



Waste Management

Aberdeen Valley Fair Retail and Service Centre

Enef Investments Pty Ltd





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For 30 years, we've been at the centre of the Australian development and infrastructure industry. Our unique combination of acoustics, data, traffic and waste services is fundamental to the success of any architectural or development project.

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Acoustics



Data



Traffic



Waste

Revision Record

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Glossary

In this waste management plan unless the subject matter otherwise indicates, a term has the following meaning:

TERM	DEFINITION
Baler	A device that compresses waste into a mould to form bales which may be self-supporting or retained in shape by wire ties and strapping.
Bin Storage Area	An enclosed area designated for storing on-site refuse bins or a refuse compactor within the property.
Bulk Bin	A galvanised or steel bin receptacle that is greater than 360L in capacity generally ranging from 1.0m ³ to 4.50m ³ used for the storage of refuse that is used for on-site refuse collection.
Bulk MGB	A plastic (polypropylene) receptacle that is greater than 360L in capacity generally ranging from 0.66m ³ to 1.10m ³ used for the storage of refuse that is used for on-site refuse collection.
Collection Point	The identified position where refuse bins are storage for collection and emptying. the collection point could be the bin storage area for bulk bins.
Composter	A container/machine used for composting specific food scraps.
Green Waste	All vegetated organic material such as small branches leaves and grass clippings, tree and shrub pruning, plants and flowers.
Liquid Waste	Non-hazardous liquid waste generated by commercial premises that is supposed to be connected to sewer or collected for treatment and disposal by a liquid waste contractor (including grease trap waste).
Recycling	All material suitable re-manufacture or re-use; Glass bottles and jars – PET, HDPE and PVC plastics; aluminum aerosol and steel cans; milk and juice cartons; soft drink, milk and shampoo containers; paper, cardboard, junk mail, newspapers and magazines.
Refuse	Material generated and discarded from residential and commercial buildings including general waste, recyclables, green waste and bulky items.
Refuse Bin	A receptacle (mobile garbage (wheelie) bin, bulk MGB or bulk bin) used for the storage of refuse.
Refuse Compactor	A receptacle that provides for the mechanical compaction and temporary storage of refuse, to reduce bin numbers and collection frequency.
Refuse Collection Vehicle (RCV)	A vehicle that is specifically designed for collecting and emptying refuse bins and refuse compactors.
Refuse Storage Room	An area identified for storing on-site mobile garbage bins or bulk bins within the property.
Regulated Waste	Waste generated from non-domestic sources.
Waste General	Refuse material with the exclusion of recycling, green waste, hazardous waste special waste, liquid waste and restricted solid waste.

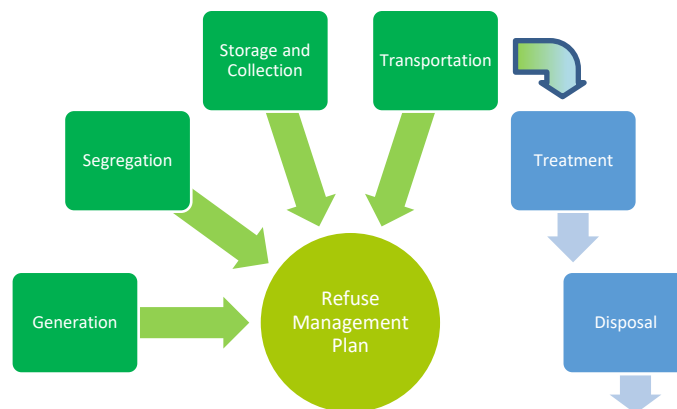
1 Introduction

1.1. Background

The purpose of this report is to assess the refuse produced for the proposed retail and commercial development located on the corner of MacQueen Street and Perth Street, Aberdeen. The assessment and associated recommendations includes:

- ✓ identification of refuse streams produced within the development,
- ✓ estimated volumes generated,
- ✓ appropriate segregation methods for each refuse stream,
- ✓ internal systems and equipment requirements,
- ✓ refuse storage facilities design,
- ✓ refuse collection room, area or loading bay designs,
- ✓ refuse collection vehicle (RCV) access and manoeuvrability,
- ✓ safety,
- ✓ waste minimisation and pollution prevention,
- ✓ owner and tenant education, and
- ✓ operational requirements.

Refuse Life Cycle



Information contained within the report is based on local government authority requirements related to Upper Hunter Shire Council and the associated waste services department. The recommendations provided are designed to comply with Upper Hunter Shire Council's Development Control Plan 2015:

- Part 5– Commercial Development
- Part 11- Environmental Protection

1.2. Site Location

The site is located on the corner of MacQueen Street and Perth Streets, Aberdeen, as shown in Figure 1.1. The property description is Lots 113 & 114 on DP 631908. Access is via MacQueen Street and Perth Street.

