be stored in the designated waste/recycling storage room(s) or area(s).
- vii. Arrangements must be in place in all parts of the development for the separation of recyclable materials from general waste. Arrangements must be in place in all parts of the development for the movement of recyclable materials and general waste to the main waste/recycling storage room/area.
- viii. The waste/recycling storage room/areas must be able to accommodate bins that are of sufficient volume to contain the quantity of waste generated between collections.
- ix. The type and volume of containers used to hold waste and recyclable materials must be compatible with the collection practices of the nominated waste contractor.
- x. Waste management storage rooms/areas must be suitably enclosed, covered and maintained so as to prevent polluted wastewater runoff from entering the stormwater system.
- xi. A waste/recycling cupboard must be provided for each and every kitchen area in the development. Each waste/recycling cupboard must be of sufficient size to hold a minimum of a single day's waste and to hold separate containers for general waste and recyclable materials.
- xii. Arrangements must be in place regarding the regular maintenance and cleaning of waste management facilities. Tenants and cleaners must be aware of their obligations in regards to these matters.
- xiii. Production, storage and disposal of hazardous wastes (such as contaminated or toxic material or products) require particular attention. The appropriate laws and protocols must be observed.

Service options available to Industrial Developments are described in **Appendix F - Waste and Recycling Collection Service Options**.

APPENDIX A SITE WASTE MINIMISATION AND MANAGEMENT PLAN TEMPLATE (SWMMP)

NOTE: The level of detail required for the Site Waste Minimisation and Management Plan (SWMMP) will vary with the size and complexity of the proposed development. For example, a DA seeking consent for a single dwelling house would normally require a very simple SWMMP, while a DA seeking consent for a large commercial or industrial complex is likely to require an extensive SWMMP that documents full details of proposed waste generation, management, recycling, storage and disposal measures.

Applicant and Project Details (All Developments)

Applicant Details

Application No.	
Name	
Address	
Phone number(s)	
Email	

Project Details

Address of development	
Existing buildings and other structures currently on the site	
Description of proposed development	
<i>This development achieves the waste objectives set out in the DCP. The details on this form are the provisions and intentions for minimising waste relating to this project. All records demonstrating lawful disposal of waste will be retained and kept readily accessible for inspection by regulatory authorities such as council, DECC or WorkCover NSW.</i>	
Name	
Signature	
Date	

Demolition (All Types of Developments)

Address of development: _____

Refer to Section F3.1 of the DCP for objectives regarding demolition waste.

most favourable



least favourable

	<i>Reuse</i>	<i>Recycling</i>	<i>Disposal</i>	
Type of waste generated	Estimate Volume (m³) or Weight (t)	Estimate Volume (m³) or Weight (t)	Estimate Volume (m³) or Weight (t)	Specify method of on site reuse, contractor and recycling outlet and /or waste depot to be used
Excavation material				
Timber (specify)				
Concrete				
Bricks/pavers/tiles				
Metal (specify)				
Glass				
Furniture				
Fixtures and fittings				
Floor coverings				
Packaging (used pallets, pallet wrap)				
Garden organics				
Containers (cans, plastic, glass)				
Paper/cardboard				
Residual waste				
Hazardous/asbestos waste (specify)				
Other (specify)				

Construction (All Types of Developments)

Address of development: _____

Refer to Section F3.2 of the DCP for objectives regarding construction

most favourable



least favourable

	<i>Reuse</i>	<i>Recycling</i>	<i>Disposal</i>	
<i>Type of waste generated</i>	<i>Estimate Volume (m³) or Weight (t)</i>	<i>Estimate Volume (m³) or Weight (t)</i>	<i>Estimate Volume (m³) or Weight (t)</i>	<i>Specify method of on site reuse, contractor and recycling outlet and/or waste depot to be used</i>
Excavation material				
Timber (specify)				
Concrete				
Bricks				
Tiles				
Metal (specify)				
Glass				
Plasterboard (offcuts)				
Fixtures and fittings				
Floor coverings				
Packaging (used pallets, pallet wrap)				
Garden organics				
Containers (cans, plastic, glass)				
Paper/cardboard				
Residual waste				
Hazardous/special waste (specify)				

Ongoing Operation (Residential, Multi Unit, Commercial, Mixed Use and Industrial)

Address of development: _____

Show the total volume of waste expected to be generated by the development and the associated waste storage requirements.

