



Deicorp Projects Pty Ltd

Construction Waste Management Plan

Proposed Residential Development with Infill Affordable Housing– SSD-
74319712)

161 Herring Road & 13-15 Lachlan Avenue, Macquarie Park

November 2024

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1 Author and Project Details

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Development Details	
Project Details	Herring Road and Lachlan Avenue, Macquarie Park - New Residential Development with Infill Affordable Housing at 161 Herring Road and 13-15 Lachlan Avenue Macquarie Park
Address of Development	161 Herring Road and 13-15 Lachlan Avenue, Macquarie Park
Existing Buildings and other structures currently on the site	The site is currently occupied by two residential flat buildings.
Description of proposed development	The proposed development seeks consent for a new residential flat development with in-fill affordable housing. The proposal will include the following works: - Demolition of existing structures - Construction of a single residential tower up to 17 storeys - 181 residential units including 29 affordable housing units - Excavation for basement levels with 195 car spaces and associated services - Removal of existing trees on site - Landscaping and a communal space network including rooftop garden

This development achieves the waste objectives set out in the City of Ryde DCP 2014. 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, Senior Town Planner

Date 4 November 2024

2 Report Requirements

2.1 Secretary's Environmental Assessment Requirements

This *Construction Waste Management Plan* accompanies an Environmental Impact Statement (EIS) pursuant to Part 4 of the *Environmental Planning and Assessment Act 1979* (EP&A Act), in support of a State Significant Development Application (SSDA) for the construction and operation of the residential development at 161 Herring Road and 13-15 Lachlan Avenue, Macquarie Park, reference SD-74319712.

This report addresses the Secretary's Environmental Assessment Requirements (SEARs) issued for the project (SSD-74319712), notably SEAR 17 as discussed in Table 1.

Table 1: SEAR'S Requirements

SEAR Requirement	Comment
17. Waste Management - Identify, quantify and classify the likely waste streams to be generated during construction and operation. - Provide the measures to be implemented to manage, reuse, recycle and safely dispose of this waste. - Identify appropriate servicing arrangement. - If buildings are proposed to be demolished or altered, provide a hazardous materials survey.	- Waste streams associated with both demolition and construction are addressed in Sections 5 & 6. - Measures to manage, reuse, recycle and safely dispose of waste are identified in Section 4 (Waste Avoidance and Reduction) and Sections 5 & 6 (Demolition and Construction Waste). - Operational servicing arrangements form part of the Operational Waste Management Plan submitted under separate cover. - A Hazardous Materials Survey has been prepared and submitted under separate cover (EI Australia – Rev 0, 15/10/2024).

2.2 Council Requirements

This CWMP has been prepared having regard for the specific waste management objectives of the City of Ryde DCP 2014, Part 7.2 – Waste Minimisation and Management, which are:

- To minimise resource requirements and construction waste through reuse and recycling and the efficient selection and use of resources.
- To minimise demolition waste by promoting adaptability in building design and focussing upon end of life deconstruction.
- To encourage building designs, construction and demolition techniques which minimise waste generation.
- To maximise reuse and recycling of household waste and industrial/commercial waste.
- To assist in achieving Federal and State Government waste minimisation targets in accordance with regional waste plans.
- To minimise the overall environmental impacts of waste and foster the principles of ecologically sustainable development (ESD).

4 Waste Avoidance and Reduction

4.1 Construction Waste Methods

Contractors will be provided with a waste management module which outlines primary ways to manage waste and divert excess construction materials from landfill. To ensure the project will divert as much waste as possible, the construction waste strategy will include:

- All waste identified with contaminants to be disposed at approved waste facilities. Any contaminated material to be removed from the site shall be disposed of to an EPA licensed land fill;
- Information on the importance of early waste separation and in- situ characterisation of waste;
- Methods to enable identification of waste and construction materials;
- 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; and
- Procedure to be prepared for potential reuse of construction materials on site.

4.2 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 targets are achieved and 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 non-conformances throughout construction should be identified immediately and Site Managers should undertake any actions required to prevent the issue reoccurring.

