



2025

Magnetic Island Towards Zero Waste Strategy

Community Consultation and Stakeholder Engagement Report



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TABLE OF CONTENTS

EXECUTIVE SUMMARY.....	6
1. BACKGROUND.....	10
2. METHOD OF COMMUNITY CONSULTATION AND STAKEHOLDER ENGAGEMENT.....	10
2.1 FOCUS GROUPS.....	11
2.2 COMMUNITY AND VISITOR SURVEYS.....	12
2.3 STAKEHOLDER ENGAGEMENT.....	13
3. FOCUS GROUP OUTCOMES.....	14
4. SURVEY RESULTS: HOUSEHOLDS.....	21
4.1 DEMOGRAPHICS.....	21
4.2 WASTE BIN SIZES.....	21
4.3 CURRENT GARDEN AND ORGANICS WASTE MANAGEMENT.....	22
4.4 FUTURE ORGANICS WASTE MANAGEMENT.....	23
4.5 RECYCLING KNOWLEDGE.....	29
4.6 FUTURE OPTIONS.....	29
5. SURVEY RESULTS: VISITORS.....	35
5.1 VISITOR DEMOGRAPHICS.....	35
5.2 VISITOR DURATION ON THE ISLAND.....	35
5.3 VISITOR ACCOMMODATION.....	36
5.4 PREVIOUS VISITS.....	36
5.5 NORMAL PLACE OF RESIDENCE.....	36
5.6 WASTE DISPOSAL.....	37
5.7 WATER REFILL STATIONS.....	37
5.8 MESSAGING AND COMMUNICATIONS.....	38
5.9 PUBLIC-PLACE LITTER BINS.....	40
5.10 RECYCLING.....	40
6. COMMUNITY CONSULTATION – KEY FINDINGS.....	50
6.1 FOCUS GROUP SUMMARY.....	50
6.2 RESIDENT SURVEY RESPONSES SUMMARY.....	52
6.3 VISITOR SURVEY RESPONSE SUMMARY.....	53
7. STAKEHOLDER MEETINGS.....	55
7.1 TOWNSVILLE CITY COUNCIL (TCC).....	55
7.2 ONLINE MEETING WITH TCC AND BOOMERANG ALLIANCE (BA).....	56
7.3 MEETING WITH TRADITIONAL OWNERS.....	57
7.4 BIO REGEN AND HUMISOIL.....	57
7.5 REPAIR CAFÉ CONCEPT.....	57
7.6 TCC WASTE TRANSFER STATION STAFF.....	58
7.7 SCIENTIST/ARCHITECT - SARAH COLE.....	58
7.8 MAGNETIC ISLAND SKIPS - BRETT BARRETT.....	58
APPENDIX A: RESIDENT SURVEY.....	59
APPENDIX B: VISITOR SURVEY.....	63

TABLE OF FIGURES

Figure 1 Word cloud from survey	9
Figure 2: Community focus group posters.....	11
Figure 3: Business focus group poster	12
Figure 4: Survey posters with QR code	13
Figure 5: Knowledge of the availability of variable bin sizes from Council.....	21
Figure 6: Interest in downsizing current waste stream bin	22
Figure 7: Interest in upsizing current waste stream bin	22
Figure 8: Current garden waste management.....	23
Figure 9: Current food waste management.....	23
Figure 10: Future organics service options	24
Figure 11: Support for moving general waste to fortnightly	25
Figure 12: Word cloud of responses	25
Figure 13: Willingness to pay for a new garden organics service and on-island processing	28
Figure 14: Do you need more information on how to recycle better?.....	29
Figure 15: Preferred method of receiving updates and communication from Townsville City Council	29
Figure 16: Word cloud of common words by residents.....	30
Figure 17: Age and gender distribution	35
Figure 18: Visitor duration on the island	35
Figure 19: Types of accommodation used by overnight guests.....	36
Figure 20: Number of previous visits	36
Figure 21: Normal place of residence	36
Figure 22: What happens to waste on MI?.....	37
Figure 23: Did you use a water refill station while on the island?.....	37
Figure 24: Did you know there is a map of water refill station locations on the island?	37
Figure 25: Where did you find out about water refill stations?.....	38
Figure 26: Best ways to communicate with visitors?.....	39
Figure 27: Did you use public litter bins during your stay?.....	40
Figure 28: Did you recycle during your visit?	40
Figure 29: What did you recycle?	41
Figure 30: Where did you recycle?	41
Figure 31: Why did you not recycle?	42
Figure 32: Were recycling bins provided at your accommodation.	42
Figure 33: Was information provided about what you could recycle?.....	43
Figure 34: Was information provided about what you could recycle?.....	43
Figure 35: Would you purchase reusable items from MI outlets?	44
Figure 36: Support for an environmental levy on the ferry ticket.....	45
Figure 37: Reasonable cost (per person/return) for an environmental levy on ferry ticket	45
Figure 38: Word cloud of common words from visitors	46

TABLE OF TABLES

Table 1: Focus group locations and attendees	11
Table 2: Survey locations	12
Table 3: Stakeholder meetings	13
Table 4: Household survey respondents and ABS census data comparison.....	21
Table 5: Comments to 'Other'	24
Table 6: Comments -residents not supportive or unsure of weekly FOGO and fortnightly general waste	26

Table 7: Willingness to pay – other responses	28
Table 8: Rethinking waste responses to options	30
Table 9: Resident thoughts, ideas or comments on how we can improve waste management on MI	30
Table 10: Where did you find out about water refill stations - other responses?.....	38
Table 11: Best ways to communicate environmental messages with visitors – other responses.....	39
Table 12: How much would visitors pay for a range of reusable items?	44
Table 13: Visitor thoughts, ideas and comments on how we can improve waste management on MI....	46

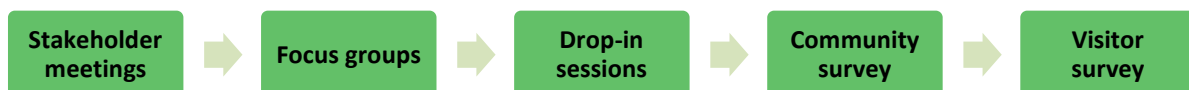
ACRONYMS

APC	APC Waste Consultants
C4C	Containers for Change
DESI	Department Environment Science and Innovation
MI	Magnetic Island
MICDA	Magnetic Island Community Development Association
MINT	Magnetic Island Network for Turtles
MIRRA	Magnetic Island residents and ratepayers Association
TCC	Townsville City Council
TMI	Tourism Magnetic Island
USQ	University of South Queensland

EXECUTIVE SUMMARY

The Magnetic Island Community Development Association (MICDA) has been successful in obtaining a Community Climate Action Grant from the Great Barrier Reef Foundation (GBRF) for a *Towards Net Zero Magnetic Island (Yunbenun) Climate Action Project*. The goal of the grant is to develop a *Towards Net Zero Waste Magnetic Island Waste Strategy* to accelerate community climate action projects by reducing waste and greenhouse gas emissions across households, businesses and the tourism sector.

A key component of the process is to gain an understanding of community, business and other stakeholder views. These views were gained through the following activities:



The ‘Rethinking Waste’ consultation was intentionally held after the peak tourist season, from November 2024, to allow for maximum engagement by Magnetic Island (MI) community members and businesses. Over the course of a week, consultants held nine focus groups attended by 55 interested residents and spoke with 82 residents at 12 stakeholder meetings, including a presentation to more than 50 residents at a monthly meeting of the Residents and Ratepayers’ Association. Over the course of a month, community and visitor surveys were carried out in person and online via a QR code. A total of 456 surveys were completed, with 245 residents completing the household survey and 211 visitors responding to the visitor survey.

The Magnetic Island visitor survey profile revealed that visitors are predominantly either first-timers or had visited more than 10 times, with the majority staying overnight (70%), mostly for 1 to 2 nights, compared to day trippers (30%). Most visitors were from Townsville (47%), international (21%), interstate (16%) or from elsewhere in Queensland (15%). Just over half of all visitors (57%) didn’t know what happened to waste from MI and 9% thought a landfill still existed on the island.

The surveys and focus groups provided an opportunity to explore and discuss current issues and future options based on the results of the waste audit, which provided quantitative data on waste generation and behaviour from households, visitors, commercial hospitality venues and accommodation providers.

The key findings of the consultation and ideas for future improvements in waste management from focus groups, community and visitor surveys have been grouped by themes and are detailed below in alphabetical order.

Current issues and challenges

For Residents

- Bulky garden waste – transport to the transfer station is problematic without a trailer
- Containers 4 Change – collections times vary and often deliveries are refused
- Batteries – confusion about where to recycle these items
- Horseshoe Bay – yachts have no dedicated bins for waste and use public litter bins

- Variable bin sizes – many residents were unaware that variable bin sizes were available, with 55% indicating they could downsize their general waste bin and 18% indicating they would upsize their recycling bin.

For Visitors

- **Recycling information** - Just over half (52%) indicated no information was provided in their accommodation about what could be recycled so visitors relied on prior knowledge and did as they would at home.
- **Recycling bins** - at accommodation venues only 14.5% had recycling bin inside and 13% indicated no recycling provided bins provided or found.

Future waste infrastructure and service improvements identified by community and visitors:

- **Batteries** – The community requested collection bins be provided for battery recycling at Horseshoe Bay, Arcadia and Nelly Bay and at the transfer station to promote ease of access.
- **Behaviour change**
 - **Accommodation** – provide twin bins or similar to promote separation at source
 - **Reuse** – Ban takeaway coffee cups and provide alternatives; promote water refill stations; start glass crushing on island
 - **Single-use** – promote reusables as a souvenir, i.e. branded keep-cup or water bottle
 - **Share-economy options** – general support for Library of Stuff (share library) by households or specific tool library, toy library, repair café, clothing swaps, garage sale trail, community garden and food exchange.

From the survey the following behaviour change options are ranked in descending order of support.

By residents:

1. dedicated recycling boxes for batteries – 77%
2. phasing out single-use plastic cups and containers – 69%
3. more public-place recycling opportunities – 67%
4. see-through marine beach litter bins – 60%
5. food-waste-to-compost facility – 58%
6. Containers 4 Change collection point at Horseshoe Bay – 56%
7. repair café – 52%
8. bulk-food outlet to reduce packaging – 52%
9. share library – 40%.

By visitors:

1. separating food waste at their accommodation – 75%
2. ban on single-use cold drink cups for a reusable cup/cup library – 49%
3. ban on single-use takeaway coffee cups for a reusable – 48%
4. bulk-food outlet - 47%
5. share library 41%.

- **Bins** – To enable generic communication, there is a need for a universal and uniform colour scheme for all waste receptacles on the island. Currently, a number of colour-coding systems exist.

- **Communication**

- **Branding** – a unique brand for the island and its environmental programs with a focus on how Magnetic Island is precious and to respect the island's natural assets
- **Language** – given the significant proportion of international visitors, the use of symbol-based information to communicate with all and in every language was noted as imperative.
- **For visitors** – the best way to communicate information is at the time of booking, on and around the ferries/terminals, through social media/websites and at accommodation premises.
- **For residents** – the preferred communication channels were direct email (36%); hard copy by post (21%); council newsletter (20%); community social media, i.e. Facebook (18%); and Council's social media (5%).

- **Containers for Change (C4C) scheme**

- The community requested more locations on the island to accept containers, for example, at Horseshoe Bay,
- need to establish a permanent location to receive, pay and process containers on the island given a number of issues with opening times of the mobile collection point due to barge movements and tides
- the lack of ability to (periodically) take all containers; and the lack of space/capacity to stockpile until the next collection.
- baskets be installed on the side of the litter bins to capture eligible containers and prevent large volumes of containers being placed in public litter bins
- local charities as beneficiaries work together to share collections and revenues

- **Education**

- **At accommodation premises** – clear instructions, using compendiums, fridge magnets, posters and stickers to communicate what can be recycled, with a specific '**no bin liners**' for recycling bins.
- **Water refill stations** – Almost half of all visitors had seen and/or used a water refill station but disappointingly 81% did not know there was an online map of the water refill station locations.
- **New resident information packs** - for new buyers and renters on MI about waste, weeds, water use and composting. In order to reduce single-use water bottles, visitors need to be reassured that MI water is safe to drink.

- **Organics**

- **Bio Regen** – the current Council-funded/MICDA Bio Regen pilot at Horseshoe Bay should be better supported and funded
- **Food and garden waste** – The introduction of a third bin for food and garden waste (FOGO) is supported by 74% of residents surveyed, with 63% supporting weekly collection of the FOGO bin and a fortnightly general waste bin collection. Key concerns were around odour, vermin, lack of general waste bin space with reduced service frequency, insufficient organic waste to use a FOGO service as organics already managed on site by composting.
- **Bulky green waste** – optional monthly collection of bulky garden waste or palm frond ONLY collection for people with no trailer and/or community mulcher
- **Larger mobile garbage bin** – Needed to handle palm fronds

- **Compost training workshops** – with a subsidy from Townsville City Council (TCC) for the composting bins/worm farms once you attend training to guarantee more successful outcomes
- **Community garden** – strong support for community garden and community information hub with a paid co-ordinator and management plan.
- **Public litter bins** – need for both recycling and litter bins at bus stops to reduce littering
- **Recycling bins** – ferry terminal for arrivals and departures
- **Textiles** – need a recovery program for soiled/old textiles, i.e. Uparel.com.au
- **Waste strategy**
 - **Targets** - The community agreed that the aspirational target nominated in the *Towards Zero Waste Strategy* should be 70% diversion based on the waste audit found 70% of the current general waste stream could be diverted from landfill if residents, commercial accommodation and hospitality venues improved recycling efforts and a FOGO service was introduced
 - **Implementation** – a paid co-ordinator be employed to maintain momentum.
 - **Island to island support** - create a sister-island community around zero waste and sustainability issues to exchange ideas, learnings and information, ie with Lord Howe Island.
- **Willingness to pay**
 - **Residents** - willingness to pay for a third bin for food and garden waste, with 60% indicating support at \$1 per week (29%), \$2 per week (22%), \$5 per week (9%), whereas 32% did not support any increase in charges and 8% stated 'other' (mostly that they did not need a bin as had little to no organic waste).
 - **Visitors** – MI hosts more than 300,000 visitors per year with an expected increase to 400,000 by 2030. TCC has no way of recovering revenue from visitors for managing their waste generation. We surveyed visitors about their views:
 - introduction of an environmental levy added to the ferry ticket price to offset waste-related expenses - 69% indicating support, 18% rejecting the concept and 9% were unsure.
 - price per person per return trip - 41% were willing to pay less than \$2 extra, 33% between \$2 to \$5, 17.5% between \$5 to \$10 and 2% would pay more than \$10.

Figure 1 Word cloud from survey



1. BACKGROUND

The Magnetic Island Community Development Association (MICDA) has been successful in obtaining a Community Climate Action Grant from the Great Barrier Reef Foundation (GBRF) for a *Towards Net Zero Magnetic Island (Yunbenun) Climate Action Project*. The grant will assist in developing a *Towards Zero Waste Magnetic Island Waste Strategy* to accelerate community climate action projects by reducing waste and greenhouse gas emissions across households, businesses and the tourism sector.

MICDA engaged APC Waste Consultants (APC) — industry experts with extensive experience and expertise in island and remote communities — to guide the development of a new waste management strategy. The strategy will provide a clear set of prioritised actions to steer the Magnetic Island community and Townsville City Council (TCC) toward improved waste management outcomes that are politically acceptable, socially responsible, economically viable and environmentally sustainable.

The following summary outlines the tasks APC is performing to develop the new waste strategy:

- Stage 1: Site visit
- Stage 2: Zero Waste (ZW) planning workgroup and stakeholder ID
- Stage 3: Waste audit
- **Stage 4: Community consultation and stakeholder engagement**
- Stage 5: Prepare discussion paper of options
- Stage 6: Community and stakeholder consultation on options
- Stage 7: Prepare and present draft strategy

This report details the method and results for Stage 4 of the project: *Community consultation and stakeholder engagement*.

2. METHOD OF COMMUNITY CONSULTATION AND STAKEHOLDER ENGAGEMENT

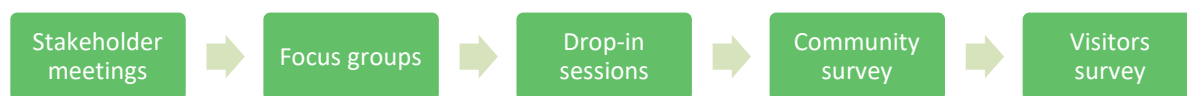
The aim of this phase of the project is to initiate interest and participation by the broader community in future waste management on the island. Any community consultation and stakeholder engagement program should meet the following objectives:



Successful public consultation provides the participants with the necessary facts and information to make informed decisions. We believe it is imperative that all members of the community be involved in the consultation. By developing a multi-pronged consultation strategy, including offering a variety of forums and venues, community members have the opportunity to be heard.

Consultation consisted of a combination of qualitative and quantitative methods to determine community opinion. The mix of elements aimed to capture the widest range of responses from the community in a non-threatening way.

Community views were gained through the following activities:



2.1 Focus groups

Nine focus group meetings were held across the island. These were widely promoted by MICDA using a range of community outreach methods including social media and a letterbox drop. The flyer below details the dates, times and locations and Table 1 shows the attendees at each. A total of 55 community members attended.

Figure 2: Community focus group posters



Table 1: Focus group locations and attendees

Date	Focus group	Time	Location	Attendees
1 Nov 2024	Horseshoe Bay	6.00 pm	Roamers	11
4 Nov 2024	U3A	10.00 am	Arcadia RSL	12
4 Nov 2024	Business	5.30 pm	Arcadia Pub	5
5 Nov 2024	Picnic Bay	10.00 am	Maggie Brewery	2
5 Nov 2024	School P&C	4.00 pm	School	4
6 Nov 2024	Nelly Bay (1)	10.30 am	Amaroo	0
6 Nov 2024	Nelly Bay (2)	6.00 pm	Amaroo	13
7 Nov 2024	Arcadia (1)	10.00 am	RSL	3
7 Nov 2024	Arcadia (2)	6.00 pm	RSL	5
Attendees				55

In addition, a dedicated focus group was arranged for the business community following the Tourism Magnetic Island (the only tourism not-for-profit association on MI) annual general meeting.

Figure 3: Business focus group poster



Participants in the focus groups had lived on the island from less than one year to 42 years. The majority of attendees moved or moved full-time during the COVID-19 pandemic and were passionate about their island home. Business community attendees had been operating on the island for 14 to 30 years.

Groups were led through a PowerPoint presentation providing information and posing questions on key topics. Examples of other case studies were used to illustrate options and opportunities, including community gardens, share/repair cafés, bulk food co-ops and the success of Lord Howe Island waste project. Refer to Section 3 for a summary of the outcomes from the nine focus group meetings.

2.2 Community and visitor surveys

Separate resident and visitor surveys were developed, with specific QR codes provided to assist in downloading. The surveys could then be and completed online or by hard copy.

