

WASTE MANAGEMENT PLAN

30-40 SANDSPIT ROAD,
COCKLE BAY



PREPARED BY:
KEVIN HEALY
SALES STRATEGIST

12 October 2022



Contents

Executive summary	3
1. Site & development details	4
1.1. Location	4
1.2. Description	4
1.3. Collection Service options	5
2. Refuse & recyclables generation	6
2.1. Volumes calculation	6
2.2. Weekly volumes	6
3. Bin solution	7
3.1. Rationale	7
3.2. Refuse	7
3.3. Organic	7
3.4. Co-mingled recyclables & Cardboard	8
3.5. Bin solution capacity	8
4. Refuse areas	9
4.1. Overview	9
4.2. Capacity	9
4.3. Access	9
4.4. Amenities	10
4.5. Management	11
5. Private collection service specifications	12
5.1. Health & Safety	12
5.2. Truck specifications	12
5.3. Hours of collection	13
5.4. Waste stream treatment	13
5.5. Rubbish Direct bin dimensions	14
6. References	15
7. Appendices	15





Rubbish Direct Limited
PO Box 69 145
Glendene, Auckland 0645
Phone 0800 36 77 35
info@rubbishdirect.co.nz
accounts@rubbishdirect.co.nz
www.rubbishdirect.co.nz

Executive summary

Development type

The development is a multi-unit terrace house and apartment complex

Location

30-40 Sandspit Road, Cockle Bay

Collection service

The developer expects all units will use a private collection service and store shared bins in one refuse management area with approximately 22 m² of storage space.

Bin solution

Shared bins: 3 x 1100 litre mobile bins for refuse, 2 x 240 litre wheelie bins for organic, and 6 x 660 litre mobile bins for co-mingled recyclables and cardboard, all bins to be collected twice per week. The area required to store and manoeuvre these bins is 21.8 m², therefore the space provided is sufficient for the volumes generated.

Access

Access for refuse collection is from Trelawn Place, via the driveway to the refuse area. Collection vehicles will park inside the site.

I confirm that Rubbish Direct can provide all the private collection service requirements recommended in this report.



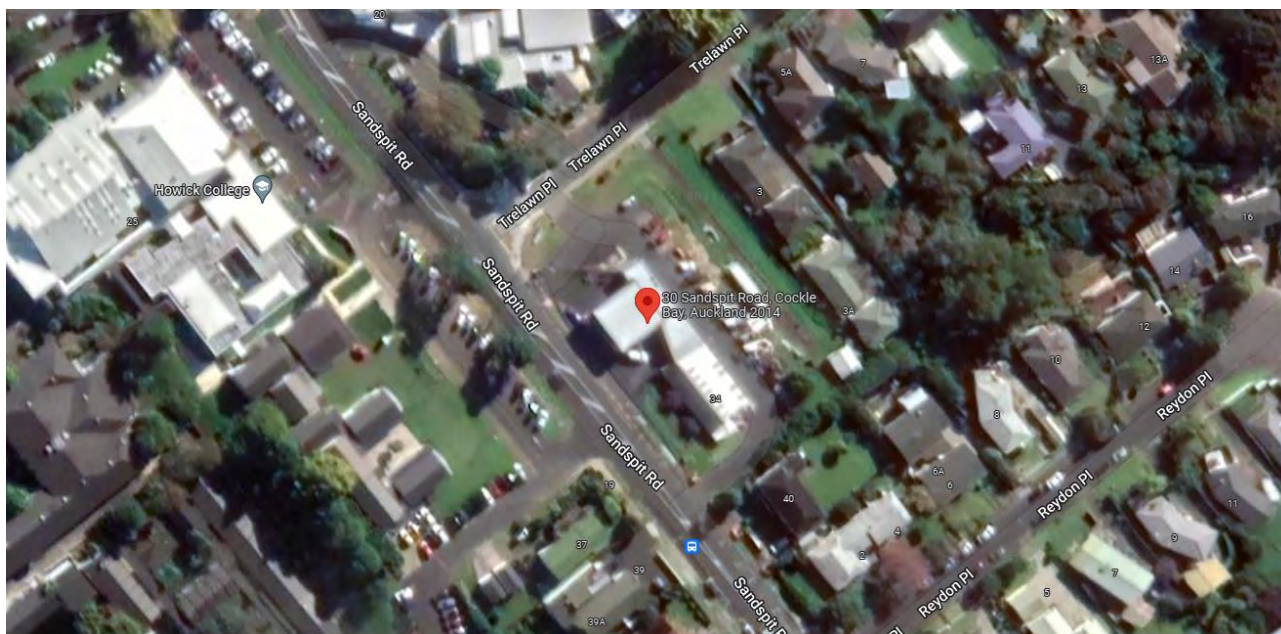
Kevin Healy
Sales Strategist
RUBBISH DIRECT
www.rubbishdirect.co.nz