4.3 Roles and Responsibilities

Table 2 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 2: Typical Waste Roles and Responsibilities

Role	Typical Responsibility
Site Management or Waste Managers	Responsible for the meeting of all waste objectives within the site area including monitoring, reporting and delegating of tasks where required to ensure waste is to be predominantly diverted from landfill.
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 impacts associated with works.
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 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

Details are provided below of the construction waste management contractors likely to be engaged to undertake construction waste removal from the site. Documentation (such as receipts) for the transport and disposal of waste and recycling materials from the site must be retained by waste contractors.

Cheap and Quick Waste Bins Pty Ltd.

25 - 27 Governor Macquarie Drive
Chipping Norton NSW 2170

The waste contractor will utilise the below end destination for all recyclable materials.

KLF Holdings Pty Ltd

16 Grande Avenue
Camelia NSW 2142

Landfill products will be transported to SUEZ at Kemps Creek.

Please note the providers above will be confirmed at Construction Certificate stage and are subject to change.

Note, the Protection of the Environment Operations (Waste) Regulation 2014 has requirements for waste transporters to record the movement of more than 100 kilograms of asbestos waste or more than 10 square metres of asbestos sheeting. Transporters must use the online Waste Locate system.

5 Demolition

5.1 Hazardous Waste

Any hazardous materials identified are to undergo characterisation and separation from non-hazardous materials in order to divert as much waste from landfill as possible. If the separation cannot be achieved safely however, it is recommended that potentially non-hazardous materials are categorised as hazardous for the purposes of handling and disposal.

A Hazardous Materials Survey has been prepared by EI Australia (Rev 0, 15/10/2024) which identified recommendations for removal of the hazardous materials from within the existing Residential Flat Buildings. All potentially hazardous materials within the existing buildings were allocated a risk level of Negligible to Low. The recommendations have been prepared to address the presence of asbestos containing materials (ACM's), lead based paints (LBP's), lead containing dust (LCD), synthetic mineral fibres (SMF's) and polychlorinated biphenyls (PCB's) and will be implemented as per Conditions of Consent.

5.2 Demolition Waste Generation

Table 3 details estimated waste generation associated with the two existing residential flat buildings.

Table 3: Estimated Demolition Waste Generation

Type of Waste Generated	Reuse	Recycle	Disposal	Comment
	Estimate Volume (m³)	Estimate Volume (m³)	Estimate Volume (m³)	Specify method of on-site reuse, contractor and recycling outlet and/or waste depot to be used
Excavation material	N/A	N/A	N/A	Excavation is at construction stage.
Timber (Side façade / dressed)	-	216m³	-	Transferred to a Material Recovery Facility or Council Waste Transfer Station.
Gyprock / Cladding	-	149m³	-	Transferred to a Material Recovery Facility or Council Waste Transfer Station.
Concrete	-	342m³	-	Any concrete waste will be crushed and transported to other construction sites or through a Material Recovery Facility.
Masonry (Hebel Block/Fibre cement sheeting/ Pavers / bricks)	49m³	280m³	-	Transferred to a Material Recovery Facility or reused on other sites.
Tiles (roof and internal)	N/A	71m³	N/A	Transferred to a Material Recovery Facility
Metal (roofing / framing / façade)	-	20m³	-	Transferred to a Material Recovery Facility
Glass	-	62m³	-	Transferred to a Material Recovery Facility

Type of Waste Generated	Reuse	Recycle	Disposal	Comment
	Estimate Volume (m ³)	Estimate Volume (m ³)	Estimate Volume (m ³)	Specify method of on-site reuse, contractor and recycling outlet and/or waste depot to be used
Furniture	N/A	N/A	N/A	Furniture will be removed prior to demolition.
Fixtures / Fittings	-	39m ³	9m ³	Transferred to a Material Recovery Facility or Council Waste Transfer Station.
Floor coverings	-	62m ³	21m ³	Transferred to waste management facility or recycling facility.
Packaging (used pallets / pallet wrap)	N/A	N/A	N/A	No packaging will be used during the demolition.
Garden organics	21m ³	-	-	Reused as mulch on site or recycled through private contractor or through Council's green waste.
Containers (cans / plastic / glass)	-	21m ³	-	Containers to be sorted and transferred to Council Waste Transfer Station
Paper / cardboard		10.5m ³		Transferred to a Material Recovery Facility
Residual waste	-	18m ³	46m ³	Transferred to a Council Waste Management Facility.
Hazardous / special waste (specify)	TBC	TBC	TBC	Any asbestos or hazardous waste identified on the site will be categorised, removed and disposed of prior to general demolition works by a qualified demolition removalist in accordance with the relevant standards.