Tourists and visitors leaving the island were asked to participate in the surveys so they could reflect on their actions and observations. To promote the completion of the surveys, a variety of opportunities to interact with community members and visitors was undertaken, including:

Table 2: Survey locations

Date	Duration	Location
2 Nov 2024	All day	Sealink ferry + terminal
3 Nov 2024	All day	Sealink ferry terminal MI barge terminal
3 Nov 2024	AM	Community market – Horseshoe Bay
Various	Various	Pop-up at various locations

Figure 4: Survey posters with QR code



Results from the resident surveys are provided in section 5 and visitors survey in Section 6. Copies of the survey for residents is provided in Appendix A and the visitor survey at Appendix B.

2.3 Stakeholder engagement

Twelve face-to-face stakeholder meetings were held engaging directly with 82 participants over the course of the week, as detailed in Table 3. Refer to Section 4 for summary notes of these 12 meetings.

Table 3: Stakeholder meetings

Date	Stakeholder	Time	Location/s	No. People
1 Nov 24	Townsville City Council staff – (Hayley Page/Amelia Chaplin)	8.30 am	Rambutan Café	2
2 Nov 24	MIRRA presentation	10 am	RSL	55
2 Nov 24	Traditional owners – Brian and Troy Johnson	1 pm	Amaroo on Mandalay	2
3 Nov 24	MI barge – Jess and Mel	10–11 am	MI Barge + terminal Townsville	2
3 Nov 24	Coles and Woolies truck drivers	pm	MI barge queue	2
4 Nov 24	ZWMI meeting	4 pm	Amaroo on Mandalay	8
5 Nov 24	Bio Regen – Chris Sampson	12 pm	Bio Regen site/Horseshoe Bay	1
5 Nov 24	Repair Cafe – Ricky Esterquest	3 pm	Phone	1
6 Nov 24	TCC Transfer station team	12.30 pm	Transfer station	3
6 Nov 24	Sara Cole/Chris	2.30 pm	Nelly Bay residence	2
7 Nov 24	MI Skips – Brett	7.30 am	Nourish, Horseshoe Bay	2
8 Nov 24	Women's Shed – Angela	9.30 pm	Bakery, Arcadia	2
Attendees				82

3. FOCUS GROUP OUTCOMES

This section combines the outputs from the nine focus group sessions attended by 82 residents who have lived on the island from less than a year to 42 years. Our business owners' workshop was attended by residents owning and operating local businesses from 14 to 30 years. The responses to the key questions asked during the focus group sessions are grouped for ease of interpretation.

Q1: Why is waste important?

- Protect National Park and the environment
- Waste and litter can impact our oceans, marine life and native animals
- Items that must come onto the island, some of this in some form leaves as waste. Should reduce use to prevent and reduce waste
- Reuse is important
- Buy bulk dry foods instead of pre-packaged foods
- Links between organics and carbon emissions is important so benefits in managing organic waste are properly understood
- Need a conversation about methane and impacts
- Primary objective is to keep things out of bins, then the emissions are reduced
- Need to talk avoidance
- Toxic materials and chemicals and managing the impact of these
- Litter near FoodWorks (take-away food including chicken bones) attracts pests and dogs
- No bins at bus stops to collect litter which blows or washes to the ocean
- Understand that mainland is subsidising MI so a win-win for all to reduce waste and costs
- Visitor population 300,000 but expected to grow to 400,000 with waste connected to the visitor population as resident population small
- National advertising campaigns work – but haven't had one for reducing waste
- We use energy to make new stuff when we need to reuse and upcycle existing stuff to reduce energy use
- Plastics made from oil, and we need to stop burning oil
- Is there a plan to limit number of visitors to MI?

Q2: Specific experiences with waste on Yunbenun?

- We compost, including food, for soil improvement
- Garden waste should stay on island
- Green waste bin would be good
- Would like a GO bin collection
- Don't have a trailer for bigger garden waste
- Trailer access is an issue
- Uncertainty about what can be recycled
- No place in Horseshoe Bay for the anchored yachts to dispose of their waste so use litter bins
- Men's Shed activities, e.g. pallet reuse is great
- On MI its appealing to reuse, share, etc. as it's expensive to bring new items over
- Marketplace MI sites really helpful for reuse
- Containers 4 Change – 10-cent container refund scheme
 - Need more permanent locations
 - Need a dedicated fixed address where community paid for on the spot

- Mobile collection points need to accept ALL containers when advertised and not turn community away
- Museum is becoming a bottle dump
- School bins overflowing
- Not enough C4C bins around the island in key spots for donation
- Need a pod at Horseshoe Bay
- Need C4C grant for unit collection
- Basket on the side of the litter bins for CDS material to be donated
- MINT idea – small hole so only containers can fit not rubbish in basket
- 10-cent bins need to be in more places and reliably so and the school system
- Needs a bag – it's not easy for residents, let alone visitors, and at ferry terminal.
- Need one logo for island and all charities – opt-in to collect and share proceeds
- MICDA response – looking at solutions to this problem with APC/TCC. Noting 23,000 containers/week redeemed *but* 800,000 containers per annum or \$80,000 to landfill
- Blister tablet packs will soon be recoverable for recycling at local pharmacy
- Bread tags – what to do with them? Banish and [www.breadtagsforwheelchairs](http://www.breadtagsforwheelchairs.com), Australia
- Water bottles – how to tell visitors the water is safe to drink
- E-bikes – new tender for provider sought so dumped bikes and scooters likely
- Local school makes and sells eco-bags as fundraiser
- Batteries – where to recycle and where has battery bin at FoodWorks gone? We need four (4) community bins for battery recycling at Horseshoe Bay, Arcadia, Nelly Bay and at transfer station. When battery recycling was at the school, school won awards and got money but many in community *will not* save and drive to transfer station. It needs to be local and easy
- E-waste – where to recycle? E-waste information and education needed
- More social media on this issue needed
- Need better communication about what, why and how to recycle these

Q3: How to reduce waste and contamination in recycling bins?

- Clearer instructions
- More information signs on bins
- Sticker on the bins stating: 'These are the top 5 contaminants – please don't include'
- Recycling symbols – have no idea which is which. Thought we were well informed. Need list inside the lid
- All bins need universal signage so all visitors/travellers/locals understand and can use correctly
- Original waste bins on MI are green with green lid so confusing for people.
- Need colours as well as labels.
- Hot stamping of images on the garbage bins.
- In Scandinavia, they colour code the recycling symbols
- We shouldn't assume the visitors are worse than us at recycling – some may be better at it
- What can we do with soft plastics now? We don't know
- Weren't aware that aluminium foil and containers can go into recycling bin
- Can businesses get more frequent commercial recycling collection?
- Is there a standard bin lid colour for C4C containers?
- Some waste bins have dark green or red lids – need consistency
- Need more recycling bins inside accommodation premises to separate at source
- Consistent systems everywhere

- Need a measurable KPI to reduce waste from five (5) barges per fortnight in tonnes and costs
- Shredded paper – what to do?
- Confusion about what can go into recycling and what can't
- Can see palm fronds sticking out of waste bins regularly. Should not be in there. Need green bin
- Soft plastics – what to do?
- Is TCC part of the 'Kerbie' bagged soft plastics in MGBs recovered at some sorting plants?
- Can you recycle long-life milk containers = no
- Can you recycle clear plastic fruit punnets = yes
- Are lids ok in bins? – keep attached to container
- Need message NO BIN LINERS in recycling bins
- Need consistent bin colours so messaging is easier – KISS principle (Keep it simple stupid)
- Animal poo bins on market to bury pet waste in her garden separate to food growing
- Tins – some people think you have to remove the labels off tins to recycle

Q4: Do you know you can upsize or downsize your general waste bin?

- Many didn't know they had options
- Some don't put their bins out unless full, so smaller would be preferable
- If we downsize the red bin, will that offset the cost of the green bin?
- Bin sizes – social media around this with TCC link.

Q5: How should TCC communicate with you?

- Kids in schools and then they nag the parents
- Subscribe to TCC online newsletter – about 6 per year
- There's no longer an island newsletter but there is social media
- Not email – too many already
- Messaging – emails from TCC as some people don't use social media.

Q6: Lord Howe Island aimed for 85% diversion from landfill based on its data and achieved it as an example of world best practice. MI data shows 69–70% of all waste could be diverted. What should MI nominate as its target?

Consensus outcome: Aim for the 70%

Q7. Options, solutions and ideas and what to avoid (grouped by theme)

Organics

- Composting – incredibly valuable
- Need compost bins
- Compost bin subsidy if attend training
- We shred and compost all paper waste
- Need compost workshops – keen to learn but no idea now
- Composting bins/composting training workshops great idea – perhaps a subsidy from TCC for the bins once you attend. Katrina has volunteered about how to teach composting.
- Compost training and bins are a good idea
- Unit dwellers to have community composting on MI.

Bio -Regen

- Bio Regen pilot must be better supported and funded
- Bio Regen limitations – reduced to 100 kg/week = Nourish (60 kg) and a few households (40 kg)
- Bio Regen can be messy when people bring older food waste that is decomposing

Garden bin and/or FOGO

- Definitely need a green-waste bin but option of larger as standard bins not big enough for palm fronds
- FOGO would help manage food waste – can bones and fish be included?
- Kitchen caddies with compostable lining is a great idea
- How to stop IGA/FoodWorks selling non-council-approved bin liners
- Biodegradable plastics are an issue in the tropics as they breakdown
- Would visitors separate food waste out of packaging?
- Organic bin is supported but needs to be linked to growing food/community garden on the island and food security
- We need to educate the community once FOGO bins in place around pet waste and that it cannot go into FOGO because cat and dog faeces have pathogens, chemicals from tick repellents, etc.
- If red/yellow bins still getting it wrong, does adding a third bin (green) make it worse?
- What is the cost for a third bin?
- When FOGO introduced, red bin collection for houses with small children needs an option of weekly if service is changed to fortnightly. Council has to provide an option for exceptions
- Broad support for garden waste/food-waste bin

Bulky green waste

- Monthly collection of bulky garden waste for people with no trailer
- People with a trailer often reach out to neighbours but need a tow bar to deliver to tip
- A community mulcher
- Need a *palm frond only* collection like Townsville, by Barwon Waste @ \$20/collection
- Allow people to use chipper from TCC if they collect it on a trailer from the transfer station and have community use of it. A hard-waste pick-up or community-based chipper. Arcadia Coast Care always uses mulch and finds it hard to source and transport is costly for a not-for-profit group
- Free palm tree removal service on MI as it also doesn't make great mulch in the first place

Community garden

- The community garden group has been going for 16 years. A community survey was positive to creating a community garden and despite efforts nothing has happened. The following sites were identified:
 - Kelly street proposed but rejected by TCC due to asbestos concerns and TCC need to use site.
 - Horseshoe Bay sports ground – area behind but no water, power or toilets so not suitable.
 - Ideally the community really wants a community garden to be co-located at the same place where FOGO processing takes place with a community hub for education, information and fostering community connections.
- Community garden in TCC land or on someone's block of land if no council land
- The community garden needs a paid co-ordinator with a management plan
- Need to support permaculture principles with a dedicated site to teach
- Community gardens should be in each village, with somewhere to dispose of food waste and put it in community garden composting area.

- Community garden could also be a community information hub for education and information for the community
- Like the idea of better-quality local food on island from community garden
- Mulch pile at the transfer station – island needs potting mix/soil so can there be a product made from the mulch. Regen operator said all doable, but cost to scale to make a humi-soil output better than soil or potting mix takes 200 days to produce.
- Need to link to food security

Commercial food waste

Zero Waste business advisor informed that at least three restaurants declared support and would separate their food waste to dispose at a community composting facility for reuse at a community garden. More businesses showed interest as long as their waste is collected from their premises by an employee/volunteer. NB: MICDA advise composting workshops planned March 2025

Packaging

- Visitors throw out so much packaged food waste – can it be reused?
- Could an OzHARVEST model work on MI?
- Understand meat must be on the trays but nuts can be in paper bags – need bulk co-op
- IGA and FoodWorks supplies from centralised warehouse no hope to get a MI special
- Bulk food cooperative: would islanders and visitors use it? Can become a food exchange, but has to be cost competitive. Depends on lifestyle
- Bulk food co-ops been around for 30 years help to reduce and solve the packaging problem

Recycling

- Ferry terminal – no recycling, no cigarette butt bins. First point of arrival – gives them no sense of what the island expects
- There were recycling bins at the ferry terminal but removed by Department of Marine Transport – why?
- Do tourists know what yellow lid bins are? Need stickers with pictures

Reuse

- Reduce in the first place. Ban takeaway coffee cups – price difference between own cup and throw-away cup – or a branded keep-cup from the accommodation
- Markets – rethink – use less. Cup library – is it successful?
- Men's shed involvement in repair café, e.g. chairs
- Share library concept
- Benefits of reuse – tip shop proceeds should stay in the community
- Water refill stations at Nelly Bay - visitors don't know about them
- Food reuse example – block of six units where when visitors check out they leave any leftovers to be re-shared but are there health implications with this? Is it a workable model or a food library?
- Women's shed starting up could be a new opportunity
- Textiles – zero waste bibs made from old fabrics
- Repair café and sewing opportunities
- Glass crushing on island as an aggregate replacement for use in council and non-load bearing civil construction

Textiles

- If clean, can take to Vinnies or Townsville but what about soiled/old textiles? Need solution
- Rag bag would be useful for recycling and reuse on the island, e.g. stinger suits, boomerang type bags, bibs, artwork, plus the goggles and snorkels
- BRAVE Group are reusing stinger suits?
- Sends to a facility in NSW to turn into mattress fillers etc. We need an island facility for this. Upparel.com.au

Transfer station

- Residents disposing of hard waste at the transfer station are charged and this is concerning

Education

- Simple things like making soap and other workshops to change behaviour and have fun
- A flyer from TCC about waste in units
- How to educate international visitors – bin colour issues and messaging
- Victorian bin lids are heat stamped so it's clear which bin is which
- Feel that corporations have responsibilities but lack proper messaging
- Where do people get information from? Facebook and website
- Consistent language and MI-tailored will make it easy for people and relatable
- Need a 'Life Be in It' campaign (the inventor of this was in the room). Need lobbying to get a recycling campaign that engages people and informs them
- Long-term education – schools, if done well
- Adults (especially 25 to 40 years) who cause most of the problem need to be targeted
- Difference between resident and tourist waste types so need to target with separate information
- Make sure clear, symbol-based information to communicate with everyone in every language
- Apps – sharing compost – can find people who need/can donate
- Apps – tell travellers what to do and where to take
- Education package for new buyers on the island around what to plant and right thing in MI regarding weeds, water use, composting
- Community artwork on bins

Visitor accommodation

- Difficult for visitors to find where to dispose of their waste.
- Colour scheme for the bins can be confusing and for visitors
- Cleaners don't want to sort through the bins nor take them away correctly
- Signage is important – on the back of hotel doors, noticeboards, fridge magnets, etc.
- Better information on CDS and bin use
- Common approach, e.g. stickers and bins – to create a 'norm'
- Information in accommodation – telling what, how and why we need more Containers 4 Change bins in accommodation places/units.

Public litter bins

- Bus stops – many don't have any bins or recycling bins available. Residents observed bottles, cans, food scraps around the bus stop, in the bushes, on residents' gardens and in kerbs, which can also get flushed into the waterways.

Tourists and visitors

- Need targeted information on ferries and at accommodation. Reminders in the community that MI is precious, and we need to help keep it that way, so visitors open to behaving differently
- Need reusables to be a souvenir, for example branded keep-cup or water bottle
- The local brewery has had great success with its 'growlers' as souvenirs

Commercial

- Commercial venues should be more responsible
- Create a 'brand' that businesses could be a signatory and partner to

Other

- A paid co-ordinator is a great idea to gather and maintain momentum as volunteers and not-for-profit get burnout
- Grants for community actions have a project life. Need job creation and sustainable projects
- Issues for an ageing population – accommodation and employment options
- Levy on ferry ticket – could go towards the keep-cups
- Develop a brand for the island and its environmental programs
- Establish a Island sister community like Lord Howe around zero waste and sustainability issues. Exchange ideas, learnings and information.

4 SURVEY RESULTS: HOUSEHOLDS

Two hundred and forty-five (245) residents responded to the household waste survey. Details of the demographics of survey respondents and their opinions are in this section.

4.1 Demographics

Based on ABS census data, the overall response rate to the survey was 9.9%. A comparison between the survey participants and the ABS data is provided in Table 4 below.

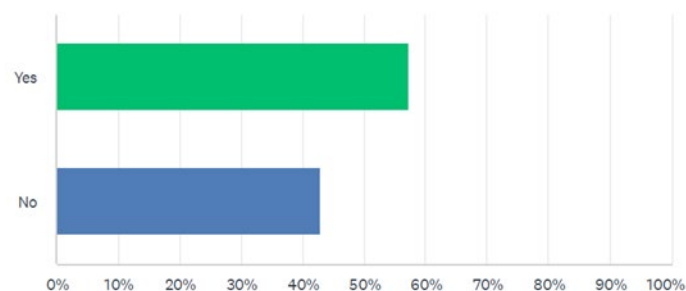
Table 4: Household survey respondents and ABS census data comparison

Criteria	APC Survey		Census 2021	
	Number	%	Number	%
Total people	245		2,475	
Response rate	9.9%			
Female	150	67%	1,207	49%
Male	72	32%	1,265	51%
Other	1			
Median age			58	
55 years and over	157	70%		56.5%
Lone person households		18.5%		36.2%
Owner occupier		84%		72%
Renting		12.5%		26.5%

4.2 Waste bin sizes

4.2.1 Did you know Council provides a range of waste and recycling bin sizes? From 245 responses, 57% said they were aware of different bin sizes and 43% were not aware.