1. Site & development details

1.1. Location

- This development is located at 30-40 Sandspit Road, Cockle Bay



1.2. Description

- There will be residential accommodation with 12 terrace houses and 58 apartments:

Unit type	Unit quantity	Bedrooms
1-bedroom	13	13
2-bedroom	21	42
3-bedroom	36	108
Totals:	70	163

Residential	Max occupancy:	326 persons
--------------------	----------------	-------------



Rubbish Direct Limited
PO Box 69 145
Glendene, Auckland 0645
Phone 0800 36 77 35
info@rubbishdirect.co.nz
accounts@rubbishdirect.co.nz
www.rubbishdirect.co.nz

1.3. Collection Service options

All Units

- The developer expects the owners will use a private collection service
- Some owners MAY also have the option to use the public kerbside collection service, IF they need or wish to opt-out of the private collection service in future, and IF there is sufficient street frontage on the berm for their bins to be placed for collection
- The owners have the option to choose any collection service that can provide suitable waste collections

For more information, please refer to:

Appendix 1:

- Drawing: RC1.01 – Terrace Houses Upper + Parking





2. Refuse & recyclables generation

2.1. Volumes calculation

Calculation methodology

For this waste management plan (WMP), calculation of expected maximum weekly volumes of refuse and recyclables is based on:

- 100% occupancy
- Residential bedrooms (if any) will be occupied by two persons, unless single beds are specified
- All potential on-site activities that could generate refuse and recyclables are included

The Auckland Council Multi-Unit Waste Space Calculator tool is used for residential per-person generation rates and commercial per-square-metre generation rates, plus the percentage split across refuse, organic, and recycling (co-mingled recyclables + cardboard).

The Rubbish Direct database of recorded recycling volumes is used to give the average percentage split between co-mingled recyclables and cardboard.

2.2. Weekly volumes

Total refuse and recyclables

			Refuse (litres per week)	Recyclables (litres per week)
Residential	Max occupancy:	326 persons	8,215	11,345

Volumes by waste stream

	Volumes (litres per week)
Refuse	8,215
Organic	1,174
Co-mingled	5,594
Cardboard	4,577





Rubbish Direct Limited
PO Box 69 145
Glendene, Auckland 0645
Phone 0800 36 77 35
info@rubbishdirect.co.nz
accounts@rubbishdirect.co.nz
www.rubbishdirect.co.nz

3. Bin solution

3.1. Rationale

These factors have been considered in the bin solution recommendations for this site:

- All bins must be easily manoeuvrable
- All bins must have signage on the bins to show which items can go into the bin type
- Refuse, organic, and co-mingled recycling bins must have lids to exclude vermin and reduce odours
- Refuse, organic, and co-mingled recycling bins must be made of high-grade plastic to ensure they are durable and easy to clean
- Residents will be provided with a small benchtop bin for food scraps which can be emptied into the shared organic bins
- NOTE: the recommended bin solutions are based on the information available at the time of preparation of this report, and are flexible until more information is available following occupation

3.2. Refuse

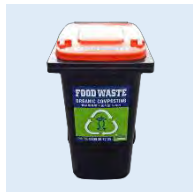


x 3

Shared bins

- 1100 litre mobile bins
- Emptied twice per week
- Weekly volume capacity of 6,600 litres

