ATTACHMENT 6

Revised Waste Management Plan

Prepared by:

SLR Consulting

PPA

SLR Consulting Australia Pty Ltd

Level 16, 175 Eagle Street, Brisbane QLD 4000, Australia



8 August 2025

SLR Ref No.: 620.31023.00002-L03-v3.0-20250808.docx

Attention: Ed Sperry
Pellicano Living Pty Ltd
118 Arthur Street
Fortitude Valley Queensland 4006

SLR Project No.: 620.31023.00002

Client Reference No.: 332-334 Water Street, Fortitude Valley

RE: 332-334 Water Street, Fortitude Valley Updated Waste Management Plan

1.0 Introduction

The proposed development consists of one 36-storey apartment tower and one 37-storey apartment tower located at 332 - 334 Water Street, Fortitude Valley in Queensland. SLR prepared a waste management plan to support approval of this development in December 2023.¹

The proposed development involves a number of land uses, including Multiple Dwelling, Short Term Accommodation and Centre Activities (food and drink outlet, office and shop). As highlighted in the Further Issues Letter from Economic Development Queensland, dated 16 September 2024, the residential activity (multiple dwelling) and non-residential activities (Short Term Accommodation and Centre Activities) must be assessed separately in accordance with the Refuse Planning Scheme Policy of the Brisbane City Plan 2014.

This response, and the attached revised waste management plan (WMP), specifically addresses item 15 of the Further Issues Letter. As a result, it is proposed that the residential element of the development will be serviced by Brisbane City Council, and the short-term accommodation (STA) and retail and commercial elements to be serviced by a commercial waste contractor.

Please refer to the revised WMP attached, which is consistent with the Amended Proposal Plans provided with the Further Issues Response.

2.0 Waste Quantities

Since submitting the original WMP, the number of apartments in the development has been increased. This has resulted in an increase in the total garbage and recycling capacity allowance and an increase in the number of bins and waste storage area required. The WMP has been updated with these additional capacities and the sizes of the waste storage rooms increased accordingly.

It should be noted that Council requires an allowance of 240 L of garbage and 240 L of recycling per dwelling per week and these have been included in the calculations for the number of bins and waste storage areas in this development. These allowances are well in excess of quantities likely to be generated in multi-unit dwellings (MUDs). Other local

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¹ SLR reference 620.31023.00000-R01-v2.0-20231206.

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governments in Australia generally allow between 80 L and 140 L per dwelling in MUDs. The result of using these allowances is that the number of bins and waste storage space included in the design of this development will be significantly greater than that required.

3.0 Proposed Waste System

3.1 Chutes and waste storage

A dual chute system comprising of one for garbage and one for recyclables is proposed for the residential apartments in each building. In the Brunswick Street building, an additional, separate dual chute system is proposed for the STA apartments. Under the chutes, 1,100L bins are proposed to be placed to hold waste and recyclables discharged from the chutes.

Separate waste storage rooms are proposed for residential, STA and retail and commercial waste streams. The waste storage rooms have been sized to accommodate the estimated quantities of waste and recycling.

3.2 Waste collection

3.2.1 Collection point

Collection of all waste streams is proposed to take place from the loading bay adjacent to the Water Street bin storage room. Collection will take place from the loading dock with access from Water Street. A swept path analysis has been undertaken and is shown in the Traffic Impact Statement.

3.2.2 Residential collection

Bins from residential apartments will be serviced by Council three times per week, according to Council's schedule. Cleaners will move the bins from the waste storage rooms under the Brunswick Street building to the Water Street waste storage room and loading bay in time for each collection.

3.2.3 STA collection

Bins from the STA apartments are expected to be serviced by a commercial contractor three times per week, the same frequency as that if the service was provided by Council. Council operates a commercial waste collection service so the contractor could be Council. Cleaners will move bins from the STA waste storage room under the Brunswick Street building to the loading bay in time for each collection.

3.2.4 Retail and commercial collection

Waste and recyclables from retail areas will be taken by tenants to the retail and commercial waste storage room. Waste and recyclables from the commercial office areas will be taken by cleaners to the retail and commercial waste storage room.

Bins from retail and commercial tenancies are expected to be serviced by a commercial contractor three times per week from the loading bay. The contractor could be Council.

3.3 Waste storage area

The residential, STA and retail and commercial waste storage areas will be secured and separate to prevent unauthorised access.



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The waste management plan has been updated to describe this service. In other respects, the waste management plan remains the same as previously submitted.

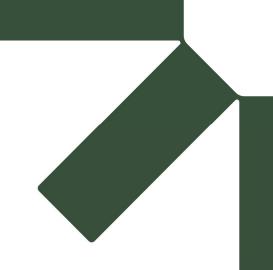
Regards,

SLR Consulting Australia Pty Ltd



Technical Director – Sustainable Waste Management aquinn@slrconsulting.com







Waste Management Plan

Mixed-use Tower Development, 332-334 Water Street, Fortitude Valley

Pelicano Living Pty Ltd

118 Arthur Street Fortitude Valley QLD 4006

Prepared by:

SLR Consulting Australia

Level 16, 175 Eagle Street, Brisbane QLD 4000, Australia

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8 August 2025

Revision: 6.0

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Revision Record

Revision	Date	Prepared By	Checked By	Authorised By
6.0	8 August 2025	Damian Balas	Andrew Quinn	Andrew Quinn

Basis of Report

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Pelicano Living Pty Ltd (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.



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Appendices

Appendix A 250805_Area Schedule_Unit Mix_Revised.pdf



1.0 Introduction

SLR Consulting Australia Pty Ltd (SLR) has been commissioned by Pellicano Living Pty Ltd (the Client) to prepare a Waste Management Plan (WMP) to support the Development Application (DA) for Pellicano's proposed multi-tower Mixed Use Development located at the Corner Brunswick Street and Water Street, Fortitude Valley. This WMP applies to the waste generated from the construction and operational stages of the Development and has been prepared using the architectural drawings supplied by the Client.

1.1 Objectives

The principal objective of this WMP is to identify all potential wastes likely to be generated at the Project site during construction and operational phases, including a description of how waste would be handled, processed and disposed of, or re-used or recycled, in accordance with Council's requirements.

The specific objectives of this Report are as follows:

- To encourage the minimisation of waste production and maximisation of resource recovery.
- To ensure the appropriate management of contaminated and hazardous waste.
- To identify procedures for waste management.
- To assist in ensuring that any environmental impacts during the operational life of the Development comply with Council's development consent conditions and other relevant regulatory authorities.

1.2 Review of WMP

This Report will be reviewed and updated:

- To remain consistent with waste and landfill regulations and guidelines
- If changes are made to site waste and recycling management, or
- To take advantage of new technologies, innovations and methodologies for waste or recycling management.

Copies of the original Report and its future versions should be retained by the site manager during construction. Changes made to the Report, as well as the reasons for the changes made, should be documented by the site manager as part of the review process.

2.0 Project Description

2.1 Overview of Proposed Development

The subject site is located at 332 - 334 Water Street, Fortitude Valley QLD 4006, more formally described as Lot 1 on RP10553, Lots 11 and 12 on RP10552, Lots 5, 6 and 94 on SP266307, Lot 13 on RP81335, Lot 955 on SP206840 and Easement A on SP143465.

This application seeks a PDA Development Permit for a Material Change of Use, involving multiple dwelling, short-term accommodation and centre activities (food and drink outlet, office and shop).

The proposed development involves 557 dwellings, 104 studios, 227 1-bedroom, 170 2-bedroom and 56 3-bedroom turnkey apartments, across two towers, one 36-storeys and the other 37-storeys. Commercial and retail uses are also proposed, along with expansive public plaza spaces on the ground plane.



The project development site is shown in Figure 1.



Figure 1 - Site Location

3.0 Better Practice Waste Management and Recycling

3.1 Waste Management Hierarchy

This WMP has been prepared in line with the waste management hierarchy shown in **Figure 2**, which summarises the objectives of the *Waste Reduction and Recycling Act 2011*. The waste management hierarchy comprises the following principles, from most to least preferable:

- Avoid unnecessary resource consumption
- Reduce waste generation and disposal
- Re-use waste resources without further manufacturing
- Recycle waste resources to make the same or different products
- Recover waste resources, including the recovery of energy
- Treat waste before disposal, including reducing the hazardous nature of waste
- Dispose of waste only if there is no viable alternative



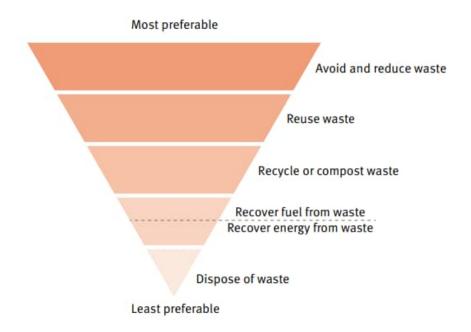


Figure 2 - Waste Management Hierarchy

3.2 Benefits of Adopting Better Practice

Adopting better practice principles in waste minimisation offers significant benefits for organisations, stakeholders, and the wider community. Benefits from better practice waste minimisation include:

- Improved reputation of an organisation due to social and environmental responsibility.
- Lowered consumption of non-renewable resources.
- Reduced environmental impact, for example, pollution, from materials manufacturing and waste treatment.
- Reduced expenses from lower waste disposal.
- Providing opportunities for additional revenue streams through beneficial reuse.

