



North Construction Pty Ltd

Construction Waste Management Plan

St Matthews Catholic School

February 2021

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1 Author and Project Details

Author Details

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Development Details

Approved Project Details	Construction of a new high school to cater for up to 680 students comprising: • Construction of five buildings including administration areas, a chapel, teaching spaces, specialist and performing arts spaces; and • Associated works including car parking, drop-off/pick-up facilities, signage, tree removal, landscaping and infrastructure upgrades.
Address of Development	48 Broad Head Road, Spring Flat. Lot 40 DP 756894
Existing Buildings and other structures currently on the site	No buildings or other structures exist on the site.

This development achieves the waste objectives set out in the DCP. The details on this form are the provisions and intentions for minimising waste relating to this project. All records demonstrating lawful disposal of waste will be retained and kept readily accessible for inspection by regulatory authorities such as council, OEH or WorkCover NSW.

Contact Name	Ben Miller
Signature	
Date	26/02/2021

2 Introduction

Barker Ryan Stewart have been engaged by North Constructions Pty Ltd to prepare a Construction Waste Management Plan to accompany an application for a Construction Certificate for the approved St Matthews Catholic School (SSD Application no: SSD 9872).

This Construction Waste Management Plan has been prepared to address Condition C13 as follows:

C13. The Construction Waste Management Sub-Plan (CWMSP) must address, but not be limited to, the following:

- a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations; and*
- b) removal of hazardous materials, particularly the method of containment and control of emission of fibres to the air, and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of construction.*

This CWMP will enable contractors and site management to meet specific waste objectives.

3 Waste Avoidance and Reduction

It is recommended that Contractors should be instructed to review this CWMP with contract staff during indications to outline primary ways to manage waste and divert excess construction materials from landfill. Opportunities for divert excessive waste to landfill include:

- Utilising all suitable topsoil on site for landscaping purposes.
- Explore opportunities for inert fill excavated from the site to be transported to approved development sites to be reused where additional inert fill is required.
- All waste identified with contaminants to be disposed at approved waste facilities.
- Information on the importance of early waste separation and in- situ characterisation of waste to be provided to all staff;
- Methods to enable identification of waste and construction materials to be provided to all staff;
- Appropriate instructions for documenting volumes of waste and methods of disposal;
- Site Manager field observations and audits designed to ensure that contractors are adhering to the construction waste strategy;
- Reduce stockpiling of waste where possible as it becomes difficult to characterise specific materials for recycling when certain materials cannot be visually identified;
- Specific waste characterisation areas should allow waste to be sorted in a safe environment away from immediate construction danger;
- Procedures to be prepared prior to construction for Site Managers or persons responsibility for site waste to undertake a final inspection of landfill waste to ensure the materials have been characterised correctly;
- Procedure to be prepared for potential reuse of construction materials on site.

4 Waste Avoidance and Reduction

4.1 Construction Waste Monitoring and Reporting

Documentation of construction waste generation totals, methods of removal and on site reuse, off site reuse, off site recycling and off-site disposal should be maintained by contractors to ensure waste removal is documented. Where possible, Site Managers should be responsible for the preparation of monthly reporting to ensure waste objectives are being met.

A Waste Register is to be kept by all contractors documenting the following:

- Type of waste;
- Total tonnage and volume of waste;
- Category of waste (recycling, reuse, landfill);
- Destination for reuse, recycling or landfill; and
- Landfill and waste contractor receipts.

Any waste removal issues throughout construction should be identified immediately and Site Managers should undertake any actions required to prevent the issue reoccurring.

4.2 Excavation Waste Reuse

Cut and fill requirements are generally neutral with a minor excess of 43m³ resulting.

A Detailed Site Investigation Report was prepared by Martens which confirmed that the site was not contaminated and remediation was not required. Accordingly, any topsoil or excavated material will remain on site for use in landscaping and waste classification in accordance with the NSW EPA Waste Classification Guidelines (2014) will not be required.

4.3 Roles and Responsibilities

Table 1 identifies typical roles and responsibilities associated with contractor waste disposal in large construction sites. Note roles and responsibilities will be assigned by the contractor and the following information is provided as a guide only.