3.3. Organic



x 2

Shared bins

- 240 litre wheelie bins
- Emptied twice per week
- Weekly volume capacity of 960 litres

- All compostable material, including meat, fish, bones, paper towels, compostable plates & cups





Rubbish Direct Limited
 PO Box 69 145
 Glendene, Auckland 0645
 Phone 0800 36 77 35
 info@rubbishdirect.co.nz
 accounts@rubbishdirect.co.nz
 www.rubbishdirect.co.nz

3.4. Co-mingled recyclables & Cardboard



x 6

Shared bins

- 660 litre mobile bins
- Emptied twice per week
- Weekly volume capacity of 7,920 litres

- Glass, plastic, aluminium, tin, paper, disposable coffee cups

3.5. Bin solution capacity

	Weekly Volumes (max) (litres per week)	Bin capacity Total (litres per week)
Refuse	8,215	6,600
Organic	1,174	960
Co-mingled	5,594	4,356
Cardboard	4,577	3,564





4. Refuse areas

4.1. Overview

All units – private collection

- There will be one shared refuse area
- The refuse area will be shared communally by all residents
- The refuse area will be constructed to comply with NZ Building Code G15 – Solid Waste

4.2. Capacity

- The shared bin solution will provide a capacity of 221 litres per week for each residential unit
- The space required to store the shared bin solution is 21.8 m²
- The total usable space of the shared refuse area will be approx 22 m²
- There will be sufficient space available to provide the waste collection services required, and to temporarily store inorganic items prior to collection

4.3. Access

Pedestrian access

- Residents will access the bin storage areas via the footpaths within their properties

Collection service contractor access

- The truck will enter the site from Trelawn Place and park in the loading bay
- The driver will collect the bins from the refuse area, wheel them to the truck for emptying, and return them to the refuse area
- Access between the refuse area and the collection truck parking location will comply with NZ Building Code D1 – Access Routes
- The truck will complete any reversing manoeuvres within the site, and drive forwards onto Trelawn Place to exit the site
- Any reversing manoeuvres will be minimised for pedestrian safety

For more information, please refer to:

Appendix 1:

- Drawing: RC1.01 – Terrace Houses Upper + Parking





Rubbish Direct Limited
PO Box 69 145
Glendene, Auckland 0645
Phone 0800 36 77 35
info@rubbishdirect.co.nz
accounts@rubbishdirect.co.nz
www.rubbishdirect.co.nz

4.4. Amenities

Noise

- All bins are made of plastic or plastic-sacking materials to reduce the noise of items being placed in the bins, and the noise of the bin lids closing
- All refuse and recyclables collection trucks are rear-loading (short drop from bin to compactor unit) to minimise the noise of items being emptied from full bins into the truck
- All refuse and recyclables collections will be scheduled to take place between the hours of 7:00am and 9:00pm to minimise any noise for sleeping residents

Ventilation

- Ventilation of the shared refuse area will comply with NZ Building Code G4 – Ventilation

Cleaning and maintenance

- The owners will engage a building manager or contractor to provide cleaning and maintenance services for the shared refuse area, and to manage any inorganic items
- Wash-down facilities including a water supply tap and drainage will be provided for the refuse area and bins

Vermin control

- All plastic bins will have close-fitting lids to prevent vermin incursion
- All bins will be emptied at least weekly so waste is not sitting on site for long periods of time

Security

- The shared refuse area is located inside the building
- The building manager or contractor will monitor the refuse area, signs, and bins for any theft or vandalism issues
- The collection service contractor will advise of any damaged or missing bins

Lighting

- All refuse areas must be well lit for night-time use and security

Aesthetics

- The structure of the refuse area will be aesthetically consistent with rest of the development, and will screen bins from the residents' view





Rubbish Direct Limited
PO Box 69 145
Glendene, Auckland 0645
Phone 0800 36 77 35
info@rubbishdirect.co.nz
accounts@rubbishdirect.co.nz
www.rubbishdirect.co.nz

4.5. Management

Transfer from residence to refuse area

- Each unit will have sufficient internal short-term storage space allocated for refuse and recyclables
- Residents will carry full refuse bags or recyclables containers to the bin storage areas, and place or empty them into their bins
- The collection service contractor will transfer the refuse and recyclables to the collection truck as detailed in the Access section above

