

160-172 LORD SHEFFIELD CIRCUIT PENRITH



CONSTRUCTION WASTE MANAGEMENT PLAN

March 2025

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1 Construction Waste Management Plan

1.1 Scope

To address the waste management procedures for the construction activities, undertaken during the proposed construction of the project.

1.2 General Overview

The proposed development will involve bulk and detailed excavation over a significant area of the site. Bins are to be stored initially on the site within the extent of the excavation.

Recycling procedures for the construction of the building to be undertaken by both the builder and the waste contractor; the site will as far as possible and outlined below, separate recycling materials on site.

The focus on waste management will therefore be greatly directed at the source in avoiding waste and at waste recycling by both the builder and the waste contractor. The waste contractor will also sort any general waste bins taken off the site to further enhance waste recycling processes.

1.3 Details of Waste Management

The following details are relevant to the project as approved :

- **Site Address:** 160-172 Lord Sheffield Circuit Penrith NSW 2750
- **Current approved Buildings:** Two (2) storey podium containing 14 ground floor retail premises & first floor commercial floor space, two (2) x eight (8) storey residential towers containing 287 residential apartments.
- **Site Area:** 8280m2
- **No. of levels:** 10 Storey mixed use commercial & residential

1.4 Project Metrics

Table 1: Table showing the Original Project Metrics compared against the Amending SSSDA proposal.

Component	Approved DA (as modified)	Detailed DA	Amending SSSDA	Change from Approved	
Proposed uses	Mixed-use development (commercial, residential)	retail,	Mixed-use development (commercial, residential)	retail,	No change
Site area	8,280m2		8,280m2		No change

Component		Approved Detailed DA (as modified)	Amending SSDA	Change from Approved
GFA	Total	33,647m ²	48,692m ²	+ 16,339m ²
	Residential	26,397m ²	41,356m ² (including 7,321m ² affordable areas)	+14,959m ²
	Retail	3,772m ²	3,677m ²	-95m ²
	Commercial	3,651m ²	3,658m ²	+7m ²
Height of Building		RL68.31 (incl. lift over runs). No habitable floor space above RL62.600.	RL81.41 (incl. lift over runs). No habitable floor space above RL74.700.	+13.1m
Height in Storeys		10 storeys	14 storeys	+4 storeys
Total Residential units		287	431	+144
Total Affordable Units		0	76	+76
Dwelling Mix	1-bed	58	86	+28
	2-bed	182	274	+92
	3-bed	47	71	+24
Communal open space	Total	3,350m ²	3,312m ²	-38m ²
	Ground Floor	709m ²	732m ²	+23m ²
	Roof Levels	2,641m ²	2,580m ²	-61m ²
Setbacks	North	Nil	Nil	No change
	East	12m minimum	12m minimum	No change
	South	1.5m minimum	1.5m minimum	No change
	West	Nil	Nil	No change
Deep Soil		894m ²	894m ²	No change
Parking spaces	Total	Car Spaces: 500 Bicycle Spaces: 145	Car Spaces: 602 Bicycle Spaces: 134	Car Spaces: +102 Bicycle Spaces: -11
	Basement 04	Car Spaces: 145	Car Spaces: 168	Car Spaces: +23
	Basement 03	Car Spaces: 144	Car Spaces: 168	Car Spaces: +24
	Basement 02	Car Spaces: 120	Car Spaces: 159	Car Spaces: +39
	Basement 01	Car Spaces: 84	Car Spaces: 96	Car Spaces: +12

The purpose of the Waste Management Plan is to ensure that resources are conserved, and waste is processed responsibly by minimizing waste generation and maximizing recycling of materials.

Urban Apartments aims to reduce its negative environmental impact wherever possible by taking the following measures:

- Maximize reuse and recycling of any building construction material waste.
- Avoid waste through design and accurate material quantity ordering.
- Minimize non-recyclable waste sent to landfill.

In particular, the following measures will be taken on the 160-172 Lord Sheffield Circuit Penrith site to promote efficient and effective waste management best practice:

- **Access:** waste systems will be located against the Lord Sheffield Circuit street entry, so collection vehicles are able to access buildings to remove waste safely and easily, as well as being convenient for site staff
- **Safety:** safe practices will be applied for storage, handling and collection of waste and recycling
- **Pollution prevention:** practice good storage of waste to help stop stormwater pollution.
- **Maintenance:** Waste storage areas and equipment are to be cleaned regularly.

