### WASTE MANAGEMENT PLAN

### 3 PIGEON MOUNTAIN ROAD, HALF MOON BAY



PREPARED BY: KEVIN HEALY SALES STRATEGIST

16 May 2024



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### **Executive summary**

### Development type

The development is a multi-unit terrace house subdivision

### Location

3 Pigeon Mountain Road, Half Moon Bay

### Collection services

The developer expects Lots 2-34 & 41-88 will use a private collection service. Lots 2-34 & 48-58 will store individual bins within their properties, and Lots 41-47 & 59-88 will store shared bins in three shared refuse management areas. The developer expects Lots 35-40 will use the public kerbside service, which will be arranged between residents and council.

### Bin solutions

### Lots 2-34 & 48-58

For each residence:  $1 \times 120$  litre wheelie bin for refuse, to be collected once per week, and  $1 \times 240$  litre wheelie bin for co-mingled recyclables and cardboard, to be collected once per fortnight. Space will be provided for a food scraps bin, ready for when this weekly collection service is implemented in future.

### Lots 41-47 & 59-88

Shared bins:  $5 \times 660$  litre mobile bins for refuse,  $3 \times 240$  litre wheelie bins for organic, and  $7 \times 660$  litre mobile bins for co-mingled recyclables and cardboard, all bins to be collected once per week.

### Access

Access for refuse collection is from Compass Point Road, via the JOALs to the shared refuse areas and bin collection points. Collection vehicles will park inside the site. All collections will be scheduled to take place outside of peak traffic hours (0700-0900 and 1600-1800).

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 3 Pigeon Mountain Road, Half Moon Bay



### 1.2. Description

• There will be residential accommodation with 87 terrace houses, of which 81 units are expected to use a private collection service:

Unit type	Unit quantity	Bedrooms
2-bedroom	28	56
3-bedroom	38	114
4-bedroom	15	60
Totals:	81	230

Residential	Max occupancy:	460 persons
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### 1.3. Collection Service options

### Lots 2-34 & 41-88

- 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 adequate waste services

### Lots 35-40

- The developer expects the owners of these units will use the public kerbside collection service
- The owners also have the option to use a private collection service if preferred

### For more information, please refer to:

### Appendix 1:

• Drawing: RA0120 – Proposed Waste Collection Plan







### 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 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

		<b>Refuse</b> (litres per week)	Recyclables (litres per week)	
Residential	Max occupancy:	460 persons	11,592	16,008

### Volumes by waste stream

	<b>Volumes</b> (litres per week)
Refuse	11,592
Organic	1,656
Co-mingled	7,894
Cardboard	6,458







### 3. Bin solution

### 3.1. Rationale

- 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. Individual bin solution

### Refuse



x 44

### Individual bins

- 120 litre wheelie bins
- Emptied once per week
- Weekly volume capacity of 5,280 litres

### Co-mingled recyclables & cardboard



x 44

### Individual bins

- 240 litre wheelie bins
- Emptied once per fortnight
- Weekly volume capacity of 5,280 litres
- Glass, plastic, aluminium, tin, paper, disposable coffee cups







www.rubbishdirect.co.nz

### 3.3. Shared bin solution

### Refuse



x 5

### Shared bins

- 660 litre mobile bins
- Emptied once per week
- Weekly volume capacity of 3,300 litres

### Organic



x 3

### Shared bins

- 240 litre wheelie bins
- Emptied once per week
- Weekly volume capacity of 720 litres

### Co-mingled recyclables & cardboard



x 7

### Shared bins

- 660 litre mobile bins
- Emptied once per week
- Weekly volume capacity of 4,620 litres







### **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. Bin solution capacity

	Weekly Volumes (max) (litres per week)	Bin capacity Individual bins (litres per week)	Bin capacity Shared bins (litres per week)	Bin capacity Total (litres per week)
Refuse	11,592	4,620	3,300	7,920
Organic	1,656	660	720	1,380
Co-mingled	7,894	2,904	2,541	5,445
Cardboard	6,458	2,376	2,079	4,455