5.3 Waste Management

Waste management during demolition and construction will be provided as part of a construction management plan included as part of the construction certificate process. Reuse/ recycling contractor and landfill site for disposal to be determined at Construction Certificate stage.

5.4 Waste Avoidance and Reduction

- Salvage materials for recycling and reuse during the demolition process; and
- The remaining waste to be transported to a recognised builders recycling yard or waste facility.

6 Construction

6.1 Waste Generation

Table 4 details estimated waste generation associated with the construction of the mixed use development.

Table 4: Estimated Construction Waste Generation

Type of Waste Generated	Reuse Estimate Volume (m³)	Recycle Estimate Volume (m³)	Disposal Estimate Volume (m³)	Comment Specify method of on-site reuse, contractor and recycling outlet and/or waste depot to be used
Excavation material	Approx 25,000m³			Excavated materials will be reused as fill on other developments or on-site.
Timber (Side façade / dressed)	21m³	55m³		Transferred to waste management facility or recycling facility.
Gyprock / Cladding		105m³		Transferred to waste management facility or recycling facility.
Concrete	32m³	5m³		Any excess concrete will be retained in the truck and used elsewhere.
Masonry (Hebel Block/Fibre cement sheeting/ Pavers)		330m³		Transferred to waste management facility or recycling facility.
Tiles		90m³		Transferred to waste management facility or recycling facility.
Metal (roofing / framing / façade)	49m³	196m³		Transferred to waste management facility or recycling facility.
Glass				All glass will be made to order
Furniture				Not at this stage.
Fixtures / fittings	22m³			Fixtures will be largely made to order. Any excess will be returned to the supplier.
Floor coverings	12m³	21m³	21m³	Transferred to waste management facility or recycling facility.
Packaging (used pallets / pallet wrap)		60m³		Pallets will be transferred to a Material Recovery Facility. Wrap and packaging will be a transferred to Councils Waste Management Facility.
Garden organics	14m³			Organics will be ordered to size in accordance with the quantity survey.
Containers (cans / plastic / glass)		52m³		Containers will be a transferred to Councils Waste Management Facility.
Paper / cardboard		19m³		Transferred to waste management facility or recycling facility.

Type of Waste Generated	Reuse Estimate Volume (m³)	Recycle Estimate Volume (m³)	Disposal Estimate Volume (m³)	Comment Specify method of on-site reuse, contractor and recycling outlet and/or waste depot to be used
Residual waste		24m³	69m³	Residual waste will be transferred to Councils Waste Management Facility.
Hazardous / special waste (specify)	N/A	N/A	N/A	No hazardous materials will be utilised in the construction.

6.2 Waste Management

Waste management during construction will be provided as part of a construction management plan included as part of the construction certificate process.

6.3 Waste Avoidance and Reduction

- All fixtures and fittings will be made to measure;
- All materials will be ordered in accordance with a bill of quantities;
- Recycled materials will be utilised where ever possible;
- 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.

7 Conclusion

This Construction Waste Management Plan has been prepared to guide waste management processes associated with the proposed demolition of existing structures and construction of a residential development at 161 Herring Road and 13-15 Lachlan Avenue, Macquarie Park.

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

8 Statement of Compliance

I Ben Miller, confirm this Construction Waste Management Plan addresses the requirement of SEAR No. 17 and relevant State and local legislation, policies, and guidelines. I further confirm that none of the information contained in the Construction Environmental Management Plan is false or misleading.



Ben Miller | Senior Town Planner
Barker Ryan Stewart