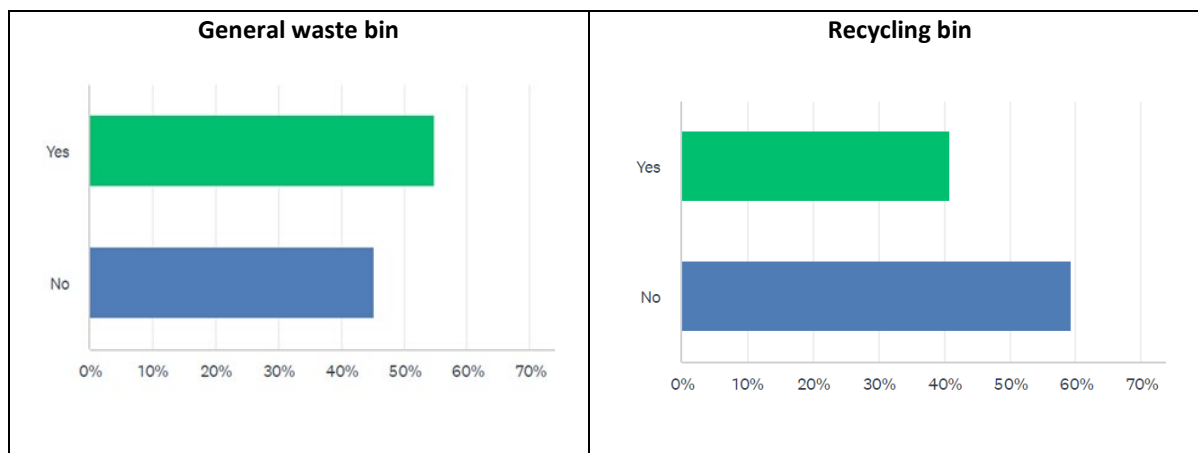
Figure 5: Knowledge of the availability of variable bin sizes from Council



4.2.2. Thinking about your current household waste volumes, could you use a smaller waste bin for a reduced fee?

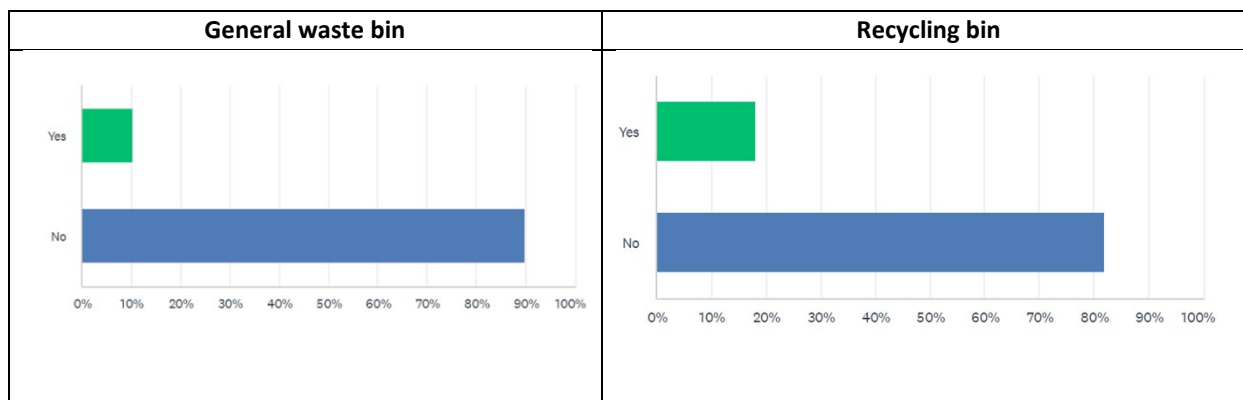
Just over half of respondents (55%) could use a smaller waste bin, while 45% would prefer to stay with a 240-litre bin.

4.2.3 Thinking about your current household waste volumes could you use a smaller bin for recycling? Most respondents (59%) would not want to reduce their recycling bin size, while 41% could.

Figure 6: Interest in downsizing current waste stream bin

4.2.4. Thinking about your current household waste volumes, could you use a larger waste bin for an increased fee? Overwhelmingly, 90% said they wouldn't and didn't need a larger waste bin while 10% expressed an interest in upsizing.

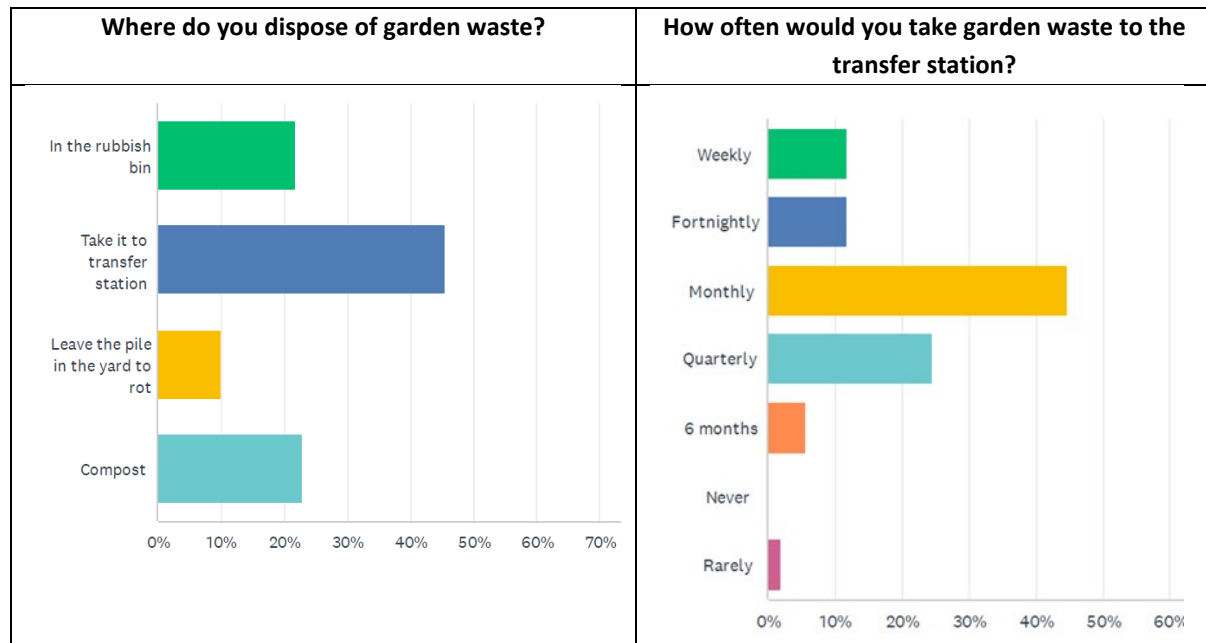
4.2.5 Thinking about your current household waste volumes, could you use a larger recycling bin? Most respondents (82%) would not want to increase their recycling bin size, while 18% indicated a preference for a larger bin.

Figure 7: Interest in upsizing current waste stream bin

4.3 Current garden and organics waste management

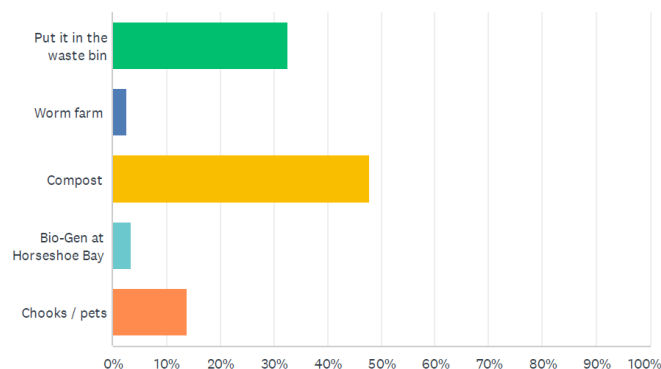
4.3.1 Where do you put your garden waste? Most respondents (45%) said they took garden waste to the transfer station, followed by composting (23%), general waste bin (22%) and left to rot in yard (10%).

4.3.2 How often would you take garden waste to the transfer station? Of the 110 respondent who took garden waste to the transfer station, the majority (40%) did so on a monthly basis, with 24.5% going quarterly, 12% going weekly, 12% going fortnightly, 5% going bi-annually and 2% rarely.

Figure 8: Current garden waste management

4.3.3 Food waste – what do you currently do with food scraps, peelings and leftovers?

A third of respondents, or 33%, put their food waste in their waste bin. The remaining residents self-manage by composting at home (48%), providing to chooks or pets (14%), delivering to Bio Regen at Horseshoe Bay (3%) and home worm farming (2.5%).

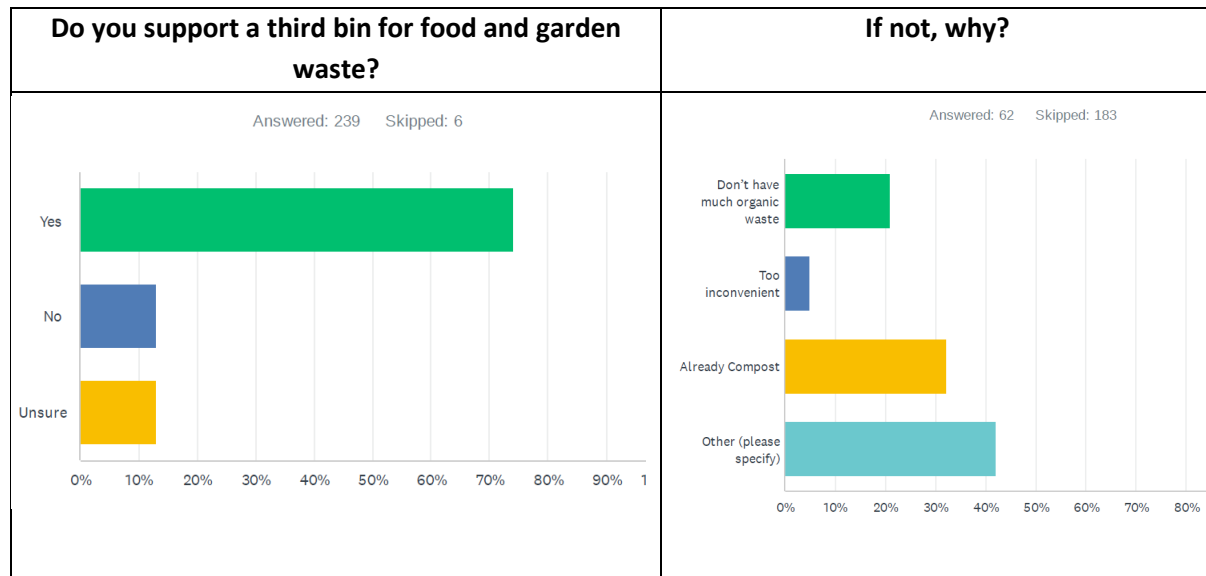
Figure 9: Current food waste management

4.4 Future organics waste management

4.4.1 Do you support Council introducing a third wheelie bin to collect food scraps and garden waste weekly? This would then be processed on the island, reducing greenhouse gas and creating new jobs. The majority of residents (74%) support a third bin for FOGO, while an equal number are unsure (13%) or do not want/need a third bin (13%).

4.4.2 If no or unsure, please say why? 42% stated 'Other' and provided comments, a third (32%) indicated they already composted, 21% indicated they generated very little organic waste and 3% thought it wouldn't be convenient.

Figure 10: Future organics service options



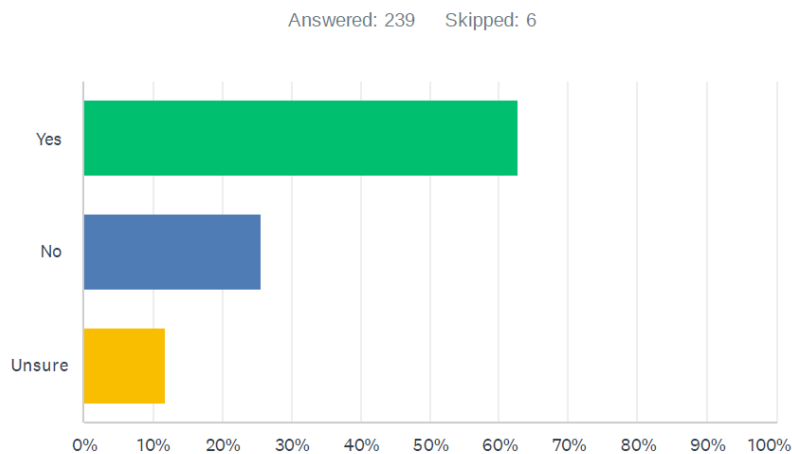
Forty-two per cent (42%) provided comments to support their 'Other' answer (refer Table 5, below), with the main concern relating to cost. Eight respondents indicated responses which could have been added to other options including 'already compost' and 'not enough material'.

Table 5: Comments to 'Other'

Comment	Number
Cost concerns	7
It's not hygienic to store food waste in a bin in this climate for a week. With garden waste, most people jam palm fronds in. This service should be free to stop people using the waste bin for garden waste	1
Don't want to pay more	1
Unsure if it would be logistically or financially worth it	1
Will there be more cost?	1
Costs involved – more details please?	1
I don't need nor want to pay more	1
Hygiene	3
Stinks	1
Putrid	2
Other	3
Storage space issues	1
Existing bin is adequate	1
Restaurants, supermarkets, cafes, etc. would make sense but surely residents don't waste much food	
Live in large complex block – surely it will not be used properly by tenants	1
Would need to be trialled and proven beforehand	1
Unsure	1
Already compost	6
I don't have much organic waste but I do self-manage my garden waste and put food scraps in the waste bin	1
I would prefer to compost and want our block of three units to do this together	1
I compost already and don't want to pay more but if no increase then I would support	1
Already compost	1
Like Bio Regen and compost	2
No or very little organic material	2
Live near NP	1
Apartment block – not much organic material	1
No response	3

4.4.3 Having a weekly food and garden organics (FOGO) service may mean your waste bin is collected fortnightly. Would that be ok? The majority (63%) supported the change, while one-quarter (25%) did not, with 12% unsure.

Figure 11: Support for moving general waste to fortnightly



4.4.4 If 'no' or 'unsure', please tell us why.

The respondents who were not supportive or unsure (37%) had their comments grouped by issue. One hundred (100) comments were received from 79 people as some gave multiple answers. The main concerns revolve around three key issues:

1. Odour
2. Vermin
3. Space constraints in existing general waste bin with fortnightly collection.

The 'Other' category attracted concerns, including the following: stupid idea; want to keep the current system; they already compost; insufficient organics; and concern about dog poo waste sitting in general waste bins for a fortnight in the hot climate. A word cloud of most common responses is shown in Figure 12 and full comments in Table 6.

Figure 12: Word cloud of responses



Table 6: Comments by residents not supportive or unsure of weekly FOGO and fortnightly general waste

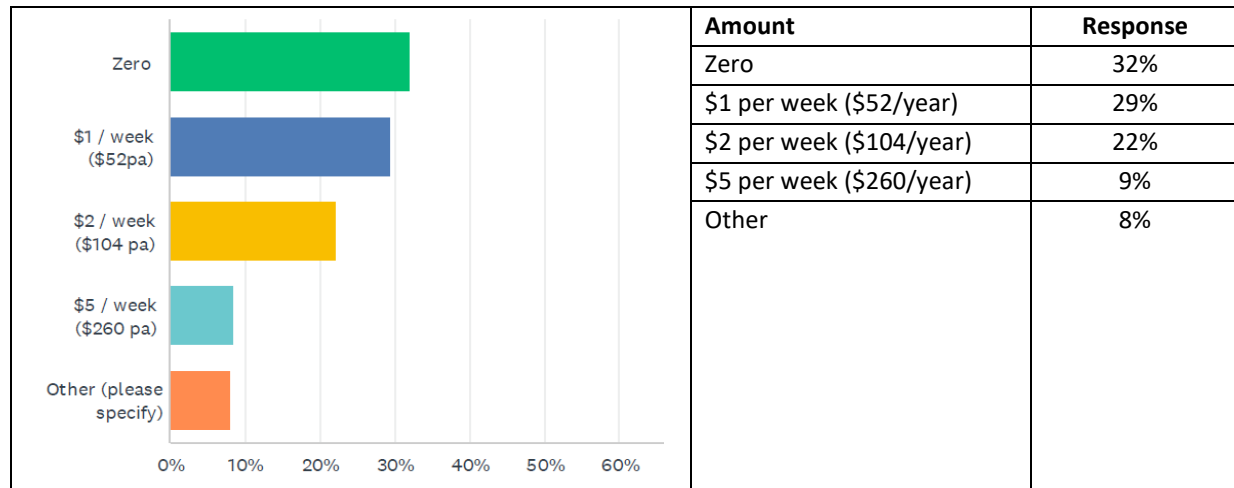
Odour issues	41
Some waste left for two weeks would start to stink, go off, e.g. used sanitary products, nappies	1
Smell	1
Stench – in this heat	1
It could get smelly in two weeks due to the heat	1
Heat over summer might be an issue	1
A fortnightly waste collection in this climate is inappropriate and a very poor trade-off for a garden waste collection, free or otherwise. Rotting general waste sitting in a bin for two weeks in this climate is ridiculous.	1
Food scrap odours after a week in bin would be awful	1
The odour it would give off	1
Smelly	1
Smell	1
Smell	1
Ours are communal bins and waste will be binned from day one. After two weeks it will be slimy and smelly	1
Stinky	1
We live in the tropics, organic waste including meat scraps goes off and smells very quickly	1
Would smell	1
We generate very little general waste but it sometimes includes non-compostable food that can become very smelly. We usually keep it in the fridge until collection day but could not do that for a fortnight. People with pets would also have pet waste in their bins and there is no way should that sit around for a fortnight	1
Live in a block of units, concerned about the smell if not all residents (or cleaners) separated their garbage	1
Not keen on smell	1
Generate too much rubbish that will get smelly and attract flies while waiting for a fortnightly pick-up	1
It's too hot Smells or flyblown is not good	1
Food scraps would need to be kept an extra week, e.g. two to eight days extra, increasing risk of rotting and odours. Not a real problem with weekly pick-ups.	1
I don't like the idea of the waste that's in there being in the heat for two weeks.	1
Live in a block of units and concerned about the smell if not all residents (or cleaners) separated their garbage	1
Not keen on smell.	1
Generate too much rubbish that will get smelly	1
It's too hot. Smells or flyblown is not good	1
Food scraps would need to be kept an extra week, e.g. two to eight days extra, increasing risk of rotting and odours. Not a real problem with weekly pick-ups.	1
I don't like the idea of the waste that's in there being in the heat for two weeks.	1
It's a stupid idea	1
Elderly with incontinence issues	1
Too long for food scraps	1
Where would dog poo go? I currently bag it and bin it. It's apparently not good for the garden. This is in my wheelie bin and I don't think it could last 2 weeks.	1
Waste already smells in this climate over seven days. I do not want meat scraps and smelly rubbish sitting outside my house for two weeks.	1
In this climate I think it needs to be weekly, especially as people are putting dog poo in the bin	1
Waste would putrefy	1
It's likely to get pretty manky by two weeks	1
Smells from rotting	1
Just thinking about the odour in such a hot climate	1
The heat in summer causes issues	1
Odour	1
Vermin	18
Maggots in warmer conditions	1
Maggots and smell	1
Smell, flies, rats	1
We live in the tropics, organic waste, including meat scraps goes off and smells very quickly	1
There is also the issue of maggots in the bins, which I wouldn't like to think of letting go for two weeks at a time	1
I am concerned about maggots if not collected weekly	1
It will create a breeding ground for maggots	1
In summer I think it's really important that bins being collected weekly for health safety reasons (flies, maggots)	1
Vermin	1
Maggots	1
Would attract flies	1

