

DICKENS SOLUTIONS

(REF – 21311)

WASTE MANAGEMENT PLAN

BAINI DESIGN ARCHITECTS

PROPOSED CHILD CARE CENTRE @ 198 BENNETT STREET ST. CLAIR

FEBRUARY 2022

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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 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: -

1. Satisfy all State and Local Government regulatory controls regarding waste management and minimisation practices,
2. Promote the use of recyclable materials in the excavation, construction, and on-going operation of the building,
3. Maximise waste reduction, material separation, and resource recovery in all stages of the development,
4. 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,
5. 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.

The land on which the development is proposed is located within the Penrith City LGA.

This WMP is prepared in accordance with: -

- Penrith Local Environment Plan 2010,
- Penrith DCP 2014 and relevant waste management guidelines,
- All Conditions of Consent to be issued under the approved DA for the project,
- All relative requirements of SEPP Educational Establishments and Child Care Facilities) 2017, as they apply to the provision of waste management facilities and services,
- Current industry standards and practices for the storage and collection of waste within Commercial Developments, specifically for Child Care Centres, and,
- The objective of ensuring that all waste management facilities and collection services will provide an outcome that will be effective and efficient, as well as promote the principles of health, safety, and convenience.

This Waste Management Plan has been prepared for a Development Application to be submitted to Penrith City Council, for the construction of a two (2) storey building, over one (1) basement level, to be used as a Child Care Centre, at 1 Jordon Avenue, Cambridge Park. The centre will provide day care services for 53 children.

This WMP is dated 1 February 2022.

1.2 PROJECT & PROPERTY DESCRIPTION

This Waste Management Plan (WMP) has been specifically designed for the development described below: -

DESCRIPTION	Child Care Centre (53 Children)
DETAILS	Two (2) Storey building, comprising: <ul style="list-style-type: none">- Three (3) x Indoor Playrooms,- Two (2) Outdoor Play Areas,- Cot Rooms and Nappy Change,- Kitchen, staff amenities, offices, and storerooms,- One (1) basement level,- Associated site works, drainage, landscaping and ancillary facilities; and,- The provision of waste storage facilities.
PROPERTY DESCRIPTION	The development is to be constructed over one (1) existing Torrens Title allotment at Lot 1156, in DP259309, 198 Bennett Road, St. Clair.
LOCATION	198 Bennett Road, St. Clair
DIMENSIONS	Refer to Architectural Drawings
AREA	916sqm (Survey)
LGA	Penrith City Council
ZONING	Zone R1 – General Residential
PLANNING INSTRUMENTS	Penrith LEP 2010 Penrith DCP 2014

The site is located on the north-eastern corner of Bennett Road and Coonawarra Road, St. Clair, a short distance north-west of Erskine Park Road.

The site currently comprises of one (1) Torrens Title allotment upon which a single storey brick and tile dwelling exists. The dwelling and all associated structures on the site will be demolished and the materials removed.

The immediate surrounding area predominantly consists of a mix of low and medium density housing to the south, with the St Clair shopping centre approximately 1km north of the site.

The Western Motorway is approximately 1.0km north and the Penrith CBD 2km north-west.

1.3 APPLICANTS DETAILS

APPLICANT	Baini Design Architects
ADDRESS	1B Villiers Street, Parramatta. NSW. 2150.
TELEPHONE	02 9188 8250
E-MAIL	claire@bainidesign.com.au

1.4 PROPOSAL

The proposal involves the construction of a two (2) storey building, the demolition of other existing buildings, and one (1) basement level, to be used as a Child Care Centre.

The centre will provide day care services for 53 children.

Egress from the site is onto Coonawarra Road at the south-western frontage of the site.

Waste storage facilities are located in a designated Waste Storage Area (WSA) located in the south-western section of the basement as indicated on the Architectural Drawings.

Current buildings and structures on the site include a single storey brick and tile dwelling, attached veranda, attached garage, detached metal shed, concrete driveway and paving, and brick retaining wall, with access from Coonawarra Road, front and rear grassed areas and some shrubs, and metal panel perimeter fencing.

The project consists of: -

1. The demolition of the dwelling and associated structures, and the removal of all materials from the site,
2. Levelling and clearing of the site,
3. The excavation of the site to construct the basement and building,
4. The construction of the building,
5. The provision of landscaping, off street-car park, driveways, concrete pathways and other elements associated with the development, and,
6. The on-going use of the building.