4.0 Waste Legislation and Guidance

4.1 Brisbane City Plan 2014

SC6.26 of the Brisbane City Plan (the City Plan), including Amendment v29.00/2023, provides guidelines and advice to satisfy assessment benchmarks for the provision of adequate and appropriate refuse collection facilities for development. Only sections relevant to this development are summarised in the following sub sections.

4.1.1 General Requirements

 A written design proposal for waste collection is to be provided giving full details of the proposed solution, bin sizes, number of bins and the storage and collection areas, frequency of collection and the refuse collection vehicle size. Table 1 provides the dimensions and types of bins. Table 3 provides the specifications and types of collection vehicles.



Table 1 Refuse bin types and dimensions

Bin type	Capacity	Dimensions (width x height x depth in mm)
Side lift	140 L	535 x 915 x 615
	240 L	585 x 1060 x 730
	360 L	680 x 1100 x 848
Rear lift	140 L ¹	535 x 915 x 615
	240 L ²	585 x 1060 x 730
	360 L ³	680 x 1100 x 848
	660 L	1260 x 1235 x 780
	1100 L	1280 x 1340 x 1080
Front lift	1000 L	1480 x 1300 x 1040
	1500 L	2080 x 1300 x 1040
	2000 L	2080 x 1300 x 1255
	3000 L	2080 x 1538 x 1505
	4500 L	2080 x 1675 x 1845
Roll on-roll off	Specifications are to be provided by the applicant	Various
Compaction system	A minimum compaction ratio of 3:1 is to be achieved	Various

- The collection of refuse is to be considered during the planning phase of development.
 This includes the physical manoeuvring area for the refuse collection vehicle and the bin storage areas and collection points. Access for other road users including pedestrians, cyclists, motorists, and other service providers (e.g., postal) is to be maintained.
- Uses with high trip-end densities provide a transport impact assessment report in accordance with the Transport, access, parking, and servicing planning scheme policy with an assessment of refuse storage and collection included.
- The waste collection system is to achieve the following outcomes:
 - o both the customer and service provider can access the bin storage area and collection point conveniently.
 - the location, design and operation of the bin storage and collection system do not have unreasonable adverse acoustic, odour or visual impacts on the development, surrounding properties or the streetscape.
 - the supply and servicing of either mobile garbage bins or bulk bins or refuse compactors complies with the requirements of this planning scheme policy.
- Where a Refuse Collection Vehicle (RCV) is required to manoeuvre from an on-site position, allow an additional 500 mm clearance for vehicle turning dimensions (swept paths) and servicing. Three clear swept path lines must be demonstrated for the RCV, namely wheel path, vehicle body path and 500 mm clearance path.

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¹ Confirm with private contractor that the indicated bin types are serviceable with a rear loading collection vehicle

² Confirm with private contractor that the indicated bin types are serviceable with a rear loading collection vehicle

³ Confirm with private contractor that the indicated bin types are serviceable with a rear loading collection vehicle

4.1.2 Access and manoeuvrability

- If refuse collection is from an on-site bin storage area for multiple dwellings or from mobile garbage bins located throughout a development, the pavement/carriageway trafficked by the refuse collection vehicle is a minimum 6.5 m wide.
- The pavement/carriageway has a minimum crossover width of 6.5 m and is free from overhanging gardens or trees.
- Turnaround facilities for a refuse collection vehicle exist or are provided for where involving staged subdivision developments or where development is located on a no through road. Turning and manoeuvring facilities for refuse collection vehicles are provided to meet design requirements for the vehicles identified in Table 2.
- Adequate lift clearances are provided to overhanging trees and wires in accordance with collection vehicle specifications.
- For mobile garbage bins, if it is necessary to wheel them to a collection point from a bin storage area:
 - o the distance does not exceed 50 m
 - the mobile garbage bin transfer path is free of steps or other obstructions and does not exceed a 1:14 grade.
- In instances where the gradient of the on-site manoeuvring area is greater than 5% (1:20), the pad that the collection vehicle will stand on while accessing refuse bins at the collection point, is to have a maximum gradient of 2% (1:50).
- The manoeuvring of the refuse collection vehicle is undertaken in a safe and efficient manner, without detrimental impacts to pedestrian amenity or safety, Council or private infrastructure or the function of the road network.
- For multiple dwellings development accessed via an arterial road, or where the refuse collection vehicle cannot reverse onto the site in a single movement, the refuse collection vehicle must enter and leave the site in a forward gear.
- Where refuse collection is from an on-site position, the area trafficked by the refuse collection vehicle must comply with requirements under the {Transport, access, parking and servicing planning scheme policy} including a minimum aisle/carriageway width of 6.5 m wide.
 - Note—Service area design standards, including maximum gradients, minimum aisle widths, minimum vertical clearance and bay design are contained in the Transport, access, parking and servicing planning scheme policy.
- All entry and exit points are of a width and design that allows for sufficient ingress and egress for the refuse collection vehicle, including a minimum 6.5 m crossover which is free from overhead projections inclusive of gardens or trees.



4.1.3 Waste Vehicle Dimensions

The BCC Policy show the dimensions of waste collection vehicles. These are shown below in Table 1.

Table 2 Collection Vehicle Specifications

Vehicle type and description	Specifications	Measurement (m)
Rear loading collection vehicle	Length overall	10.24
	Width overall	2.5
	Operational height	3.6
	Travel height	3.6
	Turning circle kerb to kerb	R9.5
Rear loading RORO/compactor	Length overall	10
vehicle	Width overall	2.5
	Operational height	7.1
	Travel height	3.8
	Length in operation	16.5
	Turning circle kerb to kerb	R22.1
Side-loading collection vehicle	Length overall	10.3
	Wheelbase	5.5
	Rear overhang	3.3
	Turning circle kerb to kerb	R9
	Turning circle wall to wall	R10.5
	Front of vehicle to collection arm	3.8
	Maximum reach of side arm	3.0
	Travel width	2.5
	Travel height	4
	Operational height	4.5
Front-lift loading collection vehicle	Length overall	10.52
	Wheelbase	5
	Turning circle kerb to kerb	R11
	Turning circle wall to wall	R12
	Travel width	2.5
	Travel height	4.2
	Operational height	7

4.1.4 Residential refuse collection

- Residential development is to provide sufficient capacity for 240 L of refuse and 240 or 360 L of recycling per dwelling, allowing for one collection per week.
- Residential development is to utilise kerbside collection where the locations for both the bin storage area and kerbside collection point can be appropriately accommodated.
- Note—This applies to kerbside collection from a dedicated road frontage and from an internal circulation road where it can accommodate a refuse collection vehicle.
- On-site collection of bulk bins must be provided for in the following cases:



- the development cannot accommodate external (fronting public road) kerbside collection or
- the development comprises greater than 10 dwellings or where the road verge is not properly shaped to the standard 1:50 gradient and a minimum of 2.5m wide or where the longitudinal road gradient is greater than 1:10.
- Refuse and recycling collection for a mixed-use development ensures residential and commercial bins are stored separately with separate access to each.
- Residential development must be serviced by Council or their appointed collection contractor.

Note—For the purpose of this section residential development is defined as Dual occupancy, Dwelling house, Dwelling unit and Multiple dwelling.

4.1.5 On-site collection (bulk bins)

 Development will avoid adverse impacts to residents, pedestrians and roads users by limiting the number of collections required per week while ensuring sufficient refuse and recycling capacity is provided to meet the needs of residents. Table 2 provides details of bulk bin volumes and the number of standard 240L kerbside bins their capacity is equivalent to. These are to be used when identifying the required refuse arrangements.

Table 3	Bin	capacity	equivalend	:v
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Bin Volume	Number of equivalent bins
660 L	3 x 240 L
1000 L	4 x 240 L
1100 L	5 x 240 L
1500 L	6 x 240 L
2000 L	8 x 240 L
3000 L	12 x 240 L
4500 L	18 x 240 L

- The type of refuse service that is to be used (domestic or commercial) is identified, including whether the refuse collection vehicle is to be front loading, side loading or rear loading (sufficient height must be available).
- The manoeuvring of the refuse collection vehicle is undertaken in a safe and efficient manner, without detrimental impacts to pedestrian amenity or safety, Council or private infrastructure or the function of the road network.
- An on-site dedicated pedestrian route is provided and is separate from the required vehicle manoeuvring area to ensure pedestrian safety is protected. The pedestrian route is to provide access from the site's frontage to the development and will have a minimum width of 1.2 m.
- For multiple dwellings developments fronting an arterial road, or where the refuse collection vehicle cannot reverse onto the site in a single movement, the refuse collection vehicle must enter and leave the site in a forward gear.
- To maximise safety, the distance required for refuse collection vehicles to reverse onsite is minimised. Where on-site turnaround of the refuse vehicle cannot be achieved, the bin storage area and collection point is located within 30 m of the street frontage.
- Access for a refuse collection vehicle to the collection point is maintained at all times.