Awareness

- The shared refuse area will have signage identifying it as a refuse area
- The shared refuse area will have written and pictorial signage identifying the bin types
- All bins will have written and pictorial signage on the bin, clearly identifying the type of refuse or recyclable items that can go into the bin
- The collection service contractor will provide additional educational material about sorting of refuse and recyclables, if requested

Inorganic items

- Residents are entitled to use Auckland Council's annual inorganic waste collection service if their properties are individually rated
- The building manager or contractor will be responsible for arranging this service with Council and communicating the details to residents

Food Scraps

- Residents may be entitled to use Auckland Council's food scraps collection if the council service is suitable for this development and all units are individually rated





5. Private collection service specifications

5.1. Health & Safety

Rubbish Direct will put in place appropriate safety measures while conducting refuse management activities within the complex:

- All Rubbish Direct drivers have been trained in Workplace Health & Safety practices and are issued a Health & Safety handbook
- Rubbish Direct implements any site-specific Health & Safety policies at all sites
- Rubbish Direct will endeavour to avoid servicing the complex at peak times
- All trucks are fitted with reversing cameras
- All trucks are fitted with reversing alerts

For more information, please refer to:

- Appendix 2: Health & Safety Policy
- Appendix 3: ISO 45001 Certification – Occupational Health & Safety

5.2. Truck specifications

Details of the collection vehicles servicing the complex:

Compactor	
Weight	12 tonnes
Length	7.5m
Wheelbase	3.8m
Rear Extension	2.3m
Height	2.7m
Width (truck body only)	2.1m
Width (including mirrors)	2.55m
Driver's door open	3.2m
Turning Circle	17m diameter
Exit Angle Lowest Truck	1.6





Rubbish Direct Limited
 PO Box 69 145
 Glendene, Auckland 0645
 Phone 0800 36 77 35
 info@rubbishdirect.co.nz
 accounts@rubbishdirect.co.nz
 www.rubbishdirect.co.nz

5.3. Hours of collection

Rubbish Direct operates from 3am – 3pm, 7 days per week, so collections can be scheduled to take place before 7:00am if necessary (in non-residential areas). Rubbish Direct is fully operational 365 days per year, so refuse and recyclables will be collected on public holidays.

In residential areas, all refuse and recyclables collections will be scheduled to take place between the hours of 7:00am and 9:00pm.

All refuse and recyclables collections will be scheduled to take place outside of peak traffic hours.

5.4. Waste stream treatment

ISO 14001 accreditation

Rubbish Direct maintains ISO 14001 certification for the environmental aspects and impacts associated with waste management services including waste collection, waste disposal and recycling services.

All recyclable materials are hand-sorted to obtain the highest landfill diversion rates.

Waste Streams	Products to be recycled	Treatment
Cardboard	Cardboard packaging	Hand-sorted at our depot, then sent to Oji Fibre Solutions for product recycling in NZ
Co-mingled recyclables	Glass, plastic, aluminium, tin, paper, disposable coffee cups	Hand-sorted at our depot, then sent to approved processors for product recycling
E-waste	Electronic & computer equipment	Hand-sorted at our depot, then sent to Sims Pacific Metals for product recycling
Food Waste	Meat, fish, bones, paper towels, compostable plates & cups	Hand-sorted at our depot, then sent to Envirofert Ltd for composting
Polystyrene	Polystyrene packaging	Hand-sorted at our depot, then sent to Natural Habitat for product recycling
Metals	Appliances, furniture	Sorted at our depot, then sent to Sims Pacific Metals for recycling in NZ
Refuse	Non-recyclable materials	Residual general waste to landfill – sent directly to Patiki Road transfer station
Secure Paper	Sensitive documentation	Securely stored, then sent to Document Destruction Ltd for certified secure destruction





5.5. Rubbish Direct bin dimensions

All dimensions shown are overall dimensions with lid closed.

