

NORTHERN BEACHES COUNCIL

Waste Management Guidelines

(For development in the area of WLEP 2011 and WLEP 2000)

Chapter 2 – Construction

Effective Date: 25 October 2016

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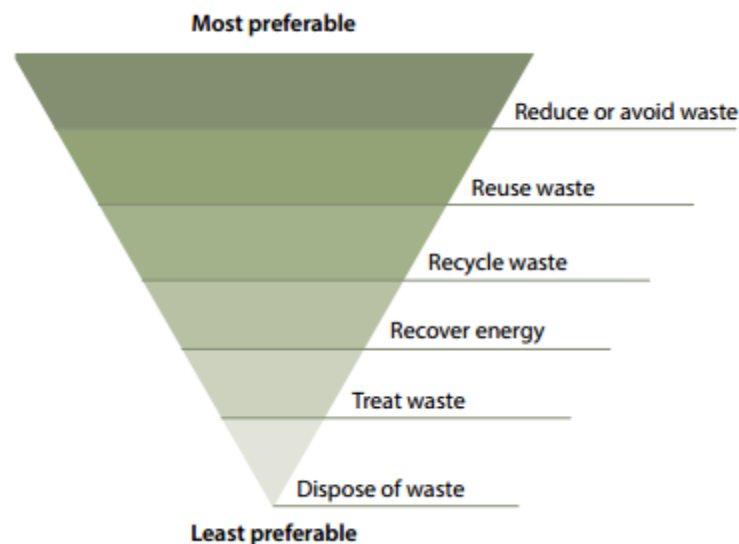
The construction stage has the potential to reduce the amount of waste generated if building materials are better estimated. Applicants should also consider whether it is possible to re-use and recycle waste resulting from the construction works. This process can save the applicant money on the overall cost of the project.

Applicants must complete ‘Section 2 – Construction’ of the Waste Management Plan in accordance with this Chapter. Applicants must be able to demonstrate evidence of compliance if audited.

2.1. Requirements

Applicants must demonstrate project management that aims to:

- a) Incorporate the waste hierarchy principle:



- b) Minimise the waste sent for disposal
- c) Minimise the impact and disturbance it has on surrounding amenity, public safety, roadways and natural and built environment
- d) Comply with relevant legislation (refer to the Introduction xii)
- e) Send waste materials to a suitably licensed facility
- f) Identify suitable locations on the site for sorting and storing of materials for re-use, recycling and disposal. (Factors to consider include slopes, drainage and personnel and vehicular access)
- g) Maintain valid tipping dockets and receipts on site for inspection

2.2. Re-use and recycling opportunities

The table below provides guidance on re-use and recycling opportunities:

Material	Re-use and recycling opportunities
Excavated materials	Re-use for filling or levelling
Concrete	Re-use for filling, levelling or road base
Bricks / Pavers	Re-use or crush for landscaping and driveways
Roof Tiles	Re-use or crush for landscaping and driveways
Untreated Timber	Re-use as floorboards, fencing, furniture, mulch or send to second -hand timber suppliers
Treated Timber	Re-use as formwork, bridging, blocking and propping and send to second -hand timber suppliers
Doors / Windows / Fittings	Send to second- hand suppliers, or recycle.
Metals	Re-use or recycle
Green Waste	Mulch or compost
Plasterboard	Re-use for landscaping, recycle or return to supplier
Carpet	Recycle or re-use in landscaping
Plastics / Rubber	Re-use or recycle

The closest waste and recycling facility to Northern Beaches Council is Kimbriki Resource Recovery Centre located in Terrey Hills, see website <http://www.kimbriki.com.au/>

Another comprehensive database resource is Planet Ark's Business Recycling hotline 1300 763 768 or website <http://businessrecycling.com.au/>

2.3. Estimating construction waste

The table below provides estimates of likely construction waste for several different development types.

Material	Estimated Construction Waste Quantities (per dwelling)			Estimated Construction Waste Quantities (per 100m ³)
	Residential One Storey Dwelling	Residential Two Storey Dwelling	Multi Unit Dwellings (Five to six units and less than four storey's high.	
				Industrial / Factory

Bricks	1 to 3 m ³	2.5 to 4.5 m ³	3 to 4 m ³	1 to 2 m ³
Tiles	0.5 to 2.5 m ³	1 to 2.5 m ³		N/A
Concrete	0 to 0.5 m ³	0 to 0.5 m ³	6 to 7 m ³	2 to 3 m ³
Plasterboard	0.5 to 1.5 m ³	0.5 to 1.5 m ³	1 to 2 m ³	N/A
Timber	0.5 to 3 m ³	1 to 3 m ³	1 to 2 m ³	1 to 3 m ³
Metal	N/A	N/A	1 to 2 m ³	2 to 3 m ³
Roof Sheeting	N/A	N/A	N/A	3 m ³
Other Waste	0.5 to 3 m ³	1 to 3 m ³	10 to 15 m ³	10 m ³

Source: McGregor Environmental Services (2000) Predicting C&D waste quantities in the Inner Sydney Waste Board

2.4. Conversion table

The table below may assist in converting quantities estimated in table 1.4 into tonnes for disposal purposes.

Material	Conversion Factor (Tonnes per m³)	Conversion Factor (m³ per tonne)
Bricks	1.3 t = 1m ³	0.8 m ³ =1t
Concrete	1.1 t = 1m ³	0.9 m ³ =1t
General	1 t = 1m ³	1 m ³ =1t
Green Waste	1 t = 1m ³	1 m ³ =1t
Plasterboard	0.75 t = 1m ³	1.3 m ³ =1t
Steel	0.65 t = 1m ³	1.5 m ³ =1t
Tiles	1.3 t = 1m ³	0.8 m ³ =1t
Timber	1.1 t = 1m ³	0.9 m ³ =1t

Source: The Hills Council's Waste Management Plan