

# WASTE MANAGEMENT PLAN

8 Robertson Rd,  
Chester Hill  
18-11-2024

## COMPLETED BY:

CAMPBELL HILL GROUP  
PTY LTD

## PROPOSED DESCRIPTION:

CHILDCARE CENTRE

# TABLE OF CONTENTS

## 01

### PART 1 - OVERVIEW AND PROPOSAL

|     |                                     |   |
|-----|-------------------------------------|---|
| 1.1 | INTRODUCTION                        | 3 |
| 1.2 | DESCRIPTION OF PROJECT AND PROPERTY | 4 |
| 1.3 | PROPERTY APPLICANTS                 | 4 |
| 1.4 | DETAILS PROPOSAL                    | 4 |

## 02

### PART 2 - DEMOLITION

|     |                                                   |    |
|-----|---------------------------------------------------|----|
| 2.1 | DEMOLITION- GENERALLY                             | 6  |
| 2.2 | BUILDINGS TO BE DEMOLISHED                        | 6  |
| 2.3 | MANAGEMENT OF HAZARDOUS WASTE MATERIALS           | 6  |
| 2.4 | DEMOLITION- RECYCLING, REUSE AND DISPOSAL         | 7  |
| 2.5 | DETAILS DEMOLITION - ON SITE STORAGE OF MATERIALS | 9  |
| 2.6 | DEMOLITION- EXCAVATED MATERIAL LICENSED           | 10 |
| 2.7 | PROCESSING AND DISPOSAL FACILITIES                | 10 |

## 03

### PART 3 - CONSTRUCTION

|     |                                             |    |
|-----|---------------------------------------------|----|
| 3.1 | CONSTRUCTION - GENERAL                      | 11 |
| 3.2 | RECYCLING, REUSE & DISPOSAL DETAILS ON SITE | 11 |
| 3.3 | STORAGE OF MATERIALS MATERIAL LICENSED      | 15 |
| 3.4 | PROCESSING AND DISPOSAL                     | 16 |
| 3.5 | FACILITIES                                  | 16 |

## 04

### PART 4 - ON GOING USE

|     |                                           |    |
|-----|-------------------------------------------|----|
| 4.1 | OBJECTIVES                                | 17 |
| 4.2 | ASSUMPTIONS                               | 17 |
| 4.3 | WASTE HANDLING AND MANAGEMENT             | 17 |
| 4.4 | WASTE & RECYCLING- SERVICE REQUIREMENTS   | 18 |
| 4.5 | WASTE & RECYCLING GENERATION RATES        | 18 |
| 4.6 | PROVISION OF WASTE AND RECYCLING SERVICES | 19 |
| 4.7 | SANITARY WASTE ON GOING OPERATION         | 21 |
| 4.9 |                                           | 22 |

## 05

### PART 5 - SUMMARY

24

# PART 1 – OVERVIEW AND PROPOSAL

## 1.1 Introduction

This Waste Management Plan (WMP) outlines the comprehensive approach to managing all waste and materials generated during the demolition, construction, and ongoing operations of the building on the site.

The aims and objectives of this Waste Management Plan (WMP) are to:

1. Comply with all State and Local Government regulations regarding waste management and minimization practices
2. Encourage the use of recyclable materials throughout the excavation, construction, and ongoing operations of the building,
3. Maximize waste reduction, material separation, and resource recovery at every stage of the development,
4. Ensure that waste and recycling storage facilities are appropriately sized, hygienic, accessible, and suited to the building's intended use, and
5. Provide efficient waste and recycling services for the completed buildings that prioritize the health, safety, and convenience of all stakeholders.

The proposed development site is located within the Canterbury Bankstown Local Government Area (LGA).

This Waste Management Plan (WMP) is prepared in accordance with:

- The Draft Canterbury Bankstown Local Environment Plan – March 2020,
- The Bankstown Development Control Plan (DCP) 2015, along with the Canterbury Bankstown Waste Management Guidelines for New Developments,
- All Conditions of Consent issued under the approved Development Application (DA) for the project,
- Relevant requirements of the State Environmental Planning Policy (SEPP) for Educational Establishments and Child Care Facilities 2017, particularly concerning waste management facilities and services,
- Current industry standards and practices for the storage and collection of waste in commercial developments, specifically for Child Care Centres, and
- The objective of ensuring that all waste management facilities and collection services are effective and efficient while promoting health, safety, and convenience principles.

This Waste Management Plan has been developed for a Development Application to be submitted to Canterbury Bankstown Council for the construction of a building with part one (1) and part two (2) stories, along with one (1) basement, designated as a Child Care Centre at 8 Robertson Road, Chester Hill. The centre will accommodate up to 70 children.