- The required vertical and horizontal clearances are provided for the service to operate safely and efficiently. Operational clearance dimensions are shown in Table 2 for various types of collection arrangements.
- Bulk bins of 1.1 m³ or less are positioned so that collection personnel do not have to move them more than 5 m. If a gradient is evident, speed bumps are provided to stop bulk bins from rolling away from the collection point.
- Note—Standard design arrangements, including gradients are contained in the Transport, access and parking planning scheme policy.
- Bulk bins of 1.5 m³ or more are positioned so that front-lift refuse vehicles can drive directly to the container without relocating the bulk bin. If this cannot be achieved due to physical constraints, then the bulk bins are not moved more than 3 m from the storage to the collection point.
- The storage areas for bulk bins are:
 - contained in a roofed and wholly screened enclosure or room of sufficient size for the bulk bin quantity required
 - easily accessible for residents and for the required servicing of bins
 - o screened from neighbouring properties to mitigate odour, amenity and noise
 - o of a design to mitigate the harbourage of vermin or attraction of scavenging animals
 - o provided with natural or temperature-controlled ventilation if in an enclosed room
 - of a design which maintains a minimum internal vertical clearance of 2.1m
 - kept clear of obstructions, such as fixed bay separators, that impede the ability to change from existing bin sizes or which otherwise limit future refuse collection options
 - are not to contain other amenities such as air-conditioning compressors, hot water systems or electrical hubs.
 - Note—Allow for at least an additional 0.5 m clearance surrounding each container, or for the storage of multiple bins, 1.5 m clearance around the combined bin area (whichever is lesser).
- If a refuse or recycling chute is provided:
 - o it is to be constructed to allow refuse to fall into the centre of the bin
 - o it is to have a door / lid to ensure clean changeover of bins
 - o the chute room must be of suitable size to allow for an additional bin/s to remain under the chute discharge/s at all times
 - separate chutes and bulk bins are to be used for each waste stream
 - the room containing the chute and bin or compactor excludes all but authorised personnel.
 - design best practice may include developments greater than 15 m (3 storeys) in height utilising twin chutes or single chute dual stream technology with openings on each residential floor to enable chute disposal of both refuse and recycling
 - o environmental best practices may also include the installation of a trapped waste connection to the sewer system.



4.1.6 Non-Residential Refuse Collection

- Non-residential development is to provide sufficient capacity to achieve low-frequency servicing in line with Table 2.
- Refuse generation rates for specific uses are provided in Table 4. These figures are to be used to calculate the refuse and recycling capacity required.
- Sufficient information is provided to demonstrate that refuse collection can occur in an efficient and safe manner on site without adverse impact on amenity (acoustic, odour or visual impacts) and pedestrian and vehicular traffic.
- This information may include evidence from a refuse collection contractor to demonstrate that collection will occur outside normal service/delivery or business times, where seeking permission to allow a refuse collection vehicle to use service bays or parking spaces on the site for access.
- Where a refuse generation rate is not defined in Table 4, the applicant is responsible for providing evidence in support of the number and size of refuse generation proposed.
- Bulk bins of 1.1 m³ or less are positioned so that collection personnel do not have to move them more than 5 m. If a gradient is evident, speed bumps are provided to stop bulk bins from rolling away from the collection point.
- The storage area for refuse bins are contained either within a building or a roofed and wholly screened enclosure of sufficient size for the bin quantity required. Table 1 provides the bin types and dimensions
- easily accessible for occupants and for the required servicing of bins
- provided with natural or temperature-controlled ventilation if in an enclosed room
- of a design which maintains a minimum internal vertical clearance of 2.1 m
- kept clear of obstructions, such as fixed bay separators, that impede the ability to change from existing bin sizes or which otherwise limit future refuse collection options.
- Best practice may include allowing additional space for the storage of extra containers to separately store either organic waste or other recyclables in the future.

4.2 Other Waste Legislation and Guidance

The legislation and guidance outlined in Table 4 below should be referred to during the site preparation, construction and operational phases of the Project.



Table 4 Legislation and Guidance

Legislation and Guidelines	Objectives	
Council legislation and guidelines		
Brisbane City Plan 2014	The planning scheme sets out the Brisbane City Council's intention for the future development in the planning scheme area, over the next 20 years. It seeks to advance state and regional policies, through more detailed local responses, taking into account the local context.	
	Relevant sections of the City Plan for the Development WMP Include:	
	Schedule 6 – SC6.26 Refuse planning scheme policy including Amendment v29.00/2023,	
Refuse Requirements for Development in Brisbane 2022	Document is designed to help applicants provide well-made applications that demonstrate compliance with the assessment benchmarks of the City Plan, in particular performance outcomes, in the context of the development site.	
Southeast Queensland Waste Management Plan	Document sets out a directional path forward for action and collaboration across the Councils of Southeast Queensland as they address the challenges and opportunities associated with municipal solid waste management across the region, in the context of a rapidly shifting set of sector dynamics.	
State and National legislation a	nd guidelines	
Building Code of Australia (BCA) and relevant Australian Standards	The BCA has the aim of achieving nationally consistent, minimum necessary standards of relevant health and safety, amenity and sustainability objectives efficiently.	
Council of Australian Governments National Construction Code 2016	The National Construction Code 2016 sets the minimum requirements for the design, construction and performance of buildings throughout Australia.	
Queensland Waste Management and Resource Recovery Strategy	The Queensland Waste Management and Resource Recovery Strategy provides the state's strategic plan for improving the ways of managing waste in Queensland and improving the reuse of resources that have traditionally been discarded. The Strategy's objectives are to guide the transition to a more circular economy, reduce the amount of waste disposed to landfill, reduce the amount of illegally disposed waste, and provide a more sustainable source of end-of-life products and materials for new products.	
Environment Protection Act 1994	The Environment Protection Act 1994 is administered by the QLD Department of Environment and Science (DES) to enable the QLD Government to establish instruments for setting environmental standards, goals, protocols and guidelines. The Act outlines the obligations and duties to prevent environmental harm, nuisances and contaminations. The Act also outlines the regulatory requirements for enforcement tools that can be used to manage offences or acts of non-compliance.	
Environmental Protection Regulation 2019	The Environment Protection Regulation 2019 provides the details for the processes that are identified in the Environment Protection Act 1994, including details on prescribed activities, prescribed environmentally relevant activities (ERAs), fees such as application and annual fees, waste tracking requirements and more.	
Waste Reduction and Recycling Act 2011	The Waste Reduction and Recycling Act 2011 aims to promote waste avoidance and resource recovery	
Waste Reduction and Recycling Regulation 2011	The Waste Reduction and Recycling Regulation 2011 provides the details for the processes that are identified in the Waste Reduction and Recycling Act 2011, including details on the waste disposal levy, the end of waste framework, application fees listed in the Waste Reduction and Recycling Act 2011, the management of used packaging materials, and the roles and responsibilities for the planning and reporting of waste management.	
Work Health and Safety Act 2011	The Work Health and Safety Act 2011 provide detailed actions and guidance associated with the topics discussed in The Work Health and Safety Act 2011. The primary aim of the Act is to protect the health and safety of workers and ensure that risks are minimised in work environments. Workplaces are to ensure that they are compliant with the requirements specified in the Act.	



Legislation and Guidelines	Objectives
Work Health and Safety Regulation 2011	The Work Health and Safety Regulation 2011 provides the details for the processes that are identified in the Work Health and Safety Act 2011. The regulations discuss items such as actions that are prohibited or obligated in work environments, the requirements for obtaining licences and registrations, and the roles and responsibilities of staff in workplaces.

5.0 Construction Waste and Recycling Management

5.1 Targets for Resource Recovery

Targets for new development are expected to contribute to state specific targets. *The Queensland Waste Management and Resource Recovery Strategy (2020-2050)* sets a target of 80% average recovery rate from all waste streams by 2030, and 90% by 2050. Recovery rates in Queensland for 2022 were 78% for construction and demolition waste, and 50% for commercial and industrial waste.

It is anticipated that the waste minimisation measures in the following sections will assist the Development to contribute towards these targets. Waste reporting and audits can be used to determine the actual percentage of wastes that have been recycled during the construction and site preparation stage of the Development if required.

5.2 Waste Streams and Classifications

The site preparation and construction of the Project is likely to generate the following broad waste streams:

- Site clearance waste
- Construction waste
- Construction Plant maintenance waste
- Packaging waste, and
- Work compound waste from on-site employees.

A summary of likely waste types generated from demolition and construction activities, along with their waste classifications and proposed management methods are provided in Table 5. For further information on how to determine a waste's classification refer to the *QLD DES* (2019) Overview of regulated waste categorisation⁴. All wastes are assumed to meet the definition of a "General Waste" unless stated.