	<i>Recyclables</i>		<i>Compostables</i>	<i>Residual waste*</i>	<i>Other</i>
	<i>Paper/ cardboard</i>	<i>Metals/ plastics/glas s</i>			
Amount generated (L per unit per day)					
Amount generated (L per development per week)					
Any reduction due to compacting equipment					
Frequency of collections (per week)					
Number and size of storage bins required					
Floor area required for storage bins (m ²)					
Floor area required for manoeuvrability (m ²)					
Height required for manoeuvrability (m)					

* Current “non-recyclables” waste generation rates typically include food waste that might be further separated for composting.

Plans and Drawings (All Developments)

The following checklists are designed to help ensure SWMMPs are accompanied by sufficient information to allow assessment of the application.

Drawings are to be submitted to scale, clearly indicating the location of and provisions for the storage and collection of waste and recyclables during:

- demolition
- construction
- ongoing operation.

Demolition

Refer to Section F3.1 of the DCP for specific objectives and measures. Do the site plans detail/indicate:

	<i>Tick Yes</i>
Size and location(s) of waste storage area(s)	
Access for waste collection vehicles	
Areas to be excavated	
Types and numbers of storage bins likely to be required	
Signage required to facilitate correct use of storage facilities	

Construction

Refer to Section F3.2 of the DCP for specific objectives and measures. Do the site plans detail/indicate:

	<i>Tick Yes</i>
Size and location(s) of waste storage area(s)	
Access for waste collection vehicles	
Areas to be excavated	
Types and numbers of storage bins likely to be required	
Signage required to facilitate correct use of storage facilities	

Ongoing Operation

Refer to Section F4 of the DCP for specific objectives and measures. Do the site plans detail/indicate:

	<i>Tick Yes</i>
Space	
Size and location(s) of waste storage areas	
Recycling bins placed next to residual waste bins	
Space provided for access to and the manoeuvring of bins/equipment	
Any additional facilities	
Access	
Access route(s) to deposit waste in storage room/area	
Access route(s) to collect waste from storage room/area	
Bin carting grade	
Location of final collection point	
Clearance, geometric design and strength of internal access driveways and roads	
Direction of traffic flow for internal access driveways and roads	
Amenity	
Aesthetic design of waste storage areas	
Signage – type and location	
Construction details of storage rooms/areas (including floor, walls, doors, ceiling design, sewer connection, lighting, ventilation, security, wash down provisions etc)	

APPENDIX B WASTE/ RECYCLING GENERATION RATES

Construction Waste

'Rule of Thumb' for renovations and small home building

- Timber 5-7% of material ordered
- Plasterboard 5-20% of material ordered
- Concrete 3-5% of material ordered
- Bricks 5-10% of material ordered
- Tiles 2-5% of material ordered

Source: *Waste Planning Guide for Development Application, Inner Sydney Waste Board, 1998*

Ongoing Operation

<i>Premises type</i>	<i>Waste generation</i>	<i>Recyclable material generation</i>
Backpackers' Hostel	40L/occupant space/week	20L/occupant space/week
Boarding House, Guest House	60L/occupant space/week	20L/occupant space/week
Food premises: Butcher Delicatessen Fish Shop Greengrocer Restaurant, Café Supermarket Takeaway food shop	80L/100m ² floor area/day 80L/100m ² floor area/day 80L/100m ² floor area/day 80L/100m ² floor area/day 240L/100m ² floor area/day 10L/1.5m ² floor area/day 240L/100m ² floor area/day 80L/100m ² floor area/day	Variable Variable Variable 120L/100m ² floor area/day 2L/1.5m ² floor area/day 240L/100m ² floor area/day Variable
Hairdresser, Beauty Salon	60L/100m ² floor area/week	Variable
Hotel, Licensed Club, Motel	5L/bed space/day 50L/100m ² bar area/day 10L/1.5m ² dining area/day	1L/bed space/day 50L/100m ² bar area/day 50L/100m ² dining area/day
Offices	10L/100m ² floor area/day	10L/100m ² floor area/day
Shop less than 100m ² floor area Shop greater than 100m ² floor area	50L/100m ² floor area/day 50L/100m ² floor area/day	25L/100m ² floor area/day 50L/100m ² floor area/day
Showroom	40L/100m ² floor area/day	10L/100m ² floor area/day

Multi-Unit Dwellings ¹	80L/unit/week	40L/unit/week
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Sources: Adapted from *Waverley Council Code for the Storage and Handling of Waste*.