Penrith City Council require a demolition, construction, and operational waste management plan to be submitted describing how all demolition, construction and operational waste will be stored, disposed of, and managed.

This Waste Management Plan has been developed not only to satisfy Council's requirements, but also to ensure that all waste management activities associated with the development are carried out and conducted in accordance with best practice industry standards.

PART 2 – DEMOLITION

2.1 DEMOLITION

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, 11, and 12 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 Development Consent issued in respect of the proposal. 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 buildings and structures on the site include a single storey brick and tile dwelling, attached veranda, attached garage, detached metal shed, concrete driveway and paving, and brick retaining wall, with access from Coonawarra Road, front and rear grassed areas and some shrubs, and metal panel perimeter fencing.

2.3 MANAGEMENT OF HAZARDOUS WASTE 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.

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 Liquide and Non-Liquid Wastes.

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 WH&S legislation administered by Work Cover NSW.

2.4 DEMOLITION – RECYCLING, REUSE & DISPOSAL DETAILS

The following details prescribe the manner in which all material involved in the demolition 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 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 part (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 in this regard.

1. Excavated Materials & Overburden

Volume / Weight	320 cubic metres / 544 Tonnes
On Site Reuse	Yes. Keep and reuse topsoil for landscaping. Store on site. Use some for support of retaining walls (Excavated Materials are only to be used if the material is not contaminated or has been remediated in accordance with any requirements specified by any Environmental Consultancy engaged to carry out any contamination assessment of excavated material).
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, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, other authorised facility.

2. Green Waste

Volume / Weight	95 cubic metres / 14.25 Tonnes
On Site Reuse	To be separated. Chipped and stored on site for re-use in landscaping.
Percentage Reused or Recycled	90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) other authorised facility.

3. Bricks

Volume / Weight	55 cubic metres / 55 Tonnes
On Site Reuse	Clean and remove lime mortar from bricks. Re-use in new footings. Broken bricks for internal walls. Crush and reuse as drainage backfill. Crushed and used as aggregate.
Percentage Reused or Recycled	75% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) other authorised facility.

4. Concrete / Paving

Volume / Weight	35 cubic metres / 84 Tonnes
On Site Reuse	Existing driveways to be retained during construction. Crushed and used as aggregate, drainage backfill.
Percentage Reused or Recycled	75% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) other authorised facility.

5. Timber

Volume / Weight	40 cubic metres / 16 Tonnes
On Site Reuse	Re-use for formwork and studwork, landscaping, shoring.
Percentage Reused or Recycled	65% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, other authorised facility.

6. Plasterboard & Fibro

Volume / Weight	30 cubic metres / 10.50 Tonnes
On Site Reuse	No. All materials will be processed off-site
Percentage Reused or Recycled	To be determined (dependent on asbestos content)
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Eco cycle, 155 Newtown Road, Wetherill Park (Tel 02 0757 2999) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112.
Off Site Destination (Asbestos)	

7. Metals / Steel / Guttering & Downpipes

Volume / Weight	45 cubic metres / 15 Tonnes
On Site Reuse	No
Percentage Reused or Recycle	60% - 90%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256)

8. Roof Tiles / Tiles

Volume / Weight	30 cubic metres / 22.50 Tonnes
On Site Reuse	Broken up and used as fill, aggregate, driveways.
Percentage Reused	80% - 90%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, Hallinan's Recycling Centre, 37 Lee Holm Road, St. Marys (Tel 02 9833 0883).

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

Volume	80 cubic metres /26.40 Tonnes
On Site Reuse	No. All material will be processed or disposed of Off-site.
Percentage Reused or Recycle	80% - 90%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Hallinan's Recycling Centre, 37 Lee Holm Road, St. Marys (Tel 02 9833 0883).

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

Volume / Weight	50 cubic metres / 17.50 Tonnes
On Site Reuse	No
Percentage Reused or Recycle	To be determined (dependent upon nature of material)
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, other authorised facility.

