

DICKENS SOLUTIONS

(REF – 21080)

WASTE MANAGEMENT PLAN

MODE DESIGN ARCHITECTS
(NSW LAND & HOUSING CORPORATION)

PROPOSED MULTI-UNIT RESIDENTIAL
SENIORS HOUSING DEVELOPMENT

@
97-99 PUNCHBOWL ROAD
BELFIELD

JUNE 2022

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Dickens Solutions Pty Ltd
(ABN 41 603 040 446)
1214 Botany Road, Botany NSW 2019
Telephone (Mb) 0400 388 996

Website: www.dickenssolutions.com.au E-mail: garry@dickenssolutions.com.au

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PART 1 – OVERVIEW AND PROPOSAL

1.1 INTRODUCTION

This Waste Management Plan (WMP) describes in detail the manner in which all waste and other materials resulting from the demolition, construction and on-going operational use of the building on the site, are to be dealt with.

The aims and objectives of this WMP are to: -

- a) Satisfy all State and Local Government regulatory controls regarding waste management and minimisation practices,
- b) Promote the use of recyclable materials in the excavation, construction and on-going operation of the building,
- c) Maximise waste reduction, material separation, and resource recovery in all stages of the development,
- d) Ensure the design of waste and recycling storage facilities are of an adequate size, appropriate for the intended use of the building, hygienic with safe and manoeuvrable access, and,
- e) Ensure that the provision of waste and recycling services to the completed buildings are carried out in an efficient manner, which will not impact negatively on the health, safety and convenience of all stakeholders.

This WMP is prepared in accordance with: -

- The Strathfield Local Environment Plan 2012;
- The Strathfield Development Control Plan 2015 – Part H Waste Minimisation and Management and Plan;
- All Conditions of Consent to be issued in respect of the proposal, and,
- The Better Practice Guide for Resource Recovery in Residential Buildings published by the NSW EPA (April 2019).

This Waste Management Plan (WMP) has been prepared for the construction of residential buildings 97-99 Punchbowl Road, Belfield, comprising of: -

- The demolition of all existing buildings and structures,
- The construction of eight (8) self-contained dwellings, and,
- Associated site works and infrastructure.

This WMP is dated 9 June 2022.

1.2 DESCRIPTION OF PROPERTY

PROPERTY DESCRIPTION	The development is to be constructed over two (2) existing Torrens Title allotments at: - Lot 18, DP35824, No 97 Punchbowl Rd, and, - Lot 19, DP35824, No 99 Punchbowl Rd, Belfield
STREET ADDRESS	97-99 Punchbowl Rd, Belfield
AREA	1,107sqm (Survey)
PLANNING INSTRUMENTS	Strathfield LEP 2012, Strathfield Development Control Plan 2015

The land upon which the development is proposed is situated on the north-eastern corner of Punchbowl Road and Cecily Street, Belfield. It consists of two (2) existing Torrens Title allotments upon which two single storey dwelling houses have been constructed – one on each site.

The site is a short distance north-east of the Enfield rail corridor and the Roberts road light industrial precinct. The Hume Highway (Liverpool Road) is approximately 500m north of the site, with the Strathfield and Burwood town centres and business precincts a short distance further.

The immediate surrounding development consists of primarily of low density housing to the north, south and west. The area in which the development is proposed is zoned R2 – Low Density Residential.

1.3 APPLICANTS DETAILS

APPLICANT	Mode Design Architects for the NSW Land and Housing Corporation
ADDRESS	Level 5, 111-117 Devonshire Street, Surry Hills. NSW. 2010.
TELEPHONE	02 8396 9500
E-MAIL	Ichandiok@modedesign.com.au

1.4 PROPOSAL

The proposal involves:

- The demolition of all existing buildings and structures,
- The construction of eight (8) self-contained dwellings, and,
- Associated site works and infrastructure.

Egress from the development will be onto Cecily Street onto the north-western frontage of the development.

One (1) Waste Storage Area (WSA) will be provided for the storage of all waste, recycling and green waste bins required for the development. It is located adjacent to the northern side boundary of the site as indicated on the Architectural Drawings.