This Waste Management Plan (WMP), dated November 18 , 2024, has been prepared to accompany the Development Application (DA) package for submission to Council. The documentation has been developed in accordance with the architectural drawings prepared by Campbell Hill Group Pty Ltd.

## 1.2 PROJECT & PROPERTY DESCRIPTION

This Waste Management Plan (WMP) has been specifically created for the development outlined below:

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>          | Childcare Centre (70 Children)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Details</b>              | One (1) and two (2) storey building, comprising: <ul style="list-style-type: none"><li>- Four (x4) Indoor playrooms</li><li>- Three (3x) Outdoor play areas</li><li>- Two (2x) Children's toilets</li><li>- Reading area</li><li>- Cot room/ Nappy change</li><li>- Kitchen, Staff amenities, Offices and storerooms, laundry room</li><li>- Basement level parking</li><li>- Associated site works, drainage, landscaping and ancillary facilities + the provision of waste storage facilities.</li></ul> |
| <b>Property Description</b> | The development is to be constructions over one existing Torrens Title Allotment at; [LOT 2 DP 444821]                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Location</b>             | 8 Robertson Road, Chester Hill                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Dimensions</b>           | Refer to site and survey plans                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Area</b>                 | 1209.16m <sup>2</sup> (refer to survey)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>LGA</b>                  | Canterbury Bankstown council                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Zoning</b>               | Zone R2- Low density residential                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Planning instruments</b> | Draft Canterbury Bankstown council LEP 2020<br>Bankstown DCP 2015                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 1.5 APPLICANTS DETAILS

APPLICANT - Sam Darwich

C/ - Campbell hill Group Pty Ltd E3, 101

ADDRESS- Rookwood road, Yagonna, NSW 2199 (+61) 433

MOBILE- 375 386

EMAIL- CAMPBELLHILLGROUP@HOTMAIL.COM

## 1.6 PROPOSAL

The proposal involves the construction of a building with part one (1) and part two (2) stories, along with one (1) basement, designated as a Child Care Centre, accommodating up to 70 children. Egress from the site will be onto Robertson Road at the southern frontage. Waste storage facilities will be located in a designated Bin Room (BR) in the south-eastern corner of the basement, as indicated in the architectural drawings.

The current buildings and structures on the site include:

- **8 Robertson Rd:** a single-storey rendered dwelling with front porch, front and rear grassed areas, trees and shrubs, clad garage, shed, swimming pool, a concrete pathway, timber picket and metal panel fencing on the sides and rear, and an awning.

The project consists of

1. Demolition of all existing dwellings and structures.
2. Excavation of the site to facilitate basement construction.
3. Construction of the building.
4. Development of new roads, landscaping, driveways, concrete pathways, and other associated infrastructure.
5. Ongoing utilization of the building.

Canterbury Bankstown Council requires the submission of a demolition, construction, and operational waste management plan that outlines how all waste generated during these phases will be stored, disposed of, and managed. This Waste Management Plan has been developed to meet the Council's requirements while ensuring that all waste management activities related to the development adhere to best practice industry standards.

# **PART 2 - DEMOLITION**

## **2.1 DEMOLITION**

Sydney is facing an escalating waste management challenge, which is increasingly unsustainable. In accordance with current NSW waste management legislation, this Waste Management Plan (WMP) aims to promote waste avoidance, reuse, and recycling, particularly during the demolition and construction phases. Sections 2.2 on pages 6 through 12 of this WMP detail the waste management procedures during the demolition of existing structures. These processes must be followed in conjunction with the Development Consent issued for the proposal, and it is the developer's responsibility to ensure compliance. All materials removed from the site will be transported in accordance with the Protection of the Environment Operations Act (1997). Approved receptacles of suitable size will be provided on-site for the collection of food scraps, beverage containers, and other waste generated by workers.

## **2.2 BUILDINGS TO BE DEMOLISHED**

- 8 Robertson Rd: a single-storey rendered dwelling with front porch, front and rear grassed areas, trees and shrubs, clad garage, shed, swimming pool, a concrete pathway, timber picket and metal panel fencing on the sides and rear, and an awning.

## **2.3 MANAGEMENT OF HAZARDOUS MATERIALS**

Given the age and construction of the existing buildings on the site, there is a reasonable likelihood of hazardous building materials, including asbestos, being present. Therefore, the generation, storage, treatment, and disposal of hazardous waste will be carried out in compliance with relevant waste legislation enforced by the NSW EPA, as well as applicable work health and safety (WHS) regulations administered by SafeWork NSW.

All friable and non-friable asbestos-containing materials will be handled and disposed of off-site at an EPA-licensed waste facility by a contractor licensed by the EPA. This process will adhere to the requirements outlined in the Protection of the Environment Operations (Waste) Regulation 2014 and the Waste Classification Guidelines – Part 1: Classifying Waste (EPA 2014), along with any subsequent amendments.