¹ Appendix A, *Better Practice Guide For Waste Management In Multi-Unit Dwellings 2007*

INDICATIVE BIN SIZES

<i>Bin type</i>	<i>Height</i>	<i>Depth</i>	<i>Width</i>
80 Litre Bin	870mm	530mm	450mm
120 Litre Bin	940mm	560mm	485mm
140 Litre Bin	1065mm	540mm	500mm
240 Litre Bin	1080mm	735mm	580mm
1 cubic metre	1400 mm	900 mm	900 mm
1.5 cubic metre	2000 mm	900 mm	900 mm
2 cubic metre	2000 mm	1200 mm	900 mm
3 cubic metre	2000 mm	1400 mm	1200 mm
4.5 cubic metre	2040mm	1470 mm	1800mm

Note: These dimensions are only a guide and differ slightly according to manufacturer, if bins have flat or dome lids or are used with different lifting devices.

APPENDIX C WASTE RECYCLING/STORAGE ROOMS IN MULTI DWELLING HOUSING

Building Code of Australia

Waste/recycling storage rooms must be constructed in accordance with the requirements of the *Building Code of Australia (BCA)*.

Location and Appearance

- Waste/recycling storage rooms must be integrated into the design of the overall development. It is preferable that such rooms be located behind the front building line. Wherever possible, the room should be in a basement location within the main building envelope (rather than a separate stand-alone structure). Materials and finishes visible from outside should be similar in style and quality to the external materials used in the rest of the development.
- Waste/recycling storage rooms must be located and designed in a manner that reduces adverse impacts upon the inhabitants of any dwellings on the site and upon neighbouring properties. The location and design of the room should minimise adverse impacts associated with:
 - the proximity of the room to any dwellings
 - the visibility of the room
 - noise generated by any equipment located within the room
 - noise generated by the movement of bins into and out of the room
 - noise generated by collection vehicles accessing the site; and
 - odours emanating from the room.

Size

- Waste/recycling storage rooms must be of adequate size to comfortably accommodate all waste and recycling bins associated with the development.

Layout

- The gradient of waste/recycling storage room floors and the gradient of any associated access ramps must be sufficiently level so that access for the purpose of emptying containers can occur in accordance with WorkCover NSW Occupational Health and Safety requirements.
- Within waste/recycling storage rooms, containers used for the storage of recyclable materials should be kept separate from (but close to) general waste containers — so that the potential for contamination of recyclable materials is minimised.

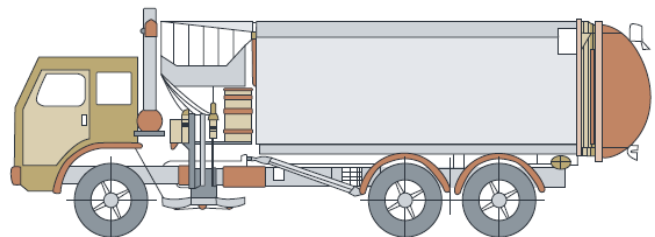
APPENDIX D GARBAGE TRUCK DIMENSIONS FOR RESIDENTIAL WASTE COLLECTION

This page includes information regarding the dimensions of garbage trucks that are typically used for the collection of residential waste. Developments that require Council garbage trucks to enter the site for the collection of residential waste must be designed to accommodate on-site truck movement.

Requirements regarding vehicle turning circles and driveway width/gradient are contained in *Australian Standard 2890.2 2002/Planning Facilities — off street commercial vehicles*.

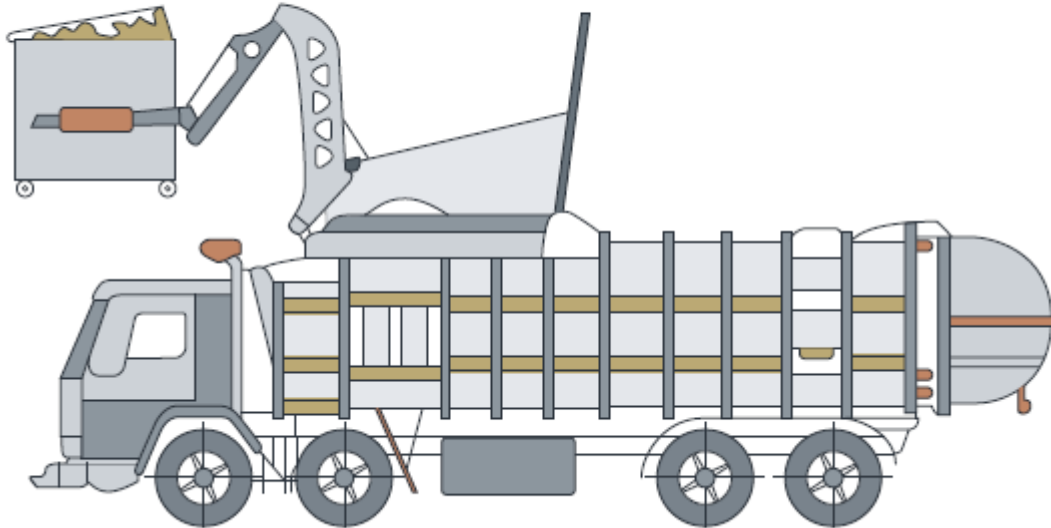
It is recommended that an applicant speak with Council's Waste Services Coordinator in regards to the design of development proposals that involve garbage trucks entering the site. Services will not be provided where there are undue risks.

