Operational Waste Management Plan

Greystanes Public School

SSD 8677

Version Control

Version date	Document owner	Date
V1.0	Fairvale High School	25 August 2020

1 Introduction

This Operational Waste Management Plan has been prepared by Fairvale High School, on behalf the of the NSW Department of Education (DoE). It accompanies the supporting documents prepared and submitted under State Significant Development SSD 8677 Condition of Consent D24 for the redevelopment of Fairvale High School at 1 Thorney Rd, Fairfield West NSW 2165 (the Site). This operational waste management plan details the systems and practices involved in managing waste and recycling during the ongoing operation of the School.

This plan outlines measures to achieve the following:

- Avoid the generation of unnecessary waste;
- Minimise the volume of waste to be collected; and
- Recycle, reuse and recover waste generated.

The plan:

a) details the type and quantity of waste to be generated during operation of the development;
b) describes the handling, storage and disposal of all waste streams generated on site, and is consistent with the Protection of the Environment Operations Act 1997, Protection of the Environment Operations (Waste) Regulation 2014 and the Waste Classification Guideline (Department of Environment, Climate Change and Water, 2009);
c) details the materials to be reused or recycled, either on or off site; and
d) includes the Management and Mitigation Measures included in EIS and Appendix 22.

2 Waste Generation

2.1 Waste Streams

The proposed development of Fairvale High School is intended to meet the local educational demand and provide approximately 1,510 students. Based on the information provided and benchmark data from similar developments, the primary waste streams expected to be generated in the ongoing operation of the development would be:

- Comingled recycling;
- Food organics and General waste;
- Additional smaller waste streams may include toner cartridge recycling, fluoro tube/globe recycling and battery recycling; and
- Small quantities of chemical waste may be generated. These chemicals would be used in the science laboratories.

2.2 Waste Generation Estimates

Based on industry averages, it is estimated that the school will generate a total of up to 240 kilograms and 2,800 litres of waste and recyclables per day. It should be noted that the following waste generation profile is an estimation only, based on average teaching and office use – assuming full use during weekdays with the projected total student number of 1,560 and associated staff. Of the waste above, it is estimated that on average 65% will be general waste including mixed waste and food organics and 35% Comingled recycling and a small amount of other waste sources.

3 Waste Management

The following waste handling, storage and disposal procedure is consistent with the Protection of the Environment Operations Act 1997, Protection of the Environment Operations (Waste) Regulation 2014 and the Waste Classification Guideline (Department of Environment, Climate Change and Water, 2009).

3.1 Waste Handling Operational Procedures

Staff and students will be advised as to correct segregation by information conveyed via newsletters, signage and staff advising students, regarding the waste management systems including how to use the system, which items are appropriate for each stream and collection regimes.

The following summarises the recommended waste and recycling systems that will be implemented.

- Mobile Waste Container (MGB) for waste and recyclables are located around the school grounds for use by staff and students.
- All MGB and bins are managed by Fairvale High School cleaning staff.
- All MGB are transported to the collection area from their locations on the school grounds by cleaning staff and then emptied by the contractor. This occurs in the morning prior to any staff/students arriving.

Other aspects for the management of wastes/recyclables include:

- All laboratories, classrooms, office areas and other rooms will be provided with small (15 litre) bins for both waste and recyclables in each room.
- Staff and students will be provided with information on the proper use of the waste management system and all will be encouraged to maximise the separation of general waste and mixed recyclables to aid the proper disposal of all materials.
- Cleaners will be responsible for emptying bins into the 240 litre MGB's.

3.2 Waste Collection and Storage

The waste provider for the school is Remondis, who supplies three 4.5 cubic metre top loading waste bins to the site, one for paper/cardboard and two for general waste. Collection occurs thrice weekly for general waste and weekly for paper/cardboard.

Access by all waste servicing vehicles will be consistent with the requirements of the relevant Australian Standard. Driveway access to the waste storage areas will continue from the existing driveways located off Tripoli Road. Waste collection movements to and from the site will occur in a forward direction, with adequate area provided for turning of waste vehicles. The waste collection point is shown on Figure 1.

