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Woodleigh Senior Campus, Langwarrin
Waste Management Plan



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8 September 2023

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1 INTRODUCTION

onemilegrid has been requested by Woodleigh School to prepare a Waste Management Plan for the new Year 10 building at the Woodleigh Senior Campus, Langwarrin.

The preparation of this management plan has been undertaken with due consideration of the Sustainability Victoria Better Practice Guide for Waste Management and Recycling in Multi-Unit Developments, relevant Council documentation and existing waste management procedures.

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2 EXISTING SITE CONDITIONS

Woodleigh School's Senior Campus is located to the east of the Golf Links Road / Barretts Road intersection, addressed as 485 Golf Links Road, Langwarrin.

The proposed year 10 building is located within the northern portion of the Senior Campus and does not have frontage with either Golf Links Road or Barretts Road.

Figure 1 Site Location



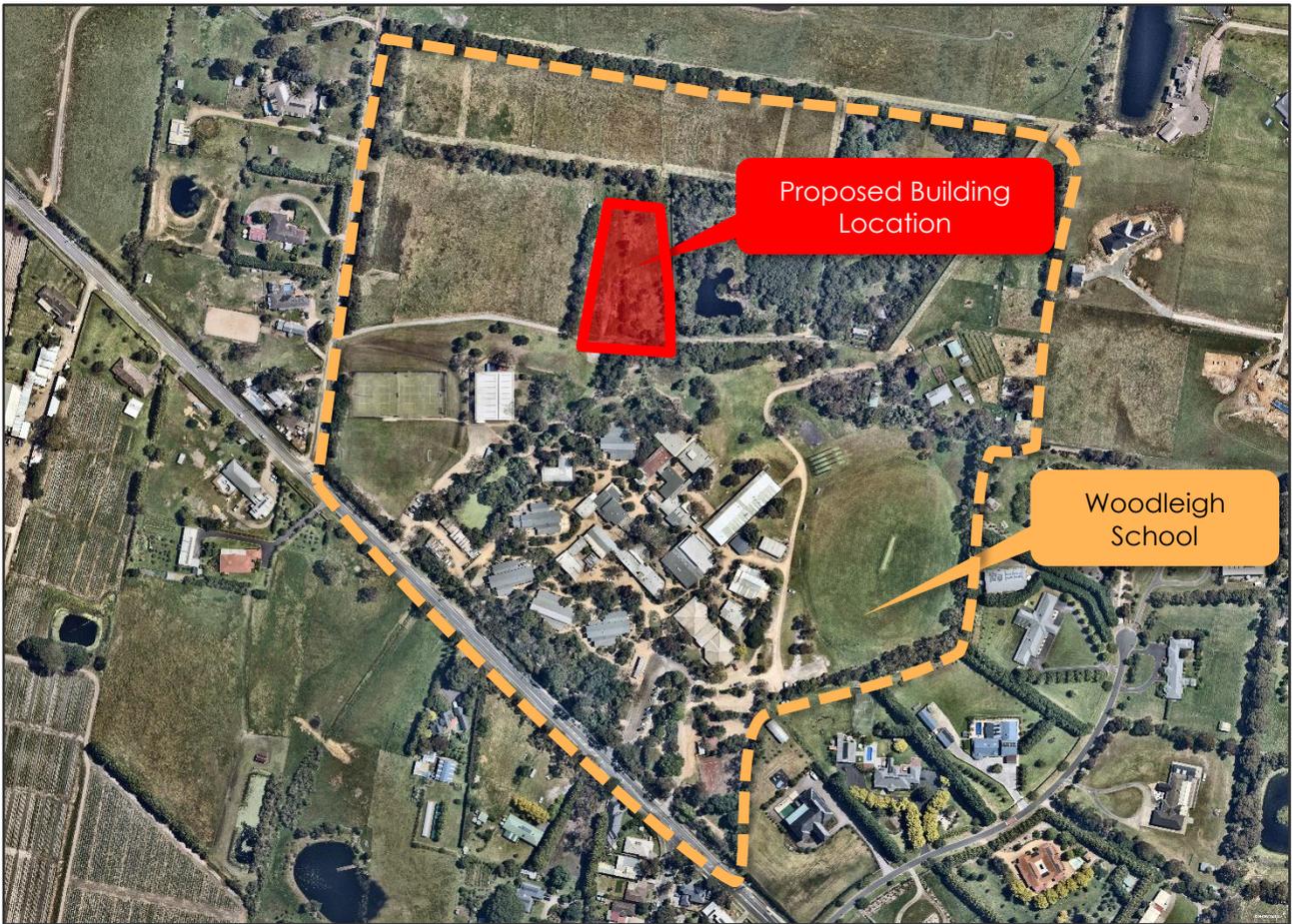
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Vehicle access to the campus is provided from Golf Links Road where a drop off zone and parking facilities already exist. Additionally, there is secondary maintenance access to the subject site from Barretts Road. Land use in the immediate vicinity of the site is primarily low density residential in nature.

An aerial view of the subject site in the context of its surrounds is provided in Figure 2.

The site of the proposed new building is currently occupied by grassland and plant life. There are no existing buildings in this portion of the campus.