Side-loading collection vehicle	
Length overall	9.64m
Front overhang	1.51m
Wheelbase	5.20m
Rear overhang	2.93m
Turning circle kerb to kerb	17.86m
Turning circle wall to wall	20.56m
Front of vehicle to collection arm	3.8m
Maximum reach of side arm	3.0m
Travel height	3.63m
Clearance height for loading	3.9m



This is the most commonly used vehicle for domestic garbage and recycling collections. It is only suitable for collecting MGBs up to 360 litres in size.

Front-lift loading collection vehicle



Front-lift loading collection vehicle	
Length overall	10.52m
Front overhang	1.51m
Wheelbase	5.84m
Rear overhang	3.17m
Turning circle kerb to kerb	22.10m
Turning circle wall to wall	23.66m
Travel height	3.82m
Clearance height for loading	6.1m

This is mainly used for collecting commercial and industrial waste, and is only suitable for bulk bins with front lift pockets (not MGBs).

Source of diagram: *Better Practice Guide for Waste Management in Multi-Unit Dwellings, DECC 2008.*

APPENDIX E COMMERCIAL/ INDUSTRIAL WASTE & RECYCLING STORAGE AREAS

Building Code of Australia

- Waste/recycling storage areas must be constructed in accordance with the requirements of the Building Code of Australia (BCA).

Location and appearance

- Waste/recycling storage areas must be integrated into the design of the overall development. Materials and finishes that are visible from outside should be similar in style and quality to the external materials used in the rest of the development.
- Waste/recycling storage areas must be located and designed in a manner that reduces adverse impacts upon neighbouring properties and the streetscape. The location and design of the areas should minimise adverse impacts associated with:
 - the proximity of the area to dwellings
 - the visibility of the area
 - noise generated by any equipment located within the area
 - noise generated by the movement of bins into and out of the area
 - noise generated by collection vehicles accessing the site; and
 - odours emanating from the area.

Size

- Waste/recycling storage areas must be of adequate size to comfortably accommodate all waste and recycling bins associated with the development.
- Waste/recycling storage areas must be able to accommodate separate general waste bins and recycling bins which are of sufficient volume to contain the quantity of waste generated (at the rate described in **Appendix B**) between collections.

Layout

- The gradient of waste/recycling storage area floors and the gradient of any associated access ramps must be sufficiently level so that access for the purpose of emptying containers can occur in accordance with WorkCover NSW Occupational Health and Safety requirements.
- Within waste/recycling storage areas, containers used for the storage of recyclable materials should be kept separate from (but close to) general waste containers — so that the potential for contamination of recyclable materials is minimised.

Access: waste/recycling collection

- The development must be designed to allow access by collection vehicles used by the nominated waste contractor. Wherever possible, the site must be configured to allow collection vehicles to enter and exit the site in a forward direction and so collection vehicles do not impede general access to, from and within the site. Access driveways to be used by collection vehicles must be of sufficient strength to support such vehicles.
- Servicing arrangements for the emptying of bins must be compatible with the operation of any other loading/unloading facilities on-site.

- Access for the purpose of emptying waste/recycling storage containers must be able to occur in accordance with WorkCover NSW Occupational Health and Safety requirements.

Access: general

- In commercial development, public buildings and industrial development, there must be convenient access from each tenancy to the waste/recycling storage area(s). There must be step-free access between the point at which bins are collected/emptied and the waste/recycling storage area(s).
- Arrangements must be in place so that the waste/recycling storage area is not accessible to the general public.
- Vermin must be prevented from entering the waste/recycling storage area.

Surfaces

- Waste/recycling storage areas must have a smooth, durable floor and must be enclosed with durable walls/fences that extend to the height of any containers which are kept within.

