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OPERATIONAL WASTE MANAGEMENT PLAN

PENDLE HILL HIGH SCHOOL (SSD) STATE SIGNIFICANT DEVELOPMENT NO. 9579147



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SUBMITTED TO:

Mardi Christian

Project Manager
mardi.christian@tsamgt.com

PRESENTED BY:

JO DRUMMOND

ECCELL ENVIRONMENTAL MANAGEMENT
35 WAVERLY CRST, BONDI JUNCTION 2022
www.eccellenvironmental.com.au

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DISCLAIMER

This report is based on information provided by TSA and Fulton Trotter Architects.

To that extent this report relies on the accuracy of the information provided to the consultant This report is not a substitute for legal advice on the relevant environmental related legislation, which applies to businesses, contractors or other bodies. Accordingly, EcCell Environmental will not be liable for any loss or damage that may arise out of this project.

DOCUMENT CONTROL

ISSUE NUMBER	DATE	AUTHOR	REVIEW	APPROVED BY
DRAFT	25/02/2021	Simon Lunn	Jo Drummond	Patrick Nolan
V1	18/03/2021	Simon Lunn	Jo Drummond	Patrick Nolan

Evidence of Waste Auditor Qualification:

Jo Drummond

Director and founder of EcCell Environmental <https://www.eccellenvironmental.com.au/>

Exemplar Global (Previously RABQSA) Environmental Auditor (Auditor Grade) & Scope Waste Management

Certificate Number 134233

PENDLE HILL HIGH SCHOOL OPERATIONAL WASTE MANAGEMENT PLAN

1 INTRODUCTION

This Operational Waste Management Plan (OWMP) has been prepared by EcCell Environmental for the Redevelopment of Pendle Hill High School at Cornock Avenue Toongabbie (Lot 101 in DP1141329) (the site).

The Operational Waste Management Plan integrates the State Significant Development Application SSD-9579147 and addresses aspects of waste management to meet SSD Requirements General Standard SEARs – Condition 19 ref Table 3 and the Green Star – Design & As Built v1.3 Operational Waste Credit 8 criteria.

Guidance documents referenced as part of this OWMP are as follows:

- Better Practice Guide for Waste Management in Multi-unit Dwellings (NSW EPA 2008)
- Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities (EPA 2012)
- City of Parramatta Waste Not DCP 2011

The Operational Waste Management Plan is required to:

- detail the type and quantity of waste to be generated during operation of the development;
- describe the handling, storage and disposal of all waste streams generated on site, 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);
- detail the materials to be reused or recycled, either on or off site; and
- include the Management and Mitigation Measures
- Identify appropriate servicing arrangements (including but not limited to, waste management, loading zones, mechanical plant) for the site.

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1.1 PROJECT SUMMARY

The Pendle Hill High School will include

- Construction of a new three-storey courtyard building on Binalong Road comprising two (2) three-storey wings under a connected roof which will accommodate a library, staff unit, lecture theatre, multimedia and senior learning spaces, administration unit and student amenities;
- External transport infrastructure upgrade works;
- New covered walkways and upgraded landscaping; and
- New hard stand areas for bicycle parking.