	Width	Depth	Height	Style
240 litre wheelie bin: <ul style="list-style-type: none"> • Refuse • Co-mingled recyclables • Organic 	585	740	1,060	
600 litre flexi-sack: <ul style="list-style-type: none"> • Cardboard • Polystyrene 	800	800	1,150	
660 litre mobile bin: <ul style="list-style-type: none"> • Refuse • Co-mingled recyclables 	1,260	780	1,250	
1100 litre mobile bin: <ul style="list-style-type: none"> • Refuse only 	1,270	1,070	1,295	





Rubbish Direct Limited
PO Box 69 145
Glendene, Auckland 0645
Phone 0800 36 77 35
info@rubbishdirect.co.nz
accounts@rubbishdirect.co.nz
www.rubbishdirect.co.nz

6. References

Auckland Council guidelines

- R7 – Residential Design Element – Design for Waste
- Auckland Council Multi-Unit Waste Space Calculator
- Waste Management Steps for Sub-Divisions, Multi-Unit Developments and Apartments

NZ Building Codes

- NZ Building Code D1 – Access Routes
- NZ Building Code G4 – Ventilation
- NZ Building Code G15 – Solid Waste

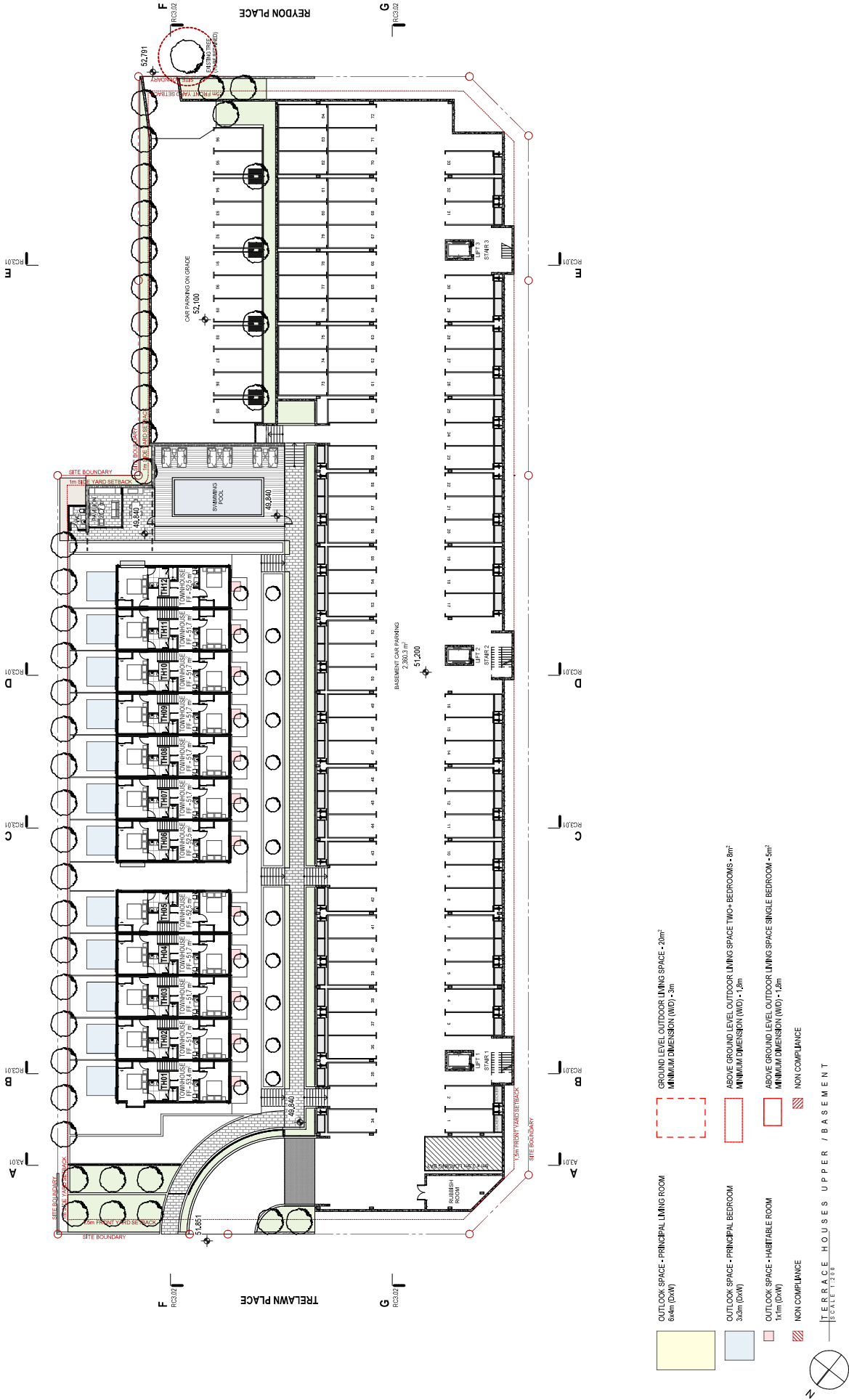
7. Appendices

Appendix 1:	• Drawing: RC1.01 – Terrace Houses Upper + Parking
Appendix 2:	• Health & Safety Policy
Appendix 3:	• ISO 45001 Certification – Occupational Health & Safety
Appendix 4:	• Environmental Policy
Appendix 5:	• ISO 14001 Certification – Environmental Management
Appendix 6:	• General & Products Liability Insurance Certificate
Appendix 7:	• Rubbish Direct Recycling Poster



Appendix 1:

Drawing: RC1.01 – Terrace Houses Upper + Parking



Appendix 2:

Health & Safety Policy



Health & Safety Policy

Rubbish Direct Ltd is committed to providing a safe and healthy environment for all employees, visitors, contractors and others in our workplace. In doing so, we will comply with relevant Health & Safety legislation, codes of practice and industry standards.

Our focus is on sustainable, continuous improvement in Health & Safety performance through making safety a part of everything we do.

Manager's responsibilities

- Ensure the implementation of this policy;
- Orientate and train employees in safe procedures and work practices;
- Consult with employees about changes in the workplace which may affect their health and safety;
- Ensure that the workplace and the means of entering and leaving the workplace are safe;
- Accurately report, record, investigate and take corrective action on all injuries and near miss incidents;
