



AGENDA

Taranaki Solid Waste

Thursday 18 August 2022, 10.30am

Taranaki Solid Waste Management Committee

Venue: EnviroWaste New Plymouth Transfer Station, Colson Road, Glen Avon.

18 August 2022 10:30 AM

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Membership of Taranaki Solid Waste Management Committee

Neil Walker	Taranaki Regional Council
Alan Jamieson	Stratford District Council
Bryan Roach	South Taranaki District Council
Richard Handley	New Plymouth District Council

Health and Safety Message

Emergency Procedure

In the event of an emergency, please exit through the emergency door in the committee room by the kitchen.

If you require assistance to exit please see a staff member.

Once you reach the bottom of the stairs make your way to the assembly point at the birdcage. Staff will guide you to an alternative route if necessary.

Earthquake

If there is an earthquake - drop, cover and hold where possible.

Please remain where you are until further instruction is given.



Date 18 August 2022

Subject: **Confirmation of Minutes – 26 May 2022**

Approved by: AJ Matthews, Director - Environment Quality
S J Ruru, Chief Executive

Document: 3094983

Recommendations

That the Taranaki Solid Waste Management Committee of the Taranaki Regional Council:

- a) takes as read and confirms the minutes and resolutions of the Taranaki Solid Waste Management Committee meeting held in the Taranaki Regional Council chambers, 47 Cloten Road, Stratford on Thursday 26 May 2022 at 10.30am
- b) notes that the unconfirmed minutes of the Taranaki Solid Waste Management Committee held at the Taranaki Regional Council, 47 Cloten Road, Stratford on Thursday 26 May 2022 have been circulated to the New Plymouth District Council, Stratford District Council and South Taranaki District Council for receipt and information.

Matters arising

Appendices/Attachments

Document 3069473: Minutes Taranaki Solid Waste Committee 26 May 2022



Date: 26 May 2022, 10.30am
Venue: Taranaki Regional Council, 47 Cloten Road, Stratford
Document: 3069473

Present	Councillors	N W Walker A Jamieson B Roach M Chong D H McIntyre R Handley	Taranaki Regional Council (<i>Chairperson</i>) Stratford District Council (<i>Deputy Chair</i>) South Taranaki District Council New Plymouth District Council Taranaki Regional Council New Plymouth District Council <i>zoom</i>
Attending	Ms Mrs Miss Ms Ms Mr Mr Ms Ms Mr Ms Councillor	A Matthews V McKay R Sweeney L Jones L Campbell P McNamara J Cooper J Dearden R Martin J Beeslar T Hunt C L Littlewood	Taranaki Regional Council Taranaki Regional Council Taranaki Regional Council Taranaki Regional Council <i>zoom</i> Stratford District Council <i>zoom</i> Stratford District Council Stratford District Council New Plymouth District Council <i>zoom</i> South Taranaki District Council <i>zoom</i> South Taranaki District Council South Taranaki District Council <i>zoom</i> Taranaki Regional Council <i>zoom</i>

Apologies An apology from A Brash, New Plymouth District Council was received Jamieson/Roach

Notification of Late Items There were no late items.

1. Confirmation of Minutes – 3 March 2022

Recommendations

That the Taranaki Solid Waste Management Committee of the Taranaki Regional Council:

- a) takes as read and confirms the minutes and resolutions of the Taranaki Solid Waste Management Committee meeting held in the Taranaki Regional Council chambers, 47 Cloten Road, Stratford on Thursday 3 March 2022 at 10.30am
- b) notes that the unconfirmed minutes of the Taranaki Solid Waste Management Committee held at the Taranaki Regional Council, 47 Cloten Road, Stratford on Thursday 3 March 2022 have been circulated to the New Plymouth District Council, Stratford District Council and South Taranaki District Council for receipt and information.

Jamieson/Roach

Matters Arising

- 1.1 Ms J Dearden, New Plymouth District Council, provided an update on the kerbside recycling audit. She advised that the audit was now complete and data being analysed, and that information would then be circulated to the Committee once available, noting that it would be prior to the next meeting.
- 1.2 Ms J Dearden shared a slide showing the Material Recycling Facilities (MRF) result for April was 19%, a reduction from 25% in previous months. It was noted that the aim is to further reduce this to 8%. It was also noted that the reduction was not believed to be related to COVID.
- 1.3 Ms J Dearden advised that the Strength, Weakness, Opportunity and Threat (SWOT) report will provide further information in order inform further actions to improve compliance with kerbside recycling requirements.
- 1.4 A discussion was had surrounding how other districts are progressing with contamination rates. It was noted that the Hawkes Bay District Council has a 2% community contamination rates. The Committee requested that an invitation be extended to Hawkes Bay District Council to attend the next meeting to share any learnings with the Committee.

2. Regional Submission for Ministry for the Environment Consultation – Transforming your Recycling

- 2.1 Ms J Dearden, New Plymouth District Council, spoke to advise Members that the Ministry for the Environment (MfE) has released a consultation document ‘Transforming Your Recycling’. Submissions were open up until 22 May 2022. A draft submission was circulated to the Members of this Committee on 18 May 2022.
- 2.2 Ms R Martin, South Taranaki District Council, provided further details on how a container return scheme could work for the region after concern was expressed by the Committee on how practical it would be for rural towns to manage a return scheme. As works are still being done, there have been no formal decisions made however, consideration is being given to ensuring accessibility across the region. The proposal includes stores over 60 sqm which would encompass Four Square Supermarkets located in many small rural towns.

- 2.3 Ms R Martin spoke further to the diversion of organic waste from landfill, noting that the feasibility assessment of required infrastructure has now been completed and that a workshop will take place with all Councils.
- 2.4 Ms J Dearden gave a further update on the engagement survey, information is being compiled for a gap analysis which will identify the barriers and assist in setting new processes. An overview of the survey results will be presented to the Committee at the next meeting. As there are three rounds of engagement, it allows ample time for consultation and feedback from the community.
- 2.5 A discussion was had surrounding collection impacts for glass recycling due to contractor staffing impacts as a result of COVID.

Resolved

That the Taranaki Solid Waste Management Committee of the Taranaki Regional Council:

- a) receives the memorandum *Ministry for the Environment Consultant – Proposed Waste Strategy Regional Submission*
- b) endorses the submission on the proposed waste strategy changes.
Jamieson/Roach

3. Regional Annual Education Plan 2022/2023

- 3.1 Ms R Martin, South Taranaki District Council, spoke to the memorandum Regional Annual Education Plan 2022/2023.
- 3.2 Ms R Martin advised the Committee that education is funded by the waste levy as opposed to rates directly. Currently the Litter Act and the Waste Minimisation Act are under review, that review will look at giving more power to Councils which then provides an opportunity to reassess programme funding.
- 3.3 Ms J Dearden, New Plymouth District Council, provided an update on the Agrecovery 'One stop shop events' advised that there was regional funding to hold more events in future however, an alternative provider would be involved due to unforeseen circumstance when it came to the disposal of the materials (i.e. offshore) and some materials offering no end use.
- 3.4 Ms R Martin responded to a suggestion of Farmsource being an alternative provider, noting that a number of suppliers offer chemical and silage wrap collection services. Agrecovery was primarily funded through MfE. Investigations are underway to potentially subsidise the service.

Resolved

That the Taranaki Solid Waste Management Committee of the Taranaki Regional Council:

- a) receives the memorandum *Update on the Current Significant Projects for Taranaki*
Walker/Jamieson

4. General Business

- 4.1 Chairman N W Walker, requested for an EnviroWaste representative to be invited along to the next Committee meeting.
- 4.2 Next Committee meeting to be held at the Junction with Sustainable Taranaki.

There being no further business, Committee Chairperson, N W Walker, declared the meeting of the Taranaki Solid Waste Management Committee closed at 11.52am.