Maggots	1
Waste seafood and meat is especially rank and prone to vermin of all sorts, lid or not on a bin	1
Attract flies while waiting for a fortnightly pick-up	1
Maggots, flies, etc.	1
Attract flies while waiting for a fortnightly pick-up	1
It's too hot. Smells or flyblown is not good	1
Potential for maggots	
Space constraints in existing bin	18
In a week my bin is nearly full as it is. Could not wait a fortnight.	1
Still have plenty of other waste	1
Builds up quickly	1
Friends frequently stay for a week at a time so volume of waste generated fluctuates	1
We have 5 people in our household so the bins are always full.	1
We don't put organics in our waste bin but it's pretty full	1
We are a big household and our weekly waste bin is already overflowing	1
We have a big family of 8 people and would prefer a weekly red and green bin collection please	1
We live in units and have no say on bin sizes so having a reduced red bin collection would be a problem even with a green bin	1
We are in units and don't have a say on our bin sizes. Having less red bin collections would be a problem as we share bins	1
I have a lot of garden waste on a double block and generally fill at least one bin weekly	1
Bin is full at end of week and I don't want another bin in my garden	1
Wouldn't have room for waste by a fortnight some weeks	1
Because at times we have family come to visit, sometimes 6 at a time. They may create waste that needs picking up more than once a fortnight	1
Need bins collected regularly for large complex	1
Family of 5. Our general waste bin is already full every week. Less collections don't solve a problem. All our edible waste is already composted and/or given to chooks.	1
We already freeze food scraps and bones to prevent blowflies and maggots. Space in freezer is at a premium.	1
Large family	1
Other	22
Is the food waste to go unwrapped into the bin?	1
Depends on what waste is going into the FOGO bin	1
Prefer weekly	1
Not sure how it would impact me	1
I am at Bright Point and we have designated 240-litre waste and recycling bins. I don't feel I have an opinion in what bins we are assigned – it's the decision of the complex	1
We're building 2 x 2-bedroom cabins. No-one is yet living there. We like the idea of a reduced waste collection but not sure how the Airbnb guests would use the system. We would happily provide clear instructions but still have doubts	1
With the large number of tourists in rental houses and apartments, one assumes they are not going to bother much with sorting their waste	1
I selected no because it's only 2 people living in our house and we don't have much rubbish. All our food waste is used as compost and for chooks. I think we are OK with the current bin days and sizes of bins too.	1
In Q4 and Q6, I put all organics either in compost or the general waste bin	1
We compost our green waste at home	1
My waste goes to compost	1
In Q4 and Q6, I put all organics either in compost or the general waste bin	1
I compost all green waste and food scraps, so no need for an extra bin or for that to be picked up weekly	1
Do not live full time on Magnetic Island	1
I like the service just the way it is – thanks	1
No need	1
Distrust of council	1
One bin in our block of 6 units would work (unsure if this response is about the red or green waste bin)	1
Weekly	1
The discipline of the resident is in question. Awareness should be introduced with flyers about waste separation	1
Fortnightly collection is a terrible idea	1
Adding bins adds options to be unorganised. Extra expense, will benefit the oil and plastics industry and not help environmental issues. Education wins for best practice	1
Cost	1
Reducing services should result in a reduction in our rates. If charges remain the same and you keep taking the same amount of our dollars, then please continue to provide the service	
No response	2
Total	100

4.4.5 Willingness to pay

The new green organics bin, collection service and on-island processing will incur an additional cost. How much are you willing to pay for this new service? A third of residents (32%) do not want to pay extra for the service whereas 29% will pay \$1 per week and 22% will pay up to \$2 per week.

Figure 13: Willingness to pay for a new garden organics service and on-island processing



Of the 'Other' feedback, almost 50% had a strong reluctance to pay more and a quarter (26%) felt they had no use for the service because they composted or had only a small amount of organic waste.

Table 7: Willingness to pay – other responses

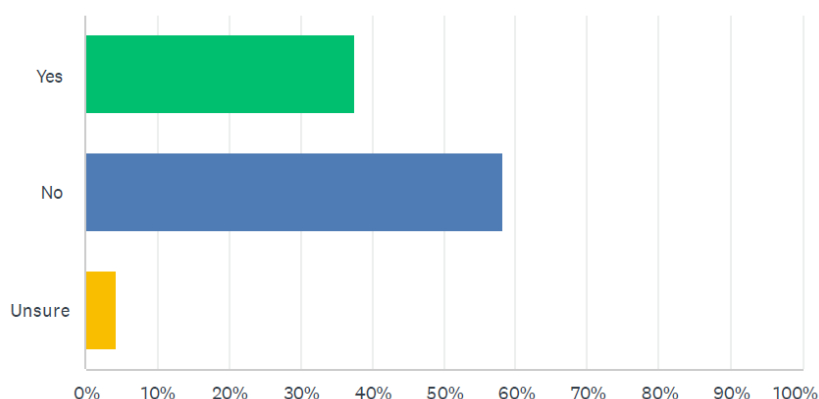
Other feedback
Pay nothing, recycling should be free
Already pay \$12,000+ in rates
Shouldn't have to pay extra for this service, considering current rates. Mainland has this service already
Whatever it costs
It's a nice idea but I can't afford any increase in my rates/taxes right now
We should not have to pay for this service
Would prefer status quo if the change has a cost
As I have little waste, I don't want to pay more
Saves Council money
Council will make money on green waste
Don't need this service – should be opt-in, opt-out
I don't think I would use the service but happy to support it in some way
Complex of 100 apartments so we may be able to pay more with some agreement from the owners
Don't need extra bins
Not a ratepayer
I use the green waste facility so a bin for me is unnecessary. So many people pile up their palm fronds. I can't see them cutting them into bin-size pieces
I don't need a green bin as I use my green waste
It still currently goes to landfill and it will not reduce impact
I process most of my own green waste and food scraps

4.5 Recycling knowledge

A recent study on MI showed 14% of household waste bins contain recycling and 10% of recycling bins contain waste.

4.5.1 Do you need more information on how to recycle better? The majority (58%) felt they knew how to recycle while 38% would like more information and 4% were unsure.

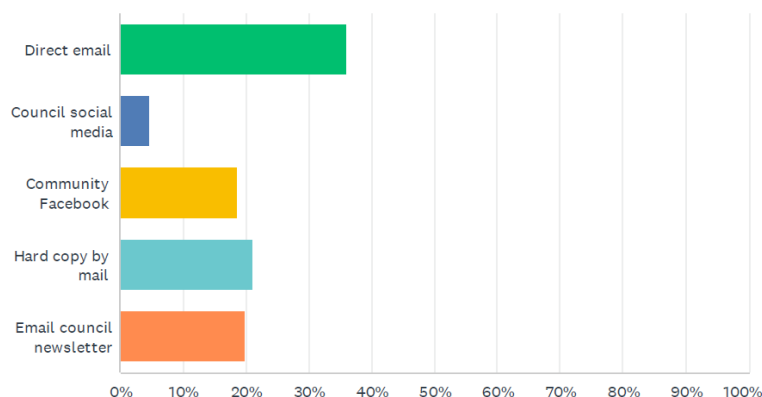
Figure 14: Do you need more information on how to recycle better?



4.5.2 Preferred method of receiving updates and communication from Council?

A direct email from Council was the most popular response (36%), followed by hard-copy mail (21%), Council-emailed newsletter (20%) and social media via community Facebook (18%). Five per cent (5%) nominated Council social media.

Figure 15: Preferred method of receiving updates and communication from Townsville City Council



4.6 Future options

The survey also put forward a range of ideas for future waste management to ascertain what solutions resonated with the community members.

4.6.1 Rethinking waste

Nine waste-related activities were put forward to gauge the level of community support. Each option was rated on a scale from 1 (low support) to 5 (most supported or preferred). In total, 228 responses were received for each of the nine options. Table 8 below presents the options ranked from the highest preferred score (providing special recycling boxes, at 77%) to lowest score (share library, at 40%). Interestingly, the highest score on every option was in the most preferred category.

Table 8: Rethinking waste responses to options

Options	Preference rating by %					Total %
	1	2	3	4	5	
Special recycling boxes, e.g batteries	6	2	6.5	8	77	100%
Cessation of single-use cups and plastic containers	9	2	11	9	69	100%
More public-place recycling	9	1	9	13	67	100%
Clear marine litter beach bins for litter clean-ups	13	4.5	13	9	60	100%
Compost facility	12	4	12	13	58	100%
Horseshoe Bay Containers 4 Change point	23.5	2	10	8	56.5	100%
Repair café	13.5	8	12	14	52.5	100%
Bulk food outlet	17	3.5	16	12	52	100%
Share library	27	5.6	14	13.5	39.5	100%

4.6.2 Do you have any other thoughts, ideas or comments on how we can improve waste management on MI? These responses are provided in Table 9 and are unedited but grouped by themes. A word cloud based on common words used is provided in Figure X below.

Figure 16: Word cloud of common words by residents



Table 9: Resident thoughts, ideas or comments on how we can improve waste management on MI

Communications
Send updates, particularly successes, to encourage us to keep conscious of positives to do with waste
Miss the use of a non-biased local hard-copy newsletter that is reflective of the island community. Believe cost to produce was an issue but would be a great community information initiative
Education
Increase education
Education awareness a big part
Education
Educational sheet on what all the plastic numbers mean and what can actually be recycled. Can a plastic box (hard-moulded plastic) be recycled? If I don't know, I doubt most people would
An effective advertising campaign. Perhaps someone from the island would like the (paid) job.

Keep promoting on Sealink screens, preferably in a humorous vein so it will be watched and talked about.
More information should be on the ferries and at the terminal
Flyers about MI waste management info at the Sealink office. PDF format to share on social media
Info stickers for yellow bins for holiday accommodation. Info on what to do with electronic waste
Detailed information about what can and can't be recycled in the yellow recycling bins would be good, preferably in sticker form so it can be stuck on a bin. For example, I'm not sure whether I should or shouldn't remove bottle tops.
Clear bin stickers
We need clear stickers on all the bins that are user friendly for all languages so tourists are engaged too
Better bin stickers would be great
Would like clear stickers on the bins about what can be recycled
Would love some signage to put inside bin lids. I have currently made my own signs but more professional ones would be good. Especially around bio cups, etc. that can't go into our recycling bins.
I'd like to see more education on the benefits of intelligent waste management. Also more signs on the island encouraging recycling and waste management
Diagrammatic signs/impressions for public education
Frequent flyers to letter boxes and Facebook info with snippets about recycling, e.g. whether you need to remove stickers from glass jars, whether jar and bottle lids can be recycled, whether mixed items (e.g. glass bottle with plastic nozzle) can be recycled, how clean they need to be, etc.
A lot of our BnB visitors are from interstate where recycling rules are different. For example, TCC recycling you must take the lids off bottles whereas NSW you have to keep lids on. Different centres have different rules and so my recycling bin is always full of wrong things which I have to go through every week.
I don't need education about recycling better, but the community does
The plastic recycling triangles confuse many people
More education on what can and can't be recycled
A recycling campaign to educate general public about recycling
E-waste education is greatly needed, including safe battery disposal
Incentives
I think bin inspectors should be employed to give each house a star rating for the best sorted bins. People then get rate cuts for having a higher score
Charges/rates
Stop charging for recycling, fees keep going up
I don't mind my taxes going towards the environment but not happy to pay higher rates
Compliance
More patrolling and fines for people who allow their dogs all over beaches, like the guy at Horseshoe who regularly exercises his dog from his tinnie and never pulls into shore to pick-up after his dog
Litter
Prominent signage for smokers to cease throwing butts on the ground, e.g. outside QC Bank, around coffee cart and on the beach around Nomads and grassed area in front of Horseshoe Bay shops
More regular gutter/drain clearing, including at the ferry carpark on mainland. Always cigarette butts
Bus stops need litter prevention messaging
Litter from the topless cars is a big problem, especially on Horseshoe Bay Road, which needs a roadside litter clean-up by Council or if volunteers support so they are safely doing it with traffic, etc.
Maybe run a 'Clean-up Magnetic Island' annual event and educate people while participating in a fun community event, e.g. about microplastics, fishing line and turtles.
Ban balloons on the island (I recently rescued one floating in Geoffrey Bay)
Dogs
Compostable dog poo bags at Horseshoe Bay/other bays
Pet waste management strategy is required before green waste bin is provided (don't want animal waste incorporated into FOGO due to pathogens and chemicals from vet treatments)
Bins/infrastructure/collection services
Storage and/or bins at the end of Gabbie Way (no detail in the response of what the bins/storage is for)
Happy to take a smaller waste bin when recovery of soft plastics recommences
Third bin is a great idea
We need a green waste bin, which would stop huge amounts being transported to the mainland, which would lower costs

The idea of an additional bin that costs more to users does not suit everyone. We have a chipper and large compost bins. We wouldn't need or use a garden or organics bin. Reducing general waste collection to fortnightly would just mean we need an additional bin and doesn't reduce waste
We would prefer a weekly recycling collection
Consistent bin colours
Having general waste in a bin for two weeks in the NQ climate would increase smell and attract vermin
We did consider a smaller waste bin
Happy with existing size bins but welcome a green waste bin
We are a big family with over 8 people and our waste bin is always full
I would be ok with a smaller waste bin, but not less frequent collections
Labelling on bins to clarify what goes where. Separate public bins for 10 cents recycle containers
Special bins for 10 cent bottles that anyone can take to fund raise
Public-place bins
Install recycling and waste bins close to every bus stop, clearly in line of sight
Recycling bins at the ferry terminal and all bus stops
Separate bins/boxes for 10 cent recyclables, as you suggest, are very important. So many people throw them away.
We need more public recycling bins
I'd like to see more recycling bins across the island, e.g. bus stops
Providing bins at most or every bus stop
I like the idea of more bins at the beaches but not clear see-through bins
More public recycling bins are needed at Horseshoe Bay
Visitors and tourism
Increase education and encourage compliance by visitors
Work with large accommodation providers, who must be large producers of wrongly sorted waste and recycling
Visitor education – does a visitor from overseas understand what can be recycled and what the different bin lids mean?
Make it easier for holiday/short-term renters to recycle, separate 10 cent CDS and FOGO by owners providing bins
Apartments/MUDs (multi-unit dwellings)
Giving out brief summaries and back-up of bins and disposal units at the major apartment blocks
Special needs
Contact NDIS providers and other island carers on what waste is being generated. From these participants, it would be low. Outfitting of their homes with alternative suitable waste management tools
Tip shop
Promote dump shop run by Sue more widely
Longer hours and more days at the tip
Freecycle is an online site for sharing unwanted items, e.g. Trash & Treasure posts for the Island to continue. FREE Tip Days regularly throughout the year. Reducing need for ugly kerbside collections.
Organics
Community gardens in each neighbourhood with built-in compost bins that are accessible for residents
Would love to support better recycling and a compost station where food and garden waste is composted and our community could use it for growing food. This would be amazing.
Community garden
Composting workshops and community gardens with community composting facilities
Community mulching depots
Both compost food waste and give scraps to chooks and pets
Also compost garden waste
Bins – community compost processing
Perhaps the Men's Shed could make worm farms to sell at a reasonable price to residents – remove the need for a food scraps collection?
Provide mini/community composters
*Mulcher-to-you service?
*Community gardeners cooperative/joint working bees/labour exchange
*Community planting days, with local native species supplied free or at minimal cost
*Subsidised mulch/Humisoil/XLR8 deliveries
*Home-grown produce swap days
*Best practice for living in harmony with ALL of the island natives

*Reduce the amount of palms/palm fronds. Replace with suitable natives – whole-of-island approach
Would love a compost workshop and happy for Maggie Brewery to help and use our space
Love bulky waste collection, annual green-waste collection and that it's free also to drop off at the transfer station
We are 2 houses on the one site of 3 people who have virtually no garden waste as we live abreast the national park and use it as our garden
We live in a tiny house and don't generate garden waste yet – it's only dirt
I use a bokashi bin in my kitchen for composting food scraps
Would be great to get an interim solution for food waste prior to the FOGO
Bio Regen upscaled
Special wastes
Multiple battery recycling drop-off points across the island – one in every bay, at minimum
Bins – C4C and for batteries
It would be good for more island charities to get the C4C revenue
C4C bins need bigger slots
Men's shed collect 10-cent containers
Like that the turtle project gets the C4C revenue
10-cent containers bins beside every recycling bin in public spaces, indicating which community group will benefit from it; a set of waste, recycling and 10-cent containers at every bus stop
E-waste education is greatly needed, including safe battery disposal
Textiles
A clothing recycling bin on the island for items that are not suitable for an op shop, e.g. socks with holes
A shoe recycling bin (certain shoes, e.g. sneakers, can be recycled, even with holes)
Building waste (C&D)
Industrial businesses such, as building industries, create much waste. Are they responsibly handling this?
Picnic Bay transfer station to take waste wood for free. There must be lots of timber waste from builders and renovators that end up in general waste.
Building material community co-op for reuse and not disposal
Businesses (C&I)
Think most businesses do the right thing anyway.
Most vendors are very proactive on their waste management
Include extra recycling bins and collection from local businesses. Bins that businesses can use inside their premises e.g. food-scrap bins in restaurant kitchens, paper bins in health services and the school. Cleaners/business owners/staff do not like double-handling waste and/or then having to remove it or drive to the Bio Regen for food scraps. I think the key is in the service. People naturally move to change if it does not affect demands on their time.
Reduce the profits being made by private companies by taking packaging off items being delivered before retail goods are shipped.
Post office, supermarkets and other shops need to be brought onboard as well as MI transport and the courier service
Plastic
Stop island supermarkets and convenience stores wrapping everything in plastic
Ensure no plastic bags at checkouts – only paper. Encourage people to BYO bags
Ban plastic water bottles for sale
Ban single-use containers
Soft plastics can be recycled through Curby. It's available through the yellow bin service if Townsville Council has the program. Information can be found on www.curbyit.com . Implemented on NSW Central Coast, there is a CURBY app
Soft plastic (when it comes in)
Confusion about soft plastics needs to be addressed
75% of my rubbish is soft plastics. I cannot believe something isn't being done by the government to provide recycling for soft plastics.
Reinventing waste ideas
I like the idea of a bulk food/co-op, but I've often found them too expensive. They have to be priced the same as the usual stores or less to be effective.
Co-op for bulk containers and we bring containers to fill up
Stores encouraged to let people use their own containers, e.g. in deli sections of supermarkets, making sure containers are weighed properly so not overcharged.
Perhaps a Maggie Facebook community group specifically discussing eco stuff, e.g. recommendations about eco products that are confirmed as not being part of green washing

Stalls where people can place their excess produce from their garden
Like the idea of a compost workshop, share library
I think having a paid co-ordinator for the share library and tip shop are important jobs for our island
Like the mug library idea
We wouldn't use a share library as we have lots of stuff already
Single-use coffee cups don't affect me
Ban or strongly discourage visitors and residents to use single-use coffee cups and water bottles
Repair, mend and tools library – they all seem so linked to the men's shed! Or maybe our new women's shed?
Discount for people bringing their own cup to coffee vendors
General
Better to focus on where the biggest gains can be made for relatively less resource
It's fine the way it is
Q19 Is ambiguous – do you take your rubbish or use the see-through bins provided?
Do a study on Kimbriki tip Terrey Hills NSW and see how to make money from waste
Community shared spaces (bay by bay)
Involved with the school community also – our kindy had specialised recycling which fell over during COVID and hasn't recommenced
Somewhat difficult to answer some questions as we receive no waste services at Bolger Bay
Yes, process waste on island before taking it to landfill, i.e. compost facility that waste goes into first, shredding of all waste that's plastics, food, glass and concrete. Recycling is hard work but results in low use of landfills and transport costs of getting there
This solution only allows access to a portion of the island. Don't force a change and cost on people for who it will be of no benefit.
Am very self-sufficient and don't generate much waste
Gratitude/recognition
Thank you so much Aniko, Adriana and Anne for organising the important part of our island's future
This should not just be for MI but the whole of Australia – maybe the world
Great ideas in this survey
This survey is wonderful
Get rid of MICDA
Big call out for amazing Sue at the transfer station. She does a great job at identifying items that can be reused via the tip shop

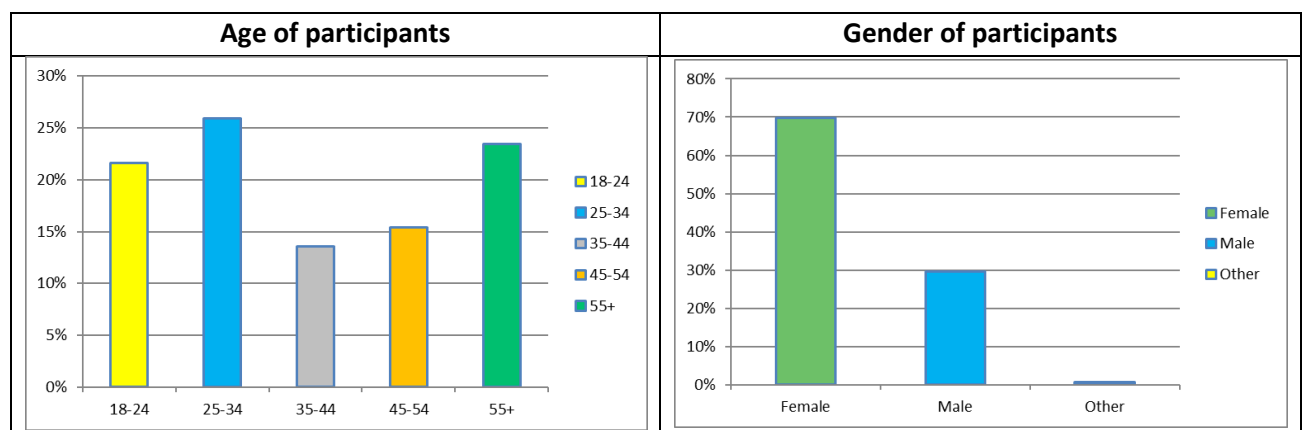
5. SURVEY RESULTS: VISITORS

Two hundred and eleven (211) visitors responded to the waste survey. The demographics of survey respondents and their opinions are detailed in this section.