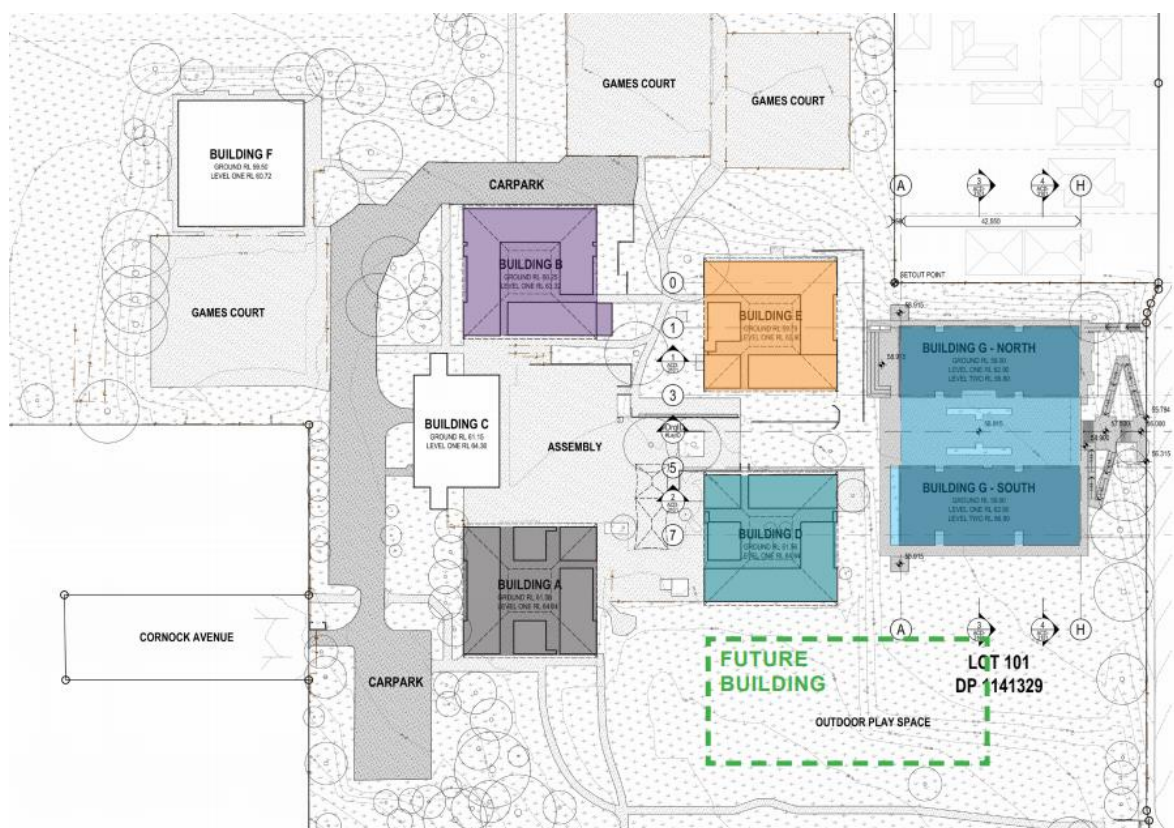


Figure 1. Site Drawing Fulton Trotter Architects

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The breakdown of uses for each new building is shown in Table 1.

Table 1 - Building breakdown by usage

Building	Usage/assumptions	NLA (m ²)
Building H - North	High school	1660
Building H - South	High school	1720

These figures are based on the following room schedules as advised by Fulton Trotter Architects:

North Wing

- Ground = 540m²
- Level One = 560m²
- Level Two = 560m²

South Wing

- Ground = 620m²
- Level One = 550m²
- Level Two = 550m²

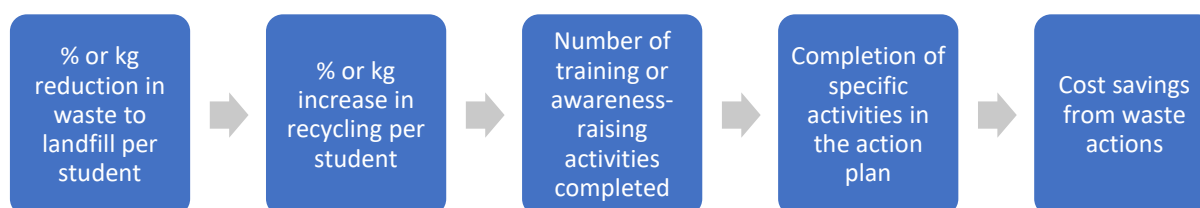
Total GFA = 3380m²

2 OBJECTIVES

2.1 GOALS, TARGETS & PERFORMANCE INDICATORS

By setting realistic achievable goals, targets & performance the OWMP is more likely to succeed and the school is able to report on waste diversion and reduction targets in line with the Department of Education's waste contract and comply with State Significant Development conditions.