Confirmed

Chairperson _____

N W Walker
18 August 2022



Date 18 August 2022

Subject: **Regional Waste Minimisation Officer's Activity Report August 2022**

Approved by: AJ Matthews, Director - Environment Quality
S J Ruru, Chief Executive

Document: 3095792

Purpose

1. The purpose of this memorandum is to report to the Committee on significant activities undertaken by the Regional Waste Minimisation Officer (RWMO), in collaboration with the district council officers of NPDC, STDC and SDC.

Recommendations

That the Taranaki Solid Waste Management Committee:

- a) receives the memorandum *Regional waste minimisation Officer's Activity Report August 2022*
- b) notes the activities of the Regional Waste Minimisation Officer and district councils.

Discussion

2. Attached is the regional waste minimisation officer's activity report August 2022.

Financial considerations—LTP/Annual Plan

3. This memorandum and the associated recommendations are consistent with the Council's adopted Long-Term Plan and estimates. Any financial information included in this memorandum has been prepared in accordance with generally accepted accounting practice.

Policy considerations

4. This memorandum and the associated recommendations are consistent with the policy documents and positions adopted by this Council under various legislative frameworks including, but not restricted to, the *Local Government Act 2002*, the *Resource Management Act 1991* and the *Local Government Official Information and Meetings Act 1987*.

Iwi considerations

5. This memorandum and the associated recommendations are consistent with the Council's policy for the development of Māori capacity to contribute to decision-making processes (schedule 10 of the *Local Government Act 2002*) as outlined in the adopted long-term plan and/or annual plan. Similarly, iwi involvement in adopted work programmes has been recognised in the preparation of this memorandum.

Community considerations

6. This memorandum and the associated recommendations have considered the views of the community, interested and affected parties and those views have been recognised in the preparation of this memorandum.

Legal considerations

7. This memorandum and the associated recommendations comply with the appropriate statutory requirements imposed upon the Council.

Appendices/Attachments

Document 3095797: Regional Waste Minimisation Officer's Activity Report August 2022



Agenda Memorandum

Date: August 2022

Memorandum to Chairperson and Members Taranaki Solid Waste Management Committee

SUBJECT: REGIONAL WASTE MINIMISATION OFFICER'S ACTIVITY REPORT AUGUST 2022

PURPOSE

The purpose of this memorandum is to report on significant activities undertaken by the Regional Waste Minimisation Officer (RWMO), in collaboration with the district council officers of NPDC, STDC and SDC.

This report provides information on activities in the wider community and matters of potential interest to the Committee from June -August2022.

RECOMMENDATION

That the Taranaki Solid Waste Management Committee:

1. Receives the memorandum and notes the activities of the Regional Waste Minimisation Officer and district councils.

DISCUSSION

*Covid -19 impact on services and education campaigns - *NPDC* *STDC* *SDC**

Since the last meeting of the Committee held in May 2022, New Zealand has remained in the orange traffic light level (13 April 2022). There are still a number of Omicron community cases around the country and in the Taranaki community. As the community moves to live with covid, our waste officers have been able to plan more face to face waste minimisation and behaviour change projects and campaigns for our communities. Staffing at Councils has been reduced at times due to illness from Covid and influenza which has impacted on waste minimisation projects .

*Plastic Free July (PFJ) 2022 - *NPDC* *STDC* *SDC**

From 1 – 31 July the three councils promoted Plastic Free July (PFJ). The RWMO coordinated with waste officers a series of social media posts, displays and pop ups across the region. To encourage the community to make positive choices by going plastic free during July and reducing the use of single use plastics, this year's theme was 'In Aotearoa we choose to Avoid, Reduce & Reuse'. This theme was promoted by both Plasticfreejuly.org and WasteMINZ nationally. Under the Councils' Annual

Education Plan it was agreed to promote this concept jointly. Individually councils promoted PFJ with the budget they had allocated. Councils were able to jointly coordinate PFJ displays at local libraries as well as Facebook posts. Internal staff promotions at councils were also posted on pin boards and intranets.

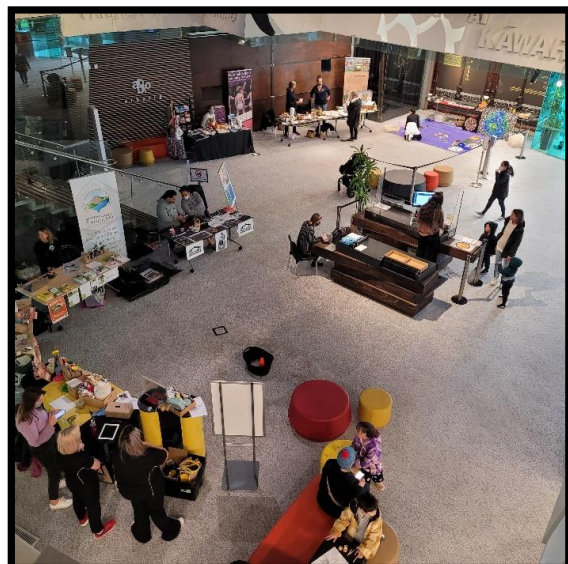


Ollie Leuthart with our NPDC raffle winner - Marlene Lewis



NPDC staff were encouraged to 'Bring it' – this promoted the use of reusable coffee cups. These were also available to buy from the Civic Centre café.

In addition NPDC coordinated a Zero Waste PFJ Pop up event at Puke Ariki (19 July). Community partners were invited to set up a stall at this free event focusing on alternatives to single use plastics – community partners that attended were Para Kore, Enviroschools, Sustainable Taranaki, Bay Addictions, and WISE. Artist Lorella Doherty who focuses on found items on beaches had an interactive mat that children to could engage with. The pop up focused on the upper waste hierarchy (avoid, reduce and reuse) with the target audience being families, as the event was held in the school holidays. The Zero Waste team promoted reusable coffee cups, period products, and straws showcasing plastic free alternatives to use at home and at work. There were two exciting raffles promoted at the NPDC stall. The public were asked to make a pledge to go plastic free in exchange for entry into the draw. The kids entered a colouring competition based on our zero waste logo. This event was promoted on NPDC Facebook, Zero Waste Taranaki, and through partners' social media. Four hundred + people attended the PFJ pop up event at Puke Ariki between 10 am – 1pm. This was a great result.



ECM 8815612

	REACH	TOTAL ENGAGEMENT
NPDC FB POST- Take a pledge. 5 July	4180	34
NPDC FB POST –Simple Swaps. 20 July	4,496	32
NPDC event posting July	3,001	56

	REACH	TOTAL ENGAGEMENT
STDC FB POST- Take the challenge. 24 June	2,090	72
STDC FB POST – Reusable coffee cups. 20 July	1,143	18
STDC FB POST – Say no to plastic straws. 22 July	1,115	7
STDC FB POST – Take a pledge. 29 July	2,319	159

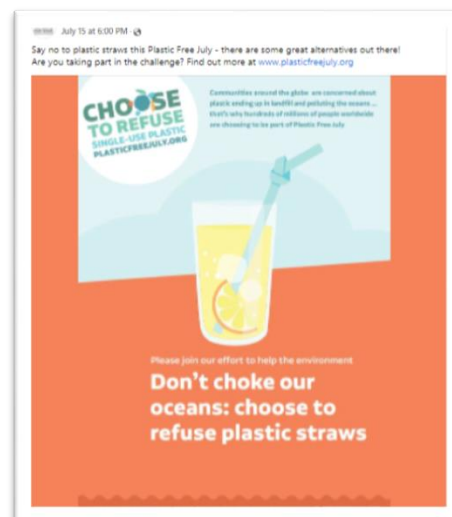
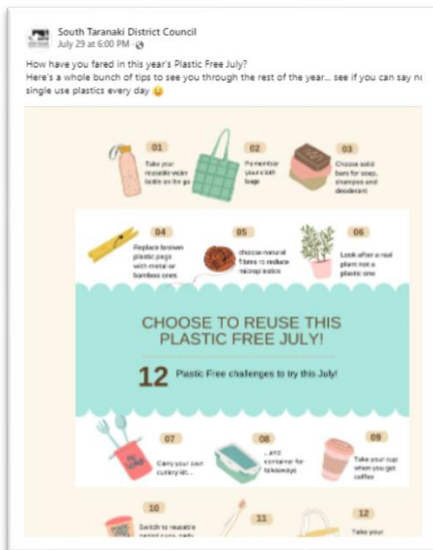
	REACH	TOTAL ENGAGEMENT
SDC FB POST- Single use plastics internationally. 27 June	617	8
SDC FB POST – Did you know we only recycle 1,2 and 5. 3 July	704	6
SDC FB post – the plastic bottle. 22 July	740	7

At SDC, the Plastic Free July in-house engagement increased with a lot of feedback and competitiveness through the use of quizzes and competitions. The library display was well viewed and challenged a few ideas of what plastic is and does.

