

DICKENS SOLUTIONS

(REF – 21038)

AMENDED **WASTE MANAGEMENT PLAN** **(R2)**

SCHOOL INFRASTRUCTURE NSW

SYDNEY OLYMPIC PARK **NEW HIGH SCHOOL** **@** **7-11 BURROWAY ROAD** **WENTWORTH POINT**

MARCH 2022

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PART 1 – OVERVIEW AND PROPOSAL

1.1 INTRODUCTION

This Waste Management Plan (WMP) is an operational plan that describes in detail the manner in which all waste and other materials resulting from the excavation, construction and on-going use of the building on the site are to be dealt with.

The aims and objectives of this WMP are to: -

- a) Satisfy all State and Local Government regulatory controls regarding waste management and minimisation practices;
- b) Promote the use of recyclable materials in the excavation, demolition, construction and on-going operation of the building;
- c) Maximise waste reduction, material separation, and resource recovery in all stages of the development; and,
- d) Ensure the design of waste and recycling storage facilities are of an adequate size, appropriate for the intended use of the building, hygienic with safe and manoeuvrable access, and that services are provided efficiently and effectively.

This WMP is prepared in accordance with: -

- NSW Dept of Planning and Environment's Critical State Significant Infrastructure Standard Secretary's Environmental Assessment Requirements (SEAR'S);
- NSW Government Design Guide for Schools;
- NSW Dept of Education's Education Facilities Standard Guidelines;
- Parramatta City LEP;
- Parramatta City DCP;
- Waste Classification Guidelines (EPA 2014);
- All conditions of the development consent to be issued under the approved Complying Development Consent;
- The relevant requirements of the 'Better Practice Guide for Waste Management'; and,
- The objective of ensuring that all waste management facilities and collection services will provide an outcome that will be effective and efficient, as well as promote the principles of health, safety and convenience.

This Waste Management Plan (WMP) – Revision 3 and has been prepared for a state significant development application to be assessed under the relevant provisions of the NSW Dept of Planning and Environment's Critical State Significant Infrastructure Standard Secretary's Environmental Assessment Requirements (SEAR'S), for the development of land at Part Lots 202 and 203, DP 1216628, 7-11 Burroway Road, Wentworth Point.

In relation to the long-term waste collection arrangements, this WMP provides all the detail necessary to cover all waste management storage and collection issues. However, it is understood that the road to be constructed from Burroway Road to the proposed waste areas, may not be completed when the school commences its operation. As such interim arrangements will need to be made to cater for waste management operations until the road has been constructed and becomes operational. The details of these interim arrangements are provided in Part 4.8 on pages 17 and 18.

This WMP is dated 24 March 2022 and has been revised to address interim arrangements for the storage and collection of waste and recycling material, pending the completion of all buildings, roadworks and the full population of the school.

1.2 PROPOSAL

The proposed development is for the construction of a school whereby the project is known as Sydney Olympic Park new high school. The school is to be constructed in a single stage and occupied in two stages. The SSD application seeks consent for both Stage 1 and Stage 2.

Stage 1 will provide for a Stream 5 high school catering for up to 850 students. Stage 2 will bring the school up to a Stream 9 school capability catering for up to 1,530 students.

The design features a main six-storey building as well as a hall building for sports and performance.

The play space required to meet the needs of Stage 1 can be generally accommodated on site within the 9,511sqm available. In order for Stage 2 to commence operation, additional play space is required to accommodate the increased student numbers. This additional play space will be provided by a future playing field to the north, which will be subject to a Joint Use Arrangement and available for public use outside school hours.

The remainder of the peninsula (TfNSW land) is under review and will be subject to a separate approval process. Redevelopment of this land will include a new access road off Burroway Road along the eastern boundary of the subject site, which will feature car parking, drop-off zones and waste zones for the school. Commencement of Stage 2 is reliant upon delivery of this road.

1.3 SITE DESCRIPTION

The proposed development is located within the peninsula of Wentworth Point at 7-11 Burroway Road, Wentworth Point, legally known as Lot 1 DP1276305. The site forms part of the Wentworth Point Planned Precinct, which was rezoned in 2014 for the purposes of high density residential, public recreation, school and business purposes.

The site is approximately 9,511sqm in area, with a frontage of approximately 91m to Burroway Road. It currently contains vacant land, which is cleared of all past development, and almost entirely cleared of native vegetation.