The project will aim to recycle and/or reuse at least 80% of construction and demolition waste. Ongoing waste management on site to be installed during construction:

- One secure sharps container at each amenities block.
- One sanitary bin container per female only cubicle.

Asbestos Note:

Asbestos is not anticipated on the 160-172 Lord Sheffield Circuit Penrith project; however, should asbestos be encountered, it will be treated in accordance with the "How to Safely Remove Asbestos" Code of Practice and the Workcover Guide: Working with Asbestos and removed separately from other waste. Depending on the quantity found on site, Bingo Recycle center will provide one of the following removal options:

- A 2m, 4m or 6m Skip bin (which will be Lined with concrete plastic before any asbestos is placed in the bin and then covered and sealed with concrete plastic before removal from site)
- An Asbestos bag (thick concrete plastics: 600mm x 900mm)

1.5 Major Measures

1.5.1 Material Selection & Ordering

The following actions are endorsed:

- Selection of all materials will be undertaken by architectural designers.
- Materials requirements are to be accurately calculated to minimise waste from over ordering.
- Materials ordering process is to aim at minimisation of materials packaging.
- Material Safety Data Sheets are to accompany all materials delivered to site, where required, to ensure that safe handling and storage procedures are implemented.

1.5.2 Waste Recycling

The following actions are affirmed:

- Waste generation from construction activities on the site will be minimised, reused, or recycled where applicable.
- Dedicated and secure containers will be provided on site by an approved waste handling company for non-recyclable waste.
- Waste that can be re-cycled will be separated into specific bins. This will typically include:
 - Concrete
 - Bricks
 - Timber
 - Steel
 - Plasterboard
 - PVC

- Mixed waste will be transported off site to a re-cycling depot where it will be further sorted for re-use and/or re-cycling.
- The waste contractor will assist regular waste performance by reporting to the builder.

1.6 Waste Management Principles (Educational / Training /Awareness)

a) Awareness and knowledge of the Waste Management Plan (WMP)

Avoid - reuse - recycle – dispose:

Urban Apartments is aiming to reduce the amount of waste to land fill by adopting the waste management hierarchy of avoid > reuse > recycle > dispose in the excavation and construction processes. The following document outlines waste management procedures to be carried out to assist in reducing waste.

The first step to ensure that all people involved are aware of the WMP and understand the importance; therefore, architects, interior designers, site managers, foreman, leading hands, and labours working for Urban Apartments shall be prepared to assist in managing waste minimisation.

Inductions:

To achieve the awareness of the WMP to all persons on site including Urban Apartments employees and subcontractors, the WMP procedures will be incorporated into the site-specific induction, which all workers on the site must undertake prior to their commencement on site. Urban Apartments employees will undertake a specific induction outlining their duties in enforcing WMP procedures are complied with by subcontractors.

Colour coding:

Recycling bins will be colour coded or sign posted assist in the identification of bins. Not all bins will be colour coded. Skips will not be colour coded only the smaller wheelie bins will be colour coded.

Signage:

All bins will have signage fixed stating what type of materials is to be placed in the bin (e.g., steel, concrete, bricks, general rubbish, etc...). Signage will be erected for dumping procedures at rubbish chutes, areas that bins are to be stored, any stockpiling areas (if applicable), waste collection procedures and the responsibilities of persons on site regarding WMP.

Procedures of WMP:

The following approach will be adopted to waste management planning:

- Issue this WMP to Architects, Interior Designers & Site management to establish the awareness by all parties for construction waste and ongoing waste management of the building.
- Create an induction to be incorporated in the site-specific induction.
- Include condition in Sub-contracts for compliance with this WMP.
- Engage a suitable waste removal contractor.
- Obtain Work Method Statements (WMS) from sub-contractors which are to include compliance with WMP.
- Urban Apartments to supply adequate bins and removal methods.
- Urban Apartments site team to monitor and ensure compliance with WMP by sub- contractors.

- Monitor feedback reports from waste removal contractor.
- Upon completion remove all bins and temporary signage from site.

Incentives/ repercussions:

Incentives to be provided to Urban Apartments employees and sub-contractors to achieve best practices in waste management. The following to be implemented:

- Provide site barbecues if waste targets are achieved.
- If contractors are caught mixing waste and not separating for recycling- labour will be employed to separate the waste and back-charged to the sub-contractor.
- If employees refuse to Co-operate with the WMP they will be removed from the site.