- Support the safe and early return to work of injured employees;
- Maintain an understanding of health and safety management relative to their positions;
- Ensure all scheduled safety and related audits are completed and actioned appropriately;
- Ensure that all practicable steps are taken to eliminate or to control hazards identified in the workplace;
- Put in place procedures for dealing with emergencies that may arise;
- Orientate, monitor and supervise contractors.

Employee's responsibilities

- Report any work-related hazards or unsafe actions you encounter.
- Accurately report any work-related injuries or near miss incidents, no matter how minor, immediately.
- Follow correct procedures and reasonable instructions including wearing personal protective equipment (PPE) when required;
- Ensure their own safety and the safety of anyone else who may be affected by what they do, or do not do, while at work;
- Not intentionally or recklessly interfere with or misuse equipment or any other items supplied at the workplace.

Mark Smith
Managing Director
December 2018

Appendix 3:

**ISO 45001 Certification
Occupational Health & Safety**



This is to certify that

Rubbish Direct Limited

32 Bancroft Crescent Glendene Waitakere New Zealand

having been assessed by Telarc Limited and having been found to operate a health and safety management system conforming to

ISO 45001:2018

is hereby designated

Telarc Registered
for the following goods and services

No. 418

Waste Management services including waste collection, waste disposal and recycling services



Certificate Issued: 27 July 2020

Original Registration: 18 July 2019

Current Registration: 27 July 2020

Expiry Date: 26 July 2023

Chairperson

Chief Executive

David Bone

Philip Cryer



Health & Safety
ISO 45001



Registered by Telarc Limited 626 Great South Road, Ellerslie, Auckland 1051, Private Bag 28901, Remuera, Auckland 1541, Telephone: 64 9 525 0100 Facsimile: 64 9 525 1900 and subject to the Telarc Limited Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, Telarc Limited accepts responsibility only for proven negligence. To verify that this certificate is current please refer to the JAS-ANZ register at www.jas-anz.org/register This certificate and its associated schedules remain the property of Telarc Limited and must be returned if registration is withdrawn.