All friable hazardous waste generated during the demolition process shall be removed and disposed of in accordance with the requirements of SafeWork NSW and the EPA, as well as the following provisions:

- a) Work Health and Safety Act 2011,
- b) NSW Protection of the Environment Operations Act 1997 (NSW)
- 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 outline the approach for managing all materials involved in the demolition of the building:

- a) An estimate of the types and volumes of waste and recyclables to be generated,
- b) Strategies for reusing and recycling demolished waste materials, as well as the disposal locations for residual wastes, and
- c) The total percentage of demolition waste expected to be reused or recycled.

It is important to note that the quantities of materials outlined in this section (Part 2.2) on page 9 are estimates based on current industry standards and quantity analyses. These estimates may vary due to site constraints, weather conditions, and other unforeseen factors associated with the demolition, such as theft, accidents, or other incidents beyond the developer's control. Regardless of these factors, the developer will provide the Council with detailed information regarding any significant variations.

### Excavated Materials

|                               |                                  |
|-------------------------------|----------------------------------|
| Volume / Weight               | 475 cubic metres / 807.50 Tonnes |
| On Site Reuse                 | To be Determined                 |
| Percentage Reused or Recycled | 75% - 90%                        |
| Off Site Destination          | Refer to Part 2.7 on page 11     |

### Bricks

|                               |                                          |
|-------------------------------|------------------------------------------|
| Volume / Weight               | 80 cubic metres / 80 Tonnes              |
| On Site Reuse                 | Clean and remove lime mortar from bricks |
| Percentage Reused or Recycled | 75% - 90%                                |
| Off Site Destination          | Refer to Part 2.7 on page 11             |

### Concrete

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Volume / Weight               | 120 cubic metres / 288 Tonnes                      |
| On Site Reuse                 | Nil – all to be disposed of, or processed off-site |
| Percentage Reused or Recycled | 75% - 90%                                          |
| Off Site Destination          | Refer to Part 2.7 on page 11                       |

**Timber** Volume /

|                               |                                  |
|-------------------------------|----------------------------------|
| Weight                        | 80 cubic metres / 32 Tonnes      |
| On Site Reuse                 | Re-use for formwork and studwork |
| Percentage Reused or Recycled | 65% - 90%                        |
| Off Site Destination          | Refer to Part 2.7 on page 11     |

**Plasterboard and fibro**

|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| Volume / Weight                 | 100 cubic metres / 35 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 (asbestos) | Refer to Part 2.7 on page 11.                    |

**Metals / Steel / Guttering & Downpipes**

|                               |                                 |
|-------------------------------|---------------------------------|
| Volume / Weight               | 125 cubic metres / 43.75 Tonnes |
| On Site Reuse                 | No                              |
| Percentage Reused or Recycled | 60% - 90%                       |
| Off Site Destination          | Refer to Part 2.7 on page 11    |

**Roof Tiles / Tiles**

|                               |                                |
|-------------------------------|--------------------------------|
| Volume / Weight               | 70 cubic metres / 52.50 Tonnes |
| On Site Reuse                 | No                             |
| Percentage Reused or Recycled | 60% - 90%                      |
| Off Site Destination          | Refer to Part 2.7 on page 11   |

**Fixture & Fittings (Doors Fittings, Other Fixtures, etc)**

|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| Volume / Weight               | 100 cubic metres / 35 Tonnes                                |
| On Site Reuse                 | No. All material will be processed or disposed of Off-site. |
| Percentage Reused or Recycled | 80% - 90%                                                   |
| Off Site Destination          | Refer to Part 2.7 on page 11                                |

## Glazing, Electrical & Light Fittings, Cabling, PC items, Ceramics, etc

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Volume / Weight               | 125 cubic metres / 37.5 Tonnes No. All material |
| On Site Reuse                 | will be processed or disposed of Off-site       |
| Percentage Reused or Recycled | 80% - 90%                                       |
| Off Site Destination          | Refer to Part 2.7 on page 11                    |

## Residual Waste

|                                                  |                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Volume / Weight                                  | 130 cubic metres / 130 Tonnes                                                                                                                                                                                                                                                                             |
| On Site Reuse                                    | No                                                                                                                                                                                                                                                                                                        |
| Off Site Destination                             | Refer to Part 2.7 on page 11                                                                                                                                                                                                                                                                              |
| Notes on calculation of volume of residual waste | 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.<br>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 important to note that the quantities of materials specified in this section (Part 2.2) are estimates based on current industry standards and quantity analysis. These estimates may vary due to construction constraints, weather conditions, and other unforeseen circumstances related to the demolition of the buildings, which are beyond the developer's control, including but not limited to theft, accidents, and other incidents.