Examples of key performance indicators that may be relevant include:



2.2 SPECIFIC DIVERSION RATES AND REDUCTION TARGETS

Table 2- Estimated Diversion & reduction targets for waste streams

Waste	Diversion rate target	Reduction target
General Waste	80%	10%
Paper & Cardboard Recycling	80%	10%
Containers Recycling	80%	10%

Note: Waste and recycling diversion targets have been set by the Department of Education through the Whole of Government Waste Tender.

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3 LEGISLATIVE REQUIREMENTS AND GUIDELINES

3.1 LEGISLATION & REGULATIONS & GUIDELINES

This OWMP has been prepared in accordance with legislation relevant to waste management at the site as below:

Guidance documents and policies considered in the preparation of this OWMP are included below:

NSW Environment Protection Authority (EPA) Waste Classification Guidelines 2014

NSW EPA's Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities 2012

Parramatta City Council Waste Not DCP

NSW EPA's Waste Avoidance and Resource Recovery (WARR) Strategy 2014-21

State Significant Development Application SSD

Educational Facilities Standards & Guidelines (EFSG) NSW Updated 2020

4 STANDARD SECRETARY'S ENVIRONMENTAL ASSESSMENT REQUIREMENTS (SEARS)

The purpose of this OWMP is to meet the general standards of the Standard Secretary's Environmental Assessment Requirements (SEARs) conditions of consent, particularly Condition 19 as listed Table 3. **Planning Secretary's Environmental Assessment Requirements**

Table 3 - General Standard SEARs – Condition 19

Requirement	Requirements 19	Location in the document
1. Classify	Identify, quantify and classify the likely waste streams to be generated during construction and operation.	Section 6
2 Describe	Describe the measures to be implemented to manage, reuse, recycle and safely dispose of this waste.	Section 7
3 Identify	Identify appropriate servicing arrangements (including but not limited to, waste management, loading zones, mechanical plant) for the site.	Section 8

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5 GREEN STAR DESIGN & AS BUILT 08A AND 08B

5.1 AIM OF CREDIT

To recognise projects that implement waste management plans that facilitate the re-use, recycling, or conversion of waste into energy, and stewardship of items to reduce the quantity of outgoing waste.

Table 4 - Green Star Requirements Design & As Built v1.3

5.2 8A PERFORMANCE PATHWAY		
Separation of waste streams	<p>The following waste streams must be provided with separate bins or containers:</p> <ul style="list-style-type: none"> • general waste, • paper and cardboard, • glass, • plastic, • at least one other waste stream. <p>Advice from the GBCA indicates that where the waste collection service collects recyclables as a comingled stream, the requirement to provide separated waste streams for these recyclables is removed.</p> <p>This is permissible to the extent of comingling accepted by the waste collection service</p> <p>For example, if glass and plastic are collected as co-mingled, then paper and cardboard is still required to have a separated waste stream.</p>	<p>This OWMP outlines provision for the management and collection of the following waste streams:</p> <ul style="list-style-type: none"> • general waste, • paper and cardboard, • co-mingled recycling, • food organics, • hard / bulky waste, <p>Separate bins will be provided for each waste stream stored in a central waste storage areas and bins will be clearly marked.</p>
Dedicated Waste Storage Area	<p>Two dedicated and sufficiently sized areas for the storage and collection of the applicable waste streams shall be provided.</p>	<p>Calculations for the waste storage areas required in the PHHS School development have been carried out based on:</p> <ul style="list-style-type: none"> • waste generated by the school, • collection method and materials handling requirements of each stream, • collection frequency for each waste stream, • projected tenancy structure impact on the waste collection services supply chain, • hygiene, cleanliness and aesthetic aspects to the benefit of the development.