SCHEDULE TO CERTIFICATE OF REGISTRATION

Registration Number: 418

Certificate Issued: 27 July 2020



Rubbish Direct Limited

Site Details:

Organisation	Address	Suburb	City	
Rubbish Direct Limited - Glendene (12941)				
Rubbish Direct Limited	32 Bancroft Crescent	Glendene	Waitakere	NZ



Scope of Certification:

Waste Management services including waste collection, waste disposal and recycling services



Appendix 4:

Environmental Policy



Environmental Policy

Rubbish Direct is committed to ensuring our products and activities fully support our business sustainability vision of “**meeting the needs of today, without adversely impacting on the environment and the needs of tomorrow**”.

Environmental Activities

To achieve this vision, **Rubbish Direct** will:

1. Ensure that environmental stewardship considerations are included in all business planning and operations.
2. Continually look for opportunities to reduce our clients environmental impact by minimising their waste streams through the promotion of reduce, re-use and recycle.
3. Ensure the prevention of pollution.
4. Comply with relevant environmental laws and codes.
5. Set, implement and review environmental objectives, plans and targets to drive performance improvements.
6. Communicate our performance internally and, where appropriate, to external stakeholders and interested parties.
7. Realise our environmental values by educating and motivating staff, sub-contractors and suppliers to work in an environmentally responsible manner and contribute to the development of new ideas and initiatives.

Mark Smith
Managing Director
December 2018

Appendix 5:

**ISO 14001 Certification
Environmental Management**



This is to certify that

Rubbish Direct Limited

32 Bancroft Crescent Glendene Waitakere New Zealand

having been assessed by Telarc Limited and having been found to operate a
environmental management system conforming to

ISO 14001:2015

is hereby designated

Telarc Registered
for the following goods and services

NO. 210

Waste management services including waste collection, waste disposal and recycling services.

Certificate Issued: 27 July 2020

Current Registration: 27 July 2020

Chairperson

David Bone

Original Registration: 22 December 2011

Expiry Date: 26 July 2023

Chief Executive

Philip Cryer





SCHEDULE TO CERTIFICATE OF REGISTRATION

Registration Number: 210

Certificate Issued: 27 July 2020

Rubbish Direct Limited

Site Details:

Organisation	Address	Suburb	City	
Rubbish Direct Limited - Glendene (12941)				
Rubbish Direct Limited	32 Bancroft Crescent	Glendene	Waitakere	NZ

Scope of certification:

Waste management services including waste collection, waste disposal and recycling services.

Appendix 6:

General & Products Liability Insurance Certificate



CERTIFICATE OF INSURANCE

PrivateEdge

The following Management Liability Insurance has been arranged on behalf of the mentioned Policyholder and is subject always to the terms, conditions, endorsements, exclusions and limitations of the policy.

Policy Holder: Rubbish Direct Limited

Policy Number: PE 001595

Policy Period: 31 August 2022 to 31 August 2023
both days at 4:00pm and subject to annual review thereafter as agreed

Limit of Liability:	Management Liability	\$ 1,000,000	in the aggregate
	General Liability	\$ 10,000,000	each Occurrence
	Products Hazard	\$ 10,000,000	in the aggregate

Insurer AIG Insurance New Zealand Limited

Signed for and on behalf of
AIG Insurance New Zealand Limited



Authorised Person
Issued on 5 September 2022

Appendix 7:

Rubbish Direct Recycling Poster

RECYCLING

回收 • リサイクル • 재생



ALUMINIUM CANS



TIN CANS



GLASS BOTTLES



GLASS JARS



MILK BOTTLES



Please remove
all bottle tops



PLASTIC CONTAINERS



PAPER



FLATTENED CARDBOARD



PLASTIC BOTTLES



Please remove
all bottle tops



NO DRINKING GLASSES



NO CROCKERY



NO PLASTIC BAGS



**RUBBISH
DIRECT**

Reliable.

IMPORTANT

Please do not put your
recycling into bags.
Leave it loose so we
can sort it.

Passionate about Doing the Right Thing

0800 36 77 35