5.1 Visitor demographics

The age distribution and gender of the 162 respondents to the survey are detailed in Figure 13. Visitors aged 18–24 years made up 21.5% of participants; those aged 25–34 years comprised 26%; 35–44 years was 14.5%; 45–54 years was 15.5%; and 55 years and over at 23.5%. Seventy per cent of respondents (70%) were female and 30% were male.

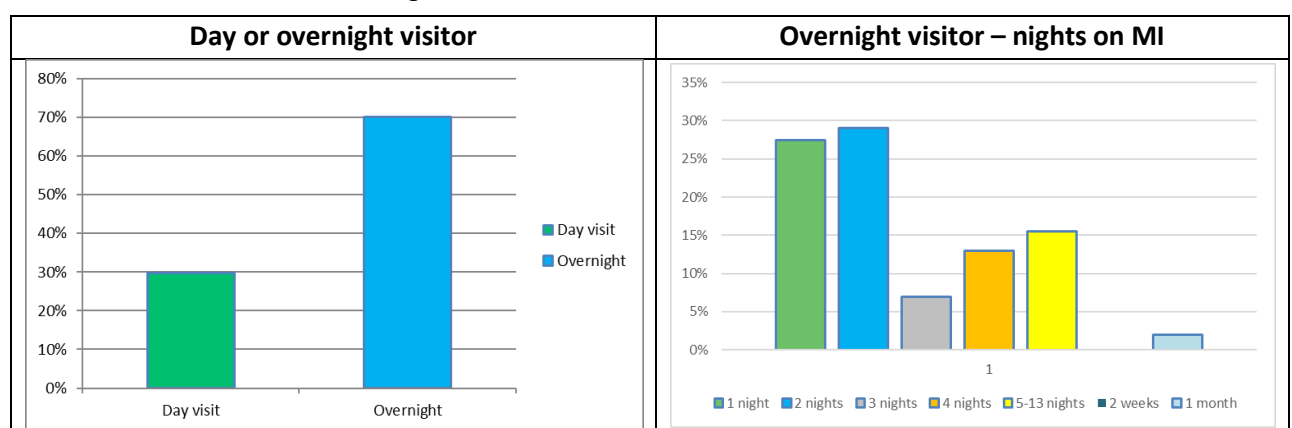
Figure 17: Age and gender distribution



5.2 Visitor duration on the island

The majority (70%) of respondents stayed overnight and 30% were day visitors. Of the overnight guests, 27% stayed one (1) night, 29% stayed two (2) nights, 7% stayed three (3) nights, 13% stayed four (4) nights, 15% stayed between five (5) and 13 nights and two per cent (2%) stayed a month..

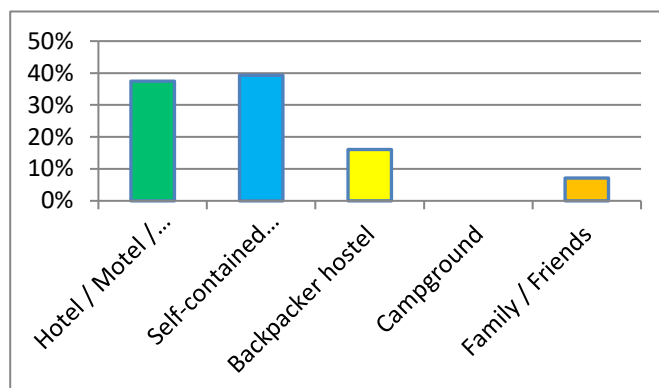
Figure 18: Visitor duration on the island



5.3 Visitor accommodation

The most common types of accommodation used were self-contained house or unit (39%); hotel, motel or resort (37%); backpacker hostel (16%); and family or friends (7%).

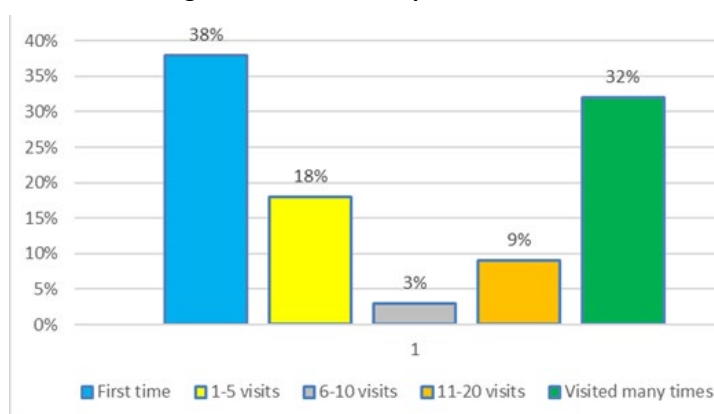
Figure 19: Types of accommodation used by overnight guests



5.4 Previous visits

The most common response to number of visits was first-timers (38%) or had visited more than 20 times (32%) with a combined 41% visiting more than 10 times.

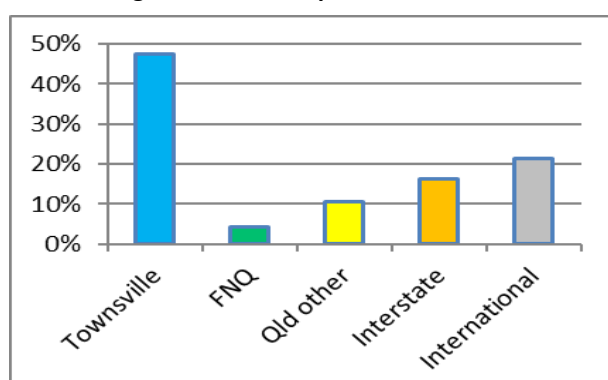
Figure 20: Number of previous visits



5.5 Normal place of residence

Almost half (47.5%) of all visitors live in Townsville, with 21% residing internationally, 16% interstate and 15% from elsewhere in Queensland.

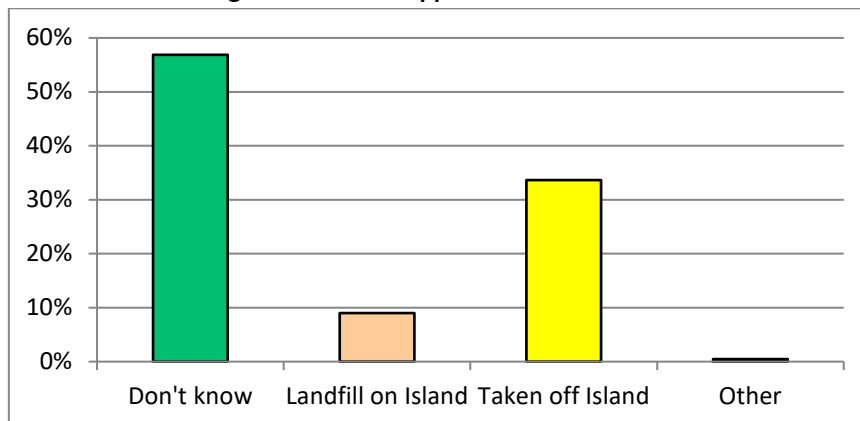
Figure 21: Normal place of residence



5.6 Waste disposal

Do you know what happens to waste on MI? Almost 57% didn't know what happened to waste from MI. Of those that had some knowledge, 34% thought it was taken off the island, while 9% thought there was a landfill on MI.

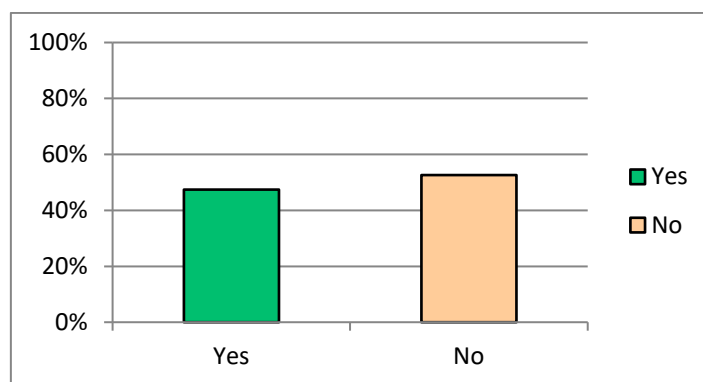
Figure 22: What happens to waste on MI?



5.7 Water refill stations

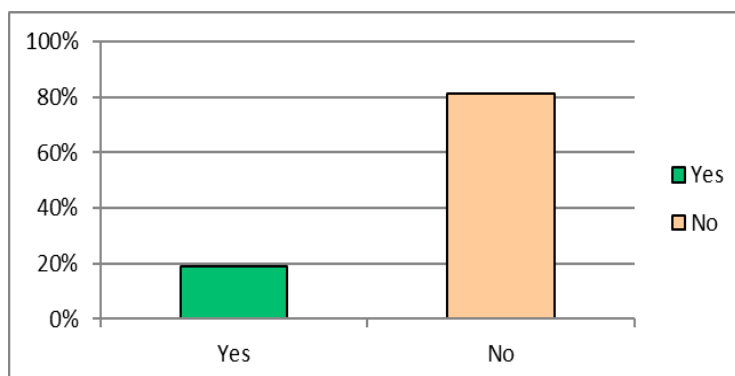
Did you use a water refill station while on the island? Just under half of respondents (47.5%) used a water refill station on the island and 52.5% did not.

Figure 23: Did you use a water refill station while on the island?



5.7.1 Did you know there is a map of water refill locations? Most respondents (81%) did not know there was a map of the water refill stations.

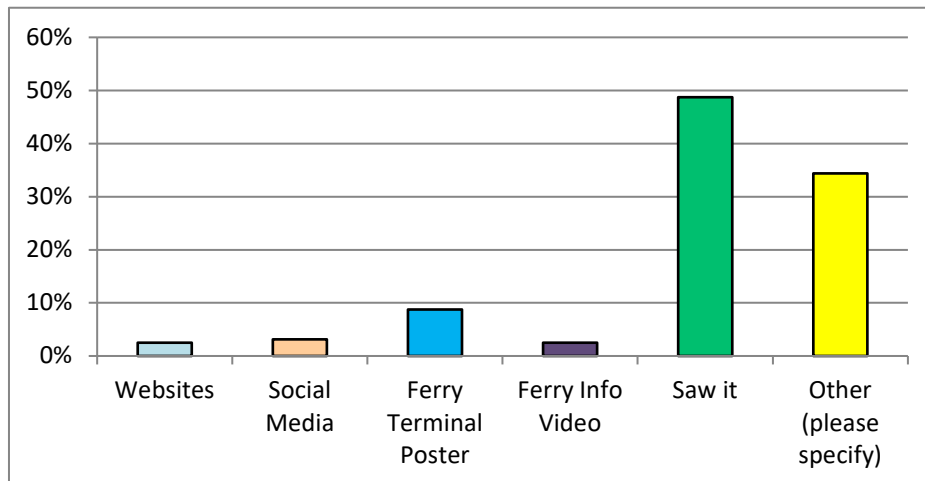
Figure 24: Did you know there is a map of water refill station locations on the island?



5.7.2 Where did you find out about water refill stations?

Almost half (49%) of visitors only knew about the water refill stations because they saw one. Fewer saw information on the ferries or at the terminal (11%) or recalled seeing information on social media or a website (6%). The remaining 34% provided 'other' responses which are itemised by response and count in Table 10 below.

Figure 25: Where did you find out about water refill stations?



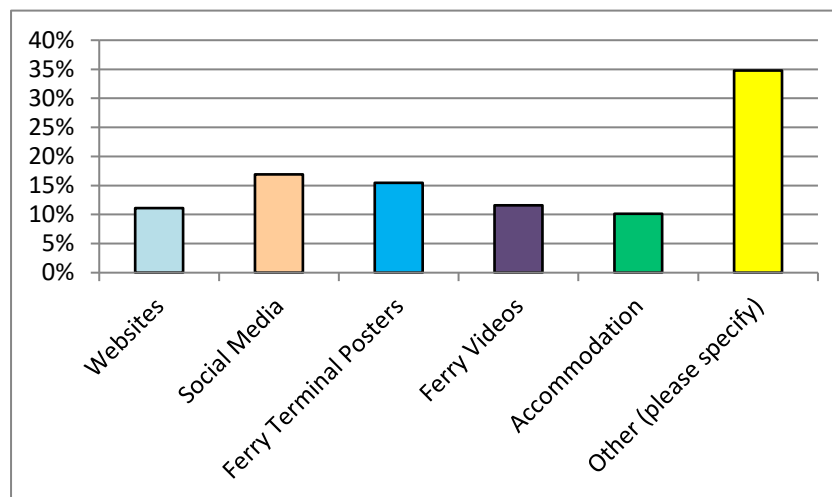
The 'other' qualitative responses to this question are shown in Table 10 below.

Table 10: Where did you find out about water refill stations - other responses?

Response	Number
This survey	15
Never seen	10
The volunteer told me	5
Peppers have a water refill area	3
Struggled to find any	3
Someone told me	3
Not seen but would have used if I knew	2
QR code Picnic Bay	2
Island booklet	2
Council told	1
Supermarket	1
Accommodation told us	1
Poster	1
No response	2
Total	51

5.8 Messaging and communications

What are the best ways for you to find out about environmental messages on MI, for example, water refill stations? Equal numbers of respondents (28%) indicated information on and around the ferries/terminals or through social media and websites would be preferred. Ten per cent (10%) suggested information in their accommodation. The remaining 34% provided 'other' qualitative responses, which are itemised by response and count in Table 11 below

Figure 26: Best ways to communicate with visitors?

The 'other' qualitative responses to this question are shown in Table 11 below.

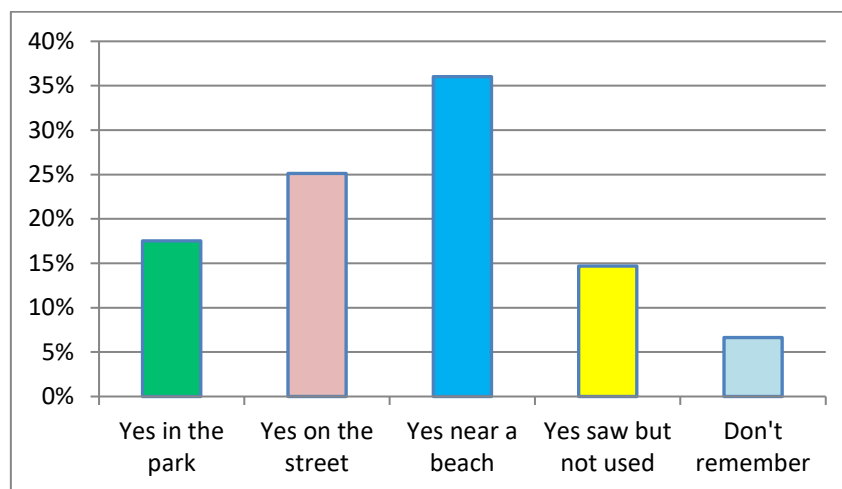
Table 11: Best ways to communicate environmental messages with visitors – other responses

Response	Number	Response	Number
Visible posters/signs in tourist areas, i.e. cafés	8	TV ads	3
Facebook	8	Instagram	3
Ferry websites	8	QR codes	3
Ferry social media	8	Make refill stations more visible	2
Email 'tips for travelling' with ferry booking ticket	8	Bus stops	2
MI-related brochures/tourism book	7	TCC online newsletter	2
Accommodation	6	Information centre	1
TikTok	6	Ask a local at the pub	2
On the booking sites	5	Text message	1
MI tourism website	5	Letter drop	1
QR code on the ferry	4	Most of these	1
Targeted info	4	Townsville Bulletin	1
Entrance to the National Park	3	Vouchers	1
Sealink oral message	3	Terminal lady	1
Don't know	3		
Ensure they are prominent, convenient and in central, useful locations. Don't read ads, ignore them. But if I'm thirsty after a hike and it's there, will use.			1

5.9 Public-place litter bins

Did you use public litter bins during your stay? Most respondents (79%) indicated they had used a public litter bin while on the island and a further 15% said they saw bins but didn't use them. The remainder (6%) didn't remember. Of those that had used a public litter bin (noting some people used a bin in multiple locations), the majority were near a beach (46%), on the street (32%) or in the park (22%).

Figure 27: Did you use public litter bins during your stay?