Figure 2 Site Context (23 December 2022)



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3 DEVELOPMENT PROPOSAL

3.1 General

It is proposed to develop a new building for Woodleigh School's year 10 students.

The new building on the subject site is intended to replace an existing building (which will be decommissioned) at the Senior Campus. As a result, the proposal will not result in an increase in staff and student numbers.

It is not proposed to alter any existing access arrangements at the campus.

3.2 Waste Management

Waste collection for the existing Woodleigh Senior Campus is managed by a private contractor. The existing bin provision and collection schedule are detailed in Table 1.

Table 1 Existing Bin Provision and Collection

<i>Stream</i>	<i>Bin Size</i>	<i>Bins Provided</i>	<i>Collection Frequency</i>
Garbage	4,500 L	1 bin	2 x Weekly
Cardboard	3,000 L	1 bin	As required
Comingled Recycling	1,100 L	2 bins	As required

The bins are stored within the maintenance yard toward the southwest corner of the site, with access provided via Gate 2 to Golf Links Road.

On collection days the waste collection vehicle enters the hardstand area via Gate 2 and props within the maintenance yard adjacent the bins. The private contractor then empties the bins in place and the waste collection vehicle exits in a forward direction.

Additional bins are provided throughout the campus, within building areas and the grounds, which are collected daily and emptied into the larger bins. Staff or the appointed cleaning contractor are responsible for emptying these bins into the larger bins at the collection location.

As the proposal does not contemplate an increase in staffing and student numbers, the existing on-site waste management is expected to be sufficient. However, it is understood that a number of waste initiatives are being implemented on campus, aiming to minimise the amount of waste sent to landfill.

If the additional waste initiatives are successful in diverting a sufficient level of waste from landfill, the existing bin provision and/or collection frequency can be reduced by a commensurate amount.

The bin storage and collection location is shown in Figure 3.

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Figure 3 Bin Storage Area and Collection Details



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4 WASTE STREAMS

4.1 Garbage, Cardboard and Comingled Recycling

It is proposed to maintain the existing provision of garbage, cardboard and comingled recycling bins.

In the event that a reduction in the generation of these waste streams occurs, the number of bins or number of scheduled collections can be reduced.

4.2 Green Waste

It is expected that any maintenance and gardening undertaken on campus will be managed by a contractor appointed by the school.

Any green waste accumulated during the course of their duties will be composted on campus and used within the garden areas. The appointed contractor will be responsible for the disposal of any excess green waste accumulated during the course of their duties.

4.3 Hard Waste

Hard waste services will also be provided by the private contractor, under the management of the school.

Hard waste will be within the service yard between collections, with collection to be organised as required. It is expected that hard waste generation will be minimal, other than on specific occasions, such as during new fit outs or decommissioning old equipment.

4.4 Electronic Waste (E-Waste)

E-waste includes all manner of electronic waste, such as televisions, computers, cameras, phones, household electronic equipment, batteries and light bulbs. On 1st July 2019, the disposal of E-waste to landfill was banned by the Victorian Government.

E-waste contains valuable materials that can be recovered and reused such as tin, nickel, zinc, aluminium, copper, silver and gold.

A large number of e-waste collection points are available in Victoria and private contractors are equipped with the resources to undertake E-waste collections.

It is expected that the proposed development will generate very little E-Waste, other than on specific occasions (such as replacement of IT equipment, etc), and a specific E-Waste collection service is not considered to be necessary.

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4.5 Student Led Waste Initiatives

4.5.1 Organic (Food) Waste

It is proposed to provide on-site processing of food waste to minimise waste sent to landfill.

The new building will include the provision of an anaerobic digester (such as the MyGug system) to allow for food waste to be collected and processed on-site.

Food waste is disposed of into the system with water, which breaks down into biogas and liquid concentrate. The biogas can then be used for cooking, with the concentrate able to be used as fertiliser on garden areas.

Organics waste disposal bins will be provided within the lunch areas and food preparation areas to collect food waste prior to being disposed of in the digester.

4.5.2 Plastic Recycling

It is understood that a student led group on campus is involved with the processing of plastic bottles.

The students take waste plastic bottles and spin them through a cutting machine, which creates a 'string' that can then be extruded into 3D printing materials.

The material product can then be used on-site by the students or on-sold.

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5 WASTE MANAGEMENT

5.1 Best Practice Waste Management

Best Practice Waste Management is an initiative designed to reduce the amount of waste generated through encouraging a change of behaviour and action on waste management and moreover recycling.

The benefits of reducing waste generation are far reaching and have been identified as significantly important by Council and the Victorian Government.