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Access to Waste Storage Area	<p>Access requirements for waste collection areas must adhere to best practices.</p> <p>These access arrangements must be as outlined within third-party Best Practice Guidelines.</p> <p>Best Practice Guidelines outline the following requirements:</p> <ul style="list-style-type: none"> The access pathway for wheeling bins between a central waste storage point and the collection point must be level and free of steps or kerbs. The maximum manual handling distance between the storage point and the collection point for mobile garbage bins is 20 meters. 	<p>The transfer pathway in the development meets the requirements of the Parramatta Council Development Control Plan (DCP 2014)</p> <p>The proximity of the waste collection vehicle parking location and the waste pad area is less than 20 meters.</p>
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6 WASTE GENERATION

6.1 WASTE TYPES

The NSW EPA Waste Classification Guidelines (NSW EPA, 2014a) groups wastes that pose similar risks to the environment and human health, as defined in the Protection of the Environment Operations Act 1997. The primary waste streams expected to be generated and corresponding EPA classifications for the ongoing operation of the development are summarised in Table 4.

Table 5 - Potential Waste Types and Classifications

Waste Type	EPA Classification	Bin Colour	Waste Management
During Construction			
Concrete	Construction and Demolition (C&D)	TBA	Crushed for Road base
Metal	(C&D)	TBA	Scrap Metal Dealer
Aluminium Offcuts	(C&D)	TBA	Scrap Metal Dealer
Hebel blocks	(C&D)	TBA	Crushed for Road base
Timber off-cuts	(C&D)	TBA	Recycled for mulch
Cardboard	(C&D)	TBA	Recycled into cardboard
Plasterboard Offcuts	(C&D)	TBA	Recycled as soil conditioner
Floor Covering	(C&D)	TBA	Transferred to licenced landfill
Packaging	(C&D)	TBA	Styrene and plastic to landfill
Pallets	(C&D)	TBA	Returned to the supplier
Insulation offcuts	(C&D)	TBA	Transferred to licenced landfill
Ceiling Tiles	(C&D)	TBA	Returned to the supplier
General Waste	(C&D)		Transferred to licenced landfill

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Waste Type	EPA Classification	Bin Colour	Waste Management
During Operation			
Paper including all types of recyclable paper but excluding paper towels, toilet paper & tissues	General solid waste (non-putrescible)	Blue	Paper recycling
Cardboard, excluding waxed cardboard		Blue	Cardboard recycling
Metals (steel, aluminium, stainless)		Yellow	Co-mingled recycling, specific recycling or general waste
Plastics (recyclables)		Yellow	Co-mingled recycling
Plastics (non-recyclables)		Red	General waste
Soft Plastic		Any Colour	Plastic recycling
Glass including bottles and containers		Yellow	Co-mingled recycling
General refuse		Red	General waste
Plastic bottles and containers		White	Container Deposit Scheme
Food scraps	General solid waste (putrescible)	Lime Green	Compost
Organic material		Red	General waste
Lead-acid or nickel-cadmium batteries, e-waste	Potentially hazardous waste	NA	Specific recycling

Designers must refer to EFSG - AS 4123.7 for colours, markings, and designation requirements for further guidance on bin colour, waste stream and waste type.

Table 6. AS 4123.7 Waste Storage Requirements

Bin Colour	Waste Stream	Waste type
Lime Green	Organics	Food Organics and Garden Organics
Yellow	Recycling	Comingled containers
Blue	Recycling	Paper & cardboard
White	Recycling	Container Deposit Scheme
Any color	Recycling	Soft Plastic
Red	General	General waste

6.2 ESTIMATE OF QUANTITIES

The generation rates directed by Parramatta City Council Development Control Plan have been adopted to form the basis of the following operational waste estimates. The following guidance documents have also been referenced as per this direction:

- NSW EPA's Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities 2012 (NSW EPA, 2012)