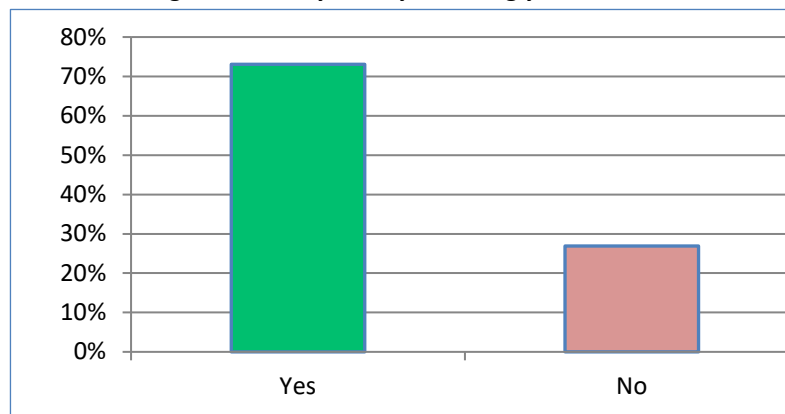


5.10 Recycling

5.10.1 Did you recycle anything during your visit?

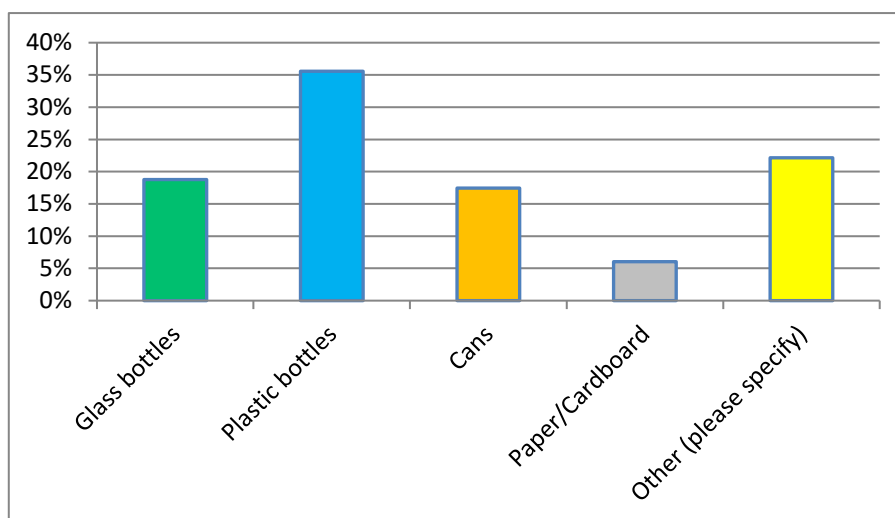
Most respondents (73%) recycled, while 27% did not.

Figure 28: Did you recycle during your visit?



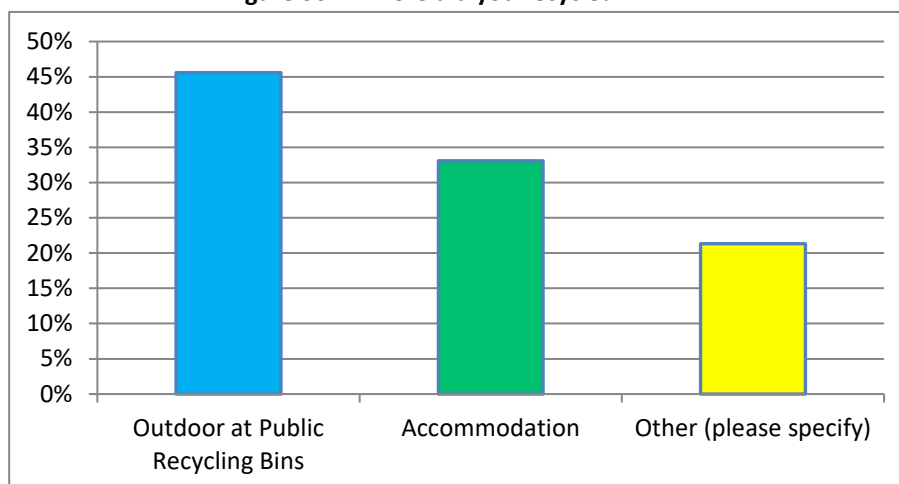
5.10.2 What items did you recycle?

The responses showed that 36% recycled plastic bottles, 19% recycled glass bottles, 18% recycled metal cans and 6% recycled cardboard/paper. In the 'other' category, 20% recycled more than one item, including both glass and plastic bottles (2%); glass, cans and paper/cardboard (3%); glass, plastic and cans (4%); recycled plastic and cans (7%); and all items – glass, plastic, paper/cardboard and cans (4%). In other responses, one respondent indicated they took recyclables home to Townsville and another stated, 'shame there's not more recycling options than just these'.

Figure 29: What did you recycle?

5.10.3 Where did you recycle?

Almost half of respondents (46%) recycled outdoors in public recycling bins, with 33.5% recycling at their accommodation and 20.5% selected 'other', of which half recycled at both their accommodation and at outdoor recycling bins.

Figure 30: Where did you recycle?

'Other'

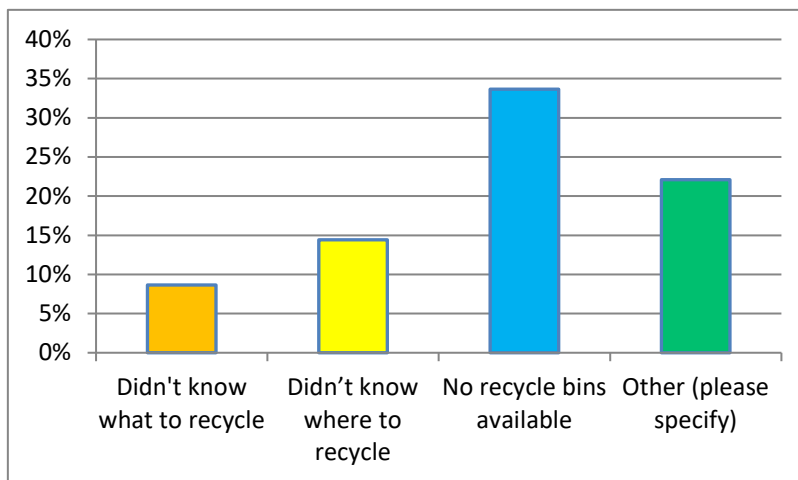
responses included:

- took it back to Townsville/mainland
- used the bins at the RSL
- took to my parents' home
- used the Townsville ferry terminal bin
- ferry terminal
- have my own land
- have own holiday property
- I reused my water bottle
- Picnic Bay
- on an excursion
- tour operator

5.10.4 Was there a reason you didn't recycle?

The main reason given for not recycling was because no recycling bins were available (34%); they didn't know where to recycle (14.5%); and they weren't sure what to recycle (8.5%). Some respondents specified 'other' (22%) and they didn't have anything to recycle.

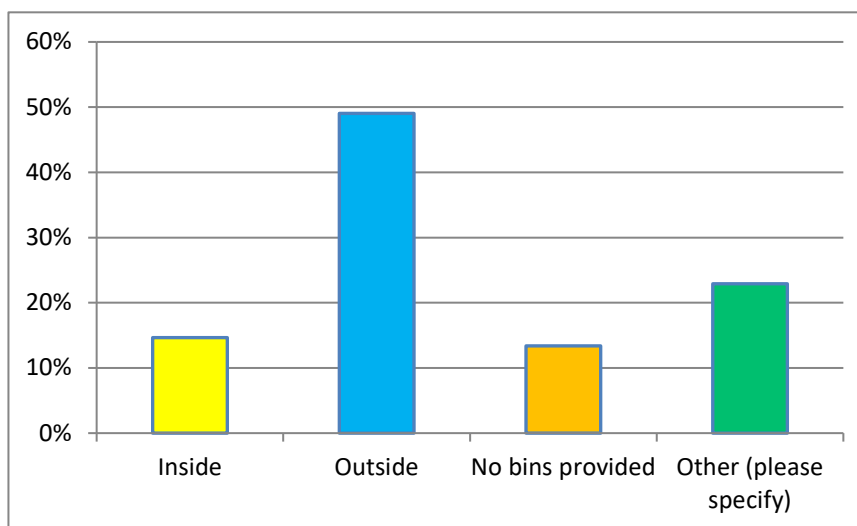
Figure 31: Why did you not recycle?



5.10.5 Were there recycling bins at your accommodation?

Sixty-three per cent (63%) of respondents indicated recycling bins were provided at their accommodation, of which 49% were provided outside, 14.5% were inside and 13% indicated no recycling bins provided. A further 23% selected 'other' as they were unsure or were day visitors only.

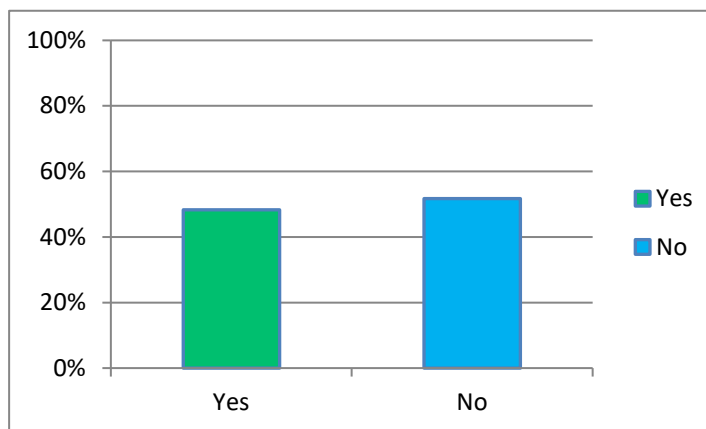
Figure 32 Were recycling bins provided at your accommodation.



5.10.6 Was information provided about what you could recycle?

Almost 52% said there was no information in their accommodation about what could be recycled and 48% said there was information.

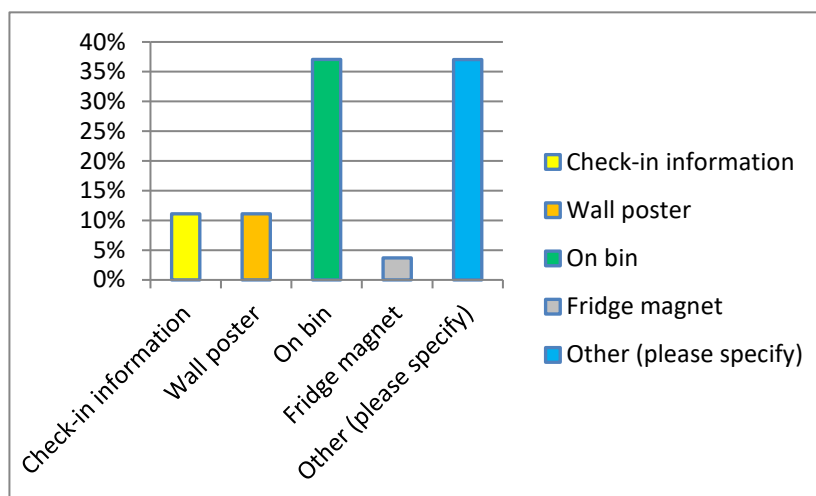
Figure 33: Was information provided about what you could recycle?



5.10.7 Where was the information provided?

The majority of respondents (37%) indicated instructions were on the bin, 11% said there was a wall poster or information at check-in and 4% had a fridge magnet. Many of the other responses indicated multiple locations, including a wall poster, on the bin, or at check-in and wall poster.

Figure 34: Was information provided about what you could recycle?



5.10.8 If there was no information, how did you know what to recycle?

The most common response to this question was previous knowledge of recycling, they were Townsville locals, or they did the same as they did at home.

5.11 Rethinking waste – future options

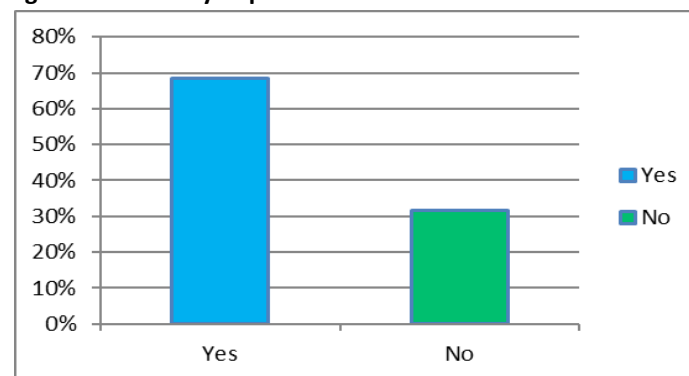
5.11.1 Visitors were asked to rank several future waste management options, where 1 was 'low priority' and 5 was 'most preferred'.

- 75% strongly supported separating food waste in their accommodation
- 49% strongly supported a ban on single-use cold drink cups for a reusable cup from a cup library
- 48% strongly supported a ban on single-use takeaway coffee cups for a reusable mug from a mug/cup library
- 47% strongly supported a bulk food outlet
- 41% strongly supported a share library.

5.11.2 Would you purchase reusable items from MI outlets instead of relying on single-use cups, cutlery and packaging?

The purchase of reusable items was supported by 69% of respondents, while 31% said they wouldn't support this action.

Figure 35: Would you purchase reusable items from MI outlets?



5.11 Willingness to pay

5.11.1 How much would you pay for a range of reusable items?

Results are shown in Table 12 below.

- Reusable cups – 29% would pay \$2–\$5, 40% would pay \$6–\$10, 12% would pay more
- Reusable water bottles – 27% would pay \$6–\$10, 51% would pay more
- Shopping bags – 57% would pay \$1 and 35% would pay \$2–\$5, 8% would pay more
- Takeaway reusable food containers – 37% would pay \$1 and \$2–\$5, 25% would pay more
- Reusable cutlery – 57% would pay \$1 and 29% would pay \$2–\$5, 15% would pay more
- Small backpack – 18% would pay \$1, 23% would pay \$2–\$5, 57% would pay more

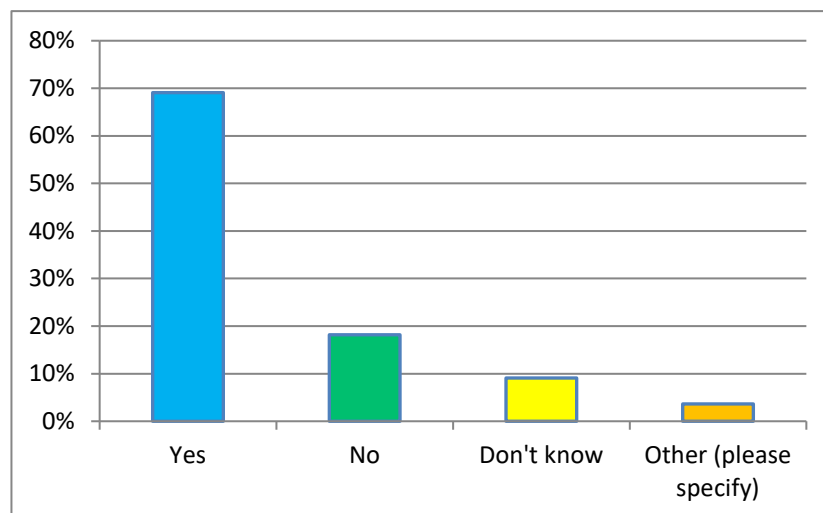
Table 12: How much would visitors pay for a range of reusable items?

Reusable items	\$1	\$2–\$5	\$6–\$10	\$11–\$15	\$16–\$20
Reusable cups	19%	29%	40%	9%	3%
Water bottles	18%	30%	27%	18%	6%
Shopping bags	57%	35%	6%	0	2%
Takeaway reusable food containers	38%	38%	20%	3%	2%
Reusable cutlery	57%	29%	11%	2.5%	1%
Small backpack	18%	23%	20%	21%	16%

5.11.2 Environmental levy

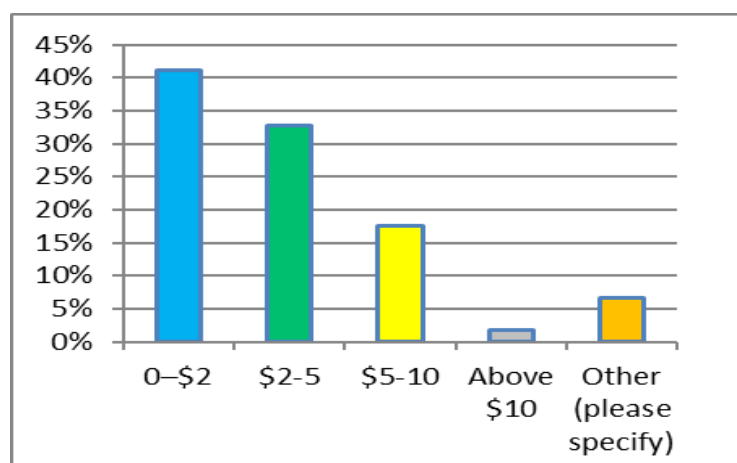
5.11.2.1 Would you support an environmental levy on your ferry ticket to offset costs of waste generated by visitors on MI? An overwhelming 69% indicated they would support a levy on the ferry ticket, 18% said no and 9% were unsure. A further 3.5% had the following specific feedback, including 'there should be a tariff for visitors,; 'yes, if it was definitely going towards these costs; 'the car ferry is expensive as it is but environment is a priority for me'; and 'good for tourists but as a local I believe that the council tax should cover this'.

Figure 36: Support for an environmental levy on the ferry ticket



5.11.2.2 If yes, what would be a reasonable cost per person per return trip? Responses varied from 41% would pay less than \$2 extra, 33% would pay \$2 to \$5 extra, 17.5% would pay \$5 to \$10 and 2% would pay more than \$10. Six per cent (6%) indicated they would not pay a levy.

Figure 37: Reasonable cost (per person/return) for an environmental levy on ferry ticket



5.12 Other ideas

Do you have any other thoughts, ideas and comments on how we can improve waste management on MI?

These responses are provided in Table 13 and are unedited but grouped by themes and word cloud based on common word responses is also provided below.