Who can help me reduce waste?

- There are a number of organisations that can supply education and resources.

Regional collateral used as part of the regional campaign.



Walk in Wardrobe - Reuse *NPDC*

The Zero Waste team is supporting the promotion of preloved, vintage, upcycled, and handmade clothing, shoes, jewellery, and accessories. Three events are being held in Taranaki in 2022 with the first event on 29 May at the Bell Block Hall. NPDC funded the rental of the hall through the waste levy. All stallholders are independent, so no two events are the same.



The May event was very successful with:

- Total items sold: 1461+ (see chart below for breakdown).
- Total people in attendance: 750.
- Promoted as a 'Zero Waste Event' which resulted in 100% waste diverted from landfill with only about 1/8 of a bag of compostable cups sent away for commercial composting.
- Zero Waste Taranaki gave away six water bottles and 64 bags (seven yellow, 20 jute, 37 cotton).

Breakdown of reusable items sold – 29 May 2022, My Walk in Wardrobe Event (does not include 5 vendors who failed to provide data)				
Second Hand Clothing	Second Hand accessories	Upcycled\ Hand Made Clothing	Upcycled\ handmade accessories (e.g., shoes, bags, jewellery)	TOTAL
19	6			
25				
30	6			
21	2			
21	1			
30	5			
		63		
52	8			
19				
10	2			
20	3			
23	10			
60	5	1		
		76		
48	4	24		
50	5			
6	1			
27	6			
69				
28			5	
35	2			
20			20	
56				
38	5			
5				
27				
63				
48				
50				
69				
80				
61				
21				
41				
21	8			
1193	79	164	25	1461

Future Event Dates: New Plymouth, Bell Block Hall, 10am-2pm.

- 28 August 2022
- 27 November 2022

WITT – *NPDC*

Community and education officers attended the WITT O-Week Market Day along with approximately 10 other organisations across New Plymouth. Our theme focussed on Plastic Free July, with a display of reusable/plastic free items for daily living. Students were encouraged to make a pledge for how they would change their single-use plastic habits going into a draw to win a prize pack of reusable household items. The event ran for 1 hour over lunch and we talked to approximately 35 people and received 27 pledges.



Bid Foods Trade Show – *NPDC*

Our Resource Recovery Team had a stall at the Bidfoods Tradeshow this was led successfully by our Commercial Waste Minimisation Officer Dominique Scarf. This was to showcase NPDC waste reduction support which includes all commercial waste advice, site visits, Resource Wise Business Programme, and the 'Bring It' reusable cup and container campaign. We were able to reach hospitality/food businesses who stopped to ask about compostable containers and organics collection services, our waste reduction campaigns and glass recycling amongst other questions. There were also questions around reusable containers and packaging for caterers who were making school lunches and wanted to minimise waste. We were able to monitor the bin stations and educate on diversion as well as direct businesses to donate food to On the House which had a stall next to us on the day.



Ministry for the Environment work plans *NPDC* *STDC* *SDC*

The Ministry for the Environment (MfE) hot topics are summarised in the table below.

What's going on in Waste	Progress
Work plan progress	
Interactive map for waste minimisation projects now available.	<p>MfE have launched a new waste funding online platform.</p> <p>The platform gives a clear, overall picture of all Waste Minimisation Fund (WMF) projects that have been funded since 2010.</p> <p>The new platform is user-friendly and easy to navigate. It helps people easily ask and answer questions and keeps prospective applicants informed.</p> <p>It is also an exemplary, up-to-date medium of public reporting, which provides an interactive map of Aotearoa New Zealand showing all the projects funded through the WMF.</p> <p><i>Check out the new platform here</i></p>
Regulations to phase out hard-to-recycle and single-use plastics	<p>The items banned as of 1 October 2022 are:</p> <ul style="list-style-type: none"> • Plastic cotton-buds • Plastic drink stirrers • Oxo- and photo-degradable plastic products • Certain PVC food trays and containers (pre-formed and rigid) • Polystyrene takeaway packaging • Expanded polystyrene food and beverage packaging <p><i>Further phase-outs (2023-2025)</i></p>

<p>Waste levy expansion implementation</p>	<p>From 1 July 2022:</p> <ul style="list-style-type: none"> Class 3/4 (managed/controlled fills), class 5 (cleanfills), and industrial monofills are obligated to register in the Online Waste Levy System (OWLS). Class 1 (municipal) landfills, class 2 (construction and demolition fills), and transfer stations should already be registered and reporting. The levy rate for Class 1 municipal disposal facilities will increase from \$20 per tonne to \$30 per tonne - as per the Waste Minimisation (Calculation and Payment of Waste Disposal Levy) Regulations 2009. The amount will increase up to \$60 per tonne from 1 July 2024. <p><i>Class 2 construction and demolition facilities are subject to a Waste Disposal Levy of \$20 per tonne. The amount will increase to \$30 per tonne from 1 July 2024.</i></p>
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***Review of the Waste Management and Minimisation Plan project update - *NPDC*
STDC *SDC****

The Waste Assessment and resulting Waste Management and Minimisation Plan (WMMP) is intended to be the guiding action plan for councils to promote and achieve effective and efficient waste management and minimisation within their district and is reviewed every six years. The next review of Councils' WMMPs is being undertaken regionally with the help of consultants Tonkin & Taylor.

The project will achieve the following objectives:

- Fulfil the statutory requirement to review the plan within six years.
- Incorporate changes resulting from review of WMA, Strategy and Litter Act, and MfE's work programme.
- Provide transparency on how the councils will deliver on objectives, policies and targets for waste management and minimisation.
- A document that is action oriented and provides a guide for decision making and community collaboration.
- Allows for codesign with Iwi/hapu.
- Includes early engagement with key stakeholders
- Provides a plan for improvements to data collection to achieve the requirement of the National Data Framework
- Provide a framework to drive behaviour change for waste minimisation within the community.
- Incorporates other relevant legislation such as Climate Change and emissions reduction within waste services (including Emissions Reduction Plan), RMA reforms, and local government reforms.

The review process involves:

ECM 8815612

1. Evaluating where we are at? (current state)
2. Where we want to be? (vision)
3. And how are we going to get there? (options and actions)

The project is currently at the first stage – data gathering and assessment of the effectiveness of our currently WMMPs. As part of this stage engagement with key stakeholders is being completed (stage 1 engagement).

The WMMP Stage 1 engagement included a series of workshops with key stakeholders to assess the effectiveness of our services for the last six years. Key stakeholders were invited to complete a SWOT analysis with NPDC, SDC and STDC officers to feedback their perceptions of Zero Waste Taranaki waste management and minimisation. The outputs from these workshops will contribute to the development of WMMP 2023-2029.