Notwithstanding the above, the developer will inform the Council of any significant variations in this regard. The facilities and agencies designated to receive the specified materials have been recognized within the NSW waste industry as approved locations for accepting these materials, as outlined in each respective table. The developer acknowledges that they will bear all costs related to the transportation and receipt of these materials.

While the developer is not obligated to utilize any of the nominated facilities or agencies, if alternative arrangements are made, it is the contractor's responsibility to ensure that any surplus materials removed from the site are disposed of or processed appropriately.

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

## 2.5 ON-SITE STORAGE OF MATERIALS

During the demolition and construction phases of the project, a designated area will be set aside on-site as a compound for storing materials before their removal. This compound will include:

- Sorting of materials
- Segregation of potentially hazardous materials that need to be disposed of
- Recovery equipment, including concrete crushers, chippers, and skip bins
- Storage for materials
- Access for transportation equipment.

Suitable vehicular access will be established both on and off-site, as well as to the compound, to facilitate the efficient removal of reusable, recyclable, and waste materials.

Before demolition works commence, the developer will submit a 'Site Plan for the On-Site Storage of Materials during Demolition' to the Council. This plan will provide a detailed layout of each area within the compound designated for the segregated storage of all materials involved in the demolition of the buildings on the site.

## **2.6 DEMOLITION – EXCAVATED MATERIAL**

All excavated materials removed from the site due to the demolition of the buildings must be classified in accordance with the NSW Waste Classification Guidelines set forth by the Department of Environment, Climate Change and Water before removal, transportation, and disposal at an approved waste management facility.

All relevant details must be communicated to the Principal Certifying Authority (PCA).

## **2.7 LICENSED WASTE MANAGEMENT AND RECYCLING FACILITIES.**

The facilities listed below are properly licensed to accept the materials specified in Tables 1 to 10 on pages 6 to 9:

1. Kimbriki Waste Management Facility, Kimbriki Road, Ingleside. Tel: 02 9486 3512.
2. Lucas Heights Waste Management Centre, New Illawarra Road, Lucas Heights. Tel: 1300 651 116.
3. Bingo Industries, 3-5 Duck Street, Auburn, or 38 McPherson Street, Banksmeadow. Tel: 1300 424 646.
4. Jacks Gully Waste Management Centre, Richardson Road, Narellan. Tel: 1300 651 116.
5. Veolia Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel: 8887 6112.

The facilities and agencies designated to receive the materials listed above are licensed and capable of accepting the specified materials. The appointed contractor understands that they will be responsible for any costs associated with the transportation and receipt of these materials.

Based on this information, it is expected that between 75% and 85% of all materials in excess of construction needs will be recycled or reused, exceeding the Council's required targets.

While the contractor is not obligated to use any of the nominated facilities or agencies, if alternative arrangements are made, it is their responsibility to ensure that all demolished materials removed from the site are disposed of or processed appropriately.

The developer will maintain written records of all documentation related to the transportation, disposal, and processing of all materials exceeding the construction needs. Furthermore, during the building construction phase, efforts will be made to minimize the amount of excess materials generated.

# PART 3 - CONSTRUCTION

## 3.1 CONSTRUCTION – GENERALLY

Upon completion of all demolition works, construction of the building will begin with the excavation of the site for the basement levels. All materials generated from these activities will be disposed of in accordance with the information provided in Part 3.2 on pages 12 through 16 of this Waste Management Plan (WMP).

Additionally, any materials used in the construction of the building that are not needed for incorporation shall be recycled, reused, or disposed of in accordance with these provisions and the requirements of the Protection of the Environment Operations Act (1997). The developer will bear overall responsibility for ensuring compliance with these regulations.

Mobile bins of suitable size will be provided on-site for the collection of food scraps, beverage containers, and other waste generated by workers.

## 3.2 CONSTRUCTION – RECYCLING, REUSE & DISPOSAL DETAILS

The following details outline how all materials surplus to the construction of the building will be managed:

- a) An estimate of the types and volumes of waste and recyclables expected to be generated,
- b) A site plan indicating sorting and storage areas for construction waste, along with vehicle access

to these areas (refer to Part 3.3 of this Plan),

- c) Strategies for reusing or recycling excavated and other surplus materials, as well as the disposal

locations for residual waste (see below), and

- d) The total percentage of surplus construction waste that will be reused or recycled.