Doors/gates

- Doors/gates to waste/recycling storage areas must be durable. There must be a sign adjacent to the door/gate that indicates that the door/gate is to remain closed when not in use. All doors/gates are to be openable from both inside and outside the storage area and must be wide enough to allow for the easy passage of waste/recycling containers.

Services

- Waste/recycling storage areas must be serviced by hot and cold water provided through a centralised mixing valve. The hose cock must be protected from the waste containers and must be located in a position that is easily accessible when the area is filled with waste containers.
- The floor must be graded so that any water is directed to a sewer authority approved drainage connection located upon the site. In the SMA this is Sydney Water.

Signage

- Waste/recycling storage areas must include signage that clearly describes the types of materials that can be deposited into recycling bins and general garbage bins.

Management

- Arrangements must be in place for the regular maintenance and cleaning of waste/recycling storage areas. Waste/recycling containers must only be washed in an area which drains to a sewer authority approved drainage connection. In the SMA this is Sydney Water.

The *Better Practice Guide for Waste Management in Multi-Unit Dwellings* gives detailed information about waste recycling/storage rooms and facilities. The Guide was substantially reviewed in 2007 and is available on the Department of Environment and Climate Change NSW website (www.environment.nsw.gov.au). Further updates will be published as further information from social research and waste stream audits becomes available.

APPENDIX F WASTE & RECYCLING COLLECTION SERVICE OPTIONS

1. Urban Residential (Single Dwellings, Semi-Detached and Dual Occupancy)

Includes the following locations that receive the Council Urban weekly waste collection service: Bangalow, Bayside Brunswick, Belongil, Billinudgel (town only), Brunswick Heads, Byron Bay, Byron Hills, Ewingsdale, Mullumbimby, New Brighton, Ocean Shores, South Golden Beach, Suffolk Park, Wategos Beach. (Applicants are to confirm service category)

<i>Bin type</i>	<i>Bin Size</i>	<i>Collection Frequency</i>	<i>Bin Collected From</i>
Waste (Red Lid)	80 Litre Bin	Weekly	Kerbside
Waste (Red Lid)	140 Litre Bin	Weekly	Kerbside
Waste (Red Lid)	240 Litre Bin	Weekly	Kerbside
Recycling (Yellow Lid)	240 Litre Bin	Fortnightly	Kerbside

Conditions

- Service is **compulsory** and each rateable property (assessment) will be charged for a service.
- Where two dwellings are located on one property (Dual Occupancy and or Semi Detached) and are rated as a single rates assessment, sharing of bins is permissible unless other arrangements are required as a condition of consent.
- Waste and recycling bins are supplied and maintained by Council and remain the property of Council.
- Only the owner of a property or their agent can request a new service or a change in the size of a waste bin.
- Bins must be used for the purpose provided. Items accepted in Council's recycling program must not be placed in the red lidded waste bin. Non-recyclable waste must not be placed in the yellow lidded recycling bins.

2. Rural Residential (All Residential Dwelling Types including Single Dwelling, Semi-Detached, Dual Occupancy, Multiple Occupancy)

Includes premises in the Rural Waste Collection area.

Note: Some areas can not be accessed by waste and recycling collection trucks. (Applicants are to confirm service category)

<i>Bin type</i>	<i>Bin Size</i>	<i>Collection Frequency</i>	<i>Bin Collected From</i>
Waste (Red Lid)	240 Litre Bin	Fortnightly	Kerbside
Recycling (Yellow Lid)	240 Litre Bin	Fortnightly	Kerbside

Conditions

- The Rural Service is **optional** for rural properties in the rural waste collection area unless other arrangements are required as a condition of consent.
- Waste and recycling bins are supplied and maintained by Council and remain the property of Council.
- Only the owner of a property or their agent can request or cancel a service.
- Bins must be used for the purpose provided. Items accepted in Council's recycling program must not be placed in the red lidded waste bin. Non-recyclable waste must not be placed in the yellow lidded recycling bins.
- Owners of properties located in the Rural Waste Collection Area that choose not have a waste and recycling service may be required to provide evidence of appropriate lawful disposal of waste generated at the premises.

3. Multi Unit Dwellings (Town Houses, Flats and Villas)

Multi Unit Dwelling Complexes (MUDS) have two options for waste and recycling services. Option 1 is a shared bin arrangement utilizing communal bin storage areas each catering for at least 2 units. Option 2 requires allocation of a waste and recycling bin to each unit and storage of bins in individual waste/recycling storage areas.