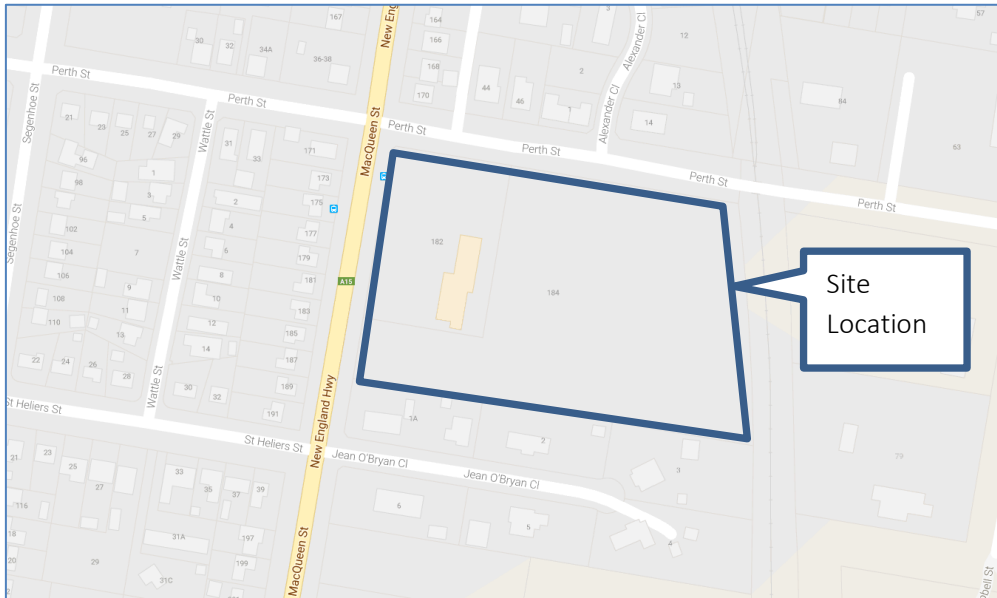


Figure 1.1: Site Location



Figure 1.2: Site Plan- Aerial

1.3. Development Refuse Profile

The development consists of the following:

Table 1.1: Development Refuse Calculations

<i>Description</i>	<i>GFA m²</i>	<i>Generated Waste (L/week)</i>	<i>Generated Recycling (L/week)</i>
R1 - Café	115.5	5,336	1,051
R1 - Chemist	147.9	1,915	621
R1 - Butcher	92.8	520	520
Commercial 1	420.6	210	210
Commercial 2	956	478	478
Subtotal	1,732.8	8,459	2,880
R1 - Supermarket	597.1	10,031	10,031
R1 - Bottle shop	125.2	876	876
Subtotal	722.3	10,908	10,908
Service Centre Convenience Store	98.8	173	622
Service Centre Fast Food Restaurant	391.1	2,190	2,190
Subtotal	489.9	2,363	2,813
R2 - Bulky Goods	526	1,841	1,841
Subtotal	573.5		
R3 - Bulky Goods	855.3	2,994	2,994
R3 - Bulky Goods	755	2,643	2,643
R3 - Café	112.5	5,198	1,024
Subtotal	1722.8	10,834	6,660
R3 - Bulky Goods	486.3	1,702	1,702
R3 - Bulky Goods	485.5	1,699	1,699
Subtotal	971.8	3,401	3,401
Development Total	6,165.6	37,806	28,503

Section 4 of the report summarises the operational requirements for the entire development. All calculations and equipment requirements are based on the approximate GFA and associated waste generation rates as outlined in the detailed information in Appendix A.1. Site drawings can be found in Appendix A.2.

2. Commercial/Retail Refuse Disposal

The commercial/retail waste streams will consist of the following:

- General Waste;
- Recycling (glass, aluminium, paper and cardboard);
- Hazardous waste/e-waste (batteries, cartridges, paints, coolants and solvents);
- Organic waste;
- Waste oil; and
- Clinical waste.

2.1. Refuse Disposal

Tenancies will be supplied with adequate space for storage of at least one full day accumulation of refuse. Each tenant will be responsible for their own storage of waste and recycling back of house (BOH) and have access to bins located in their designated refuse/loading area (see Appendix A.2). Where applicable, other materials such as cardboard and plastics should be separated.

Waste should be collected in a dedicated receptacle within the allotted space and bagged or wrapped prior to disposal. Operationally, general waste should be bagged and weigh approximately 3kg or less and not exceed the dimensions of the waste receptacles.

Recycling must not be bagged. Recyclables should be collected in a dedicated receptacle to ensure separation from the waste material.

2.2. Transferal and Storage Process

On completion of each trading day, or as required during the day, nominated staff will transfer their refuse to their respective refuse area and place waste and recycling into the appropriate refuse bins. Further transferal is not required as bins are serviced directly from the loading area where bins will be placed in close proximity for servicing.