The Towards Zero Waste Behaviour Change Evaluation Survey was also completed with the wider community and is presented in a separate memo.

Data is currently being compiled, analysed and a gap analysis completed. This will form the basis for our second stage –setting our vision – where wider community engagement on where we want to be in the future will be completed (planned for October/November 2022).

Options analysis and draft WMMPs will be completed in 2023.

By the Numbers		
	6 2 hour workshops	Stakeholders were invited to share their feedback on our waste services
	51 Attendants	Partners, Community, Commercial, Waste Service Providers, Farming, TRC representatives and council staff attended our workshops
	308 Statements & Ideas	We captured the strengths and weaknesses of our services, plus looked at any opportunities and threats for the future
	26 Businesses & Organisations	The participants of workshops represented a range of stakeholders from around Taranaki



Education Report - *NPDC*

In the months of June and July, the Waste Minimisation Officers for schools has provided the Zero Waste Education Programme to over 550 children in Spotswood Primary, Woodleigh School, Puketapu School and Frankley School. The tamariki have experienced “hands-on” learning around sensible shopping, reusing, recycling and composting.



Tamariki from Woodleigh School, proudly displaying their art work created from waste following the NPDC Waste Minimisation Officer's visit.

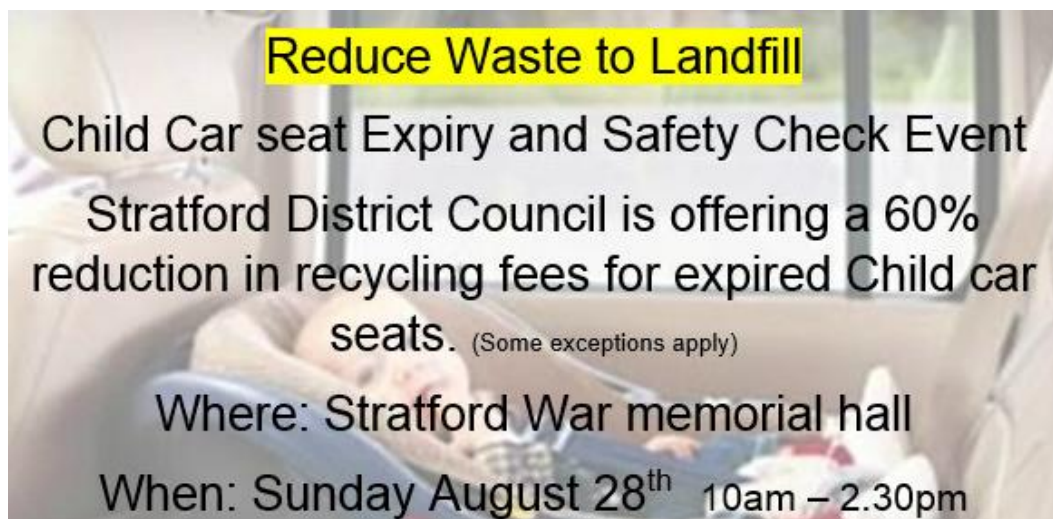
In addition NPDC hosted a Train the Trainer Workshop on waste minimisation for teachers and educators in the district, presented by the Sustainability Trust. It was a great opportunity to learn the challenges and barriers schools face in minimising waste to landfill and to share ideas around best practice.

NPDC has also been assisting Frances Douglas Memorial College with their project around reusing disposable face masks to create artwork and advising how to do this safely, preventing them going to landfill. There will be mask collection boxes at both Puke Ariki museum and the library.

Moturoa School were the worthy winners of our composting competition for schools and will be presented with their prize of a worm farm this week. The NPDC Waste Minimisation Officer for schools will be assisting them with setting up the worm farm and providing the i with an education session on how to care for their worm farm and use it for disposing of their organic waste.

Education Report - *SDC*

A number of projects are underway with the first *Reduce waste to landfill* event promoting Seat Safe to be held on the 28 August.



The education officer has produced a number of powerpoint presentations around waste minimisation and is currently setting dates to present these to schools in the SDC region. Dependant on feedback these can then be added into the pool of resources for regional use.

Education Report - *STDC*

South Taranaki District Council ran a Facebook campaign during July encouraging locals to take part in Plastic Free July, with numerous posts with tips and tricks for residents.



All seven South Taranaki LibraryPlus's got involved in Plastic Free July, by having 'Simple Swaps' displays in their respective libraries. Showcasing to local residents' ideas about the simple swaps they can start doing at home to start them of on their own plastic free (and single use) journeys.



Prepared by

Miss Jessica Dearden

REGIONAL WASTE MINIMISATION OFFICER

ECM 8815612



Date 18 August 2022

Subject: **Waste Management and Minimisation Plan Regional Annual KPI Summary 2021/2022**

Approved by: AJ Matthews, Director - Environment Quality
S J Ruru, Chief Executive

Document: 3095793

Purpose

1. The purpose of this memorandum is to present to the Committee the waste management and minimisation plan regional annual KPI summary 2021/2022.

Recommendations

That the Taranaki Solid Waste Management Committee:

- a) receives the memorandum *Waste management and minimisation plan regional annual KPI summary 2021/2022*.

Discussion

2. Attached is the waste management and minimisation plan regional annual KPI summary 2021/2022.

Financial considerations—LTP/Annual Plan

3. This memorandum and the associated recommendations are consistent with the Council's adopted Long-Term Plan and estimates. Any financial information included in this memorandum has been prepared in accordance with generally accepted accounting practice.

Policy considerations

4. This memorandum and the associated recommendations are consistent with the policy documents and positions adopted by this Council under various legislative frameworks including, but not restricted to, the *Local Government Act 2002*, the *Resource Management Act 1991* and the *Local Government Official Information and Meetings Act 1987*.

Iwi considerations

5. This memorandum and the associated recommendations are consistent with the Council's policy for the development of Māori capacity to contribute to decision-making processes (schedule 10 of the *Local Government Act 2002*) as outlined in the adopted long-term plan and/or annual plan. Similarly, iwi involvement in adopted work programmes has been recognised in the preparation of this memorandum.

Community considerations

6. This memorandum and the associated recommendations have considered the views of the community, interested and affected parties and those views have been recognised in the preparation of this memorandum.

Legal considerations

7. This memorandum and the associated recommendations comply with the appropriate statutory requirements imposed upon the Council.

Appendices/Attachments

Document 3095794: Waste management and minimisation plan regional annual KPI summary 2021/2022



Date: 10 August 2022

To: Taranaki Solid Waste Management Committee

SUBJECT: WASTE MANAGEMENT AND MINIMISATION PLAN REGIONAL ANNUAL KPI SUMMARY 2021/2022

Background

The three district councils adopted new Waste Management and Minimisation Plans (WMMP) in 2017 (NPDC) and 2018 (SDC and STDC). Four years of data has been collected since the plans were adopted.

The purpose of this memo is to briefly review the annual data and establish how each district is tracking towards its five year targets outlined in the WMMPs. Previous data used to develop the WMMPs will provide a comparison and help us measure progress toward targets.

Key Performance Indicators

Each district’s WMMP outlines their key targets that will be used to monitor progress over the six year term of these plans and also towards the longer term aspirational goal of Zero Waste. The targets for each Council are provided in Appendix 1.

As required in the WMMP action plans, Key Performance Indicators have been aligned with the National Waste Data Framework where relevant (as indicated by a *).

A selection of KPIs that show overall waste minimisation progress where this is measured on an annual basis are presented below.