### Excavated Materials

|                               |                                                                                                                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Volume / Weight               | 5,000 Cubic Metres / 8,500 Tonnes<br>(Basement excavation)                                                                                                                                                                                    |
| On Site Reuse                 | Yes, topsoil will be kept and reused for landscaping, stored on-site, and used for retaining wall support. Excavated materials can only be used if they are uncontaminated or remediated as per the environmental consultancy's requirements. |
| Percentage Reused or Recycled | To be determined (see above comments)                                                                                                                                                                                                         |
| Off Site Destination          | Refer to Part 3.5 on page 16.                                                                                                                                                                                                                 |

**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 Recycled | 75% - 90%                                                                                                                                        |
| Off Site Destination          | Refer to Part 3.5 on page 16.                                                                                                                    |

**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          | Refer to Part 3.5 on page 16.                                                                           |

**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          | Refer to Part 3.5 on page 16.                         |

**Plasterboard and 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          | Refer to Part 3.5 on page 16.                                |

**Metals / steel / guttering and downpipes**

|                               |                                                              |
|-------------------------------|--------------------------------------------------------------|
| 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          | Refer to Part 3.5 on page 16.                                |

**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          | Refer to Part 3.5 on page 16 |

**Plastics**

|                               |                               |
|-------------------------------|-------------------------------|
| Volume / Weight               | 5 cubic metres / 1 Tonne      |
| On Site Reuse                 | Nil                           |
| Percentage Reused or Recycled | 80% - 95%                     |
| Off Site Destination          | Refer to Part 3.5 on page 16. |

**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          | Refer to Part 3.5 on page 16. |

**Fixture & Fittings (Doors Fittings, Other Fixtures, etc)**

|                               |                               |
|-------------------------------|-------------------------------|
| Volume / Weight               | 10 cubic metres / 3.3 Tonnes  |
| On Site Reuse                 | Broken up and used as fill.   |
| Percentage Reused or Recycled | 80% - 90%                     |
| Off Site Destination          | Refer to Part 3.5 on page 16. |

**Pallets**

|                               |                               |
|-------------------------------|-------------------------------|
| Volume / Weight               | 25 cubic metres / 8 Tonne     |
| On Site Reuse                 | No                            |
| Percentage Reused or Recycled | 90% - 100%                    |
| Off Site Destination          | Refer to Part 3.5 on page 16. |

**Residual waste**

|                                                          |                                                                                                                                                                                                                                                 |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Volume / Weight<br>On Site Reuse<br>Off Site Destination | 550 cubic metres / 550 Tonnes<br>No Refer to Part 3.5 on page 16.                                                                                                                                                                               |
| Notes on calculation<br>of volume of residual<br>waste   | 1. It is estimated that 10% of the total waste generated from the demolition of all buildings on site will be residual waste. 2. Due to variations in weight per volume, it is assumed that 1 cubic meter of material equals 1 tonne in weight. |

The quantities of materials outlined in this section (Part 3.2) are estimates based on current industry standards and may vary due to construction constraints, weather conditions, and unforeseen events beyond the developer's control, such as theft or accidents. Regardless, the developer will inform the Council of any significant variations.

The nominated facilities and agencies are recognized within the NSW waste industry as suitable for accepting the specified materials. The developer understands that all costs related to the transportation and receipt of these materials will be their responsibility. While there is no obligation to use the nominated facilities, if alternative arrangements are made, it is the developer's responsibility to ensure proper disposal or processing of any excess construction materials removed from the site.

The developer will maintain written records of all documentation related to the transportation, disposal, and processing of materials associated with the demolition of all structures on site. Furthermore, efforts will be made to minimize excess building materials during construction.

### **3.3 CONSTRUCTION – ON-SITE STORAGE OF MATERIALS**

During the construction of the buildings, a designated area will be set aside on-site as a compound for storing materials before their removal. This compound will include:

- Material sorting
- Segregation of potentially hazardous materials for disposal
- Recovery equipment, such as concrete crushers, chippers, and skip bins
- Storage for materials
- Access for transportation equipment.

Adequate vehicular access will be provided both on and off-site, as well as to the compound, to facilitate the efficient removal of reusable materials, recyclables, and waste.

Before construction works begin, the developer will submit a 'Site Plan for the On-Site Storage of Materials during Construction' to the Council. This plan will detail the locations of each area within the compound designated for the segregated storage of all materials related to the demolition of the buildings on the site.

### **3.4 CONSTRUCTION – EXCAVATED MATERIAL**

All excavated materials removed from the site due to construction activities must be classified in accordance with the NSW Waste Classification Guidelines set by the Department of Environment, Climate Change and Water before removal, transportation, and disposal at an approved waste management facility. All relevant details must be reported to the Principal Certifying Authority (PCA).