Existing structures on the site are: -

- No 97 Punchbowl Road – a single storey brick and tile dwelling, rear awning and paved area, concrete driveway, concrete area and brick wall, front and rear grassed yard areas, trees, shrubs and miscellaneous vegetation, and timber paling and brick perimeter fencing, and,
- No 99 Punchbowl Road – a single storey brick and tile dwelling, rear veranda and paved area, detached carport and concrete driveway off Cecily Street, concrete areas and pathways, front and rear grassed yard areas, trees, shrubs and miscellaneous vegetation, and timber paling, weld mesh and brick perimeter fencing.

The project consists of: -

- a) The demolition of all existing buildings and structures on the site on the site,
- b) The removal of all demolished materials in accordance with this WMP,
- c) The construction of the buildings:
- d) The provision of landscaping, driveways, concrete pathways and other elements associated with the development; and,
- e) The on-going use of the building.

PART 2 – DEMOLITION

2.1 DEMOLITION – GENERALLY

It is recognised that Sydney has an ever-increasing waste problem, and this practice is not sustainable. In alignment with current NSW waste management legislation, this WMP aims, where possible, to promote waste avoidance, reuse and the recycling of material, particularly during the course of demolition and construction works.

Part 2.2 on Pages 6, 7, 8, 9, 10, and 11 of this WMP describes the manner in which waste is to be managed during the course of the demolition of the existing structures.

The processes outlined in Part 2.2 are to be read in conjunction with and comply with the this WMP. It will be the developer's overall responsibility to ensure compliance in this regard.

All material moved offsite shall be transported in accordance with the requirements of the Protection of the Environment Operations Act (1997).

Approved receptacles of an appropriate size will be located on site for the collection of food scraps, beverage containers, and other waste generated on site by workers.

2.2 BUILDINGS TO BE DEMOLISHED

Current structures on the site include:

Existing structures on the site are: -

- No 97 Punchbowl Road – a single storey brick and tile dwelling, rear awning and paved area, concrete driveway, concrete area and brick wall, front and rear grassed yard areas, trees, shrubs and miscellaneous vegetation, and timber paling and brick perimeter fencing, and,
- No 99 Punchbowl Road – a single storey brick and tile dwelling, rear veranda and paved area, detached carport and concrete driveway off Cecily Street, concrete areas and pathways, front and rear grassed yard areas, trees, shrubs and miscellaneous vegetation, and timber paling, weld mesh and brick perimeter fencing.

All buildings and structures are to be demolished.

2.3 MANAGEMET OF HAZARDOUS MATERIALS

Due to the age and construction of the existing buildings on the site, there is reasonable potential for hazardous building materials to be present in the buildings to be demolished. Accordingly, the generation, storage, treatment and the disposal of hazardous waste (including asbestos) will be conducted in accordance with relevant waste legislation administered by the NSW EPA and any applicable WH&S legislation administered by Work Cover NSW.

All friable and non-friable asbestos-containing material shall be handled and disposed of off-site at an EPA licensed waste facility by an EPA licensed contractor in accordance with the requirements of the Protection of the Environment Operations (Waste) Regulation 2014 and the Waste Classifications Guidelines – Part 1 'Classifying Waste (EPA 2014) and any other instrument as amended.

All friable hazardous waste arising from the demolition process shall be removed and

disposed of in accordance with the requirements of Work Cover NSW and the EPA, and with the provisions of:

- a) Work Health and Safety Act 2011,
- b) NSW Protection of the Environment Operations Act 1997 (NSW), and,
- c) NSW Department of Environment and Climate Change Environmental Guidelines; Assessment, Classification and Management of Liquid and Non-Liquid Wastes.

2.4 DEMOLITION – RECYCLING, REUSE & DISPOSAL DETAILS

The following details prescribe the manner in which all materials involved in the demolition of the building will be dealt with, and include: -

- a) An estimate of the types and volumes of waste and recyclables to be generated,
- b) A site plan showing sorting and storage areas for demolition waste and vehicle access to these areas (see Part 2.3 of this Plan),
- c) How excavation and demolition waste materials will be reused, and, or recycled and where residual wastes will be disposed (see below), and,
- d) The total percentage of demolition waste that will be reused or recycled.