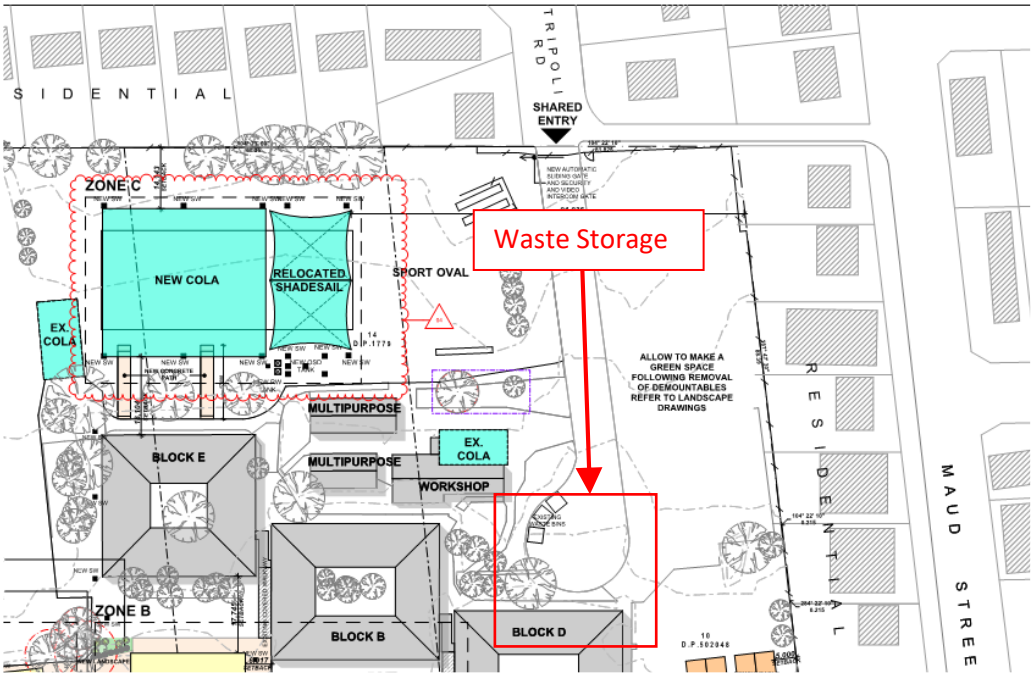

Figure 1 – Waste Storage Location

3.3 General Attendant

The waste facilities and equipment will be managed by the school's General Attendant. The General Attendant's duties will include, but not limited to, the following:

- General maintenance and cleaning of waste collection site;
- Organising and maintaining;
- Deodorising the waste collection site as required;
- Educating and updating staff and students on waste classification and disposal into appropriate bins; and
- Assisting with emptying of bins during collection as required.

3.4 Waste Disposal

Remondis is used for the collection of wastes and recyclables. This is a twice times per week service for general waste and commingled recycling. However, additional services can be arranged as required for smaller specialised waste streams. All waste is taken to Suez Wetherill Park Resource recovery facility 20 Davis Rd, Wetherill Park, NSW 2164, a licence waste and recycling centre.

3.5 Waste recycling

The following materials are collected for reused or recycling off-site:

- Comingled recycling including cardboard/paper, plastic, aluminium and glass; and
- Additional smaller waste streams including toner cartridge recycling, fluoro tube/globe recycling and battery recycling.

4 Management and Mitigation Measures

It is noted that Condition of Consent D24 part d) requires that the Waste Management Plan include the Management and Mitigation Measures included in the Environmental Impact Statement (EIS) and Appendix 22 (Waste Management Plan prepared by JDH Architects) of the development application (SSD 8677).

The EIS and Appendix 22 does not provide any detailed measures to avoid the generation of unnecessary waste, minimise the volume of waste to be collected, and recycle, reuse and recover waste generated through operation of the development. As such, Sections 2 and 3 are deemed sufficient in outlining the required Management and Mitigation Measures to be implemented.

This document is provided in Appendix 1 for reference.

Appendix 1

WASTE MANAGEMENT PLAN

Administration Centre
86 Avoca Road, Wakeley
Telephone: (02) 9725-0222
Mail: PO Box 21 Fairfield NSW 1860
Email: mail@fairfieldcity.nsw.gov.au
www.fairfieldcity.nsw.gov.au

A Waste Management Plan details how you intend to manage waste generated during the demolition and construction stage of your project as well as the waste generated from the ongoing use of the development. This form must be completed and submitted to Fairfield City Council with your Development Application and indicate what waste will be generated and how much, how waste will be avoided, reused on site, recycled and disposed and how you intend to keep disposal of waste to a minimum.

Proposal

1. Site address

House / unit no. 10	Lot: 12, 13, 14, 10	Section:	DP / SP: 1779 & 502048
Street:	Thorney Road		
Suburb:	Fairfield West		

2. Buildings and other structures on site. Please indicate what is on the site now.

Fairvale High School
The site currently contains existing school buildings including administration building, library, music, dance studios, workshop, Hall and classroom buildings. In addition are shade structures, games courts, play areas and parking associated with the operation of the school.
Most buildings on the site date from the original 1969 development with four courtyard buildings. The existing hall is housed in a “Binishell” constructed in 1974. The existing buildings include Blocks A, B, C, D, E, F, G, H and WS
Additional temporary demountable buildings located on site are generally proposed to be removed as part of the buildings works.