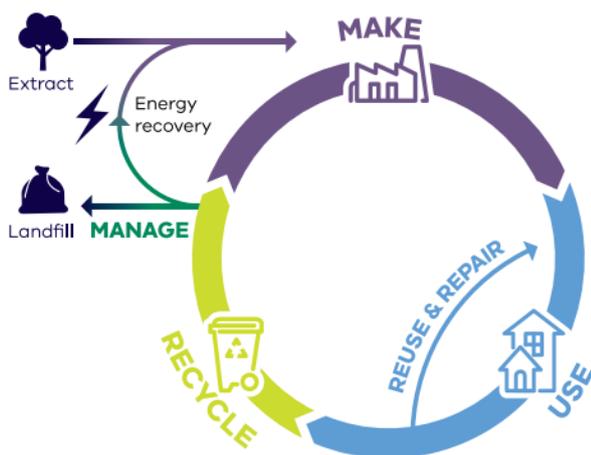
Recycling Victoria: A New Economy is a policy and 10-year action plan, prepared by the Victoria Government, to “deliver a cleaner, greener Victoria, with less waste and pollution, better recycling, more jobs and a stronger economy”.

Four overarching goals have been identified in order to achieve a circular economy in relation to waste, as below:

1. MAKE – Design to last, repair and recycle;
2. USE – Use products to create more value;
3. RECYCLE – Recycle more resources;
4. MANAGE – Reduce harm from waste and pollution.

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Figure 4 Resource Flows in a Circular Economy



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In relation to the proposed development, recycling is of key importance, and in this regard, the school shall encourage staff and students to participate in minimising and reducing solid waste production by:

- Promoting the waste hierarchy, which in order of preference seeks to:
 - + Avoid waste generation in the first place;
 - + Increase the reuse and recycling of waste when it is generated; and
 - + Recover, treat or contain waste preferentially to;
 - + Its disposal in Land Fill (which is least desirable).
- Providing information detailing recyclable materials to ensure that non-recyclable materials do not contaminate recycling collections;
- Providing information regarding safe chemical waste disposal methods and solutions, including correct battery and electronics disposal methods;
- Encouraging composting for staff and students; and
- Providing tips for recycling and reusing waste, including encouraging the disposal of reusable items in good condition via donations to Opportunity Shops and Charities.

5.2 Bin Cleaning

The school shall ensure that the bins are kept in a clean state, to minimise odours and to discourage vermin. This may include regular cleaning by a third party, bin swapping by the waste contractor, or maintenance by staff.

Where cleaning is to be undertaken on-site, it should only occur in a designated bin cleaning area, provided with a drain connected to sewer.

5.3 Signage

To avoid contamination between garbage streams, bin lids will be colour coded generally in accordance with contractor standards, to ensure the bin type is easily distinguishable. Furthermore, bins should include typical signage (preferably on the bin lid) to reinforce the appropriate materials to be deposited in each bin. Example signage is shown below.

Figure 5 Example Waste Signage



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5.4 Noise Control

To minimise the disturbance to the surrounding residential areas during waste collection, the collection should follow the criteria specified by the EPA, as below:

- Collections occurring once a week should be restricted to the hours:
 - + 6:30am to 8:00pm, Monday to Saturday;
 - + 9:00am to 8:00pm, Sunday and Public Holidays;
- Collections occurring more than once a week should be restricted to the hours:
 - + 7:00am to 8:00pm, Monday to Saturday;
 - + 9:00am to 8:00pm, Sunday and Public Holidays;
- Refuse bins should be located at sites that provide minimal annoyance to residential premises;
- Compaction should be carried out while the vehicle is moving;
- Bottles should not be broken up at the collection site;
- Routes which service predominantly residential areas should be altered regularly to reduce early morning disturbances; and
- Noisy verbal communication between operators should be avoided where possible.

5.5 Staff Information

To ensure all staff are aware of their responsibilities with regard to waste and bin management, an information package will be provided by the school to all staff, including the following information:

- A copy of this Waste Management Plan;
- Methods and techniques for waste reduction and minimisation;
- Information regarding bin collection days and requirements;
- Staff responsibilities with regard to bin usage, storage, and collection; and
- Staff responsibilities with regard to litter and waste removal from the common property.

6 OCCUPATIONAL HEALTH & SAFETY RESPONSIBILITIES

School management shall ensure compliance to all relevant OH&S regulations and legislation, including the following:

- Worksafe Victoria Guidelines for Non-Hazardous Waste and Recyclable Materials

7 CONTACT INFORMATION

7.1 Council

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Frankston City Council

Phone: 1300 322 322 (Customer Service)

Web: www.frankston.vic.gov.au

Email: correspondence@frankston.vic.gov.au

7.2 Contractors

CSC Waste & recycling

Services: Private contractor

Phone: 1300 499 927

Web: www.cscwaste.com.au

Email: info@cscwaste.com.au

WM Waste Management

Services: Private contractor

Phone: (03) 9721 1900

Web: www.wmwaste.com.au/

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Cleanaway

Services: Private contractor
Phone: 131 339
Web: www.cleanaway.com.au/

Corio Waste Management

Services: Private contractor
Phone: 1300 267 4696
Web: www.coriowm.com.au

JJ Richards & Sons

Services: Private contractor including bin tugs
Phone: (03) 9703 5222
Web: www.jjrichards.com.au
Email: operations.melbourne@jjrichards.com.au

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7.3 Others

Sustainability Victoria

Services: Sustainable Waste Management initiatives and information
Phone: 1300 363 744 (Energy, Waste and Recycling)
Web: www.sustainability.vic.gov.au
Email: info@sustainability.vic.gov.au

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