2.1.1 Chemist Transferal and Storage Process

Clinical waste bins as shown in Figure 3.6 will be placed as required in various positions on each floor. The larger clinical waste bins will be housed within store rooms whilst small transferable clinical and sharps containers will be placed in examination rooms. Clinical waste bins will be transferred to the refuse room for storage prior to collection or alternatively site management may choose to have these bins collected directly from each floor level on a “walk in – walk out” basis by the designated contractor.



Figure 2.1: Clinical Waste Bins

2.1.2 Commercial/Office Transferal and Storage Process

The tenants will store their waste and recycling back of house (BOH) where building management will liaise with designated contractors to collect bins directly from the BOH area on a “walk in – walk out” basis.

2.3. Alternate Refuse Disposal

An alternate refuse disposal method, such as composting, can be used to reduce the amount of waste produced. Space and practicality should be considered for apartment style use. Composting should be arranged with the building manager and further information can be found in Appendix C.2.

2.4. Specialised Waste Disposal

Where required, specialised waste shall be organised with the assistance of the building manager/ caretaker, due to safety and environmental reasons. Specialised waste includes, and is not limited to, disposal or recycling of electronic waste, liquid waste (including paints/chemicals) etc. Occupants should be directed to Council ’s website for more details for appropriate waste and disposal.

2.5. Waste Oil

Consideration should be given to the use of oil collection for cooking and mechanical applications, as shown in Appendix C.3. All waste liquids, such as oil and coolants should be separated and stored in clearly labelled containers. Bunded areas or bunded plastic pallets should be supplied for the storage of liquid waste including waste oils. Each pallet should be capable of storing of at least one-third of its contents if there is a leak. All bunded areas should be stored in a level area and routinely inspected to ensure maintenance of their integrity. Bunded pallets can be stored indoors or purpose built for outdoors.

3. Refuse Collections

The recommendations for refuse collection relate to the operational phase of the development only and do not include demolition or construction refuse.

3.1. RCV Access and Servicing

All refuse will be collected onsite by a private contractor. The site will have service vehicle access via MacQueen Street. On or before the day of service, all refuse bins will be stored in close proximity to the loading areas for collection.

The swept path analysis of service vehicles is provided by SECA solution and attached in Appendix B. This analysis shows that the intended design vehicles are adequately able to access the loading areas of each tenancy.

Refuse bin quantities have been calculated on maximum collection cycles of three days per week for waste and three days per week for recycling.

The building managers/tenancies will liaise with and directly engage a contractor to finalise service days, frequency prior to the time of occupancy and disposal of other waste streams such as, oils and organics if not provided by council.

4. Recommended Operational Requirements

4.1. On-going Management

All refuse equipment movements are to be managed by the building manager/caretaker or cleaners at all times. The building manager/cleaner duties include, but are not limited to the following:

- organising, maintaining and cleaning the general and recycled waste holding areas (frequency will depend on waste generation and will be determined based upon building operation)
- transporting and decanting (recycling) of bins as required
- organising both garbage and recycled waste pick-ups as required
- cleaning and exchanging all bins
- organising and coordinating bulky goods collections
- ensuring site safety for residents, children, visitors, staff and contractors
- abiding by all relevant OH&S legislation, regulations, and guidelines
- assessing any manual handling risks and preparing a manual handling control plan for waste and bin transfers
- providing to staff/contractors equipment manuals, training, health and safety procedures, risk assessments, and PPE to control hazards associated with all waste management activities
- continual monitoring of equipment uses and scheduling to ensure best operational outcomes.

Note: As waste volumes may vary according to the development occupants' attitudes to waste disposal and recycling, bin numbers and sizes may need to be altered to suit the building operation.

4.2. Waste Minimisation

Waste minimisation is an important part of any site operation. At a minimum, the following should be implemented.

4.2.1. Education

On-going education is important to ensure people continue to use the facilities as originally intended. All body corporate and leasing contracts should contain clauses pertaining to waste management arrangements and use of any associated equipment.

4.2.2. Monitoring and Review

Regular monitoring and inspections of waste and related equipment and facilities from the development should be conducted by building management/designated staff for maintenance and sustainability, including but not limited to bin volumes, refuse storage areas and stormwater management.

Waste minimisation requires regular reviewing to ensure operational sustainability of refuse volumes, equipment and economic feasibility. It is recommended that refuse weights and movements are recorded and reviewed. An external review is usually conducted 12-18 months after the implementation of the plan.

4.2.3. Signage

All receptacles and bins should have adequate signage, with appropriate labelling, which is clear and easy to read. Standard signage is to be provided in and around waste collection and storage areas (see Appendix D).

4.3. Safety

Note that transferring refuse bins is considered a hazardous manual task and therefore contractors must ensure a full risk assessment of equipment, surfaces and related gradients is complete. The contractor must provide procedural documentation to appropriate personnel prior to delivery of equipment and occupancy of the development.

4.4. Operational Summary

Equipment required or suitable for use as part of the operational phase of the development is outlined below. It should be noted that all collection receptacles and bins should be branded with the appropriate stickers.