To derive indicative quantities of waste, the following guideline values have been used:

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Table 7 - Waste Generation Rates from (NSW EPA, 2012)

Premises Type	Waste Guideline Equivalent	Material Type	Guideline Value per 100m2 per day
Tertiary schooling	Tertiary education	Waste	25
		Recycling	3

To derive indicative quantities of waste, the following assumptions have been applied:

- The occupancy rate = 5 days per week
- Number of additional students proposed = 870 (currently 450 – expected to raise to 1320)
- Reference was made to the existing school plus PHHS

Finding from current PHHS School

- Number of students = 450 students
- The school has a canteen
- There is a staff kitchen (domestic type)
- Small bins used throughout the school to collect waste
- Caretaker collects this waste on a regular basis (e.g. daily) and transports it in 240 litre bins to the waste bins located at the waste pad.

Recommendations

- Main general waste = 3 x 4,500 litre bins
- Cardboard and paper recycling = 3x 4,500 cubic meter bin collected 1x/ week
- Organic waste = Provide a composting facility
- Container Deposit Scheme to removed bottles and cans

NOTE: This report is part of the development application process. The final sizing of waste stores and frequency of waste collection will be made once final agreements are in place.

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7 WASTE STORAGE PAD

7.1 STORAGE AREA SIZE ESTIMATES

Areas for storage and collection of the applicable waste streams will be provided and collected from adjacent to Building A. The storage areas will be sized to accommodate all bins or containers, for all applicable waste streams, for at least one collection cycle. The calculations used to determine the area can be found in Table 6.

Table 8 - Waste Pad Storage Area - Estimated Requirements

Waste Stream	Clearance Frequency	No of Bins per clearance cycle	Bin Type	Each Bin Footprint m ²	Total Footprint m ²
<i>Garbage Waste</i>	Weekly	3	4500L	4.5	13.5
<i>Co-mingled Recycling</i>	Weekly	3	4500L	4.5	13.5
Total bin footprint					27
Bulky Waste Area					4
Bin wash bay					NA
Minimum suggested room size - including circulation space					31

7.2 WASTE STORAGE AREA

The Waste Storage Pad will be located adjacent to building A and suitably screened from view. One waste storage pad is proposed to be placed as shown in Appendix A. The size of the waste storage area required is summarised in Table 6.

7.3 WASTE FACILITIES CONSTRUCTION / MAINTENANCE

Responsibility for cleaning of waste storage areas and service compartments will be designated to the cleaning staff. The basic requirements for waste handling facilities are as follows:

- To be of adequate size
- Integrated with building design and site landscaping.
- Suitably screened from public areas.
- With appropriate access for collection.
- Assurance that OH&S requirements for waste contractors are met.

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8 WASTE MANAGEMENT

8.1 WASTE STORAGE SYSTEMS

It is anticipated that mobile garbage bins (MGBs) will be utilised within the school and a combination of MGBs suitable to use for waste streams and separation will be used .

Small quantities of hazardous wastes may be generated (e.g. light bulbs, E-waste, batteries, oil, chemicals or paint). Separate containers for the safe storage of these wastes in the waste storage area in the school will be provided where applicable, prior to removal offsite by an appropriately licensed contractor for recycling or disposal at a licensed facility.

8.2 WASTE MOVEMENT

It is anticipated that staff, students and visitors will place general waste and recycling into small waste and recycling bins (paper and co-mingled) located in the offices, canteen, classrooms and open space playground. These small waste bins should be segregated as per the final waste streams. Waste will be then transported by cleaning contractors via the nominated egress corridors to the waste storage pad and placed in the correct waste stream bins. Where waste is required to be transported from Level 1 and 2 to the ground floor, this will be undertaken via the use of lifts within each building. Prior to collection.