It is noted that the quantities of materials detailed in this section (Part 2.2) are estimates only, based on current industry standards and quantity analysis, and may vary due to the prevailing nature of site constraints, weather conditions, and any other unforeseeable activities associated with the demolition works, which are beyond the control of the developer, including but not being limited to theft, accidents, and, or, other acts of misadventure.

Notwithstanding any of the above, the developer will provide Council with all details in relation to any major variations into this Plan.

1. Excavated Materials & Overburden

Volume / Weight	385 cubic metres / 655 Tonnes
On Site Reuse	No all materials to be disposed of off-site.
Percentage Reused or Recycled	To be determined (see above comments)
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

2. Green Waste

Volume / Weight	100 cubic metres / 15 Tonnes
On Site Reuse	No – all to be processed off site.
Percentage Reused or Recycled	90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

3. Bricks

Volume / Weight	60 cubic metres / 60 Tonnes
On Site Reuse	No – all to be processed off site.
Percentage Reused or Recycled	75% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

4. Concrete

Volume / Weight	40 cubic metres / 96 Tonnes
On Site Reuse	No – all to be processed off site.
Percentage Reused or Recycled	60% - 75%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646)

5. Timber

Volume / Weight	55 cubic metres / 22 Tonnes
On Site Reuse	No – all to be processed off site.
Percentage Reused or Recycled	65% - 90%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Auburn Waste & Recycling Centre, Old Hill Link, Homebush Bay (Tel 1300 651 116)

6. Plasterboard & Fibro

Volume / Weight	40 cubic metres / 14 Tonnes
On Site Reuse	Nil – All to be processed and disposed of off-site.
Percentage Reused or Recycled	To be determined (dependent on asbestos content)
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544
Off Site Destination (Asbestos)	or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

7. Metals / Steel / Guttering & Downpipes

Volume / Weight	60 cubic metres / 20 Tonnes
On Site Reuse	No
Percentage Reused or Recycle	60% - 90%
Off Site Destination	Boral Recycling, 3 Thackeray Street, Camelia (Tel 9529 4424) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Jacobson Metaland, 62-70 Silverwater Road, Silverwater (Tel 02 9748 2487)

8. Tiles

Volume / Weight	40 cubic metres / 30 Tonnes
On Site Reuse	No – all to be processed off site.
Percentage Reused or Recycle	80% - 90%
Off Site Destination	Obsolete Tiles, 3 South Street, Rydalmere. (Tel 02 9684 6333) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646)

9. Fixture & Fittings (Doors Fittings, Other Fixtures, etc.)

Volume	60 cubic metres / 21 Tonnes
On Site Reuse	No – all to be processed off site.
Percentage Reused or Recycle	80% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

10. Glass, Electrical & Light Fittings, PC Items, Ceramics, etc.

Volume / Weight	50 cubic metres / 17.5 Tonnes
On Site Reuse	No
Percentage Reused or Recycle	To be determined (dependent upon nature of material)
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

11. Residual Waste

Volume / Weight	90 cubic metres / 90 Tonnes
On Site Reuse	No
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.
Notes on calculation of volume of residual waste	<ol style="list-style-type: none">1. In calculating the amount of residual waste produced from the demolition of all buildings on site, it is estimated that approximately 10% of it, will be residual waste.2. As all of the materials vary in weight per volume, a figure of 1 cubic metre of material is equal to 1 tonne in weight has been used.

The facilities and agencies that have been nominated to receive the materials listed above have been identified within the NSW waste industry as being a facility or agency that will accept the materials specified in each respective table.

The developer understands that any costs associated with the transportation and receipt of these materials will be their responsibility.

The developer is under no obligation to use any nominated facility or agency, but should any alternative arrangements be made, it will be the developers' responsibility to ensure that all demolished materials removed from the site are disposed of, or processed, appropriately.

The developer will keep a written record of all documentation associated with the transportation, disposal and processing of all materials associated with the demolition of all structures on site.

2.5 DEMOLITION – ON SITE STORAGE OF MATERIALS

During the demolition stage of the project, an area will be set aside on the site as a compound for the on-site storage of materials prior to their removal from the site. This compound will provide for: -

- Material sorting,
- Segregation of materials that may be hazardous and which will be required to be disposed of,
- Recovery equipment, such as concrete crushers, chippers, and skip bins,
- Material storage, and,
- Access for transport equipment.