KPI/Target	NPDC	SDC	STDC
1 Reduce the total waste volume per capita that goes to landfill	10% by 2023	0.71t/hh/year	5% by 2023 (from district)
2 Reduce the total waste volume per household going to landfill from the Council kerbside collection	25% by 2023	0.46T/hh/year	5% by 2023
3 Increase the volume of household waste diverted to recycling by 1% per year (Council kerbside service only)	Increase by 1% per year	Increase to 29% by 2023	Increase by 1% per year
4 Reduce contamination of Council kerbside recycling to 8% or less	≤8%	≤8%	≤8%



1. Total volume of waste per capita

Table 1 shows the amount of waste disposed per person in 2021/22 compared to the previous five years and baseline data for 2012/13 and 2015/16.

At a regional level, initiatives implemented to date in the waste plans have had an effect in reducing the amount of waste disposed per person compared to the baseline data 2012/13 and 2015/16. However, within each district, an increase in waste disposed per person occurred over the last year in South Taranaki and New Plymouth whereas Stratford’s disposal rate has reduced slightly.

Figure 1 shows a 5% increase in total tonnage disposed to landfill from Council services in 2021/22 compared to 2020/21, but was similar to 2019/20. Populations have increased in each district and Covid-19 could be influencing the amount of waste going to landfill, with increased commercial activity as a result of central government funding stimulating the economy and more residents working from home. With a recent downturn in the economy, next year may see a corresponding reduction in waste landfilled.

Table 1 Tonnes of waste disposed to landfill per capita in the three districts in Taranaki

TLA	2012-2013	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
NPDC	0.700	0.560	0.445	0.401	0.384	0.319	0.291	0.292
SDC	0.256	0.230	0.183	0.181	0.178	0.194	0.176	0.171
STDC	0.360	0.320	0.279	0.246	0.289**	0.374**	0.417**	0.469**
TOTAL	0.582	0.469	0.385	0.348	0.345	0.322	0.311	0.323

** Increase in waste to landfill for STDC as Hawera transfer station is accepting more waste from commercial waste service providers due to a change in landfill and commercial waste collection no longer being part of kerbside collection.



Figure 1 Total annual waste disposed to landfill since 2010/11



2. Total volume of waste per household from kerbside collection

This KPI is also an indicator for the National Waste Data Framework.

Figure 2 shows the waste per household disposed to landfill from each of the three councils' kerbside collections.

Stratford continues to have the highest disposal rates per household with a slight increase in landfill waste in 2021/22 compared to last year. Since 2015/16 Stratford household waste disposal has remained static apart from a small peak in 2019/20. South Taranaki District Council landfill waste per household has also remained stable over time. New Plymouth showed a significant drop in waste per household with the new kerbside recycling system (2015) but has since increased slightly over time, peaking in 2018/19 before dropping in 2019/20 following the introduction of the food scraps collection in October 2019. A small increase has occurred this year. Waste disposal in 2019/20 – 2021/22 for all three councils has been affected by the Covid-19 lockdowns when recycling, glass and food scraps were either not collected or landfilled for several weeks at a time. More residents working from home may be influencing the increases in the last year.

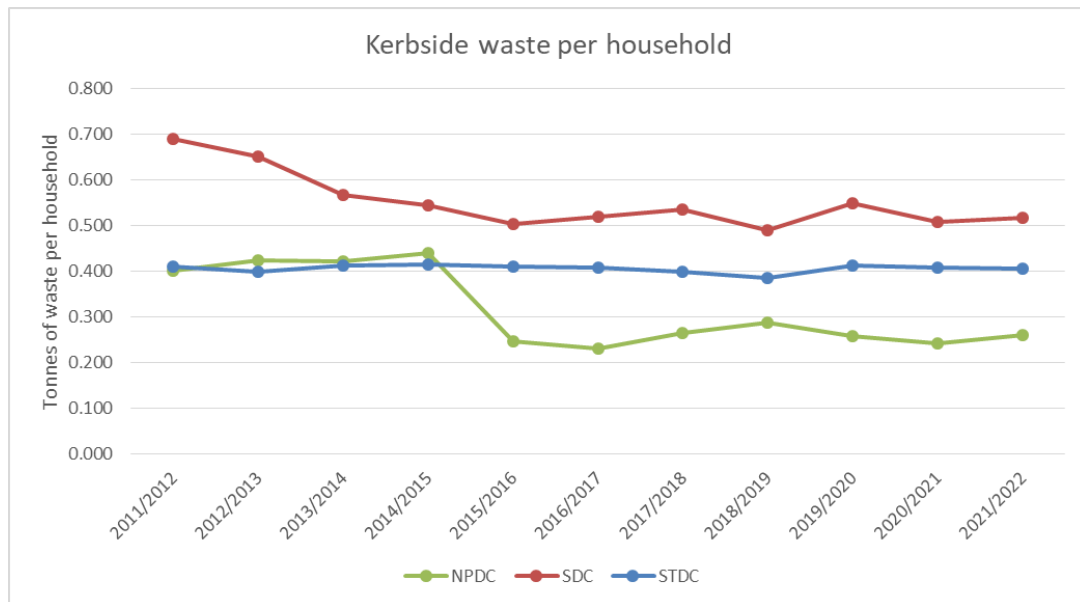


Figure 2 Amount of waste per household collected from Council kerbside collections

3. Volume of household waste diverted to recycling

Figure 3 shows the portion of kerbside waste that is collected for recycling for each council (including food scraps collection for NPDC).

The introduction of the new kerbside recycling in 2015 is evident with an increase in the portion of waste recycled, particularly in New Plymouth and Stratford (Figure 3). New Plymouth's recycling as a percentage of total waste collected was generally decreasing until the food scraps service was introduced in 2019/20. Stratford's recycling rate is 19% which is



under the target of 29% of kerbside waste being recycled by 2023. South Taranaki continues to show a decrease in the percentage of waste recycled following a peak in 2018/19.

Since 2015, New Plymouth residents have consistently recycled a higher percentage of their household waste compared to Stratford and South Taranaki.

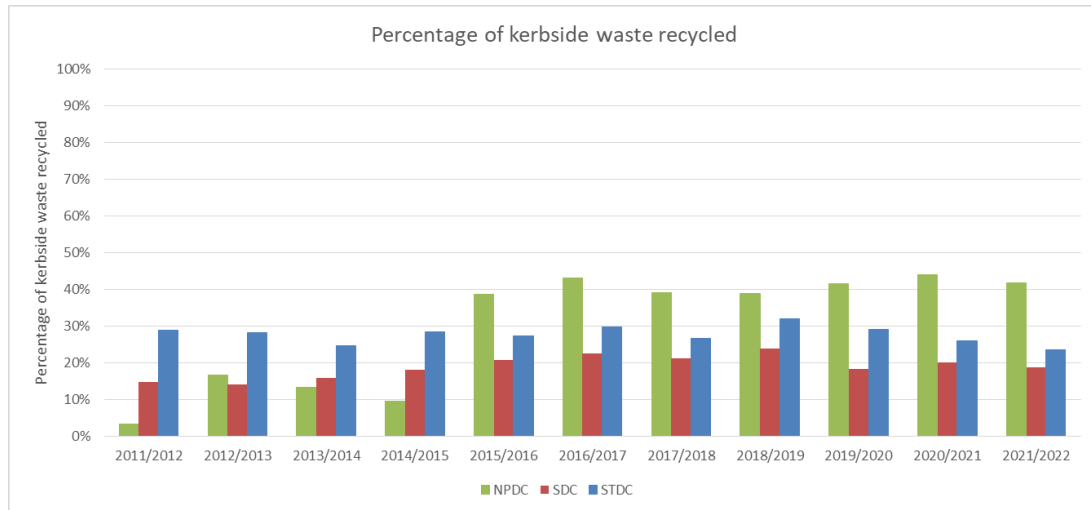


Figure 3 Portion of kerbside waste that is recycled annually

The percentage increase in recycling year on year is a target in council WMMPs. Table 2 shows the year on year percentage increase for each council since 2012/13. In the last year there has been a decrease in recycling compared to 2020/21 for all three councils. While this could likely be due to the ongoing impact of Covid-19 on recycling collections it may also indicate the community is less engaged in recycling.