### **3.5 LICENSED WASTE MANAGEMENT AND RECYCLING FACILITIES.**

The facilities listed below are properly licensed to accept the materials specified in Tables 1 to 11 above:

1. Kimbriki Waste Management Facility, Kimbriki Road, Ingleside. Tel: 02 9486 3512.
2. Lucas Heights Waste Management Centre, New Illawarra Road, Lucas Heights. Tel: 1300 651 116.
3. Bingo Industries, 3-5 Duck Street, Auburn, or 38 McPherson Street, Banksmeadow. Tel: 1300 424 646.
4. Jacks Gully Waste Management Centre, Richardson Road, Narellan. Tel: 1300 651 116.
5. Veolia Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel: 8887 6112.

The facilities and agencies designated to receive the materials listed are licensed and capable of accepting the specified materials. The appointed contractor acknowledges that they will be responsible for any costs associated with the transportation and receipt of these materials.

It is expected that between 75% and 85% of all materials in excess of construction needs will be recycled or reused, exceeding the Council's required targets.

The contractor is not obligated to use any nominated facility or agency; however, if alternative arrangements are made, it will be their responsibility to ensure proper disposal or processing of all demolished materials removed from the site.

The developer will maintain written records of all documentation related to the transportation, disposal, and processing of materials exceeding the construction needs.

Additionally, every effort will be made during construction to minimize excess building materials.

## **PART 4 – ON GOING USE**

### **4.1 OBJECTIVES**

1. To ensure that the storage, amenity, and management of waste adequately meet the needs of the development. 2. To guarantee that all waste management activities are conducted effectively and efficiently, promoting health, safety, and convenience. 3. To encourage waste minimization practices.

### **4.2 ASSUMPTIONS**

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

1. The proposal involves the construction of a part one and part two-storey building over one basement to be used as a Child Care Centre, accommodating 70 children.
2. Egress from the site will be onto Robertson Road at the southern frontage.
3. Waste storage facilities are designated in a Bin Room located in the south-eastern corner of the basement, as shown in the Architectural Drawings.
4. All mobile waste and recycling bins for ongoing operations will be stored within the Bin Room at all times.
5. Waste and recycling generation rates for Child Care Centres have been calculated based on the Better Practice Guide for Resource Recovery in Residential Buildings published by the NSW EPA (April 2019).
6. Waste will be stored in five 240-litre mobile bins.
7. Recycling materials will also be stored in five 240-litre mobile bins.
8. Waste services will be provided at least two days per week.
9. Recycling services will be provided at least two days per week.
10. A licensed private waste collection contractor will handle all waste and recycling services for the building.
11. Waste and recycling collections will occur from the Robertson Road roadside, 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 waste and recycling materials into the designated bins. All waste must be placed in the red-lidded waste bins, while recyclable materials should go into the yellow-lidded recycling bins.

At the end of each day's operations, all waste and recyclable materials will be removed from the centre and deposited in the appropriate bins located in the Waste Storage Area (WSA). Clear signage will be installed in prominent locations within the building to guide employees in ensuring that waste and recyclable materials are correctly sorted and placed in the appropriate bins.

#### 4.4 WASTE & RECYCLING – SERVICE REQUIREMENTS

The Child Care Centre operates as a commercial enterprise, generating both waste and recyclable materials. As such, residential waste and recycling services do not apply; instead, commercial waste and recycling services will be provided to the Centre.

No formal green waste service will be available for the building. All green waste will be disposed of privately by a contractor appointed by the Proprietor. It is the responsibility of the Proprietors of the Child Care Centre to ensure that all green waste is removed from the premises appropriately.

#### 4.5 WASTE & RECYCLING GENERATION RATES

All waste and recycling generation rates for Child Care Centres have been determined based on the information provided in the Better Practice Guide for Resource Recovery in Residential Buildings, published by the NSW EPA in April 2019.

Table 1 below provides all details of these calculations.

##### FORMULA FOR CALCULATION WASTE & RECYCLING GENERATION RATES FOR CHILD CARE CENTRES

**Waste -**

5.0 litres of waste per child per week (5.0 litres x 70 children per week)

**Recycling-**

5.0 litres of recyclable material per child per week (5.0 litres x 70 children per week)

**Sanitary Waste-**

Refer to Part 4.7 of WMP

**The following below specifies the criteria for waste and recycling generation rates based on the above formula.**

| Service type | WASTE GENERATION RATES<br>Litres of Space / Child / Day |    |   | TOTAL SPACE<br>REQUIRED | BIN SIZE | SERVICES PER<br>WEEK | BINS REQUIRED | BINS<br>PROVIDED |
|--------------|---------------------------------------------------------|----|---|-------------------------|----------|----------------------|---------------|------------------|
| WASTE        | 5                                                       | 70 | 5 | 2,000                   | 240      | 2                    | 4.16          | 5                |
|              |                                                         |    |   |                         |          | 2                    | 4.16          | 5                |
| RECYCLING    | 5                                                       | 70 | 5 | 2,000                   | 240      |                      |               |                  |
| SANITARY     | Refer to Part 4.7 of WMP                                |    |   |                         |          |                      |               |                  |