Table 5 Potential waste types and their management methods

Waste Types	Proposed Management Method
Site Clearance	
Green waste including trees and timber fences	Separated, some chipped and stored on-site for landscaping, remainder to landscape supplies or off-site recycling. Stumps and large trees to landfill.
Clean fill	On-site re-use
Contaminated fill (potentially regulated waste or requires soil disposal permit)	Off-site treatment or disposal to landfill

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⁴ DES, 2019. Information Sheet – Regulated Waste, Overview of Regulated Waste Categorisation, accessed 03 May 2022 2022 from https://environment.des.qld.gov.au/__data/assets/pdf_file/0026/89333/era-is-categorising-regulated-waste.pdf

Waste Types	Proposed Management Method
Excavated natural material	On-site re-use of topsoil for landscaping of the site, off-site beneficial re-use or send to landfill site.
Construction	
Sediment fencing, geotextile materials	Reuse at other sites where possible or disposal to landfill
Concrete	Off-site recycling for filling, levelling, or road base
Bricks and pavers	Cleaned for reuse as footings, broken bricks for internal walls, crushed for landscaping or driveway use, off-site recycling
Sand or soil	Off-site recycling
Gyprock or plasterboard	Off-site recycling or returned to supplier
Metals such as fittings, appliances and bulk electrical cabling, including copper and aluminium	Off-site recycling at metal recycling compounds and remainder to landfill
Conduits and pipes	Off-site recycling
Timber (Sawdust and shavings of treated timber are considered a regulated waste, whole timber offcuts are a general waste)	Off-site recycling Chip for landscaping Sell for firewood Treated: reused for formwork, bridging, blocking, propping or second-hand supplier Untreated: reused for floorboards, fencing, furniture, mulched second-hand supplier, and remainder to landscape supplies.
Doors, windows, fittings	Off-site recycling at second-hand supplier
Insulation material	Off-site disposal
Glass	Off-site recycling
Fluorescent light fittings and bulbs (Regulated Waste)	Off-site recycling or disposal, contact FluoroCycle for more information ⁵
Paint (Regulated Waste)	Off-site recycling, Paintback collection ⁶ or disposal
Synthetic Rubber or carpet underlay	Off-site recycling, reprocessed for other uses
Ceramics including tiles	Off-site recycling
Carpet	Off-site recycling, disposal or reuse
Plant Maintenance	
Empty oil and other drums or containers, such as fuel, chemicals, paints, spill clean ups	Transport to comply with the transport of Dangerous Goods Code applies in preparation for off-site recycling or disposal at licensed facility Note: Discharge to sewer subject to Trade Waste Agreement with local Council
Air filters and rags	Off-site disposal
Oil filters	Off-site recycling
Batteries	Off-site recycling, Contact the Australian Battery Recycling Initiative 7 for more information
Packaging	
Packaging materials, including wood, plastic, including stretch wrap or LLPE, cardboard and metals	Off-site recycling
Wooden or plastic crates and pallets	Reused for similar projects, returned to suppliers, or off-site recycling.
	Contact Business Recycling for more information ⁸

 $[\]begin{tabular}{l} 5 & \underline{\mbox{http://www.fluorocycle.org.au/ or http://www.environment.gov.au/settlements/waste/lamp-mercury.html} \end{tabular}$



⁶ https://www.paintback.com.au/

⁷ http://www.batteryrecycling.org.au/home

⁸ https://businessrecycling.com.au/info/

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5.3 Construction Waste Types and Quantities

In the absence of readily available construction waste generation rates from Council, SLR has adopted waste generation rates from The Hills Development Control Plan (DCP) 2012 for estimating the type and quantities of waste generated from construction of the Development. SLR has adopted the 'Office' rates to measure waste expected from construction activities. These waste generation rates are shown in Table 6.

Table 6 Waste generation rates for the construction of the Development

Rate Type	Floor Area	Waste types and quantities (m³)						
	(m²)	Timber	Concrete	Bricks	Gyprock	Sand or Soil	Metal	Other
Office	1,000	5.1	18.8	8.5	8.6	8.8	2.75	5

The construction waste quantities anticipated from the construction of the Development are provided below in Table 7.

Table 7 Estimated types and quantities of construction waste

Development	Area (m²)	Waste types and quantities (t)						
component		Timber	Concrete	Bricks	Gyprock	Sand and Soil	Metal	Other
Total	44,327	226	93	73	20	213	27	22

At the time of preparing this plan, architectural drawings with storage details for construction waste were not available. This is to be updated by the site manager once waste streams, estimated quantities, and final disposal locations and recycling services have been identified.

5.4 Waste Avoidance

In accordance with better practice waste management, the Building Contractor, Building Designer and/or those in equivalent roles should:

- Develop a purchasing policy based on the approximate volumes of materials to be used so that the correct quantities are purchased.
- Arrange for delivery of materials 'as needed' to avoid material degradation through weathering and moisture damage.
- Communicate strategies to handle and store waste to minimise environmental, health and amenity impacts.
- Select materials with a low environmental impact over the lifecycle of the building.
- Choose timber from certified plantations and avoid unsustainable timber imports including western red cedar, oregon, meranti, luan or merbau.
- Use leased equipment rather than purchase and disposal, where possible.
- Minimise site disturbance and unnecessary excavation, where possible.
- Incorporate existing trees and shrubs into the landscape plan.
- Design the Project to require standard material sizes or make arrangements with manufacturing groups for the supply of non-standard material sizes.
- Design works for de-construction.
- Reduce packaging waste by:
 - Returning packaging to suppliers where practicable to reduce waste further along the supply chain



- o Purchasing in bulk
- Requesting cardboard or metal drums rather than plastics
- o Requesting metal straps rather than shrink wrap, and
- Using returnable packaging such as pallets and reels.
- Use prefabricated materials.
- Select materials for Project works with low embodied energy properties or materials that have been salvaged or recycled for the construction of the Project including concrete that utilises slag and fly ash content, structural and reinforced steel that uses recycled steel content or bulk insulation products that contain recycled content, such as recycled glass in glass-wool.
- Preferentially use paints, floor coverings and adhesives with low VOC (Volatile Organic Compound) content.
- Reduce the use of polyvinyl chloride products.
- Implement measures to prevent the occurrence of windblown litter, dust and stormwater pollution.
- Ensure subcontractors are informed of and implement site waste minimisation and management procedures.

5.5 Reuse, Recycling and Disposal

Effective management of construction materials and construction and demolition waste, including options for reuse and recycling where applicable and practicable, will be conducted. Only waste that cannot be cost-effectively reused or recycled are to be sent to landfill or appropriate disposal facilities.

In accordance with Council requirements and best practice waste management, the following specific procedures should be implemented:

- Maximise reuse and recycling of building and construction materials and minimise disposal of materials to landfill.
- Ensure waste is minimised by the reuse and recycling of excavated and building materials on-site or in the design and construction of the building or other buildings.
- Identify and nominate opportunities to reuse materials from the demolition and excavation phase for the proposed new use as well as potential waste materials, such as recyclable packaging, off-cuts and other excess materials as part of the construction process.
- Reuse timber formwork or waste corrugated iron as formwork and examine the useability of other materials for productive purposes.
- Maximise reuse and recycling of materials from demolition and construction which can be assisted by deconstruction, where the various building components are carefully dismantled and sorted.
- Source separation of offcuts to facilitate reuse, resale or efficient recycling.
- Temporary stockpiling of surplus materials for use in later stages.
- Building waste materials shall be reused, recycled or disposed to approved landfill sites.
- Store waste on site appropriately to prevent cross-contamination and guarantee the highest possible re-use value.



- Consider the potential of any new materials to be re-used and recycled at the end of the Project's life.
- Retain used crates for storage purposes unless damaged.
- Recycle cardboard, glass and metal waste.
- Recycle or dispose of solid waste timber, brick, concrete, asphalt and rock, where such waste cannot be re-used on site, to an appropriately licenced construction and demolition waste recycling facility or an appropriately licenced landfill.
- Deliver batteries and florescent lights to drop off-site recycling facility.
- Return excess materials and packaging to the supplier or manufacturer.
- Dispose of all garbage via a council approved system.

5.6 Waste Storage and Servicing

5.6.1 Waste Segregation and Storage

Deploying better practice waste management, waste materials from site preparation, demolition and construction activities should to be separated at the source and stored separately on-site where possible.

It is anticipated that the construction plan will allow for the siting of bins and areas on-site for the sorting, recycling, and disposal of waste arisings. There should be enough space for separate storage, for example, separate skip bins or appropriately managed stockpiles, of the following waste types:

- Landfill waste
 - Non-recyclable general waste.
- Recyclable waste
 - Bricks, concrete and scrap metal
 - Metal and steel, in a condition suitable for recycling at metal recycling facilities
 - o Timber
 - o Glass
 - Hardstand rubble
 - Paper and cardboard
 - General co-mingled recycling waste and
- Reusable materials and
- Excavation materials.
 - o Uncontaminated excavation spoil, if present
 - Contaminated excavation spoil, if present
- Hazardous waste, if present.

If there is insufficient space on-site for full segregation of waste types, the Site Manager, or equivalent role, should consult with the waste and recycling collection contractor to confirm which waste types may be co-mingled prior to removal from the site.



5.6.2 Waste Storage Areas

Waste storage areas during construction will be accessible and allow enough space for storage and servicing requirements. The storage areas will also be flexible in order to cater for change of use throughout the development. Where space is restricted, dedicated stockpile areas are to be delineated on the site, with regular transfers to dedicated skip bins for sorting.