Table 2 Percentage increase in recycling compared to previous year (excludes food scraps)

Year	NPDC	SDC	STDC
2012/2013	81%	-5%	-2%
2013/2014	-25%	11%	-14%
2014/2015	-39%	12%	13%
2015/2016	75%	13%	-5%
2016/2017	10%	8%	8%
2017/2018	-10%	-7%	-11%
2018/2019	-1%	11%	16%
2019/2020	-8%	-29%	-9%
2020/2021	1%	9%	-12%
2021/2022	-4%	-7%	-11%



Figure 4 shows the total volume of recycling per year for both kerbside and transfer stations combined. Stratford district shows a consistent level of recycling across their services with a slight decreasing trend in recycling volume. New Plymouth has increased recycling since the implementation of the new recycling service in 2015, dropping slightly in 2019/20. South Taranaki district has had steady recycling volumes, with slightly more recycling between 2019 and 2021 but dropping in the last year.

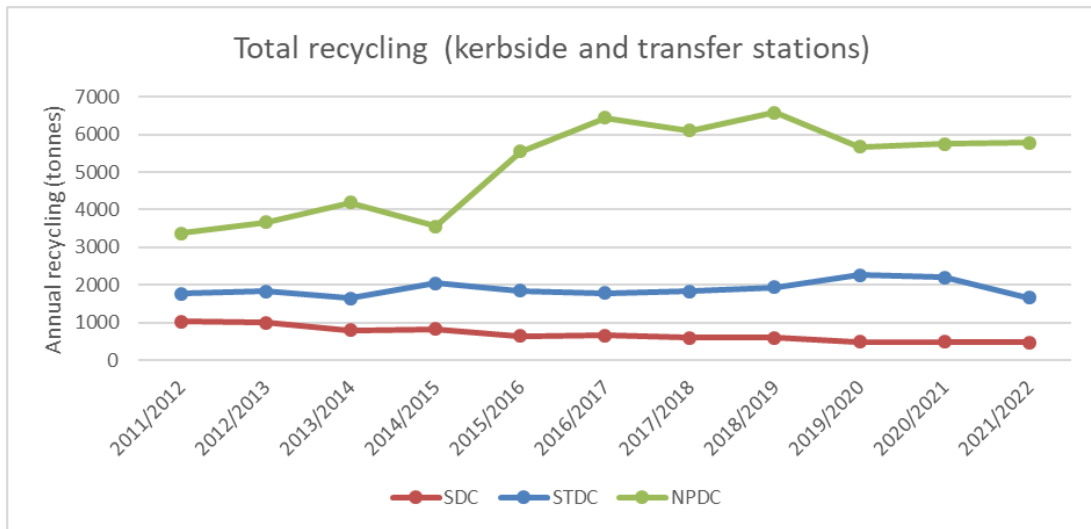


Figure 4 Total recycling from council services (kerbside and transfer stations)

When the recycling is compared on a per household basis, the three councils have similar rates of recycling at kerbside with a decreasing trend in the last four years (Figure 5). This KPI is also an indicator within the National Waste Data Framework.

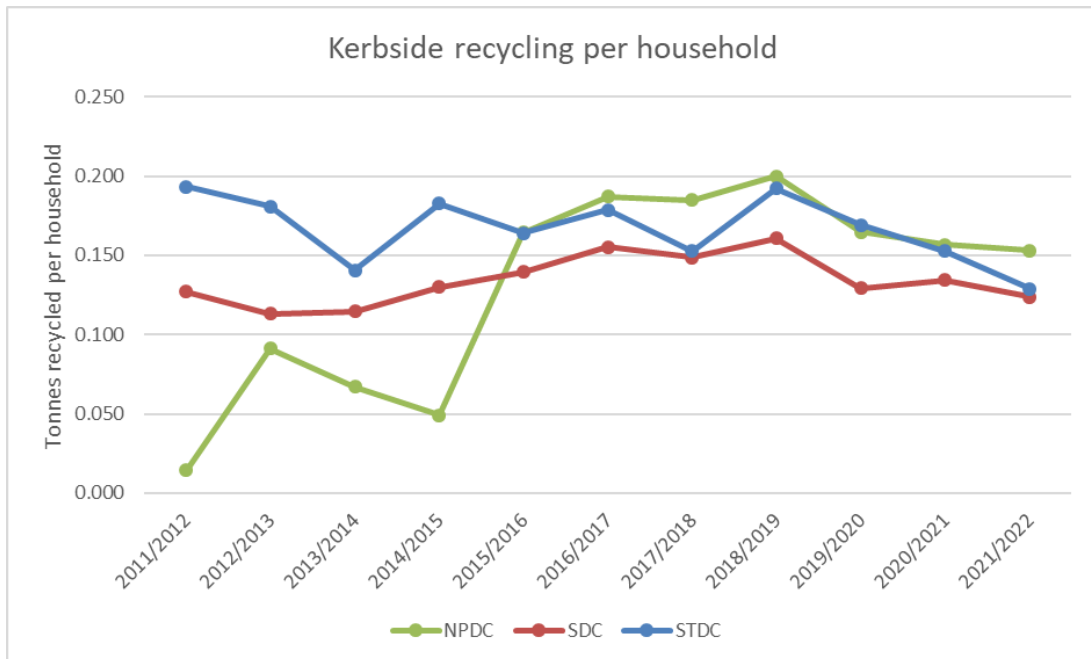


Figure 5 Kerbside recycling per household for each district since 2011/12



4. Percentage contamination of recyclables

The percentage of non-recyclable items collected as part of the Council recycling services (both kerbside and transfer stations) has shown a steady increase over time, with a peak in 2019/20 as a result of kerbside collection changes during covid lockdown and higher contamination post the lockdown. While contamination has since reduced, it has taken some time to return to pre-covid levels, despite increased education and monitoring effort across the region (Figure 6). The target of 8% or less has not yet been achieved since the service began in October 2015. A recent equipment upgrade at the recycling processing plant (an optical sorter) resulted in a drop in contamination to below 20% for the first time since 2019. Contamination is also an issue with a number of other councils in New Zealand (i.e. Christchurch is experiencing similar levels to Taranaki).

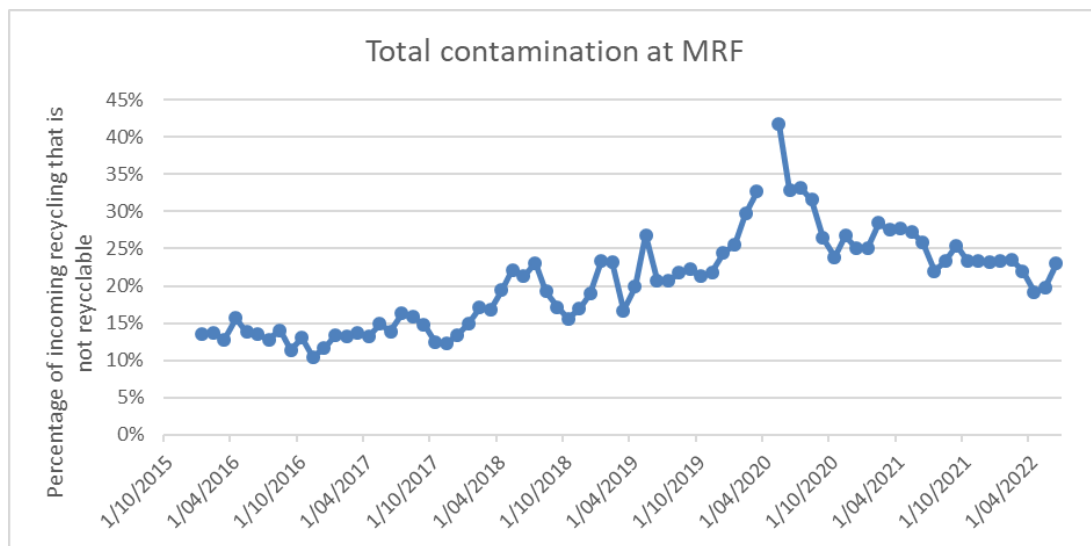


Figure 6 Percentage contamination of mixed recyclables at the Material Recovery Facility since 2015

Conclusion

A summary of the three district council’s performance against WMMP KPIs is provided in Table 3. WMMP KPI targets are attached for reference in Appendix 1. Stratford and New Plymouth districts are tracking towards target reduction in total waste volume per capita to landfill but South Taranaki District Council is not meeting their KPI for reducing total waste volume per capita. However for kerbside collections, STDC are meeting the KPI per household reduction, indicating that the disposal of more commercial waste at the transfer station since the landfill has changed to an out of region landfill may be impacting on overall waste reduction targets. New Plymouth district and SDC are not meeting the KPI for the reducing waste at the kerbside and recycling performance for all three councils is also below target.