Table 4.1: Operations Equipment

Component	Description	Quantity	Notes
Commercial	Recycling Bins	12	1100L Rear-lift Bins See Appendix C.1
	Waste Bins	15	
	Green Waste	Subject to final operational requirements	
	Digester or Dehydrator (Optional)	Supplied as and if required See Appendix C.2.1	
	Baler (Optional)	1	See Appendix C.2.2

4.5. Operational Equipment Summary

Equipment suppliers for use as part of the operational phase of the development are outlined below.

Table 4.2: Equipment Suppliers

Company Name	Equipment	Link
Elephants Foot Recycling Solutions	Chutes & Bin Rotation Equipment, Balers, Compactors, Bin Lifters, Weighing Systems	http://www.elephantsfoot.com.au/
Wastech	Chutes & Bin Rotation Equipment, Balers, Compactors	http://wastech.com.au/
Pakmor	Balers, Compactors, Bin Lifters, Weighing Systems, Shredders	http://pakmor.com.au/
Miltek	Balers and Compactors for waste and recycling i.e. Cardboard, Plastic, Polystyrene, Medical Waste	http://www.miltek.com.au/
Closed Loop Organics	Industrial and Domestic Composters	http://www.closedloop.com.au/domestic-composter
MOVEXX	Bin Towing, Trailers and manual handling equipment	http://www.movexx.com.au/
Spacepac Industries	Trailers	http://www.spacepac.com.au/
Electrodrive / Lift Master	Bin tugs, Trailers and Bin Lifters	http://www.electrodrive.com.au/our-brands/liftmaster.aspx
J.J. Richards	Pulpmaster	http://pulpmaster.com.au/
Absorbenviro	Containment, Absorbents, Drain Protection	http://www.absorbenviro.com.au/
Trade Environmental	Spill Response, Spill Containment, Storm water Management	http://www.tradeenviro.com.au/bunded-pallets/
Spillstationaustralia	Spill Response and Containment Equipment	www.spillstation.com.au

4.6. Controls

4.6.1. Refuse Room

The waste room will be required to contain the following facilities to minimise odours, deter vermin, protect surrounding areas, and make it a user-friendly and safe area:

- fire rated and ventilated in accordance with the National Construction Code- Building Code of Australia
- doors must be wide enough to allow for the easy removal of the largest container to be stored
- the walls, ceiling, floor and equipment of each waste storage room are to be designed and constructed of impervious material with a smooth finish to allow for easy cleaning
- the floor is to be graded to fall to a drainage point
- drainage point connected to sewer in accordance with trade waste requirements
- a hose cock must be provided directly outside the room for cleaning bins and the room
- adequate artificial lighting

- refrigerated rooms are fitted with an approved alarm device outside, but controllable only from within the room
- not located adjacent to or within any habitable portion of a building or place used in connection with food preparation (including food storage)
- permit unobstructed access for removal of the containers to the service point and for positioning of the containers correctly in relation to the waste chute
- provide additional space for compactors (if applicable)

4.6.2. Storm Water Prevention and Litter Reduction

Designated personnel/ cleaners are responsible for on-site storm water pollution and litter reduction. To limit the impact on the environment and site, the following measures should be taken into account:

- providing adequate signage to promote litter control
- providing sufficient refuse bins in appropriate areas
- preventing unauthorised entry to waste areas
- monitoring waste and prevent waste overflow
- promoting best practices for waste minimisation
- installing litter traps in car parks for any unwanted discharge

4.6.3. Ventilation

Natural (unobstructed, permanent openings direct to external air no less than one-twentieth (1/20) of floor area) or mechanical ventilation (minimum rate of 100 L/s and 5L/m² exhausting rate) must be provided to waste storage areas unless refrigerated below four degrees Celsius.

Appendix A Detailed Information

A.1 –Refuse Calculations

The generation rates used for the calculation of refuse produced uses rates recommended by Upper Hunter Shire Council. Where generation rates for specific uses are absent, TTM has consulted the NSW EPA *Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities*. Waste volumes indicated do not include compaction. Recycling compaction is prohibited and therefore has not been applied. All retail calculations have been based on a seven day per week operation and all commercial calculations are based on a five day per week operation.

Table A.1: Generation Rates

Type	Waste	Recycling
Cafe	660 L / 100m ² / day	130 L / 100m ² / day
Chemist	185 L / 100m ² / day	60 L / 100m ² / day
Butcher	80 L / 100m ² / day	80 L / 100m ² / day
Bottle Shop	100 L / 100m ² / day	100 L / 100m ² / day
Commercial	10 L / 100m ² / day	10 L / 100m ² / day
Supermarket	240 L / 100m ² / day	240 L / 100m ² / day
Takeaway	80 L / 100m ² / day	80 L / 100m ² / day
Bulky Goods	50 L / 100m ² / day	50 L / 100m ² / day