Table 1: Typical Waste Roles and Responsibilities

Role	Typical Responsibility
Site Management or Waste Managers	Responsible for the organisation of waste removal within the site area including monitoring, reporting and delegating of tasks to ensure waste is to be diverted from landfill where possible.
Construction personnel	Responsible for daily waste characterisation and maintenance to ensure waste objectives are being met. Construction personnel should be educated on the requirement of the waste strategy and any potential impacts.
WHS Managers	Typically, responsible for management of site safety and induction of all workers prior to construction. This may include discussion of the waste management strategy and hierarchy associated with waste disposal on and off the site.
External Waste Contractors	Responsible for the collection and disposal of waste to recycling facilities or landfill. External waste contractors should report to the Site Managers or Waste Managers to ensure the waste strategy is being adopted and documentation of waste leaving the site is prepared.

4.4 Waste Avoidance and Reduction Methods

- All fixtures and fittings will be made to measure wherever possible;
- All materials will be ordered in accordance with a bill of quantities;
- Recycled materials will be utilised on site or on nearby sites where ever possible to reduce transport costs and impacts to the environment;

- Measures will be taken to ensure the construction contractor is aware of the waste management procedures and adheres to appropriate guidelines;
- Salvage materials for recycling and reuse during the construction process; and
- The remaining waste to be transported to a recognised builders recycling yard or waste facility.

4.5 End Destination for Waste Streams

See below details of the Construction Waste Management contractor/s engaged to undertake construction waste removal from the site.

Table 2: Waste Stream Destinations

Contractor	Address	Type of Waste
JR Richards	20B Sydney Road, Mudgee	General waste
JR Richards	20B Sydney Road, Mudgee	Cardboard/ Recycling
Mudgee Scrap and Steel Depot	30 Industrial Avenue, Mudgee	Metal/ scrap steel

5 Demolition

The greenfield site is vacant and demolition is not required.

Refer to section 4.2 for details of excavation reuse.

6 Construction

6.1 Waste Generation

Table 2 identifies expected waste generation during construction based on review of the approved Architectural and Civil Engineering Plans.

Please note end destination for waste streams is provided in section 4.5.

Table 3: Estimated Construction Waste Generation

Type of Waste Generated	Reuse Estimate Volume (m³)	Recycle Estimate Volume (m³)	Disposal Estimate Volume (m³)	Comment
Excavation material	43m³	-	-	Excavated materials will be reused as fill on other developments or on-site.
Gyprock / Cladding	30m³	30m³	-	Transferred to waste management facility or recycling facility.
Concrete	25m³	-	-	Any excess concrete will be retained on site for crushing and reuse.

Type of Waste Generated	Reuse Estimate Volume (m ³)	Recycle Estimate Volume (m ³)	Disposal Estimate Volume (m ³)	Comment Specify method of on-site reuse, contractor and recycling outlet and/or waste depot to be used (refer section 4.5)
Masonry (Hebel Block/Fibre cement sheeting/ Pavers)	-	35m ³	-	Transferred to waste management facility or recycling facility.
Tiles (roof)	-	-	-	No tiles used.
Metal (roofing / framing / façade)	-	25m ³	-	Transferred to waste management facility or recycling facility.
Glass	-	-	-	All glass will be made to order
Furniture	-	-	-	All furniture will be made to order.
Fixtures / fittings	6m ³	-	-	Fixtures will generally be made to order. Any excess will be utilised by the contractor or supplier at other sites.
Floor coverings	6m ³	10m ³	-	Reused by the supplier/ contractor or transferred to a waste recycling facility.
Packaging (used pallets / pallet wrap)	21m ³	14m ³	9m ³	Pallets will be reused by delivery contractors or transferred to a Material Recovery Facility. Wrap and packaging will be a transferred to waste recycling or waste management facility.
Garden organics	5m ³	8m ³	-	Organics will be ordered to size in accordance with the quantity survey. Any excess will be returned to provider, reused on site or another development site or transferred to a waste recycling facility.
Containers (cans / plastic / glass)	-	19m ³	3m ³	Containers will be a transferred to Councils Waste Management Facility.
Paper / cardboard	-	16m ³	-	Transferred to waste management facility or recycling facility.
Residual waste	-	-	44m ³	Residual waste will be transferred to Councils Waste Management Facility.
Hazardous / special waste (specify)	-	-	-	No hazardous materials will be utilised in the construction.
Other (Asphalt)	12m ³	19m ³	-	Reused on another development site or transferred to waste recycling facility.

7 Conclusion

This Construction Waste Management Plan has been prepared to guide waste management processes associated with the construction of the St Matthews Catholic School at 48 Broad Head Road, Spring Flat.

Subject to any unexpected finds during excavation works, 100% of the excavated material (43m³) will be reused on site for landscaping.

The quantity of waste materials to be generated onsite are estimates based on the information provided.

Site management are responsible for proactive waste protocols during the construction phase to ensure that waste is diverted from landfill wherever possible.