11. Residual Waste

Volume / Weight	80 cubic metres / 80 Tonnes
On Site Reuse	No
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Other authorised 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 2.2) 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 demolition 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 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 for the basement levels of the building. 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	2,800 Cubic Metres / 4,760 Tonnes
On Site Reuse	Yes. Keep and reuse topsoil for landscaping. Store on site. Use some for support of retaining walls (Excavated Materials are only to be used if the material is not contaminated or has been remediated in accordance with any requirements specified by any Environmental Consultancy engaged to carry out any contamination assessment of excavated material).
Percentage Reused or Recycled	To be determined (see above comments)
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256).

2. Bricks

Volume / Weight	5 cubic metres / 5 Tonnes
On Site Reuse	Clean and remove lime mortar from bricks. Broken bricks for internal walls. Crush and reuse as drainage backfill. Crushed and used as aggregate.
Percentage Reused or Recycle	75% - 90%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, other authorised facility.

3. Concrete

Volume / Weight	6 cubic metres / 14.4 Tonnes
On Site Reuse	Existing driveway to be retained during construction. Crushed and used as aggregate, drainage backfill.
Percentage Reused or Recycled	60% - 75%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, other authorised facility.

4. Timber

Volume / Weight	5 cubic metres / 7 Tonnes
On Site Reuse	Re-use for formwork and studwork, and for landscaping
Percentage Reused or Recycled	65% - 90%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, other authorised facility.

5. Plasterboard & Fibro

Volume / Weight	6 cubic metres / 2 Tonnes
On Site Reuse	No – all material will be transported for disposal off-site.
Percentage Reused or Recycled	To be determined
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, Eco cycle, 155 Newtown Road, Wetherill Park (Tel 02 0757 2999).

6. Metals / Steel / Guttering & Downpipes

Volume / Weight	5 cubic metres / 0.25 Tonnes
On Site Reuse	No
Percentage Reused or Recycled	60 – 90%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256).

7. Roof Tiles / Tiles

Volume / Weight	4 cubic metres / 3 Tonnes
On Site Reuse	Broken up and used as fill.
Percentage Reused or Recycled	80% - 90%
Off Site Destination	Obsolete Tiles, 3 South Street, Rydalmere. (Tel 02 9684 6333) or, Hallinan's Recycling Centre, 37 Lee Holm Road, St. Marys (Tel 02 9833 0883) or, Other authorised facility.

8. Plastics

Volume / Weight	5 cubic metres / 1 Tonne
On Site Reuse	Nil
Percentage Reused or Recycled	80% - 95%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256).

9. Glass, Electrical & Light Fittings, PC items

Volume / Weight	5 cubic metres / 1 Tonne
On Site Reuse	No
Percentage Reused or Recycled	70% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116).

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

Volume	10 cubic metres / 3.3 Tonnes
On Site Reuse	No – All to be processed off-site.
Percentage Reused or Recycle	80% - 90%
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, Other authorised facility.

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	300 cubic metres / 300 Tonnes
On Site Reuse	No
Off Site Destination	Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646) or, Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Brandown, Lot 9 Elizabeth Drive, Kemps Creek (Tel 02 9826 1256) or, other authorised 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 all 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 demolition of all structures on site. 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

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 will promote the principles of health, safety and, convenience.
3. To promote waste minimisation practices.

4.2 ASSUMPTIONS

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

1. The proposal involves the construction of a two (2) storey building, the demolition of other existing buildings, and one (1) basement level, to be used as a Child Care Centre.
2. The centre will provide day care services for 53 children.
3. Egress from the site is onto Coonawarra Road at the south-western frontage of the site.
4. Waste storage facilities are located in a designated Waste Storage Area (WSA) located in the south-western section of the basement as indicated on the Architectural Drawings.
5. All mobile waste and recycling bins required for the on-going operation of the development will be stored within the confines of the WSA at all times.
6. Penrith Council requires waste and recycling generation rates for Child Care Centres to be carried of according to the GFA of the development, which is 333sqm at 80-litres per 100sqm of floor area per day.
7. All waste will be stored in 6 x 240-litre mobile bins.
8. All recycling material will be stored in 6 x 240- litre mobile bins.
9. Waste Services will be provided at least one (1) day per week.
10. Recycling services will be provided at least one (1) day per week.
11. As the centre is a commercial operation, a licensed private waste collection contractor will provide all waste and recycling services to the building.
12. All waste and recycling collections will take place from the kerbside, where bins will be presented for collection by the appointed contractor.

4.3 WASTE HANDLING & MANAGEMENT

The proprietors of the Child Care Centre will be responsible for depositing their waste and recycling material into the appropriate bins. All waste is to be placed in the red lidded waste bins. All recyclable material is to be placed in the yellow lidded recycling bins.