Table A.2: Retail Refuse Calculations

Description	GFA m ²	Generated Waste (L/week)	Generated Recycling (L/week)	Operating Days
R1 - Café	115.5	5,336	1,051	7
R1 - Chemist	147.9	1,915	621	7
R1 - Butcher	92.8	520	520	7
Commercial 1	420.6	210	210	5
Commercial 2	956	478	478	5
Total	1732.8	8,459	2,880	
Refuse per day	-	1,208	411	
Collections and Equipment	Bin Size (L)	1,100	1,100	
	Min Collections per Week	3	3	
	No Bins Required	3	1	
Refuse Areas	Raw Bin Area	6.8 m ²		

Table A.3: Supermarket & Bottle Shop Refuse Calculations

<i>Description</i>	<i>GFA m²</i>	<i>Generated Waste (L/week)</i>	<i>Generated Recycling (L/week)</i>	<i>Operating Days</i>
R1 - Supermarket	597.1	10,031	10,031	7
R1 - Bottle shop	125.2	876	876	7
Total	722.3	10,908	10,908	
Refuse per day	-	1,558	1,558	
Collections and Equipment	Bin Size (L)	1,100	1,100	
	Min Collections per Week	3	3	
	No Bins Required	4	4	
Refuse Areas	Raw Bin Area	13.6 m ²		

Table A.4: Service Centre Refuse Calculations

<i>Description</i>	<i>GFA m²</i>	<i>Generated Waste (L/week)</i>	<i>Generated Recycling (L/week)</i>	<i>Operating Days</i>
Service Centre Convenience Store	98.8	173	622	7
Service Centre Fast Food Restaurant	391.1	2,190	2,190	7
Total	489.9	2,363	2,813	
Refuse per day	-	338	402	
Collections and Equipment	Bin Size (L)	1,100	1,100	
	Min Collections per Week	3	3	
	No Bins Required	1	1	
Refuse Areas	Raw Bin Area	3.4 m ²		

Table A.5: Bulky Goods R2 Refuse Calculations

<i>Description</i>	<i>GFA m²</i>	<i>Generated Waste (L/week)</i>	<i>Generated Recycling (L/week)</i>	<i>Operating Days</i>
R2 - Bulky Goods	526	1,841	1,841	7
Total	526	1,841	1,841	
Refuse per day	-	263	263	
Collections and Equipment	Bin Size (L)	1,100	1,100	
	Min Collections per Week	3	3	
	No Bins Required	1	1	
Refuse Areas	Raw Bin Area	3.4 m ²		

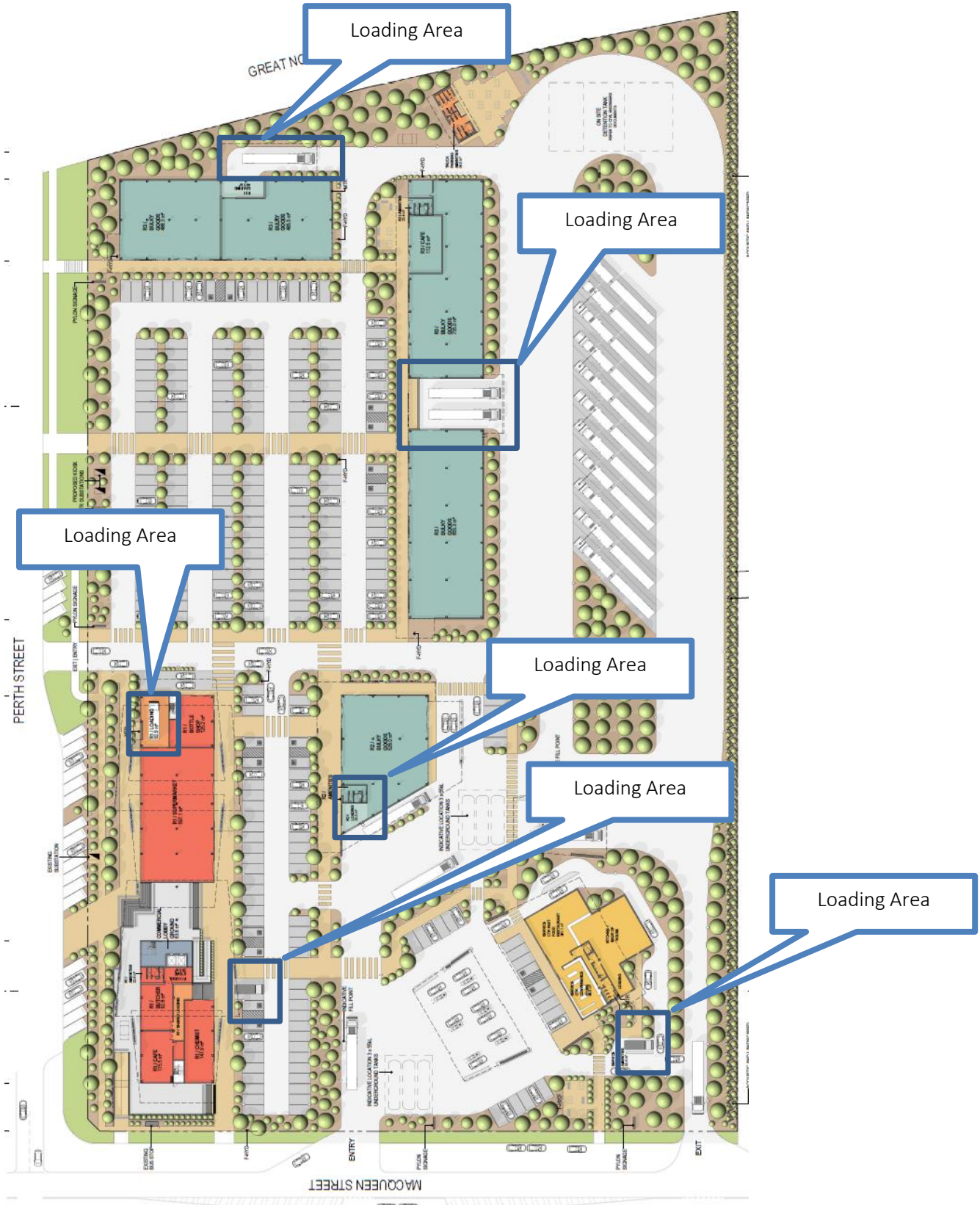
Table A.6: Bulky Goods R3 Refuse Calculations