1.7 Waste Removal Procedure

1.7.1 Demolition Phase

The land will be cleared on a surface level.

1.7.2 Excavation Phase

During the Excavation phase all fill will be re used on site as previously mentioned.

1.7.3 Structure Phase

Throughout the erection of the structure, bins (2m³) will be used for the collection of waste. One bin will be used for formwork and two bins for general waste such as tie wire, electrical, plumbing, and dirt waste. When the latter bin is full, it will be emptied into larger bins (15m³) forklift or Manitou. Once the larger bins are full, they will be lifted via waste removal truck located within the site.

During construction of the structure, 15m³ bins will be located on the lower areas of the site wherever possible. The locations of the bins may alter as the job progresses. For most of the time, there will be adequate area allocated for several bins, for the purpose of recycling.

1.7.4 Finishes Phase

Small bins (1m³) on wheels will be used to move around the levels and pick up waste. These bins when full will be transported to the location of the larger bins.

At all times, the bins will be located off street and in locations where they can be always accessed by the waste disposal contractor's trucks; therefore, there will be minimal disruption to local traffic movements.

In all cases material will be separated into the relevant recycle bins. In addition to those bins set aside for recycling, there will be general refuse bins provided on site for smaller quantities of non-recyclable material. These bins will automatically be sorted at the waste contractor's depot to salvage any further recyclable material overlooked on the site.

1.7.5 Treatment of waste

As described above and where possible, all materials will be separated on site into designated bins and removed from site by the waste contractor. The waste contractor may undertake further separation of general waste bins.

1.7.6 Records / Waste monitoring / Feedback

Excavation contractor will submit records of all waste and fill removed from the site stating the type, quantity and location disposed. Waste contractor is to submit to site reports also detailing the type and quantity of waste removed in skips from site on a fortnightly basis. This information will be directed to site so that it can be monitored to ensure minimum landfill. Further measures may need to be taken by management to achieve higher recycling rates.

The selected waste contractor will liaise with Urban Apartments in the compilation of a monthly report detailing the amount of waste received and the details of those products recycled.

1.7.7 Signage

All bins will have a sign front and back stating which type of waste is to be placed in the bin whether it is general, steel, concrete, plasterboard, etc.

1.7.8 Waste Management Contractor

Please be advised that at all times of preparing this report, a waste management contractor had not been appointed. Upon appointment of a contractor, a waste management specification and principal will be established.

1.8 Material Disposal (on site)

The following tables will overview the plan to dispose several materials based on the excavation and construction waste management phases.

Table 2: Disposal of material on site during excavation Waste Management Phase

Material on site			Destination				
Type of Material	Estimated Volume (m³)	Estimated Weight (t)	Reuse and Recycling				Disposal
			On-Site Methods	Proposed	Off-Site Methods	Proposed	
CONCRETE: 500mm thick.	1,406 = (2811.8 × 0.5) + (0.1 × (2811.8 × 0.5))	3,374.4 = (2400 × 0.001) × 1406	Existing Driveway to be retained during construction. Crushed and used as aggregate, drainage backfill		Waste Removal Contractor crushing plant	Bingo Industries	
TOPSOIL/ FILL_ Gravelly SAND: dark grey, sand is fine to coarse grained, gravels are angular to sub-angular, fine to medium grained	1,687 = (2811.8 × 0.6) + (0.1 × (2811.8 × 0.6))	2,834.19 = (1680 × 0.001) × 1687					
RESIDUAL SOIL/ SILTY CLAY: high plasticity, pale grey mottled brown/ red.	3,712 = (2811.8 × 1.2) + (0.1 × (2811.8 × 1.2))	6,778 = (1826 × 0.001) × 3712					

(SPT values ranged from 17 to refusal indicated by hammer bounce)					
SHALE_ type 1: Pale grey/ dark brown, extremely weathered, very low strength laminated with sandstone and presence of clayey seams, gravels are fine grained, angular to sub-angular	4,640 = (2811.8 × 1.5) + (0.1 × 2811.8 × 1.5))	12,412 = (2675 × 0.001) × 4640			
SHALE_ type 2: dark brown to dark grey, trace clayey seams, thinly laminated with sandstone	64,641 = (2811.8 × 11.2) + (0.1 × 2811.8 × 11.2))	172,915 = ((2675 × 0.001) × 64641)			