**The following specifies the proposed bin servicing arrangements for the development and is based on the above waste and recycling generation rates: -**

**WASTE**

5 x 240-litre bin

One (1) x Service per Week

**RECYCLING**

5 x 240-litre bin

One (1) x Service per Week

**SANITARY WASTE**

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 and recycling services will be provided by a licensed private waste collection contractor. The Proprietors of the Child Care Centre will establish a Service Level Agreement with the contractor detailing the provision of waste and recycling services and the methods by which these services will be delivered.

### 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 (meters) | DEPTH (meters) | WIDTH (meters) |
|-----------------------------|-----------------|----------------|----------------|
| 1100-litre mobile container | 1.470           | 1.050          | 1.370          |

### 4.6.3 Waste & Recycling Requirements

#### SERVICE NUMBER OF CONTAINERS COLLECTION FREQUENCY

**Waste Service** 5 x 240-litre mobile container Two (2) Services per Week **Recycling Service** 5 x 240-litre mobile container Two (2) Services per Week

### 4.6.4 Location, Design, and Construction of Bin Room (BR)

Waste storage facilities are situated in a designated Bin Room (BR) in the south-eastern corner of the basement, as shown in the Architectural Drawings. The Waste Storage Area (WSA) is a partially enclosed trapezoidal structure covering approximately 14 sqm, designed to accommodate 5 x 240-litre mobile waste bins and 5 x 240-litre mobile recycling bins.

All mobile waste and recycling bins needed for the ongoing operation of the development will be stored within the Bin Room at all times. The Bin Room will be designed and constructed in accordance with the Council's "Waste Management Guide for New Developments," ensuring compliance with the following requirements:

- Floors must be constructed of concrete, at least 75mm thick, and graded to a Sydney Water-approved drainage fitting.
- The flooring should be finished to be non-slip, with a smooth and even surface.
- The room must have a roof and provide a minimum unobstructed height of 2.1m, in accordance with the Building Code of Australia.
- The design must be compatible with the overall development.
- Walls must be made of solid, impervious materials.
- Ceilings should have a smooth, non-absorbent finish that can be easily cleaned.
- Walls, ceilings, and floors must be finished in a light color.
- An adequate supply of hot and cold water mixed through a centralized mixing valve with a hose cock must service the room.
- A self-closing door must be operable from within the room.
- The room should be constructed to prevent the entry of birds and vermin.
- It must provide adequate lighting and ventilation, with light sources controlled by switches located both inside and outside the room.
- Doorways from the bin room must be 2 meters wide and open outward or feature a roller door.
- The design must accommodate 5 x 240-litre mobile waste bins (collected weekly) and 5 x 240-litre mobile recycling bins (collected weekly).

#### **4.6.5 Servicing Arrangements – Waste Collections**

All waste bins will be serviced from Robertson Road. The appointed contractor will handle the transportation of the waste bins from the Bin Room to the collection vehicle waiting at the roadside, using a collect-and-return service.

Each collection day, a maximum of 5 x 240-litre waste bins will be transported to the collection vehicle, with separate vehicles used for collection. The bins will be moved from the Bin Room to the collection vehicle in compliance with all relevant work, health, and safety requirements.

Bins will not be presented for collection until the collection vehicle has arrived on-site. Waste bins will be serviced two days a week, on a schedule to be determined. All mobile waste bins will be serviced on each collection day, and they will be promptly returned to the Bin Room after servicing.

#### **4.6.6 Servicing Arrangements – Recycling Collections**

All recycling bins will be serviced from Robertson Road. The appointed contractor will transport the recycling bins from the Bin Room to the collection vehicle waiting at the roadside, utilizing a collect-and-return service.

Each collection day, a maximum of 5 x 240-litre recycling bins will be transported to the collection vehicle, with separate vehicles used for collection. The bins will be moved from the Bin Room to the collection vehicle in accordance with all relevant work, health, and safety requirements.

Recycling bins will not be presented for collection until the collection vehicle has arrived on-site. The bins will be serviced two days a week, on a schedule to be determined. All mobile recycling bins will be serviced on each collection day, and they will be promptly returned to the Bin Room after servicing.

## 4.7 SANITARY WASTE

Sanitary waste includes disposable nappy and incontinence waste products, which must be disposed of in accordance with NSW EPA requirements. According to EPA standards, sanitary waste is not classified as clinical waste, so it does not need treatment and can be disposed of directly to landfill through supervised burial.