For new developments, the applicant must determine and include in the SWMMP the preferred option for waste and recycling services.

The number of bins required at each complex shall be determined in accordance with the generation rates for Waste and Recyclables for Multi Unit Dwellings in Appendix B. **Note:** These rates are the minimum requirement

3a. MUDS - Option 1 Shared Bin Arrangement

<i>Bin type</i>	<i>Bin Size & Sharing Ratio</i>	<i>Collection Frequency</i>	<i>Bin Collected From</i>
Waste (Red Lid)	240 Litre Bin shared at the rate of 1 bin per 2 units	Weekly	Kerbside
Recycling (Yellow Lid)	240 Litre Bin shared at the rate of 1 bin per 2 units	Weekly	Kerbside

Conditions

- Service is compulsory for each unit and each rateable property (assessment) will be charged for a service. For residential flat buildings on a single rates assessment, service charges for the entire complex will be charged to the single rates assessment
- Service is **compulsory** and each rateable property (assessment) will be charged for a service.
- Waste and recycling bins are supplied and maintained by Council and remain the property of Council.
- Only the owner of a property or their agent can request a new service.
- Once established, the service option for Multi-Unit Dwelling complexes can only be changed at the written request of the owners of all units, subject to the written approval of Council

- All dwellings within a unit complex must have the same service options as other units unless otherwise approved by Council in writing.
- Bins must be used for the purpose provided. Items accepted in Council's recycling program must not be placed in the red lidded waste bin. Non-recyclable waste must not be placed in the yellow lidded recycling bins.

3b. MUDS - Option 2 Waste and Recycling Bin for Each Unit

<i>Bin type</i>	<i>Bin Size</i>	<i>Collection Frequency</i>	<i>Bin From</i>	<i>Collected</i>
Waste (Red Lid)	80 Litre Bin	Weekly	Kerbside	
Waste (Red Lid)	140 Litre Bin	Weekly	Kerbside	
Waste (Red Lid)	240 Litre Bin	Weekly	Kerbside	
Recycling (Yellow Lid)	240 Litre Bin	Fortnightly	Kerbside	

Conditions

- Service is compulsory for each unit and each rateable property (assessment) will be charged for a service. For residential flat buildings on a single rates assessment, service charges for the entire complex will be charged to the single rates assessment
- Service is **compulsory** and each rateable property (assessment) will be charged for a service.
- Waste and recycling bins are supplied and maintained by Council and remain the property of Council.
- Only the owner of a property or their agent can request a new service or a change in the size of a waste bin.
- Once established, the service option for Multi-Unit Dwelling complexes can only be changed at the written request of the owners of all units, subject to the written approval of Council
- All dwellings within a unit complex must have the same service options as other units unless otherwise approved by Council in writing.
- Bins must be used for the purpose provided. Items accepted in Council's recycling program must not be placed in the red lidded waste bin. Non-recyclable waste must not be placed in the yellow lidded recycling bins.

4. Commercial, Industrial and Mixed Use Premises

Residential units within mixed use premises are required to have residential waste and recycling services as outlined in this chapter.

Commercial and industrial premises may be serviced by private contractors or via Council at their discretion. The following table provides a summary of the standard waste and recycling collection services available in Byron Shire.

Bin type	Bin Size	Collection Frequency	Bin Collected From	Service Provider
Waste (Red Lid)	140 or 240 Litre Wheelie Bin	Weekly or Twice Weekly	Kerbside	Council
RURAL Waste (Red Lid)	240 Litre Bin	Fortnightly	Kerbside	Council
BULK WASTE	1 to 4 cubic metres	Up to Daily	Storage Area or Wheel in-out	Private Contractors
Recycling (Yellow Lid)	240 Litre Bin	Weekly or Twice Weekly	Kerbside	Council
RURAL Recycling (Yellow Lid)	240 Litre Bin	Fortnightly	Kerbside	Council
BULK CARDBOARD	1 to 4 cubic metres	Up to Daily	Storage Area or Wheel in-out	Private Contractors

The above list includes only the standard range of waste and recycling services current and is subject to change. Additional collection services and arrangements may be available. For example – wheelie bin services may be available from private contractors.

Conditions

- Waste and recycling bins provided by Council are supplied and maintained by Council and remain the property of Council.
- Bins must be used for the purpose provided. Items accepted in Council's recycling program must not be placed in the red lidded waste bin. Non-recyclable waste must not be placed in the yellow lidded recycling bins.