All waste placed in skips or bins for disposal or recycling will be adequately contained to ensure that the waste does not fall, blow, wash or otherwise escape from the site. Waste containers and storage areas are to be kept clean and in a good state of repair.

Where a skip is required and on-site constraints do not enable it to be located on the property, a separate application for a road occupancy license is required.

In accordance with better practice waste management, areas designated for waste storage should:

- Allow for appropriate vehicular access to enable the removal of waste materials for reuse, recycling and/or disposal.
- Ensure construction materials are to be stored separately from waste and recycling materials to enable easy access for waste collectors.
- Allow unimpeded access by site personnel and waste disposal contractors
- Consider environmental factors which could potentially cause an impact to the waste storage, such as slope, drainage and the location of watercourses and native vegetation
- Not present hazards to human health or the environment.

Stockpiles of topsoil, sand, aggregate, soil or other material should not be located on any drainage line or easement, natural watercourse, footpath or roadway and shall be protected with adequate sediment controls.

5.6.3 Waste Servicing and Record Keeping

Documentation, such as receipts or weighbridge dockets, for the transport and disposal of waste and recycling materials from the site must be retained. The Site Manager or equivalent role is to:

- Keep records of waste disposal, waste or tipping receipts or dockets, at a minimum:
 - o Descriptions and estimated amounts of all waste materials removed from site
 - Details of the waste and recycling collection contractors and facilities receiving the waste and recyclables
 - Records of waste and recycling collection vehicle movements, for example, date and time of loads removed, licence plate of collection vehicles, tip dockets from receiving facility, and
 - Waste classification documentation for materials disposed to off-site recycling or landfill facilities.
- Ensure demolition occurs in accordance with the relevant Australian Standards.
- Arrange for suitable waste collection contractors to remove any construction waste from site



- Provide designated areas on the site sufficient colour coded or labelled storage bins, containers or stockpiles for separated and any left-over waste from the construction process in locations with convenient vehicular access for removal by the waste contractor.
- Ensure waste bins are not filled beyond recommended filling levels
- Ensure that all bins and loads of waste materials leaving site are covered
- Remove waste during hours approved by Council.

If skips and bins are reaching capacity, removal and replacement should be organised as soon as possible. All site generated building waste collected in skips and bins will leave the site and be deposited in the approved site lawfully able to accept them.

Any contaminated material to be removed from the site shall be disposed of to an appropriately licensed waste management facility permitted to receive that waste under the requirements of the Environmental Protection Act.

5.7 Site Inductions

All staff, including sub-contractors and labourers, employed during the site preparation and construction phases of the Development must undergo induction training regarding waste management for the Site.

Induction training is to cover, as a minimum, an outline of the WMP including:

- Legal obligations and targets
- Emergency response procedures on-site
- · Waste priorities and opportunities for reduction, reuse and recycling
- Waste storage locations and separation of waste
- Procedures for suspected contaminated and hazardous waste
- Waste related signage
- The implications of poor waste management practices, and
- Responsibilities and reporting, including identification of personnel responsible for waste management and individual responsibilities.

It is the responsibility of the Site Manager or Building Contractor to notify Council of the appointment of waste removal, transport or disposal contractors for certain types of waste, where necessary.

5.8 Signage

Standard signage is to be posted in all waste storage and collection areas. All waste containers should be labelled correctly and clearly to identify stored materials.

5.9 Roles and Responsibilities

All personnel have a responsibility for their own environmental performance and compliance with all legislation. It will be the responsibility of the Building Contractor to implement the WMP, and an employee and subcontractor responsibility to ensure that they always comply with the WMP. Where possible, an Environmental Management Representative should be appointed for the Development. Suggested roles and responsibilities are provided in Table 8.



Table 8 Site preparation and construction waste management roles and responsibilities

Responsible Person	General Tasks
Construction Site	Ensuring plant and equipment are well maintained.
Manager	Ordering only the required number of materials.
	Keeping materials segregated to maximise reuse and recycling.
	Ultimately responsible for routinely checking waste sorting and storage areas for cleanliness, hygiene and safety issues, contaminated waste materials, and also ensuring that all monitoring and audit results are well documented and carried out as specified in the WMP.
Construction Environmental	Approaching and establishing the local commercial reuse of materials where reuse on-site is not practical.
Manager or equivalent	Establishing separate skips and recycling bins for effective waste segregation and recycling purposes.
	Ensuring staff and contractors are aware of site requirements.
	Provision of training of the requirements of the WMP and specific waste management strategies adopted for the Development.
	Contaminated waste management and approval of off-site waste transport, disposal locations and checking licensing requirements.
	Approval of off-site waste disposal locations and checking licensing requirements.
	Assessment of suspicious potentially contaminated materials, hazardous materials and liquid waste.
	Monitoring, inspection and reporting requirements.

Daily visual inspections of waste storage areas may be delegated to other on-site staff. All subcontractors will be responsible for ensuring that their work complies with the WMP through the development induction and contract engagement process.

6.0 Operational Waste Management

6.1 Targets for Resource Recovery

The waste management performance of the proposed activity should contribute to the overall Queensland State targets for waste diversion outlined in the Queensland Waste Management and Resource Recovery Strategy (2020-2050). The strategy seeks to drive an increase in recycling and resource recovery rates for all waste streams.

The waste streams generated from the proposed development will be predominantly household of the municipal solid waste (MSW) from apartments with a smaller amount generated from commercial units. The overall aim of the Strategy is to reduce the amount of waste that currently goes to landfill. Recovery rates in Queensland for 2022 were 27% for MSW and 50% for commercial and industrial waste, compared to targets of 55% and 65% by 2025 respectively.

It is anticipated that the waste minimisation measures in the following sections will assist the Development to support the state's targets. Waste reporting and audits can be used to determine the actual percentage of waste that are being, or have been, recycled during operation.

6.2 Estimated Types and Quantities of Operational Waste

The development will predominantly generate waste from residential apartments. There will be some waste generated from retail and commercial office tenancies on the lower levels. The operation of the proposed development is anticipated to generate the following waste types:

· General waste



- Food waste
- Beverage containers
- Food packaging wastes cardboard, plastics and others.
- Bulk packaging wastes, including polystyrene, plastic wrapping, and cardboard boxes
- E-waste
- Furniture.

Potential operational waste types, their associated waste classifications and management method are provided in Table 9.

Table 9 Potential Operational Waste Types

Waste Types	Proposed Management Method
General Operations	
Food waste	Initially placed in the garbage bin however if Council or other providers offer a food organic waste collection service in the future this material could be diverted. This would require separation in the complex and the material would be sent to a suitably licensed organics recycling service provider. Separate at collection and recycle to compost or disposal at landfill with general waste.
General waste such as soiled paper and cardboard, and polystyrene	Disposal at landfill
Recyclable beverage containers including glass and plastic bottles, aluminium cans and steel cans	Co-mingled recycling at off-site licensed facility or at a Queensland container deposit scheme facility.
Clean paper and cardboard	Deposited in the commingled recycling stream and sent for recycling at a facility lawfully able to accept it
E-waste	Collected during maintenance or as required by the property manager and sent for off-site recycling
Furniture	Collected during maintenance or as required by the property manager and collected for off-site reuse or disposal to landfill
Waste oils	Collected during maintenance or as required by the property manager and stored according to AS 1940-2004: <i>The storage and handling of flammable and combustible liquids</i> then disposed of at off-site licenced facility.
Maintenance	
Spent smoke detectors ⁹	Collected during maintenance or as required by the property manager and disposal to landfill, or off-site disposal at licensed facility
Glass, other than containers	Collected during maintenance or as required by the property manager and sent for off-site recycling
Light bulbs and fluorescent tubes	Collected during maintenance or as required by the property manager and sent for off-site recycling or disposal. Contact FluoroCycle ¹⁰ or Lamp Recyclers ¹¹ for more information
Cleaning chemicals, solvents, area wash downs, empty oil or paint drums, chemical containers	Collected during maintenance or as required by the property manager. The Australian Dangerous Goods Code may apply for transport and off-site recycling or disposal at licensed facility.

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⁹ The Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) require that when more than 10 smoke alarms (particularly americium-241 sources) are collected for bulk disposal they must be treated as radioactive waste and the requirements of the National Health and Medical Research Council's Code of practice for the near-surface disposal of radioactive waste in Australia (1992) must be met.

¹⁰ https://www.fluorocycle.org.au/

¹¹ https://www.lamprecyclers.com.au/

Waste Types	Proposed Management Method
Garden organics - lawn mowing, tree	Generated during maintenance and reuse on-site or removed by a contractor for
branches, hedge cuttings, leaves	recycling at a licenced facility.

6.3 Estimated Operational Waste Quantities

To estimate quantities of operational waste we have referred to the Brisbane City Refuse Planning Scheme.

Waste streams are divided into three sources:

- Residential apartments to be collected by Council as part of its residential service.
- Short term accommodation (STA) to be collected by a commercial contractor. This
 could be Council, which operates a commercial waste service.
- Retail and commercial office tenancies to be collected by a commercial contractor.
 This could also be Council.