The surrounding area is generally characterised by high rise residential and mixed-use developments. The site is directly adjacent to the Wentworth Point Peninsula Park and immediately east of Wentworth Point Public School.



Figure 1 Site Aerial Map

Source: Mecone

PART 2 – DEMOLITION

2.1 DEMOLITION

The land upon which the development is proposed is vacant. As such there is no demolition component to this WMP. All issues relating to the excavation of the site will be dealt with under Part 3 of this document.

PART 3 – CONSTRUCTION

3.1 CONSTRUCTION – GENERALLY

Upon completion of the excavation of the site, the construction of all school buildings and associated structures will commence.

All materials sourced from these activities will be disposed of in accordance with the information provided in Part 3.2 on pages 7, 8, 9, 10, 11 and 12 of this WMP.

Additionally, all materials used in the construction of the building that are not required to be incorporated into it, shall be recycled, reused or disposed of in accordance with these provisions, and the requirements of the Protection of the Environment Operations Act (1997).

It will be the responsibility of the appointed contractor to ensure compliance in this regard.

Mobile Bins of an appropriate size will be located on site for the collection of food scraps, beverage containers, and other waste generated on site by workers.

3.2 CONSTRUCTION – RECYCLING, REUSE & DISPOSAL DETAILS

The following details prescribe the manner in which all materials surplus to the construction of the building will be dealt with, and includes: -

- a) An estimate of the types and volumes of waste and recyclables to be generated;
- b) A site plan showing sorting and storage areas for construction waste and vehicle access to these areas (see Part 3.3 of this Plan);
- c) How excavated and other materials surplus to construction will be reused or recycled and where residual wastes will be disposed (see below); and,
- d) The total percentage of construction waste that will be reused or recycled.

1. Excavated Materials

Volume / Weight	3,000 cubic metres / 5,100 Tonnes
On Site Reuse	Yes. Keep and reuse topsoil for landscaping. Shore on site. Use some for support of retaining walls (Excavated Materials are only to be used if the material is not contaminated or has been remediated in accordance with any requirements specified by any Environmental Consultancy engaged to carry out any contamination assessment of excavated material).
Percentage Reused or Recycled	To be determined (see above comments)
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

2. Bricks

Volume / Weight	10 cubic metres / 10 Tonnes
On Site Reuse	Clean and remove lime mortar from bricks. Re-use in new footings. Broken bricks for internal walls. Crush and reuse as drainage backfill. Crushed and used as aggregate.
Percentage Reused or Recycle	75% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

3. Concrete

Volume / Weight	10 cubic metres / 24 Tonnes
On Site Reuse	Existing driveway to be retained during construction. Crushed and used as aggregate, drainage backfill.
Percentage Reused or Recycled	60% - 75%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

4. Timber

Volume / Weight	5 cubic metres / 7 Tonnes
On Site Reuse	Re-use for formwork and studwork, and for landscaping
Percentage Reused or Recycled	65% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

5. Plasterboard & Fibro

Volume / Weight	5 cubic metres / 3 Tonnes
On Site Reuse	Nil – all material to be processed off-site.
Percentage Reused or Recycled	To be determined
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

6. Metals / Steel / Guttering & Downpipes

Volume / Weight	6 cubic metres / 1.5 Tonnes
On Site Reuse	No
Percentage Reused or Recycled	60 – 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

7. Roof Tiles / Tiles

Volume / Weight	4 cubic metres / 3 Tonnes
On Site Reuse	Broken up and used as fill.
Percentage Reused or Recycled	80% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

8. Plastics

Volume / Weight	5 cubic metres / 1 Tonne
On Site Reuse	Nil
Percentage Reused or Recycled	80% - 95%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

9. Glass, Electrical & Light Fittings, PC items

Volume / Weight	3 cubic metres / 2 Tonne
On Site Reuse	No
Percentage Reused or Recycled	70% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

10. Fixture & Fittings (Doors Fittings, Other Fixtures, etc.)

Volume	3 cubic metres / 1 Tonne
On Site Reuse	Broken up and used as fill.
Percentage Reused or Recycle	80% - 90%
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646).

11. Pallets

Volume / Weight	5 cubic metres / 2.5 Tonne
On Site Reuse	No
Percentage Reused or Recycle	90% - 100%
Off Site Destination	To an approved agency, or agencies, for reuse and resale.