### 4. Refuse areas

### 4.1. Overview

### Lots 2-34 & 48-58

- The individual bins will be stored within the property of each unit
- Each unit will have a minimum of 1.4 m<sup>2</sup> of space allocated for bin storage
- Prior to collection days, residents will move full bins to the edge of the JOALs immediately in front of their units for collection

### Lots 41-47 & 59-88

- There will be three shared refuse areas
- The refuse areas will be shared communally by the residents of Lots 41-47 & 59-88
- The refuse areas will be constructed to comply with NZ Building Code G15 Solid Waste

### 4.2. Capacity

- The shared bin solution will provide a capacity of 234 litres per week for each residential unit
- The space required to store the shared bin solution is 24.4 m<sup>2</sup>
- The total usable space of the shared refuse areas will be approx 26 m<sup>2</sup>
- 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 shared refuse areas via the pedestrian walkways within the site

### Carry distance

• All residential units will be within 30 m carry distance of a refuse area







### Collection service contractor access

### Lots 2-34 & 41-88

- The truck will drive forwards into the site from Compass Point Road and park near the refuse areas and bin collection points
- All collections will be scheduled to take place outside peak traffic hours (0700-0900 and 1600-1800)
- The driver will collect the bins from the refuse areas and bin collection points, wheel them to the truck for emptying, and return them to the refuse areas and bin collection points
- Access between the refuse areas and bin collection points and the collection truck parking location will comply with NZ Building Code D1 Access Routes
- The truck will circulate through the site and drive forwards onto Compass Point Road to exit the site

### For more information, please refer to:

### Appendix 1:

• Drawing: RA0120 – Proposed Waste Collection Plan







### 4.4. Amenities

### Noise

- All bins will be 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 will be rear-loading (short drop from bin to compactor unit) to minimise the noise of items being emptied from full bins into the truck

### Ventilation

• Ventilation of the shared refuse areas 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 areas, and to manage any inorganic items
- Wash-down facilities including a water supply tap and drainage will be provided for the refuse areas and bins
- Water supply to the refuse area will comply with NZ Building Code G12 Water Supplies, and drainage from the refuse area will comply with NZ Building Code G13 Foul Water

### Security

- The shared refuse areas will be located within the property, and in view of nearby dwellings
- The building manager or contractor will monitor the refuse areas, 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 will be well lit for night-time use and security

### Vermin control

All plastic bins will have close-fitting lids to prevent vermin incursion

### **Aesthetics**

• The structure of the refuse areas will be aesthetically consistent with rest of the development, and will screen bins from view







### 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 shared refuse areas, and place or empty them into the shared 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 areas will have signage identifying them as refuse areas
- The shared refuse areas 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









### 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.

All refuse and recyclables collections will be scheduled to take place outside of peak traffic hours (0700-0900 and 1600-1800).

### 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







### 5.5. Rubbish Direct bin dimensions

All dimensions shown are overall dimensions with lid closed.

	Width	Depth	Height	Style
<ul><li>240 litre wheelie bin:</li><li>Refuse</li><li>Co-mingled recyclables</li><li>Organic</li></ul>	585	740	1,060	RECYCLING
<ul><li>600 litre flexi-sack:</li><li>Cardboard</li><li>Polystyrene</li></ul>	800	800	1,150	AUBEISH DIRECT
<ul><li>660 litre mobile bin:</li><li>Refuse</li><li>Co-mingled recyclables</li></ul>	1,260	780	1,250	RUBBISH PUBLET DIRECT GLOW CARD 55 77 25
1100 litre mobile bin:  • Refuse only	1,270	1,070	1,295	AUBRIER DISC 35 77 M







### 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 G12 Water Supplies
- NZ Building Code G13 Foul Water
- NZ Building Code G15 Solid Waste

### 7. Appendices

Appendix 1:	Appendix 1: • Drawing: RA0120 – Proposed Waste Collection Plan	
Appendix 2: • Health & Safety Policy		
Appendix 3:	Appendix 3: • ISO 45001 Certification – Occupational Health & Safety	
Appendix 4:	Appendix 4: • Environmental Policy	
Appendix 5:	Appendix 5: • ISO 14001 Certification – Environmental Management	
Appendix 6: • General & Products Liability Insurance Certificate		
Appendix 7:	Rubbish Direct Recycling Poster	





### Appendix 1:

Drawing: RA0120 – Proposed Waste Collection Plan



### Appendix 2:

### Health & Safety Policy

### Appendix A

### Health & Safety Policy Statement



**Rubbish Direct Ltd** is committed to providing a safe and healthy environment for all employees, contractors and visitors 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, continual improvement in Health & Safety performance through making safety a part of everything we do and is one of our core values: Be Safe – look after yourself and watch out for everyone else.