The rates for residential apartments and STAs are based on the Section 4.1.3 of the BCC Plan 2014, Schedule SC6.26, including Amendment v29.00/2023, and with reference to the document 'Refuse Requirements for Development in Brisbane 2022'. This requires waste generation rates of 240 L for garbage and 240 L for recyclables to be allowed per dwelling. The number of apartments is sourced from 250805_Area Schedule_Unit Mix_Revised.pdf which is attached in Appendix A.

6.3.1 Residential

The assumed waste generation rates, resulting estimates of weekly waste quantities and number and types of bins are shown in Table 10 below.

Table 10 Residential Waste Generation Estimates

Building		Brunswick St	Water St
Number of Residential Apartments		184	269
Capacity allowance per dwelling (L)	Garbage	240	240
	Recycling	240	240
Per Week (L)	Garbage	44,160	64,560
	Recycling	44,160	64,560
Bin Capacity (L)	Garbage	1100	1100
	Recycling	1100	1100
Collection Frequency per Week	Garbage	3	3
	Recycling	3	3
Compaction	Garbage	2	2
	Recycling	N/a	N/a
Number of Bins	Garbage	7	10
	Recycling	7	10
Area required for bins (m²)	Garbage	9.7	13.8
	Recycling	9.7	13.8
	Total bin space	19.4	27.6
	Total including manoeuvring	38.7	55.3



6.3.1 Short Term Accommodation

The assumed waste generation rates, resulting estimates of weekly waste quantities and number and types of bins for the STAs are shown in Table 11 below.

Table 11 STA Waste Generation Estimates

Building		Brunswick St	Water St
Number of STA Apartments		104	0
Capacity allowance per dwelling (L)	Garbage	240	N/a
	Recycling	240	
Per Week (L)	Garbage	24,960	
	Recycling	24,960	
Bin Capacity (L)	Garbage	1100	
	Recycling	1100	
Collection Frequency per Week	Garbage	3	
	Recycling	3	
Compaction	Garbage	1	
	Recycling	N/a	
Number of Bins	Garbage	4	
	Recycling	4	
Area required for bins (m²)	Garbage	5.5	
	Recycling	5.5	
	Total bin space	11.1	
	Total including manoeuvring	22.1	

6.3.2 Retail and Commercial

BCC Plan 2014, Schedule SC6.26, including Amendment v29.00/2023, and 'Refuse Requirements for Development in Brisbane 2022' provide office and retail waste generation rates as litres per 100 m² floor area per day. These have been used to estimate waste and recycling quantities from the retail and commercial areas of the development. The floor areas are sourced from 250805_Area Schedule_Unit Mix_Revised.pdf.

From these, the type and number of bins and the space required to store them can be calculated. These are shown in Table 12 below.

Table 12 Retail and Commercial Waste Generation Estimates

Building		Brunswick St	Water St
Floor areas (m²)	Retail	86	0
	Commercial	2154	509
BCC garbage generation rates -	Retail	300	N/a
Litres per 100 m ² floor space	0 m ² floor space Commercial		10
BCC recycling generation rates -	Retail	200	N/a
Litres per 100 m ² floor space	Commercial	20	20
Number of days of operation per	Retail	7	N/a
week	Commercial	5	5
Per Week (L) Garbage		3,138	
	Recycling	3,8	667



Building	Brunswick St	Water St	
Bin Capacity (L)	Capacity (L) Garbage		00
	Recycling	110	00
Collection Frequency per Week	Garbage	3	
	Recycling	3	
Number of Bins	Garbage	1	
	Recycling	1	
Area required for bins (m²)	Garbage	1.4	1
	Recycling	1.4	
	Total bin space	1.4	
	Total including manoeuvring	5.0)

6.4 Other Waste Streams

Green waste bins are not proposed for this development. It is anticipated that any garden organic waste generated from the development will be very limited. Management of this would be by onsite 24-hour building management or landscaping contractors and waste would be taken offsite to a licensed facility for processing.

6.5 Waste Storage Areas Size

The drawings show the waste storage area sizes. These have been compared to the residential, STA and commercial and retail waste storage areas required in each building and can be found in Table 13, Table 14 and Table 15 below.

Table 13 Residential waste storage area required and provided

	Brunswick St (m²)	Water St (m²)
Residential bin room space provided	79	74
Residential space required	38.7	55.3
Difference	40.3	18.7

Table 14 STA waste storage area required and provided

	Total (m²)
STA bin room space provided	34
STA space required	22.1
Difference	11.9

Table 15 Commercial and retail waste storage area required and provided

	Total (m²)
Commercial and retail bin room space provided	6.0
Commercial and retail space required	5.0
Difference	1.0

The table show that for each stream adequate separate waste storage areas have been provided.



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6.5.1 Waste Chute System and Internal Waste Movement

Dual chute system comprising of one for garbage and one for recyclables is proposed for the residential apartments in each building. In the Brunswick Street building, an additional, separate dual chute system is proposed for the STA apartments.

Under the chutes, 1,100L bins are proposed to be placed to hold waste discharged from them. Bins will be positioned in linear bin changing systems. These will feature a compactor which will compact garbage by a 2:1 ratio. Comingled recyclables are not proposed to be compacted. All residential dwellings in both towers will have access to the chute doors on each floor.

Separate waste storage rooms are proposed for residential, STA and retail and commercial waste streams.

Collection of all waste streams is proposed to take place from the loading bay adjacent to the Water Street bin storage room. Cleaners will move bins from the waste storage rooms under Brunswick Street building to the Water Street waste storage room in time for each collection. A bin tug, similar to that shown in Figure 3 below, may be used, if necessary, to move bins.



Figure 3 - Example bin tug

There is sufficient room to store the tug in either storage room when not in use. Whether a bin tug is used, and the precise make and model, will be a matter for building management and/or the cleaners.

The waste chute locations within the waste storage rooms and bin servicing point are shown in Figure 4 below. Detailed design of the waste storage rooms will be undertaken at a later stage.



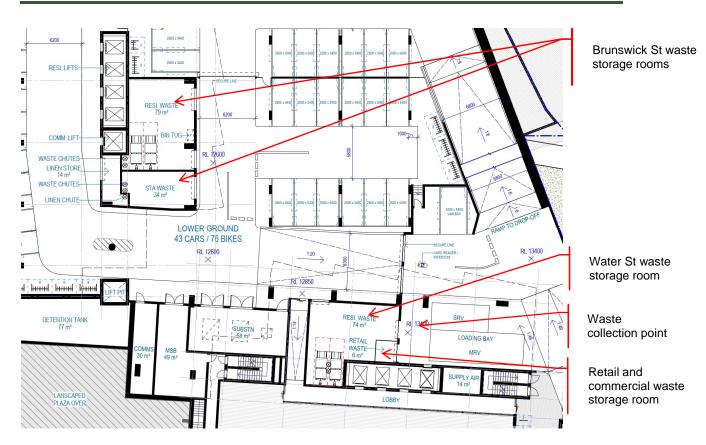


Figure 4 - Waste Chute and Store Locations¹²

6.5.2 Waste Servicing

Bins from residential apartments bins will be serviced by Council three times per week, according to Council's schedule. Bins from STA apartments and retail and commercial tenants are also expected to be serviced three times per week, although other frequencies may be arranged depending on waste quantities and negotiations between building management, tenants and the service provider. Council may provide both the residential and commercial services.

Collection will take place from the loading dock with access from Water Street. A swept path analysis has been undertaken and is shown in the Traffic Impact Statement (TIA) prepared by SLR Consulting. The analysis in Figure SK01 of the TIA indicates that a rear lift vehicle can enter and exit the development in a forward direction.

6.5.3 Waste Avoidance

Waste avoidance measures may include:

- Participating in take-back services to suppliers to reduce waste further along the supply chain
- Avoid printing where possible
- Purchasing consumables in bulk to avoid unnecessary packaging, and
- Presenting all waste reduction initiatives to residents

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¹² From drawing A-1205_DD_PLAN - LOWER GROUND.pdf.

6.5.4 Recycling and Reuse

Recycling opportunities include:

- Separating recyclable materials such as plastic bottles, cans, paper and cardboard from the general waste stream
- Flatten cardboard to reduce number of bins required
- Adoption, participation in and promotion of the Queensland Container Refund Scheme
- Consider future opportunities for food waste separation in food preparation areas
- Development of 'buy recycled' purchasing policy.

6.6 Communication Strategies

Waste management initiatives and management measures should be clearly communicated. Benefits of providing this communication include:

- Improved satisfaction with services
- Increased ability and willingness to participate in recycling
- Improved amenity and safety
- Improved knowledge and awareness through standardisation of services
- Increased awareness or achievement of environmental goals and targets
- Reduced contamination of recyclables stream
- Increased recovery of recyclables and organics material, if implemented, and
- Greater contribution to targets for waste reduction and resource recovery, the environment and heritage conservation.