12. Residual Waste

Volume / Weight	350 cubic metres / 350 Tonnes
On Site Reuse	No
Off Site Destination	Suez Eastern Creel Resource Recovery Park, Wallgrove Road, Eastern Creek. Tel 8887 6112 or, Jacks Gully Waste Management Centre, Richardson Road, Narellan (Tel 1300 651 116) or, Bingo Industries, 3-5 Duck Street, Auburn (Tel 1300 424 646), or, other authorised facility
Notes on calculation of volume of residual waste	<ol style="list-style-type: none">1. In calculating the amount of residual waste produced from the demolition of all buildings on site, it is estimated that approximately 10% of it, will be residual waste.2. As all of the materials vary in weight per volume, a figure of 1 cubic metre of material is equal to 1 tonne in weight has been used.

It is noted that the quantities of materials detailed in this section (Part 3.2) are estimates only, based on current industry standards and quantity analysis, and may vary due to the prevailing nature of construction constraints, weather conditions, and any other unforeseeable activities associated with the construction of the building, which are beyond the control of the developer, including but not being limited to theft, accidents, and other acts of misadventure.

The facilities and agencies that have been nominated to receive the materials listed above have been identified within the NSW waste industry as being a facility or agency that will accept the materials specified in each respective table. The developer understands that any costs associated with the transportation and receipt of these materials will be their responsibility.

The appointed contractor is under no obligation to use any nominated facility or agency, but should any alternative arrangements be made, it will be the developers' responsibility to ensure that all demolished materials removed from the site are disposed of, or processed, appropriately.

The developer will keep a written record of all documentation associated with the transportation, disposal and processing of all materials excess to the construction of the building.

Additionally, during the construction of the building, every effort will be made to reduce and minimise the amount of building materials excess to construction.

3.3 CONSTRUCTION – ON SITE STORAGE OF MATERIALS

During the construction of the buildings, an area will be set aside on the site as a compound for the on-site storage of materials prior to their removal from the site. This compound will provide for: -

- Material sorting;
- Segregation of materials that may be hazardous and which will be required to be disposed of;
- Recovery equipment, such as concrete crushers, chippers, and skip bins;
- Material storage; and,
- Access for transport equipment.

Appropriate vehicular access will be provided on and off site, and to the compound, to enable the efficient removal of reusable, recyclables, and waste materials.

Prior to the commencement of construction works, the developer will provide Council with a 'Site Plan for the On-Site Storage of Materials at Construction'. This plan will show in detail the location of each area within the compound, set aside for the segregated storage of all materials involved in the demolition of all buildings on the site.

3.4 CONSTRUCTION – EXCAVATED MATERIAL

All excavated material removed from the site, as a result of any activities associated with the construction of the building, must be classified in accordance with the Department of Environment, Climate Change and Water NSW Waste Classification Guidelines prior to removal, transportation and disposal to an approved waste management facility.

All relevant details must be reported to the PCA.

PART 4 – ON GOING USE OF SITE

4.1 OBJECTIVES

1. To ensure that the storage, amenity, and management of waste is sufficient to meet the needs of the development.
2. To ensure that all waste management activities are carried out effectively and efficiently, and in a manner, that will promote the principles of health, safety and, convenience.
3. To promote waste minimisation practices.