<i>Description</i>	<i>GFA m²</i>	<i>Generated Waste (L/week)</i>	<i>Generated Recycling (L/week)</i>	<i>Operating Days</i>
R3 - Bulky Goods	855.3	2,994	2,994	7
R3 - Bulky Goods	755	2,643	2,643	7
R3 - Café	112.5	5,198	1,024	7
Total	1722.8	10,834	6,660	
Refuse per day	-	1,548	951	
Collections and Equipment	Bin Size (L)	1,100	1,100	
	Min Collections per Week	3	3	
	No Bins Required	4	3	
Refuse Areas	Raw Bin Area	11.9 m ²		

Table A.7: Bulky Goods R3 Refuse Calculations

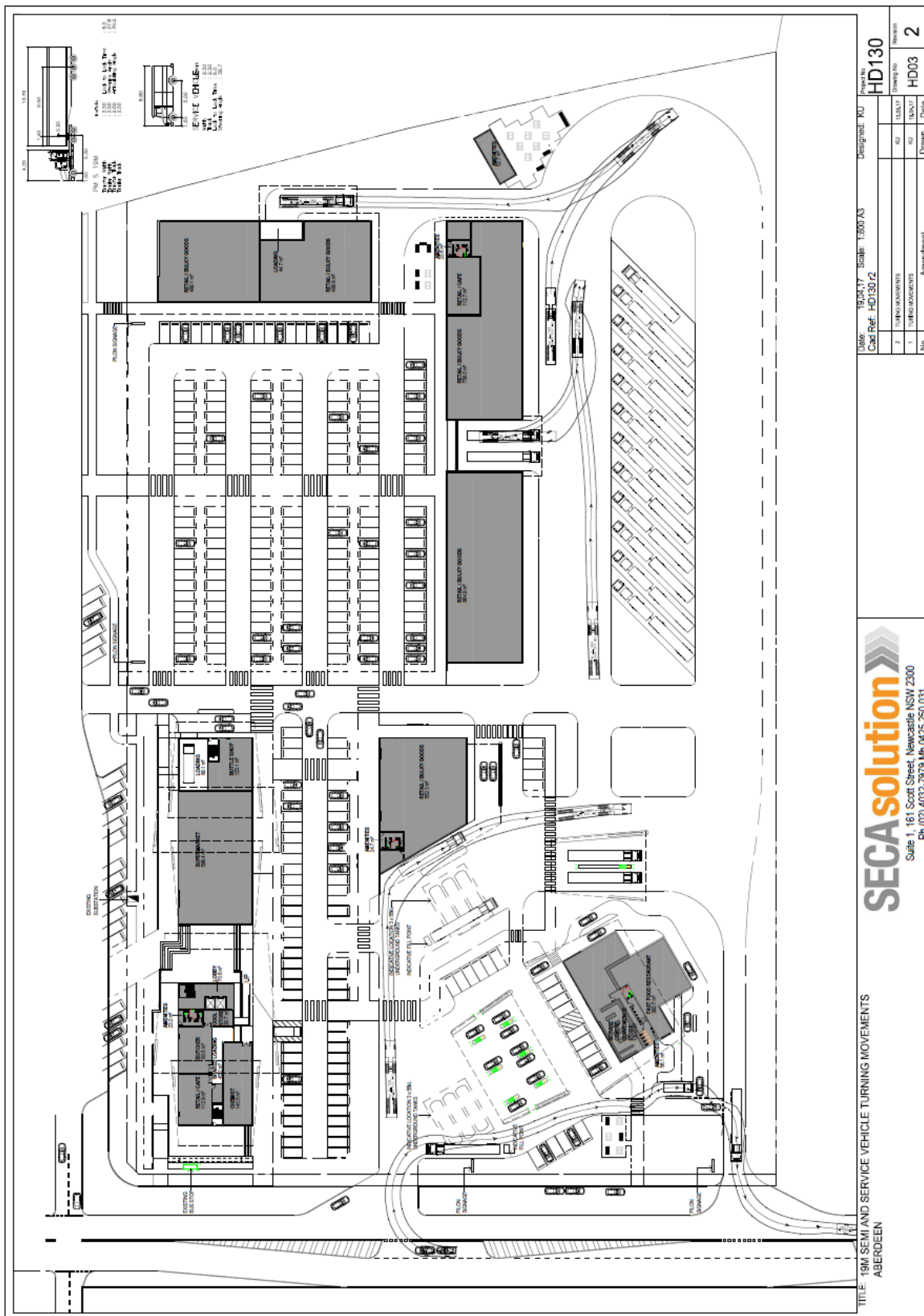
<i>Description</i>	<i>GFA m²</i>	<i>Generated Waste (L/week)</i>	<i>Generated Recycling (L/week)</i>	<i>Operating Days</i>
R3 - Bulky Goods	486.3	1,702	1,702	7
R3 - Bulky Goods	485.5	1,699	1,699	7
Total	971.8	3,401	3,401	
Refuse per day	-	486	486	
Collections and Equipment	Bin Size (L)	1,100	1,100	
	Min Collections per Week	3	3	
	No Bins Required	2	2	
Refuse Areas	Raw Bin Area	6.8 m ²		

