

Issue	Date	Details
A	08.02.22	For Approval

Site Waste Minimisation and Management Plan

Proposed School Upgrade &
Childcare Centre

12 Sproule Street, Nelson Bay
Lot 2 DP 216064

Project Number
20024

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project: **St Michaels Primary School & St Nicholas ELC**

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Site Waste Minimisation and Management Plan

Site Address:

Lot 2 DP 216064
12 Sproule Street, Nelson Bay NSW 2315

Applicant:

Diocese of Maitland - Newcastle
c/- CKDS Architecture
PO Box 958
Newcastle NSW 2300

Introduction

This Site Waste Minimisation and Management Plan (SWMMP) has been prepared in support of the Development Application for the Upgrade to the existing St Michaels Primary School and new 84 place Childcare Centre located at 12 Sproule Street, Nelson Bay.

The SWMMP has identified the estimated quantities of materials to be removed from the site during construction and operation of the School and Childcare Centre and how they are to be stored, recycled, collected and disposed of with the emphasis on minimising the quantities generated and the quantities that are to be taken to landfill.

The SWMMP has been formulated in regard to the provisions of the Port Stephens Council development controls and industry standards.

The proposal does not require additional licensing or application requirements to the Office of Environment and Heritage, RMS, EPA or other authorities. A trade waste application will be made with Hunter Water once the Letter of Formal Requirements is received pending development approval.

It is proposed that a private waste collection agency would be contracted by the Centre's operators to pick up and dispose of the site's waste to a licensed waste management facility.

This SWMMP outlines the waste management measures for the proposal and compliance with the requirements of the Waste Management Guidelines.

Existing Site/ Site Preparation Works

The site will be a combination of alterations and additions to existing buildings and clearing of vegetation as outlined on DA-0201 with earthworks to be undertaken for the new Administration Building and Childcare Centre. The contamination report has not identified any contamination on-site but as the site does contain fill, any unexpected finds will be reported.

Any bulk earthworks that will need to be removed from site will be test and certified to be either relocated or disposed of accordingly.

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Construction

The materials, quantities and disposal method of the estimated construction waste is outlined below.

Type of Material	Estimated Volume	Re-use and Recycling		Disposal
		On-site	Off-site	
Excavated material	<500m ³	Re-use on-site for levelling and landscaping	If certified ENM it will be re-used off-site	If certified as waste it will be disposed of in-line with EPA Guidelines
Green Waste	50m ³		Recycled at NRWF	
Bricks	20m ³		Recycled at NRWF or commercial crushing facility	
Tiles	10m ³		Recycled at NRWF or commercial crushing facility	
Concrete	0.5m ³		Recycled at NRWF	
Timber	5m ³			Landfill at NRWF
Plasterboard	5m ³			Landfill at NRWF
Metal	0.8m ³		Recycled at NRWF	
Asbestos	To be confirmed			
Other incl. glass and doors	0.6m ³ (glass)			Landfill at NRWF

NRWF – Newline Road Waste Facility

The contractor on-site during the construction period will be required to provide a waste treatment and storage area within the site compound. This area is to be adequately weather protected with service vehicle access for waste removal from site from either the contractor or a licensed waste management contractor.

Operational Waste

Operational waste generated by the School and Childcare Centre will be separated, collected and stored on-site by the employees of the School and Centre. This will be taken off-site by a licensed waste management contractor weekly to an approved waste management Facility (e.g. Newline Road Facility) for either recycling or landfill.

The School will continue to be a 2-stream school with the current student capacity at 420 students. The storage and collection of waste generated by the school will be as per the current arrangement with the proposed waste storage to suit 2 x 4.5m³ bulk waste bins to be formalised within the proposed upgraded staff car park area. To allow ease of access for service vehicles to enter and exit the site in a forward manner, waste will be collected out of operating hours (Monday-Saturday). The site will be serviced by an 9.9m front lift vehicle.

The proposed waste storage enclosure for the Childcare Centre is proposed in a separate enclosure on the northern site of the Centre with direct access to the Sproule Street car park. To allow ease of access for service vehicles to enter and exit the site in a forward manner, waste will be collected out of operating hours (Monday-Saturday). The site will be serviced by an 9.9m side loading collection vehicle. The waste storage enclosure will be screened with a roof and bunded to a sewer connection point with provision of a water tap for cleaning. Refer to A-6102 for details.