4.2 ASSUMPTIONS

In preparing this Plan, the following assumptions have been made: -

1. The proposed development involves the establishment of a secondary school facility.
2. The project will be constructed in a single stage and occupied in two (2) stages:
 - a) Stage 1 provides for a Stream 5 school catering for up to 850 students, and,
 - b) Stage 2 brings the school up to Stream 9 with a total of 1,530 students.
3. Appropriate waste management facilities will be incorporated into the development for all activities associated with the generation, storage, collection and transportation of all waste, recycling and green waste material resulting from all school and associated functions.
4. Dedicated waste and recycling storage areas will be provided within the site as indicated on the Architectural Drawings.
5. All waste and recycling bins required for the on-going operation of the development will be stored within the confines of the Waste Storage Areas (WSA's) at all times.
6. The WSA's are located within a specially built compound that is conveniently designed and located to accommodate the required number of bins and associated infrastructure.
7. Parramatta Council's waste management policies does not provide data on waste and recycling generation rates for schools.
8. All waste and recycling generation rates have been calculated from information provided by the school based on data from similar education establishments in the Sydney Region.
9. All waste will be stored in 7 x 1100-litre mobile bins.
10. All recycling material will be stored in 4 x 1100-litre mobile bins.
11. Waste Services will be provided at least two (2) days per week.
12. Recycling services will be provided at least two (2) days per week.
13. A licensed private waste and recycling collection service provider contracted by the school will provide all waste and recycling services to the development.
14. The waste and recycling service provider will be appointed prior to the issue of an Occupation Certificate.
15. If the waste and recycling material generated from the use exceeds the waste generation rates specified in this WMP, the frequency of collections may need to be increased.
16. Any increase in the frequency of collections will be determined by the School in consultation with the appointed contractor and an approved waste management consultant.

17. It is understood that the road to be constructed from Burroway Road to the proposed waste areas, may not be completed when the school commences its operation. As such interim arrangements will need to be made to cater for waste management operations until the road has been constructed and becomes operational. The details of these interim arrangements are provided in Part 4.8 on page 18.
18. Some spaces along Burroway Road immediately adjacent to the school will be dedicated as a loading zone during designated times (e.g., 5am-8am, 9:30am-2:30pm and 4pm-6pm) for deliveries and waste collection.
19. These are temporary arrangements that will be reviewed once the Proposed Road and Stage 2 school are complete.
20. All waste and recycling collections will take place from a Loading Bay adjacent to the WSA, where bins will be presented for collection by the appointed contractor.
21. The School shall appoint a Site Manager or Caretaker whose responsibilities are to including ensuring that all waste management activities are carried out in accordance with this WMP.

4.3 WASTE HANDLING & MANAGEMENT

Appropriate waste and recycling receptacles will be located in classrooms, learning areas, indoor and outdoor assembly areas, sporting fields, passive outdoor areas, and other locations. In this regard it is recommended that a minimum of 10 x 240-litre red lidded waste bins and 10 x 240-litre yellow lidded recycling bins be provided at strategic location throughout the school area for this purpose.

All waste and recycling materials shall be removed from these receptacles by the Caretaker, their representatives, or relevant school staff and transferred to the waste and recycling bins provided in the Schools' Waste Storage Area for storage prior to collection. This activity is to take place at least daily.

The material from the 240-litre waste and recycling bins will need to be decanted into the larger 1100-litre bins for servicing. This activity will be undertaken by the Site Manager / Caretaker.

All waste is to be placed in appropriate waste bins provided by the school. Similarly, all recyclable material is to be placed in appropriate recycling bins provided by the school.

Appropriate signage will be erected in prominent places within the school to assist employees and students to ensure that all waste and recyclable material is placed into the appropriate bins. It is also recommended that waste management initiatives such as composting, worm farms and other appropriate education tools and systems be provided as a learning mechanisms to educate students on the principles of waste minimisation and management.

4.4 WASTE & RECYCLING – SERVICE REQUIREMENTS

For the purposes of waste and recycling management the School is classified a commercial enterprise, and as such the provision of residential waste and recycling services to the development do not apply. Accordingly, commercial waste and recycling services will be provided to the School.

All waste and recycling materials will be stored in approved receptacles of an appropriate size as specified in this WMP. The lids of the bins shall be closed at all times to reduce litter, stormwater pollution, odour, and vermin.

4.5 GREEN WASTE & COMPOSTING FACILITIES

No formal green waste service will be provided to the school. All green waste will be disposed of privately by a contractor to be appointed by the School.

Additionally, the School will arrange for the provision of composting facilities, located in an appropriate area or areas, where suitable organic matter can be disposed of and, or processed into reusable compost material. It will be the responsibility of the School to ensure that all green waste is removed in an appropriate manner.

4.6 WASTE & RECYCLING GENERATION RATES

Parramatta Council's waste management policies does not provide data on waste and recycling generation rates for schools. All waste and recycling generation rates have been calculated from information provided by the school based on data from similar education establishments in the Sydney Region.

The number and size of bins have been calculated using this formula, which is summarised in the following table (Table 1). The population of the school will be a maximum student level of 2,520.