Site: Aberdeen Valley Fair Retail and Service Centre
Reference: 17SYT0025



Appendix B Refuse Collection Vehicles

B.1 RCV



Appendix C Systems and Specifications

C.1 – Collection Bins

Typical Wheelie Bin Dimensions

Bin Capacity	80 L	120 L	140 L	240 L	360 L
Height (mm)	870	940	1065	1080	1100
Depth (mm)	530	560	540	735	885
Width (mm)	450	485	500	580	600
Approx footprint (m ²)	0.24	0.27	0.27	0.43	0.53

Typical Bulk Bin Dimensions

Bin Capacity	660 L	770 L	1100 L	1300 L	1700 L
Height (mm)	1250	1425	1470	1408	1470
Depth (mm)	850	1100	1245	1250	1250
Width (mm)	1370	1370	1370	1770	1770
Approx footprint (m ²)	1.16	1.5	1.7	1.21	1.27

C.2 – Waste Reduction Equipment

C.2.1 Commercial Digesters, Dehydrators or Composters

CLOSED LOOP ORGANICS UNIT SPECIFICATIONS

Closed Loop's organic recycling units are fully contained, commercial aerobic on-site composting units that can reduce food waste volume by up to 90 per cent in 24 hours.

CLO10		<p>Capacity/day: 20 kg Electricity usage/month: 500kWh (maximum) Electricity requirements: AC 240V Power rating: 50 Hz, 1.25 kW Overall footprint (mm): 1160 (w) x 620 (d) x 1030 (h) Overall dry weight: 240 kg</p>
CLO30		<p>Capacity/day: 60 kg Electricity usage/month: 1100kWh (maximum) Electricity requirements: AC 3 phase, 20 amp, 5 pin dedicated outlet Power rating: 415 V, 50 Hz, 3.2 kW Overall footprint (mm): 1960 (w) x 870 (d) x 1250 (h) Overall dry weight: 450 kg</p>
CLO50		<p>Capacity/day: 100 kg Electricity usage/month: 1700kWh (maximum) Electricity requirements: AC 3 phase, 20 amp, 5 pin dedicated outlet Power rating: 415 V, 50 Hz, 5 kW Overall footprint (mm): 2155 (w) x 1060 (d) x 1350 (h) Overall dry weight: 660 kg</p>
CLO 100		<p>Capacity/day: 200 kg Electricity usage/month: 3500kWh (maximum) Electricity requirements: AC 3 phase, 32 amp, 5 pin dedicated outlet Power rating: 415 V, 50 Hz, 11.2 kW Overall footprint (mm): 2584 (w) x 1250 (d) x 1580 (h) Overall dry weight: 1100 kg</p>
CLO 300		<p>Capacity/day: 600 kg Electricity usage/month: 6000kWh (maximum) Electricity requirements: AC 3 phase, 32 amp, 5 pin dedicated outlet Power rating: 415 V, 50 Hz, 24.7 kW Machine Footprint (mm): 4050 (w) x 1750 (d) x 2105 (h) Overall footprint with lifter (mm): 4050 (w) x 3500 (d) x 3300 (h) with door open Overall dry weight: 3500 kg – without lifter</p>



FRUIT AND VEGETABLES
(RAW OR COOKED)
INC. CITRUS



FISH AND SHELLFISH
(RAW OR COOKED)



POULTRY
(RAW OR COOKED,
WITH/WITHOUT BONES)



MEAT
(RAW OR COOKED)



**BREAD, RICE, PASTRIES,
FLOUR, PASTA**



DAIRY PRODUCTS
(MILK, CREAM, ETC.)