- Bins will be clearly labelled using colour coding according to AS4123.7-2006 Mobile Waste Containers;
- General waste and recyclable waste will be collected in separate bins collected by separate trucks at separate times/ days;
- The path from the units to waste storage pad will be level for easy transfer of waste and recycling;
- Path of travel from the waste storage area to the truck has no steps or kerbs, has a maximum transfer distance of 75 meters and a maximum gradient ratio of 1:14;
- Bins will be kept clean and in good condition;
- Any damaged, lidless, wheel-less, split or incomplete bins will be repaired or disposed of after being replaced;
- Appropriate personal protective equipment (PPE) will be provided for all people handling waste or bins.
- The waste storage pad is level
- The path of travel from the waste storage pad to the truck is level.

8.3 WASTE COLLECTION POINT

The area adjacent to Building A has been nominated as the waste collection point. The appointed waste contractors will collect each waste stream from the loading bay at nominated times in accordance with the relevant waste contract. The collection area is sufficiently sized in order to accommodate waste contractor vehicles in accordance with the specifications in the *Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities (EPA 2012)*. The nominated waste collection point is within the boundary of the site and not within a public place. Access to be designed to suit the collection truck – to be verified by the traffic consultant.

8.4 VEHICLE MOVEMENTS

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The area adjacent Building A has been nominated as the path of access to be used by waste collection vehicles., access will be from Cornock Ave.

Waste collection vehicles shall enter and exit the site in such a manner as to minimise risk of damage to the roadway, footpath or services under the ground. Waste collection vehicles will not obstruct access to adjacent premises, roadways or the footpath. In addition, waste collection will be carried out with due care for public safety including other road users, cyclists and pedestrians.

8.5 COLLECTION HOURS

The waste collection truck will schedule collection out of school hours to reduce any risk from the truck and bin movements to the school children. The collection of waste and/or any recycling activity must only occur before 8 am and after 4 pm on school days and undertake to minimize noise disturbance to the students.

8.6 CONTRACTORS

A contract with a licensed waste contractor for the removal of all waste, will be arranged prior to an occupation certificate or commencement of use (earlier of the two). The contract should also include provisions for the collection of Hazardous Waste.

Upon engagement, written evidence of a valid and current contract with a licensed collector for waste and recycling collection will be provided to the client. The contract will include details on the method, timing and disposal of waste. Commercial waste service collections and waste storage arrangements will be conducted in accordance with the Parramatta City Council's Waste Policy.

8.7 SEGREGATING WASTE

Waste will be segregated into separate streams, including paper and cardboard, collection of bottles and cans through a container deposit scheme and 'general' waste. Effective segregation is best achieved through:

- Education and training to all staff, visitors and students who generate waste;
- Ensuring identifiable colour coding and labelling of bins for each waste streams is implemented and maintained;
- Ordering and provision of suitable containers at appropriate locations;
- Incorporation of quick and efficient waste disposal methods into staff areas; and
- Ensuring all waste can be easily, safely and correctly segregated at the point of generation.

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9 ONGOING MANAGEMENT

This OWMP forms the basis of operational waste management on site for the School. It is living document which will be reviewed and revised to provide increased accuracy of waste generation estimates and to ensure appropriate onsite waste management in accordance with current and future waste management regulations.

Compliance by the administrative manager, staff, cleaning contractors and waste collection contractor is essential to ensure the efficacy of the system.

9.1 SIGNAGE

Signage will be provided in all waste disposal, storage and collection areas demonstrating how to use the waste management system, including what materials are acceptable in each bin. All waste streams will be stored in clearly labelled; colour coded bins as appropriate to ensure that waste streams are not inadvertently mixed. Signage will be prepared and located on site in accordance with the Australian Standard (AS 1319) for safety signs, and the NSW EPA and Australian Standard for recycling signage. Examples of signage are shown in Appendix B.

9.2 EDUCATION & TRAINING

Build a strong culture of waste reduction and recycling through regular waste management updates at assemblies, student gatherings, P&C meetings, staff inductions and meetings. Communicate waste goals, targets and performance indicators clearly to all stakeholders in your school and keep everyone up to date with the progress and achievements.