Figure 38: Word cloud of common words from visitors

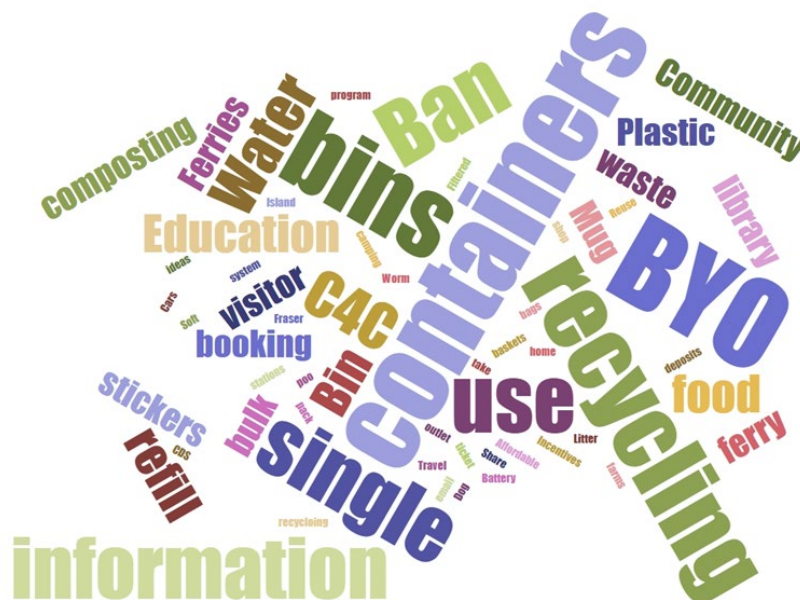


Table 13: Visitor thoughts, ideas and comments on how we can improve waste management on MI

Education
Frequent posters of how and what to recycle
Provide more and clearer information, e.g. water stations
Include the use of bringing own keep-cups, etc. on MI websites
Education – terminal staff to encourage visitors to purchase refillable drink containers
All literature on MI should use large print in the introduction with facts and figures of waste collection and disposal
Easy and good signage
Make sure there is pre-education on the mainland before people get to the ferry
Make sure that there is plenty of information when people book and before they arrive at the ferry
On the ferry website and other pre-arrival information, tell people to BYO cups, water bottles, etc.
Just generally more info for tourists/visitors for awareness
Increased public awareness due to our massive tourist intake
Well-labelled bins with signage pictures. We all have so much information constantly coming at us. I think it's the moment that you are walking towards the bins with an empty can that is going to matter.
The main issue, I believe, is people's attitudes. So, perhaps a large blunt instrument could be used on the heads of the ignorant? Or, I guess you could try Education. Unfortunately, you basically need to force these people to do good things by simply providing no alternative
More info on the ferry and at the terminal
Visitors and tourism
Encourage visitors at the car ferry to take waste off the island with them; like how National Parks manage waste and recyclables
It's only through public awareness and implementing alternative solutions will any recycling become an individual responsibility. Asking car drivers to take their rubbish back to the mainland. Providing them with recycling bag for their trip.
Usually only stay on the island for a day or two so wouldn't use the other services

With tourism there is always going to be more waste and single-use items being used. More could be done to recycle only glass bottles. We were aware that we were throwing much more in the bin than at home in Tasmania, especially fruit and food waste
Litter
Big Ocean Cleanup has had successful clean-ups and Magnetic Island could possibly benefit
Have a ranger patrol the island and in the water to stop littering
People who litter will still litter even when using reusable items
Invest in biodegradable options. Still charge extra if you like, but at least the litter won't be upgraded to better quality reusable litter, but safe biodegradable litter.
Increase fines for littering, monitoring of litter and clean up
Ferry levy
Townsville residents should pay less for a ferry levy than other visitors. Residents shouldn't pay
Live in Townsville and only stay 1–2 days so wouldn't use some of the suggested services
Townsville residents should get a discount
From Townsville, carry own water bottles, come as day trip, the ferry is expensive so won't support a levy
I come for a day and take back all I bring. I carry my own cups and water bottle. I am a volunteer with TEL
Don't mandate the ferry levy, especially for Townsville residents
Have more options that are voluntary, e.g choose to pay for a levy on the ferry rather than mandating it
We have 6 kids between us, so the economics are challenging. If we could camp and BYO our own items, we would do that affordably and bring the kids but we come over from Townsville as a couple when our kids are with our other partners and just want to kick back
Townsville residents should be charged less than other visitors
Apartments/MUDs (multi-unit dwellings)
Accommodation venues provide [waste management options] too
Make sure also that accommodation places provide these things
Use of reusable containers, cups, cutlery only useful if accommodation has washing-up facilities and if outlets will let you bring your own takeaway containers and cups
Organics
Public composting or worm farms where you can drop off your food scraps (maybe major accommodation places could receive rebates on their rates if they have these?)
Not enough people know about the food waste procedure. None of my neighbours use it. The locals need more information
Public compost bin
Dogs
The dog situation at Magnetic Island is extreme. I have never seen any dog on a leash on any beach. Dog owners take their dog to the beach so it can defecate on the beach, with dog faeces right up to the bathing reserve at Horseshoe Bay. It makes any other pollution insignificant
Special waste
Have battery recycling boxes at ferry terminal and barge terminal
CDS
Also, more opportunities for tourists to donate their 10-cent bottles and cans to local charities like MINT turtle group. I think they do on the ferry but other places on the island would be good too.
Plastic
Producers of packaging such as soft plastics should pay an environmental levy
I would like to see a small-scale plastic recycling plant that takes all the plastic bottle tops (and there are lots of those on a daily basis) and makes small items (such as the turtle key rings MINT sells, pot plant holders and the proceeds pay for the machinery and staff, with profits to charities on the island.
Bins/infrastructure/collection services
More bins for each type of waste
Bins with bottle holes, asking people to separate their waste
More recycling bins
Food waste bins should be common practice
Used bins in many locations around the island
Need more C4C bins on the island, including at the koala walk – similar to the revenue going to local NFPs

Issue with bins in Gregory Street
More C4C bins
Used bins around the island
Used litter bins around the island
Used litter bins in a few places on the street and the beach
Need more recycling bins especially near the beach
Used litter bin beach, street
More recycling bins
Need a C4C bin at the ferry terminal
More recycling bins
Tried to recycle at the ferry terminal but no bins but did use the litter bin there
More recycling with public litter bins
Not enough bin options at places like the ferry terminal where there should be recycling
We're used to 4 bins for separating in Switzerland and would welcome better options here at MI
Put a basket on the recycling bins to capture the CDS containers for residents
Used litter bins in many places across the island
Monthly rubbish removals for all other waste
Community can claim CDS refunds
Make sure the right bins are available
Make the bins more noticeable
More recycle bins
More recycling bins
Used litter bins in many places around the island
We struggled to find recycling bins by the ferry terminal
Did not see another recycling opportunity
Reinventing waste ideas
Carry own cup and bottle
Carry my own bag and cup
Have a keep-cup
Ban bottles of water and make people use keep cups
Ban bottles, bring keep cups
Prefer keep-cup
I carry my own keep-cup so prefer to use that
Make people use keep-cups
Keep-cup library at the terminals
Deposit on mugs/glasses and get money back once you return it
Free coffee (or whatever) for X amount of plastic/glass/other single-use type of material brought back to shops
More water refill stations and no plastic water bottles
Tried the water stations but didn't like the taste of the water – it tasted of chemicals – would prefer filtered option
Don't allow vendor to sell drinks in single-use plastics
Cut down on single-use containers
Machine that pays you for returning cans, plastic bottles, etc.
Perhaps a shop space where all the reusable items can be sold and maintained. You could collect donations and raise community awareness
Like the bulk food idea, though it may be challenging for travellers so would need to implement it cleverly, e.g. travel pack sizes
Bulk food needs to be affordable. Arcadia Store is very expensive
Concerned a share library might get abused by visitors/tourists/backpackers – need to take their credit card imprint to charge if items are stolen
Don't drink coffee. Stayed in Peppers and dined out the whole time. Used Pepper's water stations
I don't drink coffee so no use of single-use cups. Stayed at Peppers but they managed the waste from the room. I used their water station and dined out. Think the suggestions are good just I wasn't the target market
We are day-trippers only who dined in and wouldn't use any of the options suggested
Already carry water bottle, keep-cup plus dined in

Ban bottled water
Understand why the desire to ban single-use cups and agree but with some uncertainty. Maybe ban the lids first
Ban takeaway cups completely from the island
General
Fraser Island has some great initiatives that could be applied here on MI
Limit and reduce the population
While we are on the subject of recycling, why hasn't there been a recycling plant established in North Queensland for car tyres. They all go down to Victoria
Stop looking to tax everyone. Takeaway cups are not the problem. I will not use a reusable cup. If the island becomes this 'special' green place, you will lose tourists and the money they bring. You can already take used food, cups and bottles. Look at Las Vegas with their food waste from restaurants. THAT is what you should focus on, not a coffee cup or bottle of water.
Take it to the mainland and bury it
I wouldn't purchase more reusable gear as I bring my own with me already. This survey needs to allow for multiple choice answers to questions.
Improve your survey design
Gratitude/recognition
Thought the island was clean and lovely
Think it's pretty well managed
Island waste fairly well managed

6 COMMUNITY CONSULTATION – KEY FINDINGS

6.1 Focus group summary

6.1.1 Why waste management is important - Waste and litter has an impact on our oceans, marine life and native animals. We want to protect the national park and marine park and environments. We need an understanding of organics management, methane and climate change so the community understands how management of organic waste and keeping things out of bins (landfill) will reduce emissions. We need to talk avoidance, the cost to move waste to the mainland and the concerns about tourism growth, as waste is connected to the visitor population.

6.1.2 Specific experiences with waste on Magnetic Island (Yunbenun)

- Transport of bulky garden waste is an issue for many who don't have access to a trailer
- There is no place in Horseshoe Bay for the anchored yachts to dispose of their waste and therefore they use the litter bins
- Containers 4 Change (C4C) scheme - needs more permanent locations (particularly Horseshoe Bay), the mobile unit needs to accept containers when advertised and residents not be turned away, wire baskets could be fitted on the side of the litter bins for donations with small hole to reduce litter so only containers can fit, ideally all local charities work together to share collection and proceeds, dedicated storage bags to store and transport to pods or bins would be appreciated.

6.1.3 Reducing waste and contamination in recycling bins

- All bins need a universal colour scheme and signage with clearer instructions, including 'no bin liners in recycling bins'
- Bin lids can be heat-stamped so it's clear what goes in what bin.
- Use symbol-based information to communicate with everyone and every language

6.1.4 Battery recycling

- Better communication about what, why and how to recycle batteries
- Community bins at each bay – Horseshoe, Arcadia and Nelly – and at the transfer station, collected monthly.
- Concern that community will not save batteries and drive them to the transfer station. Recycling needs to be local and easy.

6.1.5 Upsizing or downsizing of general waste bins

- Residents did not know this was an option

6.1.6 Communications from Townsville City Council

- No longer an Magnetic Island newsletter
- Need a combination of social media, TCC newsletter, direct email and many families are connected to the school.

6.1.7 Other ideas (in alphabetical order)

- **Accommodation venues** – common approach, including bins, stickers, signage on the back of hotel doors/noticeboards/fridge magnets and compendiums

- **Bio Regen** – Bio Regen pilot must be better supported and funded
- **Bulky green waste** – optional monthly collection of bulk garden waste or palm fronds **only** for people with no trailer and/or community mulcher
- **Community garden** – strong support for community garden but after 16 years the local group are yet to find a suitable location. It should be a information hub for education and information for the community with a paid co-ordinator and management plan
- **Compost training workshops** – great idea, with a subsidy from TCC for the composting bins/worm farms after attendance at training. More likely to be successful.
- **Education** – develop a brand for the island and its environmental programs. Reminders in the community that MI is precious and let's keep it that way. Education pack for new residents about waste, weeds, water use and composting
- **Garden bin and FOGO** – definitely need a green waste or FOGO bin. Kitchen caddies and compostable lining is a great idea. Check if biodegradable plastics breakdown in tropics. Need an option of a **large** green-waste bin for palm fronds. Some concern about the cost of a third bin and how to stop IGA/FoodWorks selling non-council-approved bin liners
- **Packaging** – support for local bulk food co-op to reduce packaging problem and could be for food exchange. Must be cost competitive with alternative shopping options.
- **Public litter bins** – needed at bus stops as many don't have any bins and littering observed
- **Recycling bins** – no recycling bins at the ferry terminal where everyone arrives and departs.
- **Reuse** – tip shop, op shop are great ideas. Also explore the share library concept – tools, toys, books with repair café and sewing opportunities. Ban takeaway coffee cups and promote water refill stations. Support glass-crushing on island.
- **Services** – Council needs to consider specific community needs, i.e. families with small children and soiled nappies when FOGO bin introduced, particularly if changing to a fortnightly general waste collection. Many concerns about foul smell and vermin if people continue to dispose of organics in general waste bin (especially tourists who may not be inclined to separate their waste). Concerns also about pet poo, which will still have to go in the general waste bins
- **Single-use products** – create a Island 'brand' involving/partnering with businesses could to use on reusables as a souvenir, i.e. branded keep-cup or water bottle
- **Share-economy options** – general support for Library of Stuff (share library) or specific tool library, toy library, repair café, clothing swaps, garage sale trail, bulk food co-op, community garden.
- **Textiles** – need a program for soiled/old textiles, i.e. Upparel.com.au
- **Tourists** – targeted information on ferry and at accommodation venues so visitors respect the island and behave appropriately
- **Tourist numbers** – concern about unlimited tourist numbers
- **Other** – need a paid co-ordinator to maintain momentum as volunteers and non-for-profits get burnout. Create a sister island community around zero waste and sustainability issues to exchange ideas, learnings and information, as demonstrated on Lord Howe Island.

6.2 Resident survey responses summary

6.2.1 Bins

- Almost 60% of respondents knew council offered different size waste and recycling bin
- 55% indicated they could downsize and 10% needed to upsize their general waste bin
- 60% did not want to downsize their recycling bin while 18% wanted to upsize recycling bins

6.2.2 Current organics management

- Most households dispose of garden waste by delivering it to the transfer station (45%), while the remainder composted (23%), placed in general waste bin (22%) or left it to rot in their yard (10%).
- The most common frequency for those taking garden waste to the transfer station was monthly (40%), followed by quarterly (24.5%), with 12% going with fortnightly or weekly.
- A third of respondents (33%) put their food waste in their waste bin whereas 65% self-managed by a range of actions including composting (48%), providing it to chooks or pets (14%), delivering it to Bio Regen at Horseshoe Bay (3%) or using it in a home worm farm (2.5%). Some households did a combination of these activities.

6.2.3 Future organics management

- The majority of residents (74%) support the introduction of a third bin for FOGO, while an equal number are unsure (13%) or do not want/need a third bin (13%) due to concerns about cost or because they had minimal organic material.
- A weekly food and garden organics (FOGO) service may mean waste bins are collected fortnightly, which was supported by 63% of respondents. Twenty-five per cent (25%) did not want the change and 12% were unsure, identifying issues and concerns around odour, vermin, lack of general waste bin space after the service frequency change, insufficient organic waste to use service or they were already composting on site.

6.2.4 Willingness to pay for third bin and service for garden and food waste

- 32% opted for \$0 charge, 29% supported a \$1 per week, 22% supported \$2 per week, 9% supported \$5 per week and 8% expressed 'other' feedback typically around concerns of not wanting the third bin due to self-management or lack of organic material to use bin.

6.2.5 Education and communication

- The majority (58%) felt they knew how to recycle while 38% would like more information
- Preferred communication channels were via direct email (36%), hard copy by post (21%), council newsletter (20%), community social media, i.e. Facebook (18%) and Council's social media 5%.

6.2.6 Rethinking waste – ideas for the future

Nine future waste options were presented. Residents were asked to rank their level of support for each. In every option all gained the highest individual level of support, with a ranking of 5. When comparing scores, the greatest support was for (in decreasing order):

1. dedicated recycling boxes for batteries, etc. (77%)
2. phasing out single-use plastic cups and containers (69%)
3. more public-place recycling opportunities (67%)
4. introducing clear marine beach litter bins (60%)
5. implementing a compost facility (58%)

6. Containers 4 Change collection point at Horseshoe Bay (56.5%)
7. repair café (52.5%)
8. bulk food outlet (52%)
9. share library (40%).

6.3 Visitor survey response summary

6.3.1 Visitor profile – most visitors (70%) stayed overnight, with 30% being day visitors. The island has almost as many first-time visitors (38%) as regular return visitors with greater 10 trips (41%). Most visitors lived in Townsville (47.5%) while 21% were international, 16% interstate and 15% from elsewhere in Queensland. Of the overnight guests, 27% stayed one night, 29% stayed two nights, 7% stayed three nights, 13% stayed four nights, 15% stayed between five and 13 nights —7% stayed a month or longer.

6.3.2 Waste destination – just over half of all visitors (57%) didn't know what happened to waste from MI, while 34% thought it was taken off the island and 9% thought there was a landfill on the island.

6.3.3 Water refill stations – almost half (49%) of visitors only knew about the water refill stations because they saw one and 47.5% used a water refill station. Overwhelmingly, 81% did not know there was a map of the water refill stations.

6.3.4 Messaging and communication – information on and around the ferries/terminals, through social media/websites and at accommodation were preferred, with an extensive range of other ideas provided

6.3.5 Public litter bins – most (79%) had used a public litter bin and a further 15% said they saw the bins but didn't use them. The majority were seen or used near beaches (46%), on the street (32%) and in the park (22%).

6.3.6 Recycling behaviour – most (73%) recycled while on the island, with 46% using outdoor public recycling bins, 33% recycling at their accommodation and 10% using both options. The main reason visitors didn't recycle was recycling bins weren't available (34%), they had nothing to recycle (22%), they didn't know where to recycle (14.5%) or weren't sure what to recycle (8.5%). At accommodation, 63% said recycling bins were provided, with 49% outside, 14.5% inside and 13% indicated no recycling bins were provided. Almost 52% said there was no information in their accommodation about what could be recycled and 48% said there was information provided. Instructions on recycling were found on the bin (37%), on a wall poster (11%), as part of check-in information (4%) or on a fridge magnet (4%). Some had multiple locations. Where no information was provided, visitors had prior knowledge of recycling, were Townsville locals or did as they would do at home.

6.3.7 Rethinking waste – future options

- 75% strongly supported separating food waste in their accommodation
- 49% strongly supported a ban on single-use cold drink cups for a reusable cup
- 48% strongly supported a ban on single-use takeaway coffee cups for a reusable mug
- 47% strongly supported a bulk food outlet

- 41% strongly supported a share library
- 69% of respondents supported the purchase of reusable items, with 31% not supporting.

6.3.8 Environmental levy – 69% of respondents indicated they would support an environmental levy on the ferry ticket to offset costs of waste generated by visitors on MI, with 41% willing to pay less than \$2 extra per person per return trip; 33% would pay \$2–\$5 extra; 17.5% would pay \$5–\$10; 2% would pay more than \$10; and 18% saying no to the levy with 9% unsure.

7. STAKEHOLDER MEETINGS

7.1 Townsville City Council (TCC)

Meeting with Resource Recovery Infrastructure and Operations

- Senior Strategy Co-ordinator – Haley Page
- Resource Recovery Projects and Education Officer – Amelia Chaplin

7.1.1 Food and garden waste collections and processing waste

- Waste consultancy GHD developed a feasibility study for organics waste management on MI with eight (8) different options assessed for both collection and processing .
- At Council’s meeting on August 2024, the following was determined:
 - Council will start with a garden organics (GO) service
 - Council needs to resolve outstanding issues and uncertainties with Queensland Government regarding compliance with food and PFAS
 - Likely tender for FOGO with 240-litre bin provided weekly in 2025
 - MI will be treated separately to the mainland as a processing site needs to be determined.
- The mainland waste study found 3% contamination in food only bins and 0.9% in garden organics bins, indicating broad community support.