The pending review of Waste Management and Minimisation Plans will explore some of the challenges associated with waste minimisation and consider further actions to address recent trends and hopefully result in some improvement in the above KPIs.

Table 3 Summary of 2021/22 performance against WMMP targets

KPI/Target	NPDC	SDC	STDC
Reduce the total waste volume per capita that goes to landfill	✓ - 48%	✓ 0.655T/hh/year (KPI not per capita)	✗ 46%
Reduce the total waste volume per household going to landfill from the council kerbside collection	✗ 7%	✗ 0.52T/hh/year	✓ -1%
Increase the volume of household waste diverted to recycling by 1% per year (Council kerbside service only)	✗ -4%	✗ -7%	✗ -11%
Reduce contamination of Council kerbside recycling to 8% or less	✗ 24% av for 2021/22	✗ 24% av for 2021/22	✗ 24% av for 2021/22

✓ = on track or achieved in 2021/22; ✗ = not achieved in 2021/22

PREPARED BY

Jessica Dearden
REGIONAL WASTE MINIMISATION OFFICER

Kimberley Hope
MANAGER RESOURCE RECOVERY



Appendix 1 WMMP Targets for each council

New Plymouth District Council WMMP Targets

TARGETS	2015/16 BASELINE DATA	REF #
Waste to landfill		
Reduce the total waste volume per capita going to the regional landfill by 10% by 2023.	0.56 tonnes/capita/annum (NPDC)	L1
Reduce the total waste volume per household going to landfill from the Council kerbside collection by 25% by 2023.	0.26 tonnes/household/year (7,132 tonnes; 27,536 households)	L2
Any increase in waste volumes to landfill to remain below any increase in regional economic performance.	Total waste to landfill: 54,801 tonnes Taranaki \$75,941 GDP per capita ⁵ National \$52,953 GDP per capita ⁶	L3
Diversion of waste		
Increase the amount of household waste diverted to recycling by 1% per year (Council provided kerbside collection only).	Waste: 7,131 Recycling: 4,918 Proportion: 41%	D1
Reduce contamination of Council provided kerbside recycling delivered to the Material Recovery Facility to 8% or below.	8% (NPDC) 12% (Region)	D2
Organic waste		
Reduce the amount of organic waste to landfill by 30% by 2023.	9,984 tonnes/annum	O1
Reduce the amount of organic waste in the Council provided kerbside rubbish collection by 50% by 2023.	4,510 tonnes/annum (3.4 kg per household per week)	O2
Customer satisfaction		
Percentage of community satisfied with the solid waste service exceeds 81% (NRB Survey).	82% (excluding 'don't knows')	S1
Total number of complaints received about the Council's solid waste service remains at or below three per 1,000 households.	0.84 complaints per 1,000 households (26 complaints; 31,000 households)	S2
Public health		
No public health advisory notices from Taranaki District Medical Officer of Health in relation to the Council's responsibilities for solid waste under the Health Act 1956.	Zero	H1
95% of the population has access to a waste disposal service – either via a kerbside collection or live within 20 minutes' drive of a transfer station.	98%	H2
Environmental, health and safety compliance		
No abatement notices received for the landfill.	1	C1
No infringement notices received for the landfill.	1	C2
No enforcement notices received for the landfill.	0	C3
No convictions received for the landfill.	0	C4
No convictions under the Health and Safety at Work Act 2015.	0	C5
Community engagement		
Number of education tours to the Resource Recovery Facility will exceed 52 per year.	56 tours in 2016	E1
Waste community engagement survey completed every two years.	N/A	E2

⁵ Stats NZ Regional Gross Domestic Product Year ended March 2015- tables.

⁶ Stats NZ Regional Gross Domestic Product Year ended March 2015- tables.



Stratford District Council WMMP Targets

Target Reference	Performance Measure	Baseline data (2015/16)	2023 Target
WASTE TO LANDFILL			
T1	Any increase in Regional Waste (RW) volumes to Landfill to remain below any increase in Regional Economic Performance (REP).	<ul style="list-style-type: none"> Total Regional waste to Landfill: 54,000 T Taranaki Regional GDP per capita is \$75,941; National GDP per capita is \$52,953. 	Changes in RW < Changes in REP
T2	Reduce the volume of the Kerbside collection waste per household in the district going to Landfill	0.51 T/household/year (1261/2450)	0.46 T/ household/year
T3	Reduce the total waste volume in the district going to Landfill per household.	0.77 T/household/year (1886/2450)	0.71 T/ household/year
DIVERSION OF WASTE - RECYCLING			
T4	Increase the amount of Kerbside collection waste diverted to recycling in the district.	24 % (K/R) , comprising: <ul style="list-style-type: none"> Kerbside waste plus recycling (K) = 1689 T Recycling (R) = 406 T 	Increase to 29 %
T5	Reduce contamination of Kerbside recycling delivered to the MRF.	12%	Reduce to ≤ 8 %
DIVERSION OF WASTE - ORGANIC WASTE			
T6	Reduce the amount of organic waste in the district Kerbside collection.	37 %	Reduce to 32%; OR Reduce to 27 % (If SDC introduces Organic Waste Collection in 2021)
CUSTOMER SATISFACTION			
T7	Percentage of community satisfied with the solid waste service.	96.7 % (including neutrals and excluding 'don't knows')	≥ 90%.
PUBLIC AND ENVIRONMENTAL HEALTH			
T8	Percentage of population in the district with access to a waste disposal service – either via a Kerbside collection or live within a 30-minute drive of a transfer station.	85 %	90 % (If SDC introduces a Recycling Service in Whangamomona in 2021) 85 % (Otherwise)
T9	Provide a district facility which receives non-industrial /domestic quantities of hazardous waste for appropriate disposal.	1 facility	1 facility
T10	Compliance with resource consent conditions for Council-operated solid waste district facilities.	100 % compliance	100 % compliance
COMMUNITY ENGAGEMENT			
T11	Regional Education Campaign on Waste Management and Minimisation.	1 annually	1 annually
T12	Waste Community Engagement Survey	0	1 biennially
T13	Regional Waste Minimisation Officer	1 (shared resource)	1 (shared resource)