9.3 ROLES & RESPONSIBILITIES

It is expected that all personnel will commit to the OWMP and be responsible for their own actions in adhering to the waste management objectives.

An Administrative Manager will be the key person responsible for implementation of the OWMP and adherence to applicable legislation, guidelines, licensing and project conditions. The Administrative Manager will also be responsible for maintenance of the cleaning infrastructure such as the service doors, locks, lighting, signage, colour coding and repair/replacement of MGBs.

Cleaning contractors will be responsible for the transfer of waste to the MGBs and the transfer of the MGBs to the waste collection point. In addition, the cleaning contractor will be responsible for cleaning of the waste storage areas.

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Table 9 - Roles and Responsibilities

Responsibility	Activity	Monitoring
Administrative Manager	<ul style="list-style-type: none"> Ensuring staff (and students) are inducted into the OWMP and other applicable management plans. Responsible for undertaking procurement of operational materials in accordance with the waste management hierarchy. Segregation of waste streams where required to ensure appropriate use, treatment and/or disposal. Compliance with applicable environmental legislation and project conditions. Ensure environmental management plan(s) across the site are adhered to and accurate to site conditions. Undertake inspections to ensure compliance. Maintenance of waste-related signage, colour coding and MGBs. Security of waste storage pad area during day-to-day business. Ensure no waste is placed on the public way. 	Monitor contract and cleaners for compliance to the Waste Management Plan.
Cleaners Removing Material	<ul style="list-style-type: none"> Responsible for acting in accordance with the OWMP. Transfer of waste within the school. Transfer of MGBs to the nominated waste storage pad and return of MGBs to waste school areas. Clean areas around waste storage pad. Ensure no waste is placed on the public way. . 	Ensure there is no contamination in co-mingled bins.
Staff	<ul style="list-style-type: none"> Adherence to the OWMP. Placement of waste/recycling within correct bins. Notify manager/cleaning contractor when bins are overfull and require transport to the MGBs. Informing the Administrative Manager of any waste management incidences. 	Ensure there is no contamination in co-mingled bins.
Waste Contractors	<ul style="list-style-type: none"> Acknowledge and comply with waste targets Use reasonable endeavours to assist reaching the waste targets. Provide feedback on actual volumes of waste and recycling collected to enable waste volume evaluation by Administrative Manager. 	Quantify the amount and types of waste in accordance and monitor, report and address contamination through regular monitoring/bin inspections.
Students	<ul style="list-style-type: none"> Responsible use of waste facilities and appropriate disposal of waste 	

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9.4 WASTE HIERARCHY

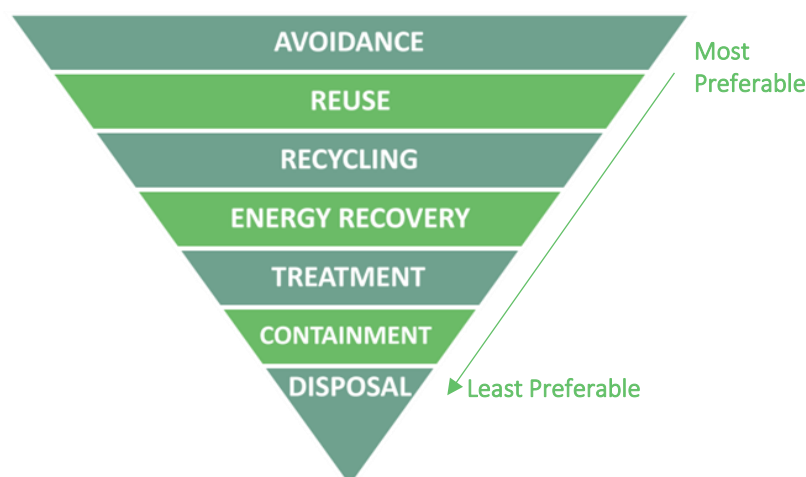


Figure 2 – Order of the Waste Hierarchy

Table 10 indicates waste management practices that should be adopted in accordance with the Waste Avoidance and Resource Recovery Act 2001 (NSW EPA, 2014).