TABLE 1 – FORMULA FOR CALCULATION WASTE & RECYCLING GENERATION RATES FOR SECONDARY SCHOOLS

SERVICE	WASTE & RECYCLING GENERATION RATES
Waste	2 litres of waste per student per day (2 litres x 1,530 students x 5 days)
Recycling	1 litre of recyclable material per student per day (1 litre x 2,530 students x 5 days)

The following table (Table 2) specifies the criteria for waste and recycling generation rates based on the above formula.

**TABLE 2 – WASTE & RECYCLING GENERATION RATES
&
SERVICE REQUIREMENTS**

SERVICE TYPE	WASTE GENERATION RATES Litres of Space / Students / Day			TOTAL SPACE REQUIRED	BIN SIZE Litres	SERVICES PER WEEK	BINS REQUIRED	BINS PROVIDED
	Litres	Students	Days					
Waste	2	1,530	5	15,300	1100	2	6.96	7
Recycling	1	1,530	5	7,650	1100	2	3.48	4

The following table (Table 3) specifies the proposed bin servicing arrangements for the development and is based on the above waste and recycling generation rates: -

TABLE 3 – PROPOSED SERVICING ARRANGEMENTS

WASTE	RECYCLING
7 x 1100-litre bins Two (2) Services per Week	4 x 1100-litre bin Two (2) Services per Week

4.7 PROVISION OF WASTE & RECYCLING SERVICES

4.7.1 Waste and Recycling Collection Service Provider Details

All waste services and recycling services will be provided by a licensed private waste and recycling collection contractor.

The School will enter into a Service Level Agreement with the contractor in relation to the provision of both waste and recycling services to the development, and the manner in which they will be provided.

4.7.2 Details of Mobile Containers

In relation to the size and design of the waste and recycling mobile bins, the following technical information is provided: -

CONTAINER TYPE	HEIGHT (metres)	DEPTH (metres)	WIDTH (metres)
240-litre mobile container	1.070	0.750	0.685
1100-litre mobile container	1.470	1.070	1.240

4.7.3 Waste & Recycling Requirements

Waste and recycling requirements are provided in the table below.

SERVICE	NUMBER OF CONTAINERS	COLLECTION FREQUENCY
Waste Service	7 x 1100-litre mobile containers	Two (2) Services per Week
Recycling Service	4 x 1100-litre mobile containers	Two (2) Services per Week

4.7.4 Location, Design, and Construction of Waste Storage Area

A Waste Storage Area (WSA) is provided to facilitate all waste and recycling storage and collection activities. The WSA will be located as indicated on the Site Plan.

All mobile waste and recycling bins required for the on-going operation of the development will be stored within the confines of this WSA at all times.

The WSA measures 15.0m x 9.5m, with an area of approximately 142.5sqm and is designed to accommodate:

- 7 x 1100-litre mobile waste bins,
- 7 x 1100-litre mobile recycling bins,
- 10 x 240-litre mobile waste bins,
- 10 x 240-litre mobile recycling bins,
- The bin decanting device,
- Composting and green waste facilities, and,
- Appropriate infrastructure.

In assessing the size and design of the WSA it is considered that it is of a sufficient size and dimension to adequately house, store, and manoeuvre (for collection and return) all of the required number of bins.

An area adjacent to the WSA is provided to facilitate the school's environmental initiatives in composting.

4.7.5 Collection Area

All waste and recycling services will be carried out from a dedicated waste collection area in the form of a Loading Bay, which will be designed to accommodate a rear loading HRV.

4.7.6 Servicing Arrangements – Waste Collections

Until such time that a dedicated waste collection zone can be established when the proposed road and Stage 2 have been completed, the Site Manager or their authorised representative will manually transport waste bins to an allocated loading zone on Burroway Road.

All permanent waste collections will take place from a collection zone located adjacent to the vicinity of the WSA, where the bins will be presented for collection by the contractor into a waiting collection vehicle stationed in the Loading Bay directly in front of the WSA.

The waste bin will be serviced two (2) days per week, on days to be determined by the School and the appointed contractor.

All 7 x 1100-litre mobile waste bins will be serviced on each collection day.

All waste bins will be returned to the WSA as soon as they have been serviced.

4.7.6 Servicing Arrangements – Recycling Collections

Until such time that a dedicated waste collection zone can be established when the proposed road and Stage 2 have been completed, the Site Manager or their authorised representative will manually transport waste bins to an allocated loading zone on Burroway Road.