Appropriate vehicular access will be provided on and off site, and to the compound, to enable the efficient removal of reusable, recyclable, and waste materials.

Prior to the commencement of demolition works, the developer will provide Council with a 'Site Plan for the On-Site Storage of Materials at Demolition'. This plan will show in detail the location of each area within the compound, set aside for the segregated storage of all materials involved in the demolition of all buildings on the site.

2.6 DEMOLITION – EXCAVATED MATERIAL

All excavated material removed from the site, as a result of the demolition of all buildings, must be classified in accordance with the Department of Environment, Climate Change and Water NSW Waste Classification Guidelines prior to their removal, transportation and disposal to an approved waste management facility.

All relevant details must be reported to the PCA.

PART 3 – CONSTRUCTION

3.1 CONSTRUCTION – GENERALLY

Upon completion of all demolition works, construction of the building will commence with the excavation of the site. All materials sourced from these activities will be disposed of in accordance with the information provided in Part 3.2 on pages 13, 14, 15, 16, 17 and 18 of this WMP.

Additionally, all materials used in the construction of the building that are not required to be incorporated into it, shall be recycled, reused or disposed of in accordance with these provisions, and the requirements of the Protection of the Environment Operations Act (1997). It will be the developer's overall responsibility to ensure compliance in this regard.

Mobile Bins of an appropriate size will be located on site for the collection of food scraps, beverage containers, and other waste generated on site by workers.

3.2 CONSTRUCTION – RECYCLING, REUSE & DISPOSAL DETAILS

The following details prescribe the manner in which all materials surplus to the construction of the building will be dealt with, and includes: -

- a) An estimate of the types and volumes of waste and recyclables to be generated,
- b) A site plan showing sorting and storage areas for construction waste and vehicle access to these areas (see Part 3.3 of this Plan),
- c) How excavated and other materials surplus to construction will be reused or recycled and where residual wastes will be disposed (see below); and,
- d) The total percentage of waste surplus to construction to be reused or recycled.

1. Excavated Materials

Volume / Weight	125 cubic metre / 212.50 Tonnes
On Site Reuse	No – all to be processed off site.
Percentage Reused or Recycled	To be determined (see above comments)
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

2. Bricks

Volume / Weight	5 cubic metres / 6.5 Tonnes
On Site Reuse	No – all to be processed off-site.
Percentage Reused or Recycle	75% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

3. Concrete

Volume / Weight	5 cubic metres / 12 Tonnes
On Site Reuse	Nil – All to be processed off-site.
Percentage Reused or Recycled	60% - 75%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

4. Timber

Volume / Weight	5 cubic metres / 7 Tonnes
On Site Reuse	Nil – All to be processed off-site.
Percentage Reused or Recycled	65% - 90%
Off Site Destination	Artistic Popular Furniture, 10 Raglan Road, Auburn (Tel 02 96443054) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 651 116)

5. Plasterboard & Fibro

Volume / Weight	8 cubic metres / 2.5 Tonnes
On Site Reuse	No – all material will be transported for disposal off-site.
Percentage Reused or Recycled	To be determined
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

6. Metals / Steel / Guttering & Downpipes

Volume / Weight	5 cubic metres / 1.75 Tonnes
On Site Reuse	No
Percentage Reused or Recycled	60 – 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

7. Roof Tiles / Tiles

Volume / Weight	4 cubic metres / 3 Tonnes
On Site Reuse	Nil – All to be processed off-site.
Percentage Reused or Recycled	80% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.

8. Plastics

Volume / Weight	6 cubic metres / 1 Tonne
On Site Reuse	Nil
Percentage Reused or Recycled	80% - 95%
Off Site Destination	Recycle Works, 45 Parramatta Road, Annandale (Tel 02 9517 2711) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 651 116)

9. Glass, Electrical & Light Fittings, PC items

Volume / Weight	6 cubic metres / 1 Tonne
On Site Reuse	No
Percentage Reused or Recycled	70% - 90%
Off Site Destination	To an approved agency Facility.