3. Description of proposal. Please indicate what you intend to do on the land.

The proposal includes the following -

Demolition of:
- Block C (Canteen), Block G (Binishell), 1 large COLA (Covered Outdoor Learning Area) and 3 smaller COLAs

Construction of:
- The construction of a new three storey building fronting Thorney Road which will include new specialist and general learning spaces, and administration on the ground floor
- The refurbishment of Block A Staff accommodation
- The construction of a new Multipurpose Hall adjacent to Zarley Street
- New landscaping and paths around the new developments
- Upgrade of landscaping around the main entranceand former Binishell area
- Removal of temporary demountable buildings

Details of waste management – demolition phase

MATERIALS ON SITE			DESTINATION		
			Reuse and recycling		Disposal
Type of materials	**Estimated volume** (m^2 or m^3)	**Estimated weight** (t)	**On-site** Specify proposed reuse or on-site recycling methods	**Off-site** Specify contractor and recycling outlet	Specify contractor and landfill site
Excavated materials	970m3		Reuse clean fill on site whe	Unused clean fill recycled at- Sue	Unclean fill - Suez Kemps Creek
Green waste	290m3			Suez Wetherill Park Resource re	
Bricks	2.5m3			Suez Wetherill Park Resource re	
Tiles	4.2m3			Suez Wetherill Park Resource re	
Concrete	800m3			Suez Wetherill Park Resource re	
Fibro	N/A				
Plasterboard	35m3			Suez Wetherill Park Resource re	
Asbestos	9.75m3				Suez Kemps Creek Resource rec
Metals - please specify : Door + window frames, sun shading + metal roof sheeting	55m3			Suez Wetherill Park Resource recovery facility 20 Davis Rd, Wetherill Park, NSW 2164	
Timber - please specify : Doors + timber floor boards (Bini Shell)	45m3			Suez Wetherill Park Resource recovery facility 20 Davis Rd, Wetherill Park, NSW 2164	
Other waste - please specify (eg. paints, PVC tubing, cardboard): Carpet + Vinyl	14.5m3			Suez Wetherill Park Resource recovery facility 20 Davis Rd, Wetherill Park, NSW 2164	

Details of waste management – construction phase

MATERIALS ON SITE			DESTINATION		
			Reuse and recycling		Disposal
Type of materials	**Estimated volume** (m^2 or m^3)	**Estimated weight** (t)	**On-site** Specify proposed reuse or on-site recycling methods	**Off-site** Specify contractor and recycling outlet	Specify contractor and landfill site
Excavated materials	Refer demolition				
Green waste	80m3			Suez Wetherill Park Resource rec	
Bricks	Blocks 18m3			Suez Wetherill Park Resource rec	
Tiles	3.5m3			Suez Wetherill Park Resource rec	
Concrete	50m3			Suez Wetherill Park Resource rec	
Fibro	7m3			Suez Wetherill Park Resource rec	
Plasterboard	20m3			Suez Wetherill Park Resource rec	
Metals - please specify : Roof sheet off-cuts	5m3			Suez Wetherill Park Resource recovery facility 20 Davis Rd, Wetherill Park, NSW 2164	
Timber - please specify : N/A	N/A				
Other waste - please specify (eg. paints, PVC tubing, cardboard): Floor covering off-cuts	15m3			Suez Wetherill Park Resource recovery facility 20 Davis Rd, Wetherill Park, NSW 2164	

Applicants details, checklist and consent

Checklist required for your Waste Management Plan :

- ☑ Have you provided applicant's name, address and phone number ?
- ☑ Have you noted the structures currently on site and details of your proposal ?
- ☑ Have you specified each material to be used on site ?
- ☑ Have you identified any hazardous and toxic materials (eg: asbestos) and complied with SafeWork NSW requirements ?
- ☑ Have you specified who your recycling and waste contractors will be ? *To be confirmed by construction contractor*
- ☑ Have you estimated how much general waste will be produced on your site ?
- ☑ Have you provided accurate measures of general waste ?
- ☑ Have you made sure not to over order on materials ? *To be confirmed by construction contractor*
- ☑ Have you investigated returning waste to the supplier (eg: plasterboard) ? *To be confirmed by construction contractor*
- ☑ Have you maximised recycling and reuse of materials ?
- ☑ Have you specified your recycling and/or landfill (if any) destinations ?

☑ I/we declare that all the information and details provided are correct as to how I/we intend to manage waste during this project.

Title:	☐ Mr ☐ Mrs ☑ Ms ☐ Miss ☐ Other ……	
Name:	Alison Cox	
Company (if applicable):	JDH Architects, on behalf of NSW Department of Education	
Address:	44 Little Oxford Street, Darlinghurst, NSW Postcode: 2010	
Contact details:	Home:	Mobile:
	Work: (02) 9281 8697	Fax:
E-mail:	alison@jdharchitects.com.au	
Signature:		Date: 16.10.2017

More information

For more information, please contact Council's Duty Officer between 8:30am and 4:30pm at Fairfield City Council's Administration Centre or by telephone 9725-0222.