All permanent recycling collections will take place from a collection zone located adjacent to the WSA, where the bins will be presented for collection by the contractor into a waiting collection vehicle stationed in the Loading Zone directly in front of the WSA.

The recycling bins will be serviced two (2) days per week, on a day to be determined by the School and the appointed contractor.

All 4 x 1100-litre mobile recycling bins will be serviced on each collection day.

All recycling bins will be returned to the WSA as soon as they have been serviced.

4.8 INTERIM SERVICING ARRANGEMENTS

It is understood that the road to be constructed from Burroway Road to the proposed waste areas, may not be completed when the school commences its operation. As such interim arrangements will need to be made to cater for waste management operations until the road has been constructed and becomes operational.

The Waste Storage Area (WSA) will remain in its permanent location as detailed in the Architectural Drawings.

All services will be provided from the Burroway Road kerbside, adjacent to the site's frontage, where the bins will be serviced by the contractor.

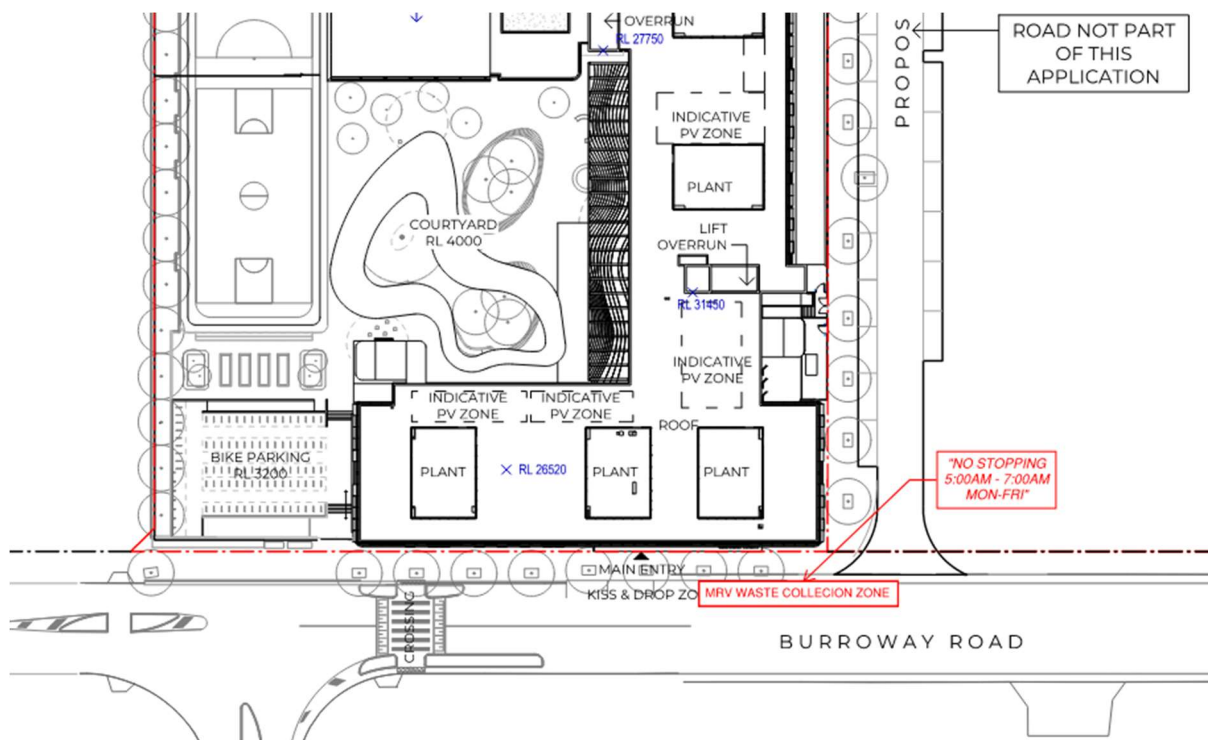
Bins will be presented to the kerbside on the evening prior collection, no earlier than 4.00pm.

Bins will be removed the WSA by the Site Manager/Caretaker using a Mobile Bin Towing Device of an approved type. Upon completion of servicing all bins will be returned to the WSA.