To realise the above benefits, the following communication strategies should be considered:

- Use consistent signage and colour coding throughout
- Provide directional signage to show location of and routes to waste storage area
- General waste and co-mingled recycling bins should be clearly labelled and colourcoded to ensure no cross contamination, where applicable
- Repair signs and labels promptly to avoid breakdown of communications.

6.7 Signage

The waste storage and collection areas should be provided with appropriate signage. These signs should clearly identify waste management procedures and should be distributed around the Development.

Signs which clearly identify waste management procedures and provisions to staff and visitors should be distributed around the Development. Key signage considerations are:

- Clear and correct labelling on all waste and recycling bins, indicating the correct type or types of waste that can be placed into a given bin.
- Signposts and directions to location of waste storage areas



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 Clear signage in all waste storage areas to instruct users how to correctly separate waste and recycling.

Council has a range of signs available for use. 13 Examples are shown in Figure 5 below.



Figure 5 - Example BCC Waste Signage

6.8 Monitoring and Reporting

Monitoring is recommended to ensure waste and recycling management arrangements and provisions for the Development are functional, practical and are maintained to the standard outlined in this development.

Quantities of waste and recycling associated with disposal of waste and recycling, including dockets, receipts and other physical records should be recorded. This is to allow review of the waste management arrangements and provisions at the site over time.

Any deficiencies identified in the waste management system, including, but not limited to, unexpected waste quantities, is to be rectified as soon as it is practical. If this waste management plan no longer sufficiently meets the needs of the Development, review and updates to maintain suitability must be undertaken.

6.9 Roles and Responsibilities

It is the responsibility of the Building Manager, or equivalent role, to implement this WMP and a responsibility of all building tenants and staff to follow the waste management procedures set out by the WMP. SLR recommends that all subcontractors enlisted by the Client are to have roles and responsibilities identified and the Development's waste management system clearly explained. A summary of recommended roles and responsibilities are provided in Table 16.

Table 16 Operational waste management responsibility allocation

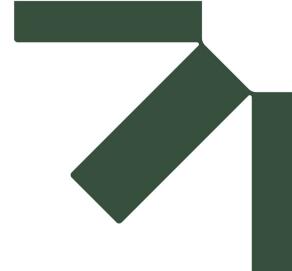
Responsible Person	General Tasks
Property Management	Ensure the WMP is implemented throughout the life of the operation.
	Regularly update the WMP to ensure it remains applicable.

¹³ https://www.brisbane.qld.gov.au/clean-and-green/rubbish-tips-and-bins/reducing-waste-at-work-in-schools-and-in-the-community/free-recycling-resources-for-businesses-schools-and-community-groups

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Responsible Person	General Tasks
	Undertake liaison and management of contracted waste collections.
	Organise internal waste audits on a regular basis.
	Manage any complaints and non-compliances reported through waste audits or other means.
	Regularly inspect all waste storage areas and waste management equipment.
	Organise cleaning and maintenance requirements for waste management equipment.
	Monitor bins to ensure no overfilling occurs.
	Ensure effective signage, communication and education is provided to alert visitors, employees and cleaners about the provisions of this WMP and waste management equipment use requirements.
	Monitor and maintain signage to ensure it remains clean, clear and applicable.
	Ensure waste and recycling storage rooms are kept tidy.
	Ensure that regular cleaning and daily transfer of bins is being undertaken by the cleaners
	Ultimately responsible for the management of all waste management equipment, cleaning requirements, waste transfer and collection arrangements.
Cleaners and Staff	Cleaning of all bins and waste and recycling rooms as required.
	Compliance with the provisions of this WMP.





Appendix A 250805_Area Schedule_Unit Mix_Revised.pdf

Waste Management Plan

Mixed-use Tower Development, 332-334 Water Street, Fortitude Valley

Pelicano Living Pty Ltd

SLR Project No.: 620.V31023.00000

8 August 2025





		BRUNSW	/ICK ST		WATE	ER ST						
Lovele												
Levels												
R	Rooftop	Ame	nitv		Ame	enity						
R	Sub-Floor	Pla				ant						
35	Level 35	Apartn			Aparti							
34	Level 34	Apartn			Aparti							
33	Level 33	Apartn			Aparti							
32	Level 32	Apartn			Aparti							
31	Level 31	Apartn			Aparti							
30	Level 30	Apartn			Aparti							
29	Level 29	Apartn			Aparti							
28	Level 28	Apartn			Aparti							
27	Level 27	Apartn	nents		Aparti	ments						
26	Level 26	Apartn	nents		Aparti	ments						
25	Level 25	Apartn	nents		Aparti	ments						
24	Level 24	Apartn	nents		Aparti	ments						
23	Level 23	Apartn	nents		Aparti	ments						
22	Level 22	Apartn	nents		Aparti	ments						
21	Level 21	Apartn	nents		Aparti	ments						
20	Level 20	Apartn	nents		Aparti	ments						
19	Level 19	Apartn	nents		Aparti	ments						
18	Level 18	Apartn	nents		Aparti	ments						
17	Level 17	Apartn	nents		Aparti	ments						
16	Level 16	Apartn	nents		Aparti	ments						
15	Level 15	Apartn	nents		Aparti	ments						
14	Level 14	Apartn	nents		Aparti							
13	Level 13	Apartn			Aparti							
12	Level 12	Stud			Aparti							
11	Level 11	Stud			Aparti							
10	Level 10	Stud			Aparti							
9	Level 09	Stud			Aparti							
8	Level 08	Stud			Aparti							
7	Level 07	Stud			Aparti							
6	Level 06	Stud			Aparti							
5	Level 05	Stud			Aparti							
4	Level 04	Comm			Aparti							
3	Level 03	Comm	ercial		Aparti				CARS			BIKES
2	Level 02	Commercial	Lobby		Lobby	Apartments	STANDARD	TANDEM	SMALL	PWD	VAN	520
2	Plaza	Commercial	LODDy	Plaza	Lobby	Commercial						
1	Upper Ground	Commercial	Drop-Off		Loading / Services	Commercial —	3			1	1	1 143
0	Lower Ground			Parking	Loading / Services	Commercial	42		1		2	76
B1	Basement 01			Parking			70		7		1	1 168
B2	Basement 02			Parking			90		3			80
B3	Basement 03			Parking			90		3			80
B4	Basement 04			Parking			92		3			80
									TOTAL	405		627

NOTES

1. All areas are preliminary only and subject to site suvey, design development, consultant input, and authority approvals.

Common areas have been placed under Brunswick St figures.

Site Area 4,819 m2

WOODS BAGOT PAGE 1 OF 4



		BB10/21	WOK OT			ļ	BRUNSWICK ST UNIT MIX GFA (BCC)													
		BRUNSV	VICK ST	-	WATE						UNIT MIX					00141	TOTAL			
Levels								STU	DIO	1 B	ED	2 B	ED	3 BED TWIN KE		TOTAL	COMM.	RESI.	TOTAL	
LG VCIS							ŀ	No.	GFA	No.	GFA	No.	GFA	No. (GFA		 			
R	Rooftop	Ame	nitv		Ame	nitv		. 10.	5.70	110.	3171	.10.	5171					139	139	
R	Sub-Floor	Pla	-		Pla	<u> </u>												.00	0	
35	Level 35	Apartn			Apartr					4	216	3	236	1	98	8		662	662	
34	Level 34	Apartn			Apartr					4	216	3	236	1	98	8		662	662	
33	Level 33	Apartn			Apartr					4	216	3	236	1	98	8		662	662	
32	Level 32	Apartn			Apartr					4	216	3	236	1	98	8		662	662	
31	Level 31	Apartn			Apartr					4	216	3	236	1	98	8		662	662	
30	Level 30	Apartn			Apartr					4	216	3	236	1	98	8		662	662	
29	Level 29	Apartn			Apartr					4	216	3	236	1	98	8		662	662	
28	Level 28	Apartn			Apartr					4	216	3	236	1	98	8		662	662	
27	Level 27	Apartn			Apartr					4	216	3	236	1	98	<u>۶</u>		662	662	
26	Level 26	Apartn			Apartr					4	216	3	236	1	98	<u>ع</u>		662	662	
25	Level 25	Apartn			Apartr					4	216	3	236	1	98	٥ و		662	662	
24	Level 24	Apartn			Apartr					4	216	3	236	1	98	٥ و		662	662	
23	Level 23	Apartn			Apartr					1	216	3	236	1	98	8		662	662	
22	Level 22	Apartn			Apartr					1	216	3	236	1	98	8		662	662	
21	Level 21	Apartn			Apartr					1	216	3	236	1	98	8		662	662	
20	Level 20	Apartn			Apartr					1	216	3	236	1	98	8		662	662	
19	Level 19	Apartn			Apartr					4	216	3	236	1	98	ο 8		662	662	
18	Level 18	Apartn			Apartr					4	216	3	236	1	98	ο 8		662	662	
17	Level 17	Apartn			Apartr					4	216	3	236	1	98	Q		662	662	
16	Level 16	Apartn			Apartr					4	216	3	236	1	90	Q		662	662	
15	Level 15	Apartn			Apartr					4	216	3	236	1	98	Q		662	662	
14	Level 14	Apartn			Apartr					4	216	3	236	1	98	ο 8		662	662	
13	Level 13	Apartn			Apartr					1	216	3	236	1	98	8		662	662	
12	Level 12	Stud			Apartr			13	519		210	3	200	•	30	13		642	642	
11	Level 11	Stud			Apartr			13	519							13		642	642	
10	Level 10	Stud			Apartr			13	519							13		642	642	
0	Level 09	Stud			Apartr			13	519							13		642	642	
<u>9</u> 2	Level 08	Stud			Apart			13	519							13		642	642	
7	Level 07	Stud			Apart			13	519							13		642	642	
6	Level 06	Stud			Apart			13	519							13		642	642	
5	Level 05	Stud			Apart			13	519							13		642	642	
4	Level 03	Comm			Apart			13	010							13	795	042	795	
 ੨	Level 03	Comm			Apart												782		793 782	
2	Level 02	Comm	oroidi		·	Apartments											702		102	
2	Plaza	Commercial	Lobby	Plaza	Lobby -	· .											140	20	470	
1	Upper Ground	Commercial	Drop-Off	PlaZa		Commercial											442 160	384	478 544	
0	Lower Ground	Commercial	Біор-Оіі	Parking	Loading / Services	Commercial											100	304	544	
D1																				
B1	Basement 01			Parking																
B2	Basement 02			Parking																
B3	Basement 03			Parking																
B4	Basement 04			Parking			TOTAL	404		00		00		00		202	0.470	00.004	00.400	
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							INO %	36%		32%		24%		8%						

