

# WASTE MANAGEMENT PLAN

28/9/2020

**For:** Detached Steel framed shed

**Address:** 44 Mayfair Road Mulgoa 2745

**Client:** Sienna Waters Pty Ltd

| Particulars                |                            |
|----------------------------|----------------------------|
| Description of proposal    | Detached Steel framed shed |
| Current Floor Area         | 0m <sup>2</sup>            |
| Proposed roof Area (total) | 200m <sup>2</sup>          |
| Site Area                  | 7.766ha                    |
| Current Land use           | Private Property           |

## Project Summary:

The Proposed development is a Detached Steel framed shed

- Shed
- Minimal building waste [post construction]
- Additional waste bins required for second dwelling (Y/N) = N

Likelihood of ASBESTOS = [n/a]

Unlikely to obtain asbestos. If located, licensed contractor to be contacted for removal.

LICENSED CONTRACTOR DETAILS TO BE PROVIDED BY OWNER

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| Waste Management - Checklist  |                           |
|---|---------------------------|
| Site Assessment   | Compliance/Non-Compliance |
| Have you provided applicants name and address?  | Yes                       |
| Have you noted the structures currently on site and details of your proposal?                                 | Yes                       |
| Have you specified each material to be used on site?  | Yes                       |
| Have you identified any hazardous or toxic materials (eg. Asbestos) and complied with Workcover requirements? | Yes                       |
| Have you specified who your recycling and waste contractors are?  | Yes                       |
| Have you estimated how much general waste will be produced on your site?                                      | Yes                       |
| Have you provided realistic volumes/tonnes?   | Yes                       |
| Have you made sure not to over order on materials?  | Yes                       |
| Have you investigated returning waste to the supplier?  | Yes                       |
| Have you maximised recycling and reuse of materials?  | Yes                       |
| Have you specified your recycling and landfill, (if any), destinations?                                       | Yes                       |

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## Waste Management – DEMOLITION/EXCAVATION

| Materials On site                  |  | Destination<br>Reuse and Recycling                        |  |   |
|------------------------------------|--|---|--|---|
| Type of Material                   | Estimated Volume<br>(m2 or m3)                     | ON SITE<br>(detail re-use or on site<br>recycling)        | OFFSITE<br>(detail contractor and recycling<br>outlet)                           | OFFSITE<br>(detail landfill site and<br>method of disposal) |
| Excavation material (pool)         | Nil  | n/a   | n/a  | n/a   |
| Excavation material (new dwelling) | Excavate pad footings through existing concrete    | n/a   | n/a  | n/a   |
| Green Waste                        | (1) Tree to be removed.                            | Cut up and mulched on site for firewood and garden mulch. | n/a  | n/a   |
| Walls - n/a                        | m3   | n/a   | Skip bin contractor as selected by client  | n/a   |
| Floor - n/a                        | 0m3  | n/a   | Skip bin contractor as selected by client  | Crushed and recycled by sand and soil retailer.             |
| Timber – specify type              | m3 Roof, verandah and wall frame timbers m3 (n/a ) | n/a   | Skip bin contractor as selected by client  | n/a   |
| Fibreglass sheeting                | 0m2  | n/a   | Skip bin contractor as selected by client  | n/a   |
| Metals                             | 0m2 Roof sheeting                                  | n/a   | Separated on site and loaded into skip bins for recycling by selected contractor | Steel smelter and reused.                                   |
| Tile – specify type                | 0m2 Roof tiles                                     | n/a   | n/a  | n/a   |