All waste and recyclable material is to be removed from the centre at the conclusion of each days' operations and is to be deposited in the appropriate bins provided in the Waste Storage Area (WSA).

Appropriate signage will be erected in a prominent place within the building to assist employees of the Centre to ensure that all waste and recyclable material is placed into the appropriate bins.

4.4 WASTE & RECYCLING – SERVICE REQUIREMENTS

The Child Care Centre is a commercial enterprise, and due to the nature of its use, will generate both waste and recyclable material.

Due to its commercial nature, the provision of residential waste and recycling services to the development do not apply. Accordingly, commercial waste and recycling services will be provided to the Centre.

No formal green waste service will be provided to the building. All green waste will be disposed of privately by a contractor to be appointed by the Proprietor.

It will be the responsibility of the Proprietors of the Child Care Centre to ensure that all green waste is removed from the complex in an appropriate manner.

4.5 WASTE & RECYCLING GENERATION RATES

Penrith Council requires waste and recycling generation rates for Child Care Centres to be carried according to the GFA of the development, which is 333sqm at 80-litres per 100sqm of floor area per day.

Table 1 below provides all details of these calculations.

TABLE 1 – FORMULA FOR CALCULATION WASTE & RECYCLING GENERATION RATES FOR CHILD CARE CENTRES

SERVICE	WASTE & RECYCLING GENERATION RATES
Waste	80.0-litres of waste per floor area per day (80 litres per day @ GFA)
Recycling	80.0-litres of recyclable material per floor area per day (80 litres per day @ GFA)
Sanitary Waste	Refer to Part 4.7 of WMP

The following table (Table 2) specifies the criteria for waste and recycling generation rates based on the above formula.

**TABLE 3 – CHILD CARE WASTE & RECYCLING GENERATION RATES
&
SERVICE REQUIREMENTS**

SERVICE TYPE	WASTE GENERATION RATES Litres of Space / Child / Week		TOTAL SPACE REQUIRED	BIN SIZE	SERVICES PER WEEK	BINS REQUIRED	BINS PROVIDED
	Litres	Gross Floor Area					
Waste	80	80 x 333 / 100 x 5	1,332.00	240	1	5.55	6
Recycling	80	80 x 333 / 100 x 5	1,332.00	240	1	5.55	6
Sanitary	Refer to Part 4.7 of WMP						

The following table (Table 3) specifies the proposed bin servicing arrangements for the development and is based on the above waste and recycling generation rates: -

TABLE 3 – PROPOSED SERVICING ARRANGEMENTS

WASTE	RECYCLING	SANITARY WASTE
6 x 240-litre bins One (1) x Service per Week	6 x 240-litre bins / One (1) x Service per Week	Refer to Part 4.7

4.6 PROVISION OF WASTE & RECYCLING SERVICES

4.6.1 Waste and Recycling Collection Service Provider Details

All commercial waste services and recycling services will be provided by a licensed private waste collection contractor.

The Proprietors of the Child Care Centre will enter into a Service Level Agreement with the waste and recycling contractor in relation to the provision of both waste and recycling services to the development, and the manner in which they will be provided.

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 & Recycling Requirements

Waste and recycling requirements are provided in the table below.

SERVICE	NUMBER OF CONTAINERS	COLLECTION FREQUENCY
Waste Service	6 x 240-litre mobile containers	One (1) Service per Week
Recycling Service	6 x 240-litre mobile containers	One (1) Service per Week

4.6.4 Location, Design, and Construction of Waste Storage Area (WSA)

The WSA is an enclosed rectangular structure located in the south-western side of the basement adjacent to the driveway into the building. It measures 5.2m x 2.5m, with an area of 13.0sqm, and will provide storage space for 6 x 240-litre mobile waste bins and 6 x 240-litre mobile recycling bins.

All mobile waste bins required for the on-going operation of the development will be stored within the confines of this WSA at all times.

4.6.6 Servicing Arrangements – Waste Collections

All waste bins will be presented for servicing at the Coonawarra Road kerbside.

The appointed contractor will be responsible for transporting the waste bins from the Waste Storage Area (WSA) to the collection vehicle waiting at the kerbside.