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

Given the number of children attending the center daily will be 70, with an average of 4 episodes of sanitary waste per child per day, it is anticipated that a total of 276 episodes of sanitary waste will be generated each day.

To accommodate this, it is recommended that 5-6 x 45-litre nappy bins be provided, as each bin can hold approximately 50 to 60 soiled nappies. These bins will be serviced a minimum of three (3) days per week. All sanitary waste will be stored in the nappy bins located in the Nappy Change Room, which will be maintained and cleaned twice daily.

Efficient changing and disposal of soiled nappies significantly reduces the risk of disease transmission related to feces and body fluids. To minimize the risk of infectious diseases during nappy changes, the following resources will be provided in a suitable location within the facility:

- A stable nappy change table or bench
- A change table with an impervious (non-penetrable) surface,
- Handwashing facilities,
- Sanitary receptacles for storing wet and soiled nappies,
- A storage area for clean nappies,
- Gloves,
- Paper towels, wipes, soap, and warm water.



Example of a 45-litre Nappy bin

The proprietor of the facility will comply with the current Education and Care Services National Regulations and the relevant National Quality Standard regarding nappy changing practices. Key procedures include:

- Cleaning the nappy changing bench or mat after each use.
- Designing nappy changing facilities to prevent unsupervised access by children, ensuring safety from climbing or reaching unsafe items.
- Keeping nappy changing areas separate from food preparation facilities.
- Respecting each child's dignity and privacy during nappy changes by:
  - Closely supervising children on the nappy change table.
  - Collaborating with families to establish consistent nappy change routines at home and in the daycare setting.
- Providing daily updates to families about their child's nappy changes using methods that suit their home environment.
- Promoting a relaxed and positive nappy changing experience.
- Addressing the specific health and hygiene needs of older children in care while respecting their dignity and privacy.

## **4.8 GREEN WASTE**

No formal green waste service will be provided for the development. The Proprietors of the centre will be responsible for ensuring that all green waste generated from the ongoing use of the facility 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 to promote health, safety, and convenience. To achieve this, the following requirements will be implemented:

1. The walls and floor of the Waste Storage Area (WSA) will be made of smooth-faced masonry or concrete.
2. The WSA will be regularly washed and cleaned.
3. All mobile bins will also be cleaned on a regular basis.
4. Any electrical equipment, including lighting, will be installed per relevant Australian Standards.
5. Prominent signage will identify the location of the WSA and instruct employees on the proper use of waste and recycling facilities, including recyclable materials.
6. The proprietor will ensure that all waste and recyclables are placed and stored in the appropriate containers.

# PART 5 - SUMMARY

## 5.1 SUMMARY

In summarizing this proposal, the following key points are presented:

1. **Compliance with Council Requirements:** This Waste Management Plan (WMP) has been meticulously developed and documented to meet the specific requirements set forth by the Council, ensuring alignment with local regulations and standards.
2. **Waste Generation Calculations:** All waste and recycling generation rates for Child Care Centres have been calculated based on the guidelines provided in the Better Practice Guide for Resource Recovery in Residential Buildings, published by the NSW EPA in April 2019. This ensures that the estimates are grounded in reliable industry standards.
3. **Licensed Waste Services:** All waste and recycling services will be conducted by a licensed private waste collection contractor, ensuring professional handling and compliance with environmental regulations.
4. **Proprietor Responsibilities:** The proprietor of the Child Care Centre will take full responsibility for overseeing that all ongoing waste management activities are executed in accordance with the provisions detailed in this WMP. This commitment reinforces accountability and effective management practices.
5. **Promotion of Recyclables:** The WMP is designed to actively promote the use of recyclable materials throughout the processes of excavation, demolition, construction, and ongoing operation of the building, fostering a sustainable approach to resource use.
6. **Adequate Waste Facilities** The plan emphasizes the importance of designing waste and recycling storage facilities that are adequately sized, appropriate for the intended use of the building, and hygienic, with safe and easy access for users.
7. **Efficient Waste Services:** The WMP aims to ensure that waste and recycling services provided to the completed buildings are carried out efficiently, thereby promoting the principles of health, safety, and convenience for all users.

By adhering to these principles, the Waste Management Plan seeks to establish a sustainable and effective framework for managing waste and recycling within the Child Care Centre, ultimately contributing to a healthier environment for children and staff alike.

The measures outlined in this Waste Management Plan are designed to ensure that all activities related to waste management will be conducted effectively and efficiently. This approach prioritizes health, safety, and convenience, aligning with acceptable community standards and the specific requirements of Canterbury Bankstown Council. By implementing these strategies, we aim to foster a sustainable environment that meets the needs of the community while adhering to regulatory guidelines.