It is anticipated that services will be provided using a rear loading MVR waste collection vehicle stationed at the kerbside adjacent to the intersection of the front and side boundaries of the site. It is also recommended that collections take place between the hours of 5.00am and 7.00am, when the school is not occupied and pedestrian and vehicular activity is at its lowest. This will ensure that any impact on the amenity of the area will be negligible.

It is also considered that a No-Stopping sign be erected in the zone of the collection area reading 'No Stopping between 5.00am and 7.00am Weekdays'. This will aim to ensure that access to the area is available at all times and will also have minimal impact on traffic movement.

As collections for both waste and recycling streams will be conducted two (2) days per week, it is recommended that waste and recycling collections be carried out on separate days.



Waste collections will be provided on Monday and Thursday of each week, where a maximum of 7 x 1100-litre mobile waste bins will be presented for collection. If the bins are presented with the thin (depth) side facing the kerb with 300mm access between the bins, the bins when all presented together will occupy approximately 9.6m of the frontage of the site. If the bins are presented to the western side of the entry to the site there will be sufficient room for all bins, which will be removed prior to the commencement of daily school activities.

Recycling collections will be provided on Tuesday and Friday of each week, where a maximum of 4 x 1100-litre mobile waste bins will be presented for collection. If the bins are presented with the thin (depth) side facing the kerb with 300mm access between the bins, the bins when all presented together will occupy approximately 5.5m of the frontage of the site. If the bins are presented to the western side of the entry to the site

there will be sufficient room for all bins, which will be removed prior to the commencement of daily school activities.

Having the waste and recycling bin serviced on separate days will mean that bin numbers on each collection day will be significantly reduced this reducing the impact of services on the school and local environment.

4.9 ON GOING OPERATION, USE & MAINTENANCE OF WASTE MANAGEMENT FACILITIES

All waste management facilities will be maintained in a clean and hygienic condition that will promote the principles of health, safety and convenience.

In order to achieve these objectives, the following requirements will apply: -

1. The walls and floor of the Waste Storage Area (WSA) will be constructed of smooth faced masonry or concrete.
2. The WSA is be washed and cleaned on a regular basis.
3. All bins will be washed and cleaned on a regular basis.
4. Bin decanting equipment will be cleaned and maintained on a regular basis.
5. Any electrical equipment, including the provision of lighting, will be installed in accordance with the relevant Australian Standards.
6. Appropriate signage will be displayed in a prominent position within the school identifying the location of the WSA, as well as providing instruction to employees on how to use waste and recycling facilities, including what is and what is not recyclable.
7. The School will be responsible for ensuring that all waste and recyclable matter and materials are placed and stored within the appropriate containers provided.

PART 5 – SUMMARY

5.1 SUMMARY

In summarising this proposal, the following information is provided:

1. This Waste Management Plan has been prepared in accordance with: -
 - a) NSW Dept of Planning and Environment's Critical State Significant Infrastructure Standard Secretary's Environmental Assessment Requirements (SEAR'S);
 - b) NSW Government Design Guide for Schools;
 - c) NSW Dept of Education's Education Facilities Standard Guidelines;
 - d) All conditions of the development consent to be issued under the approved Complying Development Consent;
 - e) Waste Classification Guidelines (EPA 2014);
 - f) The relevant requirements of the 'Better Practice Guide for Waste Management'; and,
 - g) The objective of ensuring that all waste management facilities and collection services will provide an outcome that will be effective and efficient, as well as promote the principles of health, safety and convenience.
2. This Waste Management Plan (WMP) has been prepared for Complying Development for state significant development to be assessed under the relevant provisions of the NSW Dept of Planning and Environment's Critical State Significant Infrastructure Standard Secretary's Environmental Assessment Requirements (SEAR'S).
3. There are no specific guidelines for calculating waste and recycling generation rates for NSW Secondary Schools.
4. All waste and recycling generation rates have been calculated from information provided by the school based on data from similar education establishments in the Sydney Region.
5. All waste and recycling services will be provided by a licensed private waste and recycling collection contractor.
6. The School will be responsible for ensuring that all on-going waste management activities are carried out in accordance with the provisions of this Waste Management Plan.

The measures set out in this WMP aim to demonstrate that all such activities will be carried out effectively and efficiently, in a healthy, safe and convenient manner, to acceptable community standards, and to the requirements of the School and the NSW Department of Education.