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## Waste Management – CONSTRUCTION WASTE (left over material)

| Materials On site     |                                | Destination<br>Reuse and Recycling                         |   |  |
|-----------------------|--------------------------------|--|---|--|
| Type of Material      | Estimated Volume<br>(m2 or m3) | ON SITE<br>(detail re-use or on site<br>recycling)         | OFFSITE<br>(detail contractor and recycling outlet)                                 | DISPOSAL<br>(detail landfill site and<br>method of disposal)                                   |
| Excavation material   | Refer to excavation page       | Remains on site  | n/a   | n/a  |
| Green Waste           | Nil                            | n/a  | n/a   | n/a  |
| Bricks                | Nil                            | n/a  | n/a   | n/a  |
| Concrete              | <1m3                           | Use for pad footing for path,<br>clothes line or A/C Unit. | n/a   | n/a  |
| Timber – specify type | nil                            | n/a  | Recycled & reused offsite by contractor   | Reused offsite by<br>contractor  |
| Plasterboard          | ~ nil                          | n/a  | Separated on site and loaded into skip<br>bins for valuation                        | Sent to landfill if to EPA<br>Standards or crushed<br>for soil conditioner if<br>contaminated. |
| Metals                | ~1-2m3                         | n/a  | Separated on site and loaded into skip<br>bins for recycling by selected contractor | Steel smelter and<br>reused.   |
| Tile – specify type   | nil                            | n/a  | n/a   |  |

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## Ongoing Management (Residential)– Waste generated by development/Waste removal

|  | Recycled materials | Greenwaste        | Residual/Other    |
|--|--------------------|-------------------|-------------------|
| Waste generated/ week (L) (as per Appendix 2.0)  | <240L              | <240L             | <80L              |
| Frequency of collections required per week   | Standard – 1/week  | Standard – 1/week | Standard – 1/week |
| Area available for Bin storage (m2)  | 1.0m2              | 1.0m2             | 1.0m2             |
| Size of Bin required   | 240L               | 240L              | 80L               |
| <b>Waste Pick up</b>   |                    |                   |                   |
| Vehicle manoeuvrability achievable (as per Appendix 3.0)                               | ✓                  | ✓                 | ✓                 |
| Bins can be stored for pick up away from Cul-de Sac (as per Appendix 3.0)              | ✓                  | ✓                 | ✓                 |
| Vehicle heights and minimum clearances achievable (as per Appendix 4.0 & Appendix 5.0) | ✓                  | ✓                 | ✓                 |

Additional Waste Bins required :

| Type                           | YES/NO | Size requested |
|--------------------------------|--------|----------------|
| Recycled material Bin (YELLOW) | ✗      | 80L – 240L     |
| Greenwaste Bin (GREEN)         | ✗      | 80L – 240L     |
| Residual/Other Bin (RED)       | ✗      | 80L – 240L     |