As the collection of waste bins will be done separately in separate collection vehicles, the maximum number of waste bins to be transported to the collection vehicle on any one collection day will be 5 x 240-litre waste bins.

These bins will be transported from the WSA to the collection vehicle in accordance with all relative work, health, and safety requirements.

No waste bins will be presented to the kerbside for collection until the collection vehicle has arrived at the site.

Waste bins will be serviced one (1) day per week, on a day to be determined by the proprietor of the centre in conjunction with the Contractor. Collections will take place

between 5.00am and 7.00am on each collection day (one (1) day per week).

All 6 x 240-litre mobile waste bins will be presented for servicing on each collection day.

The waste bins will be returned to the WSA as soon as they have been serviced.

4.6.7 Servicing Arrangements – Recycling Collections

All recycling bins will be presented for servicing at the Coonawarra Road kerbside.

The appointed contractor will be responsible for transporting the waste bins from the Waste Storage Area (WSA) to the collection vehicle waiting at the kerbside.

As the collection of recycling bins will be done separately in separate collection vehicles, the maximum number of recycling bins to be transported to the collection vehicle on any one collection day will be 5 x 240-litre recycling bins.

These bins will be transported from the WSA to the collection vehicle in accordance with all relative work, health, and safety requirements.

No recycling bins will be presented to the kerbside for collection until the collection vehicle has arrived at the site.

Recycling bins will be serviced one (1) day per week, on a day to be determined by the proprietor of the centre in conjunction with the Contractor. Collections will take place between 5.00am and 7.00am on each collection day (one (1) day per week).

All 6 x 240-litre mobile recycling bins will be presented for servicing on each collection day.

4.6.8 Bin Transportation Route

The Contractors representative will be responsible for transporting all bins from the Waste Storage Area (WSA) to the collection vehicle stationed at the roadside adjacent to the entry to the site.

Bins will be transported from the WSA across the at-grade basement carpark, a distance of approximately 17 metres, to the driveway ramp up the map to the collection point, using a Mobile Bin Towing Device (MBTD), provided by either the proprietor of the Centre or the Contractor (as agreed).

Details in relation to the supply of the MBTD will be provided to Council, prior to the issue of the Occupation Certificate.

All bins will be transported to and from the WSA in accordance with all relevant WH&S requirements.

4.7 SANITARY WASTE

Sanitary waste includes disposable nappy and incontinence waste product waste and is to be disposed of in accordance with the requirements of the NSW EPA.

According to EPA standards sanitary waste is not classified as clinical waste, as such it does not need to be treated and can be disposed of directly to landfill through supervised burial.

All sanitary waste will be stored in an appropriate number of receptacles and be disposed of separately to the general waste bins by a licensed contractor authorized to do so.

4.8 GREEN WASTE

No formal green waste service will be provided to the development.

It will be the responsibility of the Proprietors of the centre to ensure that all green waste generated from the on-going use of the development is disposed of appropriately.

4.9 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 requirements will apply: -

1. The walls and floor of the WSA will be constructed of smooth faced masonry or concrete.
2. The WSA is to be washed and cleaned on a regular basis.
3. All mobile bins will be washed and cleaned on a regular basis.
4. Any electrical equipment, including the provision of lighting, will be installed in accordance with the relevant Australian Standards.
5. Appropriate signage will be displayed in a prominent position within the Centre identifying the location of the WSA as well as providing instruction to employees on how to use waste and recycling facilities, including what is and what is not recyclable.
6. The proprietor of the centre will be responsible for ensuring that all waste and recyclable matter and materials are placed and 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 has been developed and documented in accordance with the requirements of Council.
2. Council's Waste Management DCP does not prescribe waste and recycling generation rates for Child Care Centres. As such all waste and recycling generations have been calculated according to information obtained in the Better Practice Guide for Resource Recovery in Residential Buildings, published by the NSW EPA.
3. All waste and recycling services will be provided by a licensed private waste and recycling collection contractor.
4. The proprietor of the Child Care Centre will be responsible for ensuring that all on-going waste management activities are carried out in accordance with the provisions of this Waste Management Plan.
5. The WMP aims to promote the use of recyclable materials in the excavation, demolition, construction, and on-going operation of the building.
6. The WMP aims to 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.
7. The 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 effectively and efficiently, in a healthy, safe, and convenient manner, to acceptable community standards, and to the requirements of Penrith City Council.