10. Fixture & Fittings (Doors Fittings, Other Fixtures, etc)

Volume	5 cubic metres / 1.75 Tonnes
On Site Reuse	Nil – All to be processed off-site.
Percentage Reused or Recycle	80% - 90%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 651 116) or, Recycle Works, 45 Parramatta Road, Annandale (Tel 02 9517 2711)

11. Pallets

Volume / Weight	25 cubic metres / 8 Tonne
On Site Reuse	No
Percentage Reused or Recycle	90% - 100%
Off Site Destination	To an approved agency, or agencies, for reuse and resale.

12. Residual Waste

Volume / Weight	50 cubic metres / 50 Tonnes
On Site Reuse	No
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Blacktown Waste Services, 920 Richmond Road, Marsden Park. Tel 9835 4544 or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, To another approved Facility.
Notes on calculation of volume of residual waste	<ol style="list-style-type: none"> 1. In calculating the amount of residual waste produced from the demolition of all buildings on site, it is estimated that 10% of it, will be residual waste. 2. As all of the materials vary in weight per volume, a figure of 1 cubic metre of material is equal to 1 tonne in weight has been used.

It is noted that the quantities of materials detailed in this section (Part 3.2) are estimates only, based on current industry standards and quantity analysis, and may vary due to the prevailing nature of construction constraints, weather conditions, and any other unforeseeable activities associated with the construction of the buildings, which are beyond the control of the developer, including but not being limited to theft, accidents, and other acts of misadventure.

Notwithstanding any of the above, the developer will provide Council with all details in relation to any major variations in this regard.

The facilities and agencies that have been nominated to receive the materials listed above have been identified within the NSW waste industry as being a facility or agency that will accept the materials specified in each respective table.

The developer understands that any costs associated with the transportation and receipt of these materials will be their responsibility.

The developer is under no obligation to use any nominated facility or agency, but should any alternative arrangements be made, it will be the developers' responsibility to ensure that all materials excess to construction removed from the site are disposed of, or processed, appropriately.

The developer will keep a written record of all documentation associated with the transportation, disposal and processing of all materials associated with the excavation of the site and all waste materials excess to construction. This information is to be made available at the request of an Authorised Officer of Council.

Additionally, during the construction of the building, every effort will be made to reduce and minimise the amount of building materials excess to its construction.

3.3 CONSTRUCTION – ON-SITE STORAGE OF MATERIALS

During the construction of the buildings, an area will be set aside on the site as a compound for the on-site storage of materials prior to their removal from the site. This compound will provide for: -

- Material sorting,
- Segregation of materials that may be hazardous and which will be required to be disposed of,
- Recovery equipment, such as concrete crushers, chippers, and skip bins,
- Material storage, and,
- Access for transport equipment.

Appropriate vehicular access will be provided on and off site, and to the compound, to enable the efficient removal of reusable, recyclables, and waste materials.

Prior to the commencement of construction works, the developer will provide Council with a 'Site Plan for the On-Site Storage of Materials at Construction'. This plan will show in detail the location of each area within the compound, set aside for the segregated storage of all materials involved in the demolition of all buildings on the site.

3.4 CONSTRUCTION – EXCAVATED MATERIAL

All excavated material removed from the site, as a result of any activities associated with the construction of the building, must be classified in accordance with the Department of Environment, Climate Change and Water NSW Waste Classification Guidelines prior to removal, transportation and disposal to an approved waste management facility.

All relevant details must be reported to the PCA.

PART 4 – ON GOING USE OF BUILDING

4.1 OBJECTIVES

1. To ensure that the storage, amenity and management of waste is sufficient to meet the needs of the development.
2. To ensure that all waste management activities are carried out effectively and efficiently, and in a manner, that promotes the principles of health, safety, and convenience.
3. To promote waste minimisation practices.