## APPENDIX 2: GENERATION RATES

| Type of Development                            | Development Classification   | General Waste  | Recycling                        | Greenwaste | Recommended Bin Types (W, R, G)#             |
|--|--|--|----------------------------------|------------|--|
| Residential                                    | General  | 80L/dwelling/week  | Variable                         | Variable   | W80L*, R240L, G240L                          |
|  | Community Title  | 80L/dwelling/week  | Variable                         | Variable   | W80L*, R240L, G240L                          |
|  | Town House   | 80L/dwelling/week  | Variable                         | Variable   | W80L*, R240L, G#                             |
| Residential Multi Unit Developments            | Villas   | 80L/dwelling/week  | 60L/dwelling/week                | #          | W240L/3 dwellings, R240L/4 dwellings, G#     |
|  | 1-3 Level Low Rise   | 80L/dwelling/week  | 60L/dwelling/week                | #          | W240L/3 dwellings, R240L/4 dwellings, G#     |
|  | 4-7 Medium Rise  | 80L/dwelling/week  | 60L/dwelling/week                | N/A        | W1100L+Chute/12 dwellings, R240L/4 dwellings |
|  | >7 High Rise   | 80L/dwelling/week  | 60L/dwelling/week                | N/A        | W1100L+Chute/12 dwellings, R240L/4 dwellings |
| Commercial (including Multi Unit Developments) | Boarding/Guest House, Backpackers Accommodation                        | 40L/occupant/week  | 20L/occupant/week                | #          | #  |
|  | Food Premises  |  |                                  |            |  |
|  | Butcher  | 80L/100m2 floor area/day   | #                                | N/A        | #  |
|  | Delicatessen   | 80L/100m2 floor area/day   | #                                | N/A        | #  |
|  | Fish Shop  | 80L/100m2 floor area/day   | #                                | N/A        | #  |
|  | Greengrocer  | 240L/100m2 floor area/day  | 120L/100m2/day                   | N/A        | #  |
|  | Hairdresser  | 60L/100m2 floor area/day   | #                                | N/A        | #  |
|  | Restaurants  | 10L/1.5m2 floor area/day   | 2L/1.5m2 floor area/day          | N/A        | #  |
|  |  | 240L/100m2 floor area/day  | 240L/100m2/day                   | N/A        | #  |
|  | Supermarket  | 80L/100m2 floor area/day   | #                                | N/A        | #  |
|  | Takeaway   |  |                                  |            |  |
|  | Hotel  | 5L/bed/day<br>50L/100m2 bar area/day<br>10/1.5m2 dining area/day | 50L/100m2 bar & dining areas/day | #          | #  |
|  | Licensed Club  | 50L/100m2 bar area/day<br>10/1.5m2 dining area/day               | 50L/100m2 bar & dining areas/day | #          | #  |
|  | Motel (without public restaurant)                                      | 5L/bed/day<br>10L/1.5m2 dining area/day                          | 1L/bed/day                       | #          | #  |
|  | Offices  | 10L/100m2 floor area/day   | 10L/100m2/day                    | #          | #  |
|  | Retail (other than food sales)   |  |                                  |            |  |
|  | Shops <100m2 floor space   | 50L/100m2 floor area/day   | 25L/100m2 floor area/day         | N/A        | #  |
|  | Shops 100m2 floor space  | 50L/100m2 floor area/day   | 50L/100m2 floor area/day         | N/A        | #  |
| Industrial                                     | Expected waste generation shall be discussed and approved by Council** |  |                                  |            | #  |
| Demolition                                     | Expected waste generation shall be discussed and approved by Council** |  |                                  |            | Source separation skips                      |
| Construction                                   | Expected waste generation shall be discussed and approved by Council   |  |                                  |            | Source separation skips                      |

\* Larger bins (120L or 240L) may be approved by Council upon request. NOTE: larger bins attract additional costs

\*\*Waste management provisions shall comply with: *Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-liquid Wastes*

# Council will determine provisions based on each application

N/A: Not applicable to this development

Source: NSW Department of Environment, Climate Change and Water (DECCW), Model 'Waste Not' DCP, 2008.

### APPENDIX 3 – TURNING HEADS

All turning heads including temporary turning heads are to abide by the dimensions illustrated below (not drawn to scale). The dimensions are required to be followed for heavy vehicle manoeuvrability without posing a hazard to either the community or staff.

Special consideration must be given to the placement of waste bin collection areas within a "T" (hammerhead) turning area of a cul-de-sac. Bin pads are to be provided in a "T" head on the left hand (forward end and 8 metres from the reverse end of the "T" head. This is to enable the trucks to pick up from the left-hand side of the truck.

**Note:** Waste bin pads are preferred on the straight road just before a cul-de-sac turning head to minimise the necessary manoeuvring of the waste collection trucks in a cul-de-sac head. All development applications are to identify the storage area of the waste bins behind the building line.