7.1.2 Commercial food waste

- TCC are investigating a commercial food waste run using 120-litre bins. The current waste collection crew could collect
- Atlas Soils (Jason Lang) has a trailer for tracking pick-ups for carbon accounting
- Need to resolve space constraints in kitchen bins on a case-by-case basis, i.e. 20-litre buckets/120-litre MGB.

7.1.3 Community garden

- Council supports the concept as it fits with the MI community. Correct location needs to be found.

7.1.4 Specific materials

- **Batteries** – TCC can ensure there is a dedicated battery bin(s) at the transfer station. Owing to the fire risk, it is not TCC’s responsibility to move battery bins from townships to the transfer station. MI needs to find its own solution.
- **Polystyrene** – TCC unsure of how much used white-goods packaging is disposed at transfer station but if volumes justify are Interested in providing an EPS processor to melt the EPS for volume reduction and recycling.
- **Glass** – Council has a dedicated circular economy staff member with relevant PhD exploring options and uses for glass-crushing and keeping on MI

7.1.5 Current waste disposal and costs for transport to mainland (barging waste)

- Current landfill disposal with landfill levy is \$270 per tonne
- Current levy in FY 24–25 is \$94 per tonne and will be indexed by CPI going forward
- TCC receives full rebate on the landfill levy from state government, but this will reduce from FY 25–26

- TCC barges waste off MI five times fortnight using a dedicated barge (\$5,000–6,000 per trip or \$750,000 pa).

7.1.6 Containers 4 Change

- COEX recyclables go on the vehicle barge operated by MI Ferries but is creating backlog issues due to weight limits
- TCC can explore if any spare room on Council barge hired to transport waste and other materials between mainland and island

7.1.7 Disaster waste plan

- The transfer station pit has three to five days of surge capacity after all compactors full
- Green waste area could be expanded for stockpiling

7.1.8 Regional issues

- A regional waste co-ordinator role has been advertised to oversee implementation of the regional waste plan.

7.2 Online meeting with TCC and Boomerang Alliance (BA)

- Idea for Sarah Cole – could BA manufacture plastic recycling bins to separate Containers 4 Change items at accommodation venues?
- Men's Shed meeting – supports the repair café concept but have no capacity to organise
- Townsville has a share library
- Nappy rebate – begins at start of each FY until the funds run out (typically in 3 months)
- Are TCC collecting tetrapak for recycling – NO

Questions for TCC arising during the week and discussed in on-line meeting

1. Palm fronds – maybe the standard organics bin size should be 360-litre with option 240-litre
2. Compost workshops are of interest to residents – incentives or financial benefits for residents who attend and then compost, i.e. discounted bins/worm farms?
3. Can TCC ask Sealink and MI Ferries for the numbers of people each month travelling on the ferry/barge to help MICDA plan better for crowds, etc.?
4. Who manages the calendar of events and could ZWMI/MICDA receive a copy for planning?
5. Public-place bins – is there planning on how and where they are located? Could all or busy bus stops have recycling and waste bin stations? How many are there in total?
6. Community garden – is there a recommended hub/plot?
7. Textile recycling – options for poor-quality/non-clothing component
8. 2025 Coffs Waste conference – would TCC be interested in co-presenting with MICDA?

7.3 Meeting with Traditional Owners

Brian and Troy Johnson

- Visitor numbers projected to increase from 300,000 to 400,000
- Need good education materials, translated into key visitor languages
- In Palau, all visitors sign a pledge on passport to protect the island. Need a similar pledge on ferries coming to MI with a QR code. Need Queensland Tourism, MI Tourism, TEL and ferry buy-in.
- Support glass reuse on island
- Community garden at 55 Kelly St because Horseshoe Bay area behind sports field has a wallaby population nearby and lacks water/sewer facilities
- Concern about increasing marine plastic debris – beach clean-ups by Evan Ivy
- Need standard colour-coded bins for synergy with other areas – ferry uses blue/yellow and Island red or green/yellow – causes confusion
- Packaging should be paper not plastic

Other issues of concern

- Need a wash-down area with recycled filtered water on the Townsville barge to prevent weed seeds spreading to island
- Shops should stock non-invasive and native plants for use on MI
- Concern Arcadia, Nelly Bay and some of Picnic Bay still on septic system. Connection to sewer is \$20,000 per block

7.4 Bio Regen and Humisoil

Co-ordinator – Chris Sampson

- 100 kilograms of food waste per week can be processed by maceration and fermentation at the Bio Regen plant at the old school at Horseshoe Bay. The resultant 'accelerant' is used at the Humisoil pilot project, started in 2020 with a pile of weeds, covered, kept wet with accelerant added on TCC land in Kelly Street as a Groundswell project with Reef Assist funding
- Humisoil can be used on difficult organics including fishkill
- Humisoil is a rich, composted output that has been used all over the island
- Funding exists for one more year only
- Applied for Circular Economy grant supported by TCC in August 2024 to expand Bio Regen to Picnic Bay but was unsuccessful
- Long-term access to Kelly Street limited as Council needs to use the site for other activities.

7.5 Repair café concept

Ricky Esterquest from "Towards Better" a social traders certified social enterprise is seeking to establish repair café on Townsville's north shore with initial focus on textiles, toys, basic furniture and later bikes, furniture and battery-powered tools with a state govt grant.

- The donation model is the most typical approach but it relies on volunteers. Keen to explore a different funding model, including repair and resell, i.e. selling repaired items
- Does not want a 'drop and repair' approach but want people to buy-in, get empowered with skills and individuals who are invested
- Engagement with Council to be confirmed – maybe a venue in-kind

- Ideally runs within an existing organisation, for example Griffith University has a men's shed and insurance. Australian Men's Shed insurance can cover repair cafes and has begun engagement with Townsville Men's Shed
- Mentioned Circular Magnetic as potential brand with graphic link to the compass that gives Magnetic Island its name

7.6 TCC Waste Transfer Station staff

Sue, Brian and Steve

- Brian sought advice on the key streams for focus by staff. Need to keep resources on island where possible
- Recycling bins: TCC collects about 650 recycling bins each week – daily or other frequency for commercial and fortnightly for households
- EPS – Steve has a background in recycling hard plastics in Victoria. EPS can be added to manufacturing as it acts as a strengthener. Brian is seeing lots of EPS as dropped at the gate. Sue contacted waste staff about an EPS melter due to volume received. No deliveries to transfer station from electrical retailers because two delivery companies bring items to MI and take packaging away to mainland (charge to the customer)
- Storing hard/soft plastics – space constraints
- Concrete – domestic new residents and renovations creating a lot of concrete
- Batteries – Brian said they can collect extra battery bins in the ute on a monthly collection back to the transfer station from Nelly Bay Post Office), Horseshoe Bay (TBD) and Arcadia (newsagent). Batteries can be added to dedicated dangerous goods barge loads.
- Community garden options - long saga and no solution - Kelly Street, Old School/Church block, Arthur's Place (3,600 m²) or private land.

7.7 Scientist/Architect - Sarah Cole

- Sarah received a DESI Circular Economy grant in partnership with University of South Queensland (USQ) to set up a prototype and proof of concept to build modular building components from waste materials. Delays have occurred with the importing of equipment from India and the grant expires in March 2025. A second stage grant will be needed for actual product recycling post proof of concept.
- A plastic shredder and hot press will enable experimentation with a range of materials with various binders to produce 1m² sheets of material (12–30 mm thick) of plastics for use in furniture, fencing
- Sara has purchased a large block of land and developed a comprehensive site plan for a regional precinct under banner "Grow Recycle Build" including workshop space, eco hub for re-manufacturing, a women's shed and community garden using shipping containers

7.8 Magnetic Island Skips - Brett Barrett

- TCC uses an average weight when load scales aren't working on equipment, regardless of what is in skip.
- Brett is seeking to separate materials such as timber pallets, green waste, concrete, steel, white goods and metals on a concrete slab with a bobcat
- They provide dedicated cardboard bins to FoodWorks, IGA, Maggie Brewery and the hotels.

APPENDIX A RESIDENT SURVEY



Residents Re-Thinking Waste on Maggie Island

Please complete by **30th November, 2024**



Magnetic Island is developing a Towards Zero Waste Strategy to reduce waste across the island. We are seeking your opinion about current island waste plus new ideas to prevent, reduce and better manage waste volumes. Your views are important. This survey will take about 5 minutes to complete.

BIN SIZE

1. Did you know Council provides a range of waste and recycling bin sizes. ☐ Yes ☐ No

Thinking about your current household waste volumes generated

2. Could you use a smaller bin for a reduced fee:

For waste ☐ Yes ☐ No

For recycling ☐ Yes ☐ No

3. Could you use a larger bin at a increased fee:

For waste ☐ Yes ☐ No

For recycling ☐ Yes ☐ No

Current waste actions

GARDEN WASTE

4. Where do you currently put your garden waste?

<input type="checkbox"/> In the rubbish bin Go to Q6	<input type="checkbox"/> Take it to transfer station Go to Q5	<input type="checkbox"/> Leave in pile in yard to rot Go to Q6	<input type="checkbox"/> Compost Go to Q6
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5. How often would you take garden waste to the transfer station ?

<input type="checkbox"/> Weekly	<input type="checkbox"/> Fortnightly	<input type="checkbox"/> Monthly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> 6 months
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FOOD WASTE

6. What do you currently do with food scraps, peelings and leftovers?

<input type="checkbox"/> Put it in the waste bin	<input type="checkbox"/> Worm farm	<input type="checkbox"/> Compost	<input type="checkbox"/> Bio-Gen at Horseshoe Bay	<input type="checkbox"/> Chooks / pets
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ORGANICS

On Magnetic Island most household garbage bins comprise up to 55% food and garden waste. Removing any organic material from garbage bins will reduce waste to landfill and climate affecting gas e.g. methane.

7. Do you support Council introducing a third wheelie bin collected weekly for your food scraps and garden waste which is processed on island reducing Greenhouse Gas and creating new jobs? Yes **Go to Q8** No **Go to Q7a** ☐ Unsure **Go to Q7a**

7a If No or unsure please tell us why? (more than one if applicable).

<input type="checkbox"/> Don't have much organic waste	<input type="checkbox"/> Too inconvenient	<input type="checkbox"/> Already Compost	<input type="checkbox"/> Other
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8. Having a weekly food and garden organic bin (FOGO) service may mean your waste bin is collected fortnightly. Would that be ok?

☐ Yes **Go to Q9**

☐ No **Go to Q8a**

☐ Unsure **Go to Q8a**

8a If No or unsure please tell us why ?

9. The new green organics bin, collection service and on island processing will incur additional cost. How much are you willing to pay for this new service ?

<input type="checkbox"/> zero	<input type="checkbox"/> \$1 / week (\$52pa)	<input type="checkbox"/> \$2 / week (\$104 pa)	<input type="checkbox"/> \$5 / week (\$260 pa)	<input type="checkbox"/> Other
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Communications from Council

10. A recent study on Maggie showed 14% of the household waste bins contain recycling and 10% of the recycling bin contains waste! Do you need more information on how to recycle better?

☐ Yes

☐ No

☐ Unsure

11. What is your preferred method of receiving updates and communication from Council ?

<input type="checkbox"/> Direct email	<input type="checkbox"/> Council social media	<input type="checkbox"/> community facebook	<input type="checkbox"/> hard copy by mail	<input type="checkbox"/> Email council newsletter
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☐ Other specify

Re-Thinking Waste

12. If there were opportunities to reduce potential waste through avoiding, reducing, repairing and sharing activities, On a scale of 1 to 5, where 1 is low and 5 is high, how likely are you to use or support

A. A share library that loans a variety of items including tools, board games, kitchen appliances, camping gear, event hire and other items for a small fee?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

B. A repair café where skills are shared and items are repaired e.g. clothes, electrical, furniture for a small fee?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

C. A bulk food outlet/co-operative where you fill a variety of grocery lines into your own containers?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

D. A facility where garden and food waste is converted into compost or humus soil for local reuse?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

E. Providing a 10C Containers for Change pod at Horseshoe Bay?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

F. Having specialised recycling boxes on the island for everyday household items ie batteries

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

G. Installing more recycling bins in public places

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

H. Installing clear see through bins at beach access points for beach litter cleanups as a reminder to take your rubbish with you?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

I. Encouraging food vendors on the island to stop using single use coffee cups, drink cups and plastic containers

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

13. Do you have any other thoughts, ideas or comments on how we can improve waste management on Maggie?

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DEMOGRAPHIC INFORMATION

Age Group	<input type="checkbox"/> 18 – 34	<input type="checkbox"/> 35- 54	<input type="checkbox"/> 55 +	Gender	<input type="checkbox"/> Female	<input type="checkbox"/> Male	<input type="checkbox"/> Other
Number of permanent occupants in your household?							
Do you rent or own your home?		<input type="checkbox"/> Owner/occupier		<input type="checkbox"/> Renting	<input type="checkbox"/> Other		
<p>Optional – If you would like to receive any further details about the Towards Zero Waste Strategy please provide you name and email details below.</p> <p>Name _____ Email _____</p>							

APPENDIX B Visitor Survey



Visitors Re-Thinking Waste on Maggie Island

Please complete by 30th November, 2024



Magnetic Island is developing a Towards Zero Waste Strategy to reduce waste across the island. We are seeking your opinion about current island waste plus new ideas to prevent, reduce and better manage waste volumes. Your views are important. Do you have a couple of minutes to answer some questions?

Q1 Do you know what happens to waste generated on Magnetic Island?

<input type="checkbox"/> Don't know	<input type="checkbox"/> Landfill on Island	<input type="checkbox"/> Taken off Island	<input type="checkbox"/> Other
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Q2 Did you use a water refill station while on the island?

<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't remember
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Q3 Did you know there is a map of water refill locations?

<input type="checkbox"/> Yes go to Q 3a	<input type="checkbox"/> No go to Q3b	<input type="checkbox"/> Don't remember
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Q3a Where did you find out about water refill stations ?

<input type="checkbox"/> web sites	<input type="checkbox"/> social media	<input type="checkbox"/> ferry terminal poster	<input type="checkbox"/> Ferry info video	<input type="checkbox"/> saw it	<input type="checkbox"/> other
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Q3b What is the best way for you to find out about environmental messages about Magnetic island eg water refill stations ?

<input type="checkbox"/> Web sites	<input type="checkbox"/> Social media	<input type="checkbox"/> Ferry terminal posters	<input type="checkbox"/> Ferry videos	<input type="checkbox"/> Accommodation
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Which ones

Web sites:

Social media:

Q4. Did you use any public litter bin/s during your stay ?

<input type="checkbox"/> Yes in park	<input type="checkbox"/> Yes on the street	<input type="checkbox"/> Yes near a beach	<input type="checkbox"/> Yes saw but not used	<input type="checkbox"/> Don't remember
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Q5 Did you recycle anything during your visit?

<input type="checkbox"/> Yes Go to Q5a	<input type="checkbox"/> No Go to Q5c
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Q5a What items did you recycle ?

<input type="checkbox"/> Glass bottles	<input type="checkbox"/> Plastic bottles	<input type="checkbox"/> Cans	<input type="checkbox"/> Paper/ cardboard	<input type="checkbox"/> Other
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Q5b. Where did you recycle ?

<input type="checkbox"/> Outdoors at litter bins go to Q7	<input type="checkbox"/> Accommodation go to 6a	<input type="checkbox"/> Other
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Q5c Was there any reason why you didn't recycle ?

<input type="checkbox"/> Didn't know <u>what</u> to recycle	<input type="checkbox"/> Didn't know <u>where</u> to recycle	<input type="checkbox"/> NO recycle bins available	<input type="checkbox"/> Other
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Q6 At your accommodation were there any recycling bin/s ?

<input type="checkbox"/> inside	<input type="checkbox"/> outside	<input type="checkbox"/> no bins provided	<input type="checkbox"/> other
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Q6a Was there any information provided about what you could recycle ?

<input type="checkbox"/> Yes Go to Q6b	<input type="checkbox"/> No Go to Q7	<input type="checkbox"/> None I saw
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Q6b Where was the information

<input type="checkbox"/> Check-in information	<input type="checkbox"/> wall poster	<input type="checkbox"/> On bin	<input type="checkbox"/> Fridge magnet	<input type="checkbox"/> Other
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Q7 If there was no information how did you know what to recycle ?

Q8 If there were opportunities to reduce waste through avoiding, reducing, reusing and sharing activities, On a scale of 1 to 5, where 1 is low and 5 is high, how likely are you to use or support:

A. A share library that loans a variety of items including books, board games, kitchen ware etc for a small fee?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

B. A bulk food outlet/co-operative where you can fill your own containers with the quantity you need ?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

C A ban on single use takeaway coffee cups for a re-useable mug from a mug/ cup library ?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

D A ban on single use cold drink cups for a re-usable cup from a cup library

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

E Magnetic Island is trialling separating food waste to make a fertilizer type product. Would you use a separate food waste bin in your accommodation ?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Q9 Would you purchase reusable items from Magnetic Island outlets instead of relying on single use cups, cutlery and packaging? If yes, which items and how much would you pay?

		\$1	\$2-\$5	\$6-\$10	\$11-\$15	\$16-\$20
9 a	Reusable coffee or drink cups					
9 b	Water bottles					
9 c	Shopping bags					
9 d	Takeaway and reuseable food containers					
9 e	Reuseable cutlery					
9 f	Small backpack					

Q 10 Would you support an environmental levy to be included in your ferry ticket to offset the costs of managing waste generated by visitors on the Island ?

☐ Yes ☐ No ☐ Don't know ☐ Other.....

Q11. If yes, what do you think would be a reasonable cost per person per return trip?

☐ 0-\$2 ☐ \$2-5 ☐ \$5-10 ☐ Above \$10 ☐ Other.....

Q12. Do you have any other thoughts, ideas or comments on how we can improve waste management on Maggie?

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Finally just some questions about yourself...

Q13 Age Group	<input type="checkbox"/> 18 – 34	<input type="checkbox"/> 35- 54	<input type="checkbox"/> 55 +	
Q14 Gender	<input type="checkbox"/> Female	<input type="checkbox"/> Male	<input type="checkbox"/> Other	
Q15 Did you stay for ?	<input type="checkbox"/> Day visit Go to 18		<input type="checkbox"/> Overnight Go to next Q16	
Q16 How many nights did you stay on the Island?				
Q17 What type of accommodation did you stay in while on the Island?				
<input type="checkbox"/> Hotel / motel / resort	<input type="checkbox"/> Self contained house / unit	<input type="checkbox"/> Backpacker hostel	<input type="checkbox"/> Camp ground	<input type="checkbox"/> Family / friends
Q18 How many previous visits have you made to Magnetic Island?				
Where do you normally live?	<input type="checkbox"/> Townville	<input type="checkbox"/> FNQ	<input type="checkbox"/> Qld other	<input type="checkbox"/> Interstate <input type="checkbox"/> International