EGGS (INC. SHELLS)



SOUPS AND GRAVIES



NO COOKING OIL



NO PACKAGING



NO LARGE BONES



NO OYSTER AND SCALLOP SHELLS

Contact Closed Loop now to improve the environmental, financial and reputational performance of your business

Melbourne Level 1/40 Albert Road South Melbourne, VIC 3205 03 9684 4600	Sydney Suite 203/50 Marshall Street Surry Hills, NSW 2010 02 9339 9800	Brisbane 433 Logan Road Stones Corner, QLD 4120 07 3394 8453	www.closedloop.com.au info@closedloop.com.au 1300 762 166
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C.2.2 – Cardboard and Plastic Baler



Vertical balers

B-series B5 W VD

WIDE FILLING OPENING

The B5 W VD has a vertical door opening. This is the right choice of baler where space is limited and you at the same time have a need for high capacity.

The wide filling opening is characteristic to this baler. It makes it easy to insert bulky waste like dry soft plastic or large pieces of cardboard.



Technical specifications

Press force (t)	5
Power supply	1x230V 50Hz 10A
Motor (kW)	1.1
Noise level (dB)	65-68
Cycle time (sec)	33
Dimensions WxDxH (mm)	1370 x 1050 x 2610
Weight (kg)	615
Filling opening WxH (mm)	1000 x 500
Filling height (mm)	915
Chamber height (mm)	1305
Stroke (mm)	750
Bale size WxDxH (mm)	1000 x 700 x 800
Bale weight cardboard (kg)	80-110
Bale weight plastic (kg)	90-130



1 Compact your waste and eject the finished bale. **2** Remove and store the bale until collection. **3** With a vertical door opening you have an ergonomic working posture. **4** Strap rolls are placed in front, making them easy to replace.

- **Vertical door opening**
Perfect for where space is limited
- **Front access to strap rolls**
Fast and easy to replace
- **Two-hand bale ejection**
Automatic and safe operation

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Scan the code and see
a video of our B-series

C.3 – Waste Oil

Info on: Bulk Cooking Oil, Cookers Oil, Cookers Bulk Cooking Oil, Used Cooking Oil, Cooking Oil supplies, Cooking Oil Systems.

Cookers

Bulk Oil System

the future of cooking oils

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oil Management Systems

Retail Solutions

Cookers has developed and enhanced a reliable stainless steel tank system for the storage and handling of your cooking oil and is available to you on a Free Loan basis. All of the equipment supplied by Cookers has been manufactured in Australia.

Our standard fresh oil tank is fully stainless steel and is equipped with an electric pump, food grade hose, filler nozzle and heavy duty castors for ease of movement. The dimensions of this tank are 450mm W x 700 D x 900 H which is equivalent to a standard bench height. This tank has a holding capacity of 180 litres.

There are also other size tanks available to suit different applications and Cookers will also supply custom built tanks if required.


Lifting of drums is eliminated, OH&S is enhanced and stock management is improved.

Cookers also has a number of options when it comes to handling your waste oil.


Our standard waste oil holding tank has the same dimensions as our fresh tank - 450 W x 700 D x 900 H - and holds 200 litres. A larger tank with a capacity of 400 litres is also available.

We now have a new addition to our waste equipment with a Vacuum Waste Tank now available (Patent Pending). Again this tank has identical dimensions to our standard fresh oil tank. Simply wheel the unit up to your fryer, place the hose tip into the fryer and vacuum out the oil in less than 1 minute. This unit will be pumped out by our waste collection truck on its scheduled run.

As you can see the Cookers Bulk Oil System makes the worst job in the kitchen much safer and easier.



Fresh oil storage tanks



Waste oil tanks are compact, clean and easy to use.

Cookers
Bulk Oil System
the future of cooking oils
Phone: 1300 882 299

Site Map

Appendix D Refuse Signage

Refuse Signage Resource

Gold Coast City Council recommended. Free signage is available from the Qld Government site using the link below.

http://www.ehp.qld.gov.au/waste/recycling/awareness_raising_materials_for_public_place_recycling.html

Example bin or wall signage



Example Public Place Signage



Example Oil Storage



Example Safety Signage

Safety Signs are required for refuse discharge and storage rooms / areas and must comply with Australian standards “AS 1319 Safety signs for the occupational environment”. Additional state or local government requirements may also apply. Following are examples of typical signs used around a waste storage area. It should be noted however that an assessment must be completed by a qualified fire and safety consultant, prior to occupancy, to determine the correct signage to be used.

Fire Management



Refuse Room Management

Do not overfill bin



Lid must be closed