Table 10 Implementing the Waste Hierarchy

Implementing the Waste Hierarchy
Avoid / Reduce
Reduce general waste at the source, determine changes in returnable delivery systems including packaging and purchasing.
Require suppliers to use stackable/ returnable/reusable boxes instead of disposable cardboard boxes.
Focus on minimising waste (i.e. excess packaging, take-back, post use collection).
Examining all processes to determine where wastes are produced and to devise measures for waste prevention or reduction
Devising ways of reducing waste with students so they too can share in the savings (i.e rewards for students who reduce waste)
Partnering with others to assist with waste minimisation.
Keeping track of changes and improvement.
Reuse
Set up a reuse area for excess materials and promote the contribution and reuse of excess food.
Donate old (useable) computer/electrical equipment, furniture and fittings to staff, charities, or sell at auction.
Implement the Enviro Bank program for bottles and cans.
Reusing drums, cartridges and containers where possible.
Selling or donating usable waste materials to other organisations.
Recycle
Introduce recycling systems for major waste streams generated onsite including: <ul style="list-style-type: none"> Paper and cardboard, Bottles and cans, Packaging and plastics.

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Modify or refresh signage on recycling bins or in recycling areas to promote correct recycling practice.
Provide regular information and education to staff on appropriate usage and recycling bins.
Investigating alternative uses for organic waste that cannot be reduced or reused (i.e. composting, bio-gas from waste, digester, etc)
Provision for a bin station at a central location in school with the option of source separation and clear waste signage to ensure source separation
Explore opportunities for recycling waste types not included in the mandatory stream separation (i.e. batteries, coffee cups, e-waste, etc
Waste Disposal
Students, staff and cleaners dispose of waste in accordance with the Waste Management Policy.
Monitoring and assessment
Request waste contractor to provide monthly data and reporting on recycled and materials sent to landfill.

10 REVIEW PROCESS

Pendle Hills High School Management will undertake a review of the Operational Waste Management Plan including the following indices:

Waste Management Contract
One site Signage
Waste Contractor Performance
Data on Recycling Rates
Waste Contractor Licences
On site Waste and Recycling systems
Use of onsite recycling systems

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11 LIMITATIONS

This report documents an Operational Waste Management Plan (OWMP) as part of a redevelopment plan with the following limitations:

- Estimates and details contained in this waste management plan have been prepared by analysing the information, plans and documents supplied by the client, and third parties including Council and government information;
- The figures presented in the report are an estimate only – the actual amount of waste generated will be dependent on the occupancy rate and waste generation intensity as well as the approach to educating guests, staff and students regarding waste management operations and responsibilities;
- The School Administrative Manager will make adjustments as required based on actual waste volumes (if waste is greater than estimated) and increase the number of bins and collections accordingly;
- The report will not be used to determine or forecast operational costs or prepare any feasibility study or to document any safety or operational procedures;
- The report has been prepared with all due care however no assurance or representation is made that the OWMP reflects the actual outcome and EcCell will not be liable for plans or outcomes that are not suitable for the purpose of the project, whether as a result of incorrect or unsuitable information or otherwise;
- EcCell offer no warranty or representation of accuracy or reliability of the OWMP unless specifically stated;

PENDLE HILL HIGH SCHOOL OPERATIONAL WASTE MANAGEMENT PLAN

APPENDIX A – PROPOSED WASTE STORAGE AREA AND TRAFFIC FLOW



PENDLE HILL HIGH SCHOOL OPERATIONAL WASTE MANAGEMENT PLAN

APPENDIX B – EXAMPLES OF APPROPRIATE WASTE SIGNAGE