### APPENDIX 4: GARBAGE TRUCK DIMENSIONS

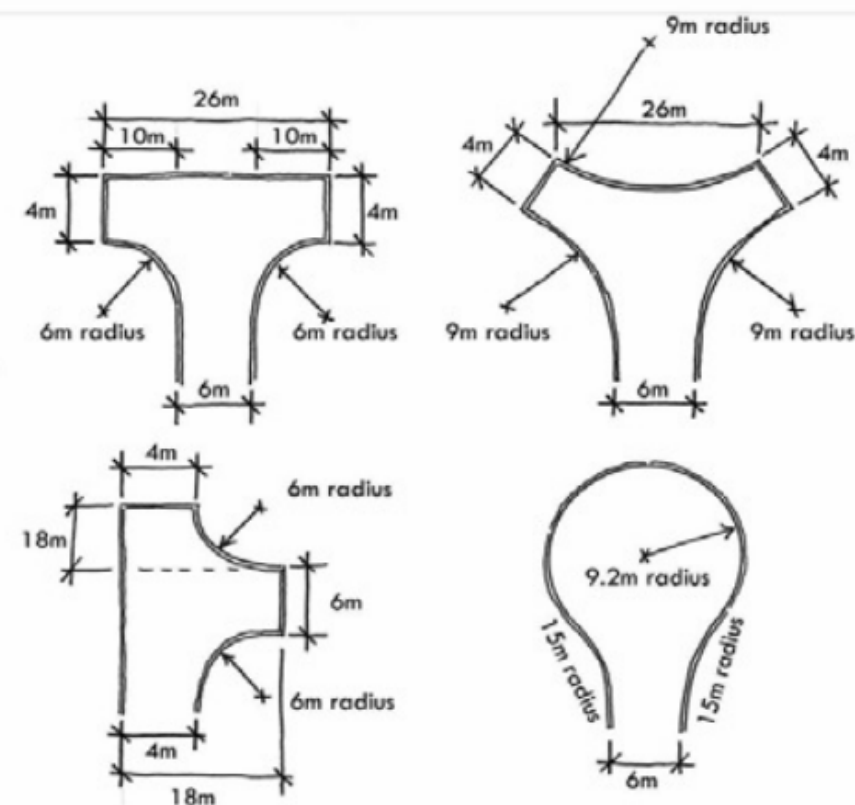
This page includes information regarding the dimensions of garbage trucks that are typically used for the collection of residential waste. Developments that require Council garbage trucks to enter the site for the collection of residential waste must be designed to accommodate on-site truck movement.

Requirements regarding vehicle turning circles and driveway width/gradient are contained in Australian Standard 2890.2 2002/Planning Facilities — off street commercial vehicles.

It is recommended that an applicant speak with Council's Waste Services Coordinator in regards to the design of development proposals that involve garbage trucks entering the site. Services will not be provided where there are undue risks.

|                           |             |
|---------------------------|-------------|
| Length overall            | 9.85 metres |
| Width (vehicle)           | 2.5 metres  |
| Width (extended arm grab) | 6.0 metres  |
| Operational height        | 4.3 metres  |
| Travel height             | 4.3 metres  |
| Weight (vehicle and load) | 22.5 tonnes |
| Weight (vehicle only)     | 13 tonnes   |
| Turning Circle            | 25.0 metres |

Typical Council Garbage Truck used for Domestic Waste Collection



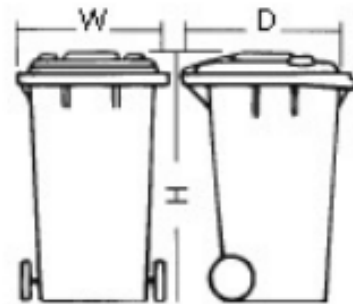
## APPENDIX 5: INDICATIVE BIN SIZES

Council currently provides three different size residual waste bins (red lid), which are 80 Litres, 120 Litres and 240 Litres. Domestic recycling and green waste bins are 240 litres only.

A 300mm gap between each bin is required, so the side arm grab does not knock the other bins over whilst collecting.

Additionally, a clearance space of 1 meter is required at the rear of each bin as it extends out into this area when being lifted for collection (i.e. allowing for the trucks lifting arm arc).

| Bin type      | Height | Depth | Width |
|---------------|--------|-------|-------|
| 80 Litre Bin  | 870mm  | 530mm | 450mm |
| 120 Litre Bin | 940mm  | 560mm | 485mm |
| 140 Litre Bin | 1065mm | 540mm | 500mm |
| 240 Litre Bin | 1080mm | 740mm | 580mm |



**Note:** These dimensions are only a guide and differ slightly according to manufacturer, if bins have flat or dome lids and are used with different lifting devices.

Note: All measurements are best estimates and should be confirmed on site by builder. Any changes to volumes stated should be detailed to council.