WOODS BAGOT PAGE 2 OF 4

^{1.} All areas are preliminary only and subject to site suvey, design development, consultant input, and authority approvals.

^{2.} Common areas have been placed under Brunswick St figures.



		RRI INISW/	ICK ST		\\/ \ T	ER ST	⊦	WATER ST UNIT MIX								GFA (BCC)					
		BRONSW	BRUNSWICK ST			WATEROT			4.555				3 BED	TOTAL	COMM.	RESI.	TOTAL	Gl			
Levels								STUDIO	1 BEI		2 BED		TWIN KEY					_			
								No. GFA	No.	GFA	No. GF	A I	No. GFA								
R	Rooftop	Amen				enity										164	164				
R	Sub-Floor	Plan	nt		PI	ant											0				
35	Level 35	Apartm	ents		Apart	tments			4	224		238	1 100	8		675	675				
34	Level 34	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
33	Level 33	Apartm	ents		Apart	tments			4	224		238	1 100	8		675	675				
32	Level 32	Apartm	ents		Apart	tments			4	224		238	1 100	8		675	675				
31	Level 31	Apartm	ents		Apart	tments			4	224		238	1 100	8		675	675				
30	Level 30	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
29	Level 29	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
28	Level 28	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
27	Level 27	Apartm	ents			tments			4	224	3	238	1 100	8		675	675				
26	Level 26	Apartm	ents		Apart	tments			4	224		238	1 100			675	675				
25	Level 25	Apartm	ents		Apart	tments			4	224		238	1 100	8		675	675				
24	Level 24	Apartm	ents		Apart	tments			4	224		238	1 100			675	675				
23	Level 23	Apartm	ents		Apart	tments			4	224	3	238	1 100			675	675				
22	Level 22	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
21	Level 21	Apartm	ents		Apart	tments			4	224		238	1 100	8		675	675				
20	Level 20	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
19	Level 19	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
18	Level 18	Apartm	ents		Apart	tments			4	224		238	1 100	8		675	675				
17	Level 17	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
16	Level 16	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
15	Level 15	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
14	Level 14	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
13	Level 13	Apartm	ents		Apart	tments			4	224	3	238	1 100	8		675	675				
12	Level 12	Stud	io		Apart	tments			4	224		238	1 100	8		675	675				
11	Level 11	Stud	io		Apart	tments			4	224	3	238	1 100	8		675	675				
10	Level 10	Stud	io		Apart	tments			4	224	3	238	1 100	8		675	675				
9	Level 09	Stud	io		Apart	tments			4	224	3	238	1 100	8		675	675				
8	Level 08	Stud	io		Apart	tments			4	224	3	238	1 100	8		675	675				
7	Level 07	Stud	io		Apart	tments			4	224	3	238	1 100	8		675	675				
6	Level 06	Stud	io		Apart	tments			4	224	3	238	1 100	8		675	675				
5	Level 05	Stud	io		Apart	tments			4	210		235	1 99	8		658	658				
4	Level 04	Comme	ercial		Apart	tments			4	210	3	235	1 99	8		658	658				
3	Level 03	Comme	ercial		Apart	tments			4	210	3	235	1 99	8		658	658				
2	Level 02	Commorcial	Labby		Lobby	Apartments			3	154	2	154		5		418	418				
2	Plaza	Commercial	Lobby	Plaza	Lobby	Commercial									546	295	841				
1	Upper Ground	Commercial	Drop-Off		Looding / Comission																
0	Lower Ground			Parking	Loading / Services	Commercial -									270		270				
B1	Basement 01			Parking																	
B2	Basement 02			Parking																	
В3	Basement 03			Parking																	
B4	Basement 04			Parking																	
				Ü			TOTAL	0	135		101		33	269	816	23,101	23,917				
									50%				12%			-,	- ,				

1. All areas are preliminary only and subject to site suvey, design development, consultant input, and authority approvals.

2. Common areas have been placed under Brunswick St figures.

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										OVER	ALL (BOTH TOV	VERS COMBII	NED)		
		BRUNSV	WICK ST		WATE	ER ST	_			UNIT MIX		GFA (BCC)			
Levels								STUDIO 1	1 BED	2 BED TWI	N	COMM.	RESI.	TOTAL	
R	Rooftop	Ame	enity		Ame	anity.							303	303	_
R	Sub-Floor		ant			ant			+				303	303	
35	Level 35	Aparti				ments			8	6	2 1	6 0	1337	1337	,—
34	Level 34	Aparti				ments			8	6	2 1	6 0	1337	1337	_
33	Level 33	Aparti				ments			8	6	2 1	6 0	1337	1337	-
32	Level 32	Aparti				ments			8	6	2 1	6 0	1337		-
31	Level 31	Aparti				ments			8	6	2 1	6 0	1337		-
30	Level 30	· · · · · · · · · · · · · · · · · · ·	ments		· ·	ments			8	6	2 1	6 0	1337		-
29	Level 29	Aparti				ments			8	6	2 1	6 0	1337		-
28	Level 28	Aparti				ments			8	6	2 1	6 0	1337		-
27	Level 27	Aparti				ments			8	6	2 1	6 0	1337		-
26	Level 26	Aparti				ments			8	6	2 1	6 0	1337		-
25	Level 25	Aparti				ments			8	6	2 1	6 0	1337	1337	_
24	Level 24	Aparti			· ·	ments			8	6	2 1	6 0	1337		-
23	Level 23	Aparti				ments			8	6	2 1	6 0	1337		-
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21	Level 21	Aparti				ments			8	6	2 1	6 0	1337		-
20	Level 20	Aparti				ments			8	6	2 1	6 0	1337	1337	-
19	Level 19	Aparti			<u> </u>	ments			8	6	2 1	6 0	1337		-
18	Level 18	· · · · · · · · · · · · · · · · · · ·	ments		· ·	ments			8	6	2 1	6 0	1337		-
17	Level 17	Aparti			· ·	ments			8	6	2 1	6 0	1337		-
16	Level 16	Aparti				ments			8	6	2 1	6 0	1337		_
15	Level 15	Aparti				ments			8	6	2 1	6 0	1337	1337	_
14	Level 14	Aparti				ments			8	6	2 1	6 0	1337	1337	_
13	Level 13		ments			ments			8	6	2 1	6 0	1337		_
12	Level 12	<u>'</u>	ıdio		· ·	ments		13	4	3	1 2	1 0			_
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10	Level 10		ıdio			ments		13	4	3	1 2	-	1317		-
9	Level 09		ıdio		<u> </u>	ments		13	4	3	1 2	-	1317		-
8	Level 08		ıdio			ments		13	4	3	1 2	1 0	1317		-
7	Level 07		ıdio			ments		13	4	3	1 2	1 0	1317		-
6	Level 06		ıdio			ments		13	4	3	1 2	-	1317		-
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3	Level 03	Comm	nercial		•	ments			4	3	1	8 782		1440	_
2	Level 02				·	Apartments			3	2		5 0	418	418	+
2	Plaza	Commercial	Lobby	Plaza	Lobby	Commercial						988	331	1319	-
1	Upper Ground	Commercial	Drop-Off									160	384	544	_
0	Lower Ground			Parking	Loading / Services	Commercial						270		270	_
B1	Basement 01			Parking								1		•	
B2	Basement 02			Parking											
B3	Basement 03			Parking											
B4	Basement 04			Parking											
	-						TOTAL	104	227	170	56 55	7 2,995	44,022	47,017	1
							%	19%	41%		10%	1	, i		Т
								. 0 , 0	, .					4 ·	

1. All areas are preliminary only and subject to site suvey, design development, consultant input, and authority approvals.

2. Common areas have been placed under Brunswick St figures.

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