### Rubbish Direct's responsibilities:

- Ensure that the workplace and the means of entering and leaving the workplace are safe and maintain healthy and safe working conditions to prevent work related injuries;
- Induct and train employees in safe procedures and work practices and enforce this through regular supervision;
- Maintain a commitment to consultation and encourage participation of workers and workers' representatives in matters concerning Health and Safety in the workplace;
- Accurately report, record, investigate and take corrective action on all accidents, injuries and near miss incidents to prevent reoccurrences;
- Support the safe and early return to work of injured employees using Return to Work Programs;
- Maintain an understanding of good health and safety practices for all employees relative to their positions;
- Ensure all scheduled safety and related audits are completed and actioned appropriately;
- Ensure that all practicable steps are taken to identify and reduce hazards and risks in the workplace;
- Maintain procedures for dealing with emergencies that may arise;
- Induct and orientate contractors.
- Provide sign in and PPE for all visitors.

### Employee's responsibilities:

- 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;
- Report any work-related hazards or unsafe actions they encounter;
- Accurately report any work-related accidents, injuries or near miss incidents, no matter how minor, immediately;
- Follow correct procedures and reasonable instructions including wearing personal protective equipment (PPE) as required;
- Not intentionally or recklessly interfere with or misuse equipment or any other items supplied at the workplace;

Mark Smith

Managing Director

May 2023

### 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

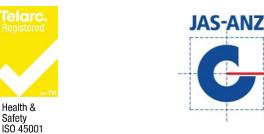


Certificate Issued: 1 June 2023 Original Registration: 18 July 2019 **Current Registration:** 1 June 2023 Expiry Date: 26 July 2026

**Acting Chairperson** Vikki Brannagan

Chief Executive Philip Cryer









**Registered by Telarc Limited** Building 7, Central Park 660-670 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 <a href="www.jas-anz.org/register">www.jas-anz.org/register</a> This certificate and its associated schedules remain the property of Telarc Limited and must be returned if registration is withdrawn.







Registration Number: 418 Certificate Issued: 1 June 2023



### Site Details:

Organisation	Address	Suburb	City	
Rubbish Direct Limited (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 Statement**

Rubbish Direct is committed to ensuring our products and services 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 through all practices.
- 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. Maintain 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.
- 8. Strive for continual improvement in all environmental matters.

Mark Smith Managing Director

### 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

NO. 210

for the following goods and services

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









Certificate Issued: 1 June 2023 Original Registration: 22 December 2011
Current Registration: 1 June 2023 Expiry Date: 26 July 2026

**Acting Chairperson** 

Vikki Brannagan







Chief Executive

Philip Cryer



Registered by Telarc Limited Building 7, Central Park 660-670 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 <a href="https://www.jas-anz.org/register">www.jas-anz.org/register</a>. 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: 210

Certificate Issued: 1 June 2023

### Rubbish Direct Limited



### Site Details:

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



### Scope of certification:

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







### Appendix 6:

### General & Products Liability Insurance Certificate





### **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 2023 to 31 August 2024

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

AIG RE

**Authorised Person** Issued on 12 September 2023

### Appendix 7:

### Rubbish Direct Recycling Poster

# 0800 36 77 35

# Passionate about Doing the Right Thing









**ALUMINIUM CANS** 



**GLASS BOTTLES** 



回校<br />
・<br />
リサイクル<br />
・<br />
耳根<br />
の<br />
は<br />
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**GLASS JARS** 



Please do not put your

IMPORTAN

recycling into bags.

Leave it loose so we

can sort it.

MILK BOTTLES







FLATTENED CARDBOARD

PAPER

PLASTIC CONTAINERS

PLASTIC BOTTLES



**NO CROCKERY** 

**NO DRINKING GLASSES** 