South Taranaki District Council WMMP Targets

COUNCIL TARGETS		2015/16 BASELINE DATA
WASTE TO LANDFILL		
T1	Any increase in waste volumes to landfill to remain below any increase in regional economic performance. (Not to exceed current ratio – 711 kg/\$)	Total waste to landfill: 54,000 tonnes Taranaki \$75,941 GDP per capita ² National \$52,953 GDP per capita ³
T2	Reduce the total waste volume from STDC going to landfill by 5% by 2023, measured on a per capita basis. (0.30 tonnes/capita/annum by 2023)	STDC 0.32 tonnes/capita/annum
T3	Reduce the total waste volume per household going to landfill from Council kerbside collection by 5% by 2023. (0.35 tonnes/household/year)	0.37 tonnes/household/year (3,187 tonnes; 8,542 households)
DIVERSION OF WASTE - RECYCLING		
T4	Increase the amount of household waste diverted to recycling by 1% per year (Council provided kerbside collection only).	Waste: 3,366 Recycling: 1,488 Proportion: 44%
T5	Reduce contamination of Council provided kerbside recycling delivered to the MRF to 8% or below.	12%
DIVERSION OF WASTE - ORGANIC WASTE		
T6	Reduce the amount of organic waste to landfill by 10% by 2023. (Total: 3,111 tonnes per annum by 2023)	Kerbside general waste to Landfill– 3,187 tonnes/annum x 62% organics Transfer station general waste to Landfill – 5,106 tonnes/annum x 29% organics Total: 3,457 tonnes per annum
CUSTOMER SATISFACTION		
T7	Percentage of community satisfied with the kerbside collection service exceeds 90%.	90% (including neutrals and excluding 'don't knows')
T8	Total number of complaints received about the Council's solid waste service due to missed collections, bin damage and replacement, overturned bin, driver behaviour, transfer station issues remains below 100 per 1,000 rated collections.	New measure
PUBLIC AND ENVIRONMENTAL HEALTH		
T9	95% of the population has access to a waste disposal service – either via a kerbside collection or living within 20 minutes' drive of a transfer station	97%
T10	Continue to provide at least one facility which receives non-industrial/ domestic quantities of hazardous waste for appropriate disposal.	1
T11	Council-operated solid waste facilities achieve 100% compliance with resource consent conditions.	0 abatement notices received.
COMMUNITY ENGAGEMENT		
T12	One annual education campaign on waste management and minimisation.	1
T13	One waste community engagement survey completed every two years.	N/A
T14	One regional waste minimisation officer	1
T15	One bi-annual waste audit for the Council main office building	0
T16	Number of reported illegal dumping events in the District decreases by 2023. (30 reported illegal dumping events by 2023).	34

² Stats NZ Regional Gross Domestic Product Year ended March 2015 - tables.
³ Stats NZ Regional Gross Domestic Product Year ended March 2015 - tables.



Date 18 August 2022

Subject: **Towards Zero Waste – Behaviour Change Effectiveness Survey**

Approved by: AJ Matthews, Director - Environment Quality
S J Ruru, Chief Executive

Document: 3095803

Purpose

1. The purpose of this memorandum is to report to the Committee on the findings from the Towards Zero Waste – Behaviour Change Effectiveness survey.

Recommendations

That the Taranaki Solid Waste Management Committee:

- a) receives the memorandum *Towards Zero Waste – Behaviour Change Effectiveness Survey*.

Discussion

2. Attached is Towards Zero Waste – Behaviour Change Effectiveness survey.

Financial considerations—LTP/Annual Plan

3. This memorandum and the associated recommendations are consistent with the Council's adopted Long-Term Plan and estimates. Any financial information included in this memorandum has been prepared in accordance with generally accepted accounting practice.

Policy considerations

4. This memorandum and the associated recommendations are consistent with the policy documents and positions adopted by this Council under various legislative frameworks including, but not restricted to, the *Local Government Act 2002*, the *Resource Management Act 1991* and the *Local Government Official Information and Meetings Act 1987*.

Iwi considerations

5. This memorandum and the associated recommendations are consistent with the Council's policy for the development of Māori capacity to contribute to decision-making

processes (schedule 10 of the *Local Government Act 2002*) as outlined in the adopted long-term plan and/or annual plan. Similarly, iwi involvement in adopted work programmes has been recognised in the preparation of this memorandum.

Community considerations

6. This memorandum and the associated recommendations have considered the views of the community, interested and affected parties and those views have been recognised in the preparation of this memorandum.

Legal considerations

7. This memorandum and the associated recommendations comply with the appropriate statutory requirements imposed upon the Council.

Appendices/Attachments

Document 3095820 – Memorandum Towards Zero Waste Behaviour Change Effectiveness Survey August 2022

Document 3095816: Towards Zero Waste Survey Summary Report August 2022



Date: 8 August 2022

To: Taranaki Solid Waste Management Committee (TSWMC)

SUBJECT: **TOWARDS ZERO WASTE – BEHAVIOUR CHANGE EFFECTIVENESS SURVEY**

Background

Behaviour change is a key focus to achieve the 'Towards Zero Waste' vision. Evaluating the effectiveness of behaviour change campaigns is critical to ensure the right messages are communicated to the right group in the most effective way.

Target E2 of the Waste Management and Minimisation Plan endorses our commitment to evaluate behaviour change campaigns. The Towards Zero Waste Survey was the inaugural implementation of this commitment and we aim to deliver this every two years to refine our behaviour change approach. The specific objectives of the Towards Zero Waste Survey are outlined below.

Objectives

1. To monitor the effectiveness of the behaviour change programme for:
 - a. Households and private individuals
 - b. Business and commercial organisations, charities & not for profit organisations;
 - c. Schools and learning institutes; and
 - d. Rural communities and farmers including farm managers and owners¹
2. To monitor over time to establish trends, opportunities, and improvements
3. To establish the most effective means of engagement for each community of interest
4. To establish the motivators and barriers to change for each group, i.e. 'what is in it for them'

A report summarising the survey results is attached as appendix 1 and key results are shown below.

Key Results

There was a great response to the survey across our target communities throughout the three districts.

Group	Responses
Individual	1,265
Business/organisation	66
School/Kura	42
Farm	49
Total	1,422

Attitudinal Questions

- **61%** of respondents are very or extremely concerned about the impacts of waste on the environment

¹ Iwi and Hapu are being engaged in a separate process as part of the Waste Management and Minimisation review

- **49%** are very or extremely committed to going beyond recycling to minimise waste

Kerbside Questions

- Just over **50%** of New Plymouth respondents are using the foodscraps bin. **61%** of respondents who are not using the foodscraps bin are composting.
- Just under **50%** of South Taranaki respondents are using the green waste kerbside bin
- **98%** of eligible respondents are using their yellow lid recycling bin. There was over **80%** awareness and compliance on campaigns related to recycling guidelines except for 'Get Rid of the Lid'.
- Stratford respondents (**84.3%**) were more likely to remove lids of plastic and glass bottles than those in the other districts (New Plymouth D– **65.9%** and South Taranaki District **68.9%**).
- **95.8%** of eligible respondents are using their glass crate. There was over **80%** awareness and compliance on all campaigns related to glass guidelines apart from keeping the crate a manageable weight.

Zero Waste Campaigns

- **65%** aware of 'Bring It' campaign
- **43%** aware of Plastic Free July
- **41%** aware of Love Food Hate Waste
- **16%** aware of Tips with Rosie

Motivations and Barriers

- **63%** respondents motivated by cost saving, **43%** motivated by learning what is current available.
- **36%** find uncertainty around the services available a barrier and for **32%** it's the cost

Distribution of Information

- Website and social media posts are the preferred ways to learn about waste by all groups
- Facebook was the most preferred social media platform by all groups

Next Steps - the key learnings we took from this data include:

- Reconsider 'Get Rid of the Lid' Campaign messaging delivery
- Encourage more kerbside recycling in schools
- Better promotion of Zero Waste Services such as the A-Z Waste Directory, Council Recycling Apps, NPDC Zero Waste Fund and business support programmes
- Developing more tips and information on composting, meal planning, refilling in bulk and using soft plastic services at supermarkets
- Males, Māori and people below age of 20 are the least engaged in this survey. Investigate targeted methods to engage with these groups
- Investigate alternate communication methods for the elderly

Oliver Leuthart

Behaviour