

WASTE MANAGEMENT PLAN

DEMOLITION, CONSTRUCTION AND USE OF PREMISES

Outline of Proposal

SITE
ADDRESS:

5 Kiora Crescent, Yennora

APPLICANT'S NAME
AND ADDRESS / PHONE/
WEBSITE:

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BUILDINGS AND OTHER
STRUCTURES CURRENTLY
ON THE SITE:

The property is vacant

BRIEF DESCRIPTION OF
PROPOSAL:

The construction of a waste management facility.

The details provided on this form are the intentions of managing waste relating to this project.

Date:

13/11/19

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1. Introduction

A waste management plan and report is required for the proposed development to support the design during demolition, excavation, construction and service conditions, along with achieving the objectives to promote sustainable operation of the development. The development achieves the waste management objectives set out in the council codes as well as any statutory requirements. The details which will be addressed include:

- a description of the site and details of the development proposal;
- reuse, recycling and disposal of materials during demolition, excavation, construction and service conditions;
- a review of the design features of the proposed waste management system for compliance with relevant codes, standards and regulations; and
- identification of procedures for on-going waste management.

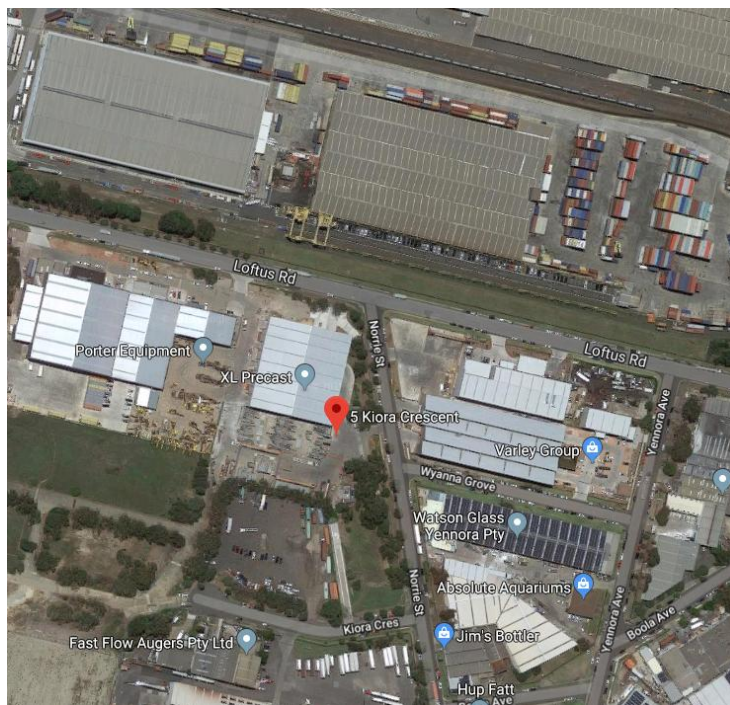


Figure 1.1: Subject site (Source: Google Earth)

2. Property Description

The proposed new development will involve the construction of a child waste management facility within a site area of approximately 7221m² with 1 ground floor and 1 mezzanine floor. Car parking is proposed on the ground floor with entry from Kiora Crescent. A total of 3 units proposed on the ground floor and each unit will contain a mezzanine level.

The proposed development is bounded by:

- 1 Norrie Street on the North,
- 20-24 Boola Avenue on the East,
- Vacant Lot on the West,
- 12 Kiora Crescent on the South.

3. Project Proposal

Waste storage and transportation will be managed during demolition, excavation and construction stages as well as in service conditions. Waste produced from these stages will be reused or recycled as appropriate, or disposed using certified waste collection contractors.

The management of waste during service conditions of the development will involve the waste management facility maintaining waste storage and recycling area located on site, with the collection of general waste and recycling primarily involving a private waste contractor. The development will provide access for the collection vehicles used by the nominated waste contractor.

4. Demolition & Excavation

Materials from the demolition stage shall be reused, recycled or disposed in accordance with the provisions outlined in this WMP and the requirements of the Protection of the Environment Operations (Waste) Regulation 2014.

Where possible, waste materials should be managed so most materials will be reused or recycled, with only a small proportion of waste going to landfill.