4.2 ASSUMPTIONS

In preparing this proposal, the following assumptions have been made: -

1. The proposal involves the construction of a two (2) x storey residential building comprising of eight (8) self-contained dwellings, and,
2. For the purposes of the provision of waste management services, Strathfield Council classifies all buildings, such as dwellings of this type, as single unit dwellings (SUD's).
3. For single dwelling households, the Council provides a 2-bin waste collection system.
4. One (1) Waste Storage Area (WSA) is provided for the storage of all bins associated with the use and occupation of the dwellings and is located adjacent to the northern side boundary of the site at the end of the driveway as indicated on the Architectural Drawings.
5. The WSA will accommodate the required number of waste and recycling bins required for each dwelling – 4 x 240-litre waste bins and 4 x 240-litre recycling bins.
6. All 240-litre red lidded waste bins will be serviced weekly.
7. All 240-litre yellow lidded recycling bins will be fortnightly.
8. All waste and recycling generation rates have been calculated based on information provided in Council's Waste Management DCP for multi-unit dwellings.
9. All waste and recycling bins will be serviced from the Cecily Street kerbside as detailed in Part 4.6.4 on pages 21-22.
10. Strathfield Council will provide all waste and recycling services to the development.
11. The Land and Housing Corporation will appoint a Contractor whose responsibilities will include the management of all waste and recycling activities including, storage, collection, and maintenance requirements.

4.3 WASTE HANDLING & MANAGEMENT

As part of the kitchen fit-outs of each unit, cabinets will be provided within the unit so that separate and clearly marked and distinguishable waste and recycling containers will be accommodated.

This is aimed to encourage residents to source separate their waste and recycling materials in a convenient and efficient manner. Additionally, sufficient space will be provided within each unit for the storage of a minimum of one (1) day's waste and recycling material.

4.4 WASTE & RECYCLING – SERVICE REQUIREMENTS

All waste and recycling materials will be stored in approved receptacles of an appropriate size as specified in this WMP.

The lids of the bins shall be closed at all times to reduce litter, stormwater pollution, odour and vermin.

The Council in general requires that colour coded receptacle lids that distinguish each service component are to be provided: -

- Waste Service – Red Lidded receptacle, and,
- Recycling Service – Yellow Lidded receptacle.

No green waste service will be provided.

All green waste will be managed and disposed of by a contractor appointed by the LAHC.

4.5 WASTE & RECYCLING – SERVICE ARRANGEMENTS

The following table (Table 1) specifies the criteria for waste and recycling generation rates based on: -

- Waste – 1 x 240-litre red lidded mobile waste for every two (2) dwellings serviced weekly, and,
- Recycling – 1 x 240-litre yellow lidded mobile recycling bin for every two (2) dwellings serviced fortnightly.

All waste and recycling generation rates have been calculated based on information provided on Council's website for New Residential Development for Multi-Unit dwellings.

TABLE 1 – RESIDENTIAL WASTE & RECYCLING GENERATION RATES

SERVICE TYPE	UNITS	BIN SPACE PER UNIT	TOTAL SPACE REQUIRED	BINS SIZE	SERVICES PER WEEK	BINS REQUIRED	BINS PROVIDED
Waste	8	120	960	240	1	4.0	4
Recycling	8	120	960	240	Fortnightly	4.0	4

The following table (Table 2) specifies the proposed bin servicing requirements for the building and is based on the above waste and recycling generation rates: -

TABLE 2 – PROPOSED SERVICING ARRANGEMENTS

WASTE	4 x 240-litre bins / One (1) Service per Week
RECYCLING	4 x 240-litre bins / One (1) Service per Fortnight

4.6 PROVISION OF WASTE & RECYCLING SERVICES

4.6.1 Waste and Recycling Collection Service Provider Details

Strathfield Council will provide all waste and recycling services.

4.6.2 Details of Mobile Containers

In relation to the size and design of the waste and recycling mobile bins, the following technical information is provided: -

CONTAINER TYPE	HEIGHT (metres)	DEPTH (metres)	WIDTH (metres)
240-litre mobile container	1.080	0.735	0.585

4.6.3 Waste Storage Area (WSA)

The WSA is located adjacent to the northern side boundary of the site as indicated on the Architectural Drawings. It is a partially enclosed structure measuring 4.5m x 2.4m with an area of 10.80sqm. Within its confines will be storage space for:

- 4 x 240-litre mobile waste bins, and,
- 4 x 240-litre mobile recycling bins.

4.6.4 Bin Presentation Requirements

All residential waste and recycling services will take place from the Cecily Street kerbside. According to the Survey Plan, the site has a frontage to Cecily Street of approximately 32 metres.

The information provided herein will demonstrate that all waste and recycling services can be provided from the kerbside in a manner that will not impact negatively on the principles of health, safety and convenience.

The table below describes the presentation scenario on the different collection days and the number of bins to be presented at any one time.

TABLE 3 – BIN PRESENTATION

Service Component	Collection Point	Frontage (metres)	No of Bins Presented	Length of Bins on Kerb	% of Bins over Frontage
Waste (Week 1)	Cecily St	32.00	4 x 240-litre Waste Bins	3.54m	11.06%
Waste & Recycling (Week 2)	Cecily St	32.00	4 x 240-litre Waste Bins 4 x 240-litre Recycling Bins	7.08m	22.12%

Notes

1. Calculations for 240-litre bins include the bin width 0.585m plus 0.300m clearance between bins as per industry standards.
2. Based on the proposed collection schedule it is intended to service waste bins one (1) day per week and recycling bins one (1) day per fortnight.
3. On Week 1, the day that the Waste Bins will be serviced, there will be 4 x 240-litre bins presented for collection occupying 11.06% of the kerb.
4. On Week 2, the day that both the Waste and Recycling Bins will be serviced, there will be 8 x 240-litre bins presented for collection occupying 22.12% of the kerb.
5. Driveway and Splay excluded from calculations.

Based on the above calculations, the maximum number of bins presented for collection will occupy 7.08m of the site's frontage or 22.12% of it. All bins will be presented for servicing in single file with the handles facing the kerb.

All waste bins will be presented for servicing by a contractor appointed by the LAHC.

All waste bins will be serviced by Strathfield Council from the kerbside. The waste bins will be presented at one (1) kerbside location.

Waste bins will be presented for collection no earlier than 4.00pm on the evening prior to servicing and returned to each WSA as soon as practicable after they have been serviced but no later than two (2) hours after.

4.6.5 Servicing Arrangements – Waste Collections

All waste services will be provided by Strathfield Council. All waste services will be provided as specified in Part 4.6.4 above.

Waste bins will be serviced weekly on a day to be determined by the Council.

All 4 x 240-litre waste bins will be presented for servicing on each collection day.

4.6.6 Servicing Arrangements – Recycling Collections

All recycling services will be provided by Strathfield Council. All recycling services will be provided as specified in Part 4.6.4 above.

Recycling bins will be serviced fortnightly, on a day to be determined by the Council.

All 4 x 240-litre recycling bins will be presented for servicing on each collection day.

4.7 GREEN WASTE

No green waste service will be provided. All green waste will be managed and disposed of by a contractor appointed by the LAHC.

4.8 ON GOING OPERATION, USE & MAINTENANCE OF WASTE MANAGEMENT FACILITIES

All waste management facilities will be maintained in a clean and hygienic condition that will promote the principles of health, safety and convenience.

In order to achieve these objectives, the following facilities and devices will be required: -

1. All waste storage areas will be maintained in a clean and tidy state at all times.
2. It will be the responsibility of each individual resident to ensure that all waste storage areas, are cleaned and maintained in an appropriate condition.
3. It will be the responsibility of each individual resident to ensure that the transfer of bins within the property and to the waste bin collection area, are carried out as described in this WMP.
4. All mobile bins will be washed and cleaned on a regular basis.
5. The residents each individual dwelling unit will be responsible for ensuring that all waste and recyclable material are stored within the appropriate containers provided.

PART 5 – SUMMARY

5.1 SUMMARY

In summarising this proposal, the following information is provided:

1. This Waste Management Plan (WMP) has been developed and documented in accordance with the requirements of Strathfield Council and the NSW Land and Housing Corporation (LAHC).
2. This WMP aims to promote the use of recyclable materials in the excavation, construction and on-going operation of the building.
3. This WMP aims to ensure the design of waste and recycling storage facilities are of an adequate size, appropriate for the intended use of the buildings, hygienic with safe and manoeuvrable access.
4. This WMP aims to ensure that the provision of waste and recycling services to the completed buildings are carried out in an efficient manner, which will promote the principles of health, safety and convenience.

The measures set out in this WMP aim to demonstrate that all such activities will be carried out efficiently and effectively, in a healthy, safe and convenient manner, to acceptable community standards, the buildings occupants, and to the requirements of Strathfield Council.