An estimate of the type and volume of waste generated is provided below.

Primary School

Type of Waste	Estimated Volume (L per week)	Proposed On-site Treatment	Proposed Off-site Treatment
Recyclable Materials (paper, glass, metal)	1050L	Recyclable material would be separated by staff within each classroom and administrative space and collected daily to the external recyclable bulk waste bin stored in the waste enclosure.	A licensed waste management contractor will collect the recyclable material weekly and taken to an approved waste management facility

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General Garbage (incl. nappies)	3150L	General Garbage bins will be provided adjacent the recycling bins in each playroom and administrative space and collected daily to the external general waste bulk waste bin stored in the waste enclosure.	A licensed waste management contractor will collect the recyclable material weekly and taken to an approved waste management facility
Food Waste (organic waste)	1050L	Food waste will be stored in 20L bins within the canteen, staff room and the classrooms. Composting within the outdoor play area will be utilised where available otherwise food waste will be included in general waste.	As per general waste if not composted.
Green Waste	500L	A gardening contractor will maintain the landscaping and remove at completion of works	Green Waste will be disposed of at an approved waste management facility for composting/re-use.
Liquid Waste (trade waste)	TBC	A grease arrestor will be installed on site to process liquid waste from the kitchen and art/craft sinks	A Trade Waste agreement will be in place with Hunter Water to process liquid waste.

Waste generation rates are based upon 7.5L/Child/Week for General Waste, 2.5L/Child/Week for Recyclable Waste and 2.5L/Child/Week for Food Waste.

Childcare Centre

Type of Waste	Estimated Volume (L per week)	Proposed On-site Treatment	Proposed Off-site Treatment
Recyclable Materials (paper, glass, metal)	1008L	Recyclable material would be separated by staff within each playroom and administrative space and collected daily to the external recyclable bulk waste bin stored in the waste enclosure.	A licensed waste management contractor will collect the recyclable material weekly and taken to an approved waste management facility
General Garbage (incl. nappies)	1176L	General Garbage bins will be provided adjacent the recycling bins in each playroom and administrative space and collected daily to the external general waste bulk waste bin stored in the waste enclosure.	A licensed waste management contractor will collect the recyclable material weekly and taken to an approved waste management facility
Food Waste (organic waste)	420L	Food waste will be stored in 20L bins within the kitchen, staff room and the classrooms. Composting within the outdoor play area will be utilised where available otherwise food waste will be included in general waste.	As per general waste if not composted.
Green Waste	200L	A gardening contractor will maintain the landscaping and remove at completion of works	Green Waste will be disposed of at an approved waste management facility for composting/re-use.
Liquid Waste (trade waste)	TBC	A grease arrestor will be installed on site to process liquid waste from the kitchen and art/craft sinks	A Trade Waste agreement will be in place with Hunter Water to process liquid waste.

Waste generation rates are based upon 14L/Child/Week for General Waste, 12L/Child/Week for Recyclable Waste and 5L/Child/Week for Food Waste.

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The below table outlines the total storage capacity onsite and frequency of collection.

Primary School

General Waste + Food Waste	Recycling Waste	Bin Capacity/No of Bins	Collection Frequency	Total Capacity
4200L/week	1050L/week	4500L x 2 Bins	Weekly	9000L/week

As per the documents provided as part of the development application the waste storage area is sized to accommodate 2 x 4.5m³ bulk waste bins with 1 x General Waste + 1 x Recycling.

Childcare Centre

General Waste + Food Waste	Recycling Waste	Bin Capacity/No of Bins	Collection Frequency	Total Capacity
1428L/week	1008L/week	240L x 12 Bins	Weekly	2880L/week

As per the documents provided as part of the development application the waste storage enclosure is sized to accommodate 12 x 240L mobile garbage bins with 6 x General Waste + 6 x Recycling.

Conclusion

The SWMMP has demonstrated that adequate storage, collection, disposal and waste minimisation measures have been considered during the design process of the development.

It is considered that that the proposal has the capacity to meet the objectives of the PSDCP 2014 to minimise the quantities of waste being disposed of in landfill and the provision of adequate waste management facilities on-site.

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