Prior to any demolition works, a suitably qualified inspector shall conduct inspection of asbestos construction materials (ACMs) on the existing structures to be demolished. The inspector shall certify to council in writing if the asbestos materials are less than 10m². If more than 10m², a licensed asbestos remover shall conduct the asbestos removal and tipping. In the latter case, the name, address and asbestos license number of the remover, as well as the name and address of the licensed landfill where all asbestos will be taken shall be informed to the council. All records covering the transport and tipping of any asbestos construction materials or any asbestos

contaminated materials must be maintained on site for the inspection of a Council officer or other Principal Certifying Authority.

Asbestos-contaminated soils must be wetted down. All asbestos waste must be transported in a part of the vehicle that is covered and leak-proof; and disposed of at a landfill site that can lawfully receive it. The project manager will ensure a unique consignment number is created and report to EPA using WasteLocate if over 100 kilograms or 10 square meters of asbestos is being disposed of. No asbestos waste is disposed to general waste or recycle bin; or reuse, recycle or illegally dumped.

4.1 Managing Materials from Demolition

Table 1 below details the amount of material that is estimated to be produced from the demolition stage, as well as the planned reuse, recycling or disposal plans.

Table 1: Management of demolition materials

Materials on-site		Reuse and recycling		
Type of Material	Estimated volume (m ³) or area (m ²) or weight (t)	On-site How materials will be reused or recycled on-site	Off-site Contractor and recycling outlet	Disposal Contractor and landfill site
Timber	N/A	Reuse for formwork, landscaping, shoring	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127
Concrete	N/A	N/A	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	Nil to landfill
Bricks/Pavers	N/A	Clean & reuse for landscaping, bricks in good condition used for internal walls	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	Nil to landfill
Roof tiles	N/A	Break up and use as fill, aggregate	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	Nil to landfill
Plasterboard	N/A	Break up and use in landscaping	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127
Metals	N/A	N/A	SUEZ Auburn	SUEZ Auburn

			Old Hill Link, Sydney Olympic Park NSW 2127	Old Hill Link, Sydney Olympic Park NSW 2127
Green waste	N/A	Separated, chipped and stored on site for reuse in landscaping	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127

4.2 Managing Materials from Excavation

Excavated materials from the Excavation stage shall be reused, recycled or disposed in accordance with the provisions outlined in this WMP and the requirements of the Protection of the Environment Operations (Waste) Regulation 2014. Table 2 below details the amount of material that is estimated to be produced from the demolition stage, as well as the planned reuse, recycling or disposal plans.

Table 2: Management of Excavated materials

Materials on-site		Reuse and recycling		Disposal
Type of Material	Estimated volume (m ³) or area (m ²) or weight (t)	On-site How materials will be reused or recycled on-site	Off-site Contractor and recycling outlet	Contractor and landfill site
Excavated material	150m ³	Reuse for backfilling, landscaping	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127

4.3 Site Operation and Management

The site operation will be managed to reduce waste creation and maximise reuse and recycling by setting waste management requirements in contracts with sub-contractors, on-going checks by supervisors on site and the use of clear signage at designated waste areas.

In addition, the project team leader will:

- Liaise with contractors to identify areas where they can reduce waste and reuse materials in their respective trades
- Meet local, state and federal waste minimisation legislation and environmental standards
- Prevent pollution and damage to the environment
- Protect the safety and health of our employees and the public

Waste will be separated and stored onsite for reuse and recycling through maintaining separate areas for sorted wastes with one area for recyclables and another area for waste going to landfill. Utilising selective deconstruction rather than straight demolition will ensure that good quality material can be reused or recycled.

5. Construction

Materials that are not used in the construction stage shall be reused, recycled or disposed in accordance with the provisions outlined in this WMP and the requirements of the Protection of the Environment Operations (Waste) Regulation 2014.

Where possible, waste materials should be managed so most materials will be reused or recycled, with only a small proportion of waste going to landfill.

5.1 Managing Waste Materials from Construction

Table 3 below details the amount of waste material that is estimated to be produced from the construction stage, as well as the planned reuse, recycling or disposal plans.

Table 3: Management of waste construction materials

Materials on-site		Reuse and recycling		
Type of Material	Estimated volume (m ³) or area (m ²) or weight (t)	On-site How materials will be reused or recycled on-site	Off-site Contractor and recycling outlet	Disposal Contractor and landfill site
Timber	60m ³	N/A	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127
Concrete	50m ³	N/A	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	Nil to landfill
Bricks/Pavers	50m ³	Clean & reuse for landscaping, bricks in good condition used for internal walls	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	Nil to landfill
Roof tiles	20m ³	Break up and use as fill, aggregate	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	Nil to landfill

Plasterboard	30m ³	Break up and use in landscaping	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127	SUEZ Auburn Old Hill Link, Sydney Olympic Park NSW 2127
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5.2 Construction Design and Management

Waste avoidance has been incorporated into the design by incorporating as much detail as possible within the design, and using pre-fabricated materials to ensure a reduction in waste generated on-site. Materials purchased will be checked against previously known quantities required to build similar projects, and adjusted as construction progresses for this particular project. Reduction in waste can also be achieved through the reuse of building materials in good condition from the demolition phase.

6. Management of Waste

6.1 Design Requirements

The following from **Cumberland Council** is adopted:

11.6. Industry Single Use Operations

- i) Provide every building with a Waste Storage Area, designed and constructed to meet the requirements of Appendix G, capable of providing source separation of paper, metal, plastics, putrescible and liquid waste and flexible in size and layout to cater for future changes of use.
- ii) Calculate the size of the Waste Storage Area on the basis of waste generation rates and proposed bin sizes.
- iii) Base the calculation of waste generation rates on industry standards and discussion with the collection service provider. In all cases, source separation (e.g. for recyclables) is required. Include the operation of staff kitchen facilities.
- iv) Where possible, provide access from the rear of the property. In all cases, access to normal collection points should be unimpeded. For large developments, include a Collection Area within the design.

6.2 Design Detail

6.2.1 Overall waste and recycling storage and servicing within the complex

The development must be designed to allow for access by collection vehicles used by the nominated waste contractor. Wherever possible, the site must be configured so as to allow collection vehicles to enter and exit the site in a forward direction and so that collection vehicles do not impede general access to, from and within the site. Access driveways to be used by collection vehicles must be of sufficient strength to support such vehicles.

Servicing arrangements for the emptying of bins must be compatible with the operation of Part A General Controls 118 Holroyd Development Control Plan August 2013 any other loading/unloading facilities on-site.

Bins shall be placed to minimise the impacts on traffic on the road and not block access to driveways and pedestrian footpaths.

6.2.1 Green waste

The waste management facility shall contact private a private contractor to service green waste if required.

6.2.2 Bulky waste

No bulky waste storage area is required due to the nature of the development. However, if required, the waste management facility manager shall contact a private contractor to service bulky was

6.3 Further Design Requirements

Other design details that will be required as per Council and other relevant regulations are listed below:

- Waste/recycling storage areas must be integrated into the design of the overall development.
- Materials and finishes which are visible from outside should be similar in style and quality to the external materials used in the rest of the development.
- Waste/recycling storage areas must be located and designed in a manner which reduces adverse impacts upon neighbouring properties and the streetscape.

The location and design of the areas should minimise adverse impacts associated with:

- the proximity of the area to dwellings;
- the visibility of the area;
- noise generated by any equipment located within the area; o noise generated by the movement of bins into and out of the area;
- noise generated by collection vehicles accessing the site; and o odours emanating from the area.

6.4 On-going Waste Management

The on-going management of waste on-site will be stipulated with conditions set out in the conditions presented to occupants before they use the facility. The waste management facility manager will transport the bins to and from the storage area for collection and clean the waste area at a regular interval of once a week.

Each unit will be supplied with a collection area suitable for one day's storage of waste and recycling. The occupants must bag their waste before depositing into waste bins; however, recycling must not be bagged.

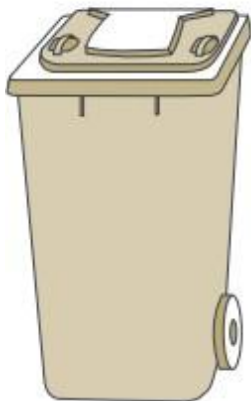
Signage and written information will be provided, so the occupants are aware of how to use and manage the waste and recycling services.

Appendix A – Signage used in waste storage areas



Appendix B – Indicative Bin Sizes

Mobile containers with a capacity from 80L to 360L with two wheels



Bin Type	80 Litre MGB	120 Litre MGB	140 Litre MGB	240 Litre MGB	360 Litre MGB
Height	870 mm	940 mm	1065 mm	1080 mm	1100 mm
Depth	530 mm	560 mm	540 mm	735 mm	885 mm
Width	450 mm	485 mm	500 mm	580 mm	600 mm

Source: Department of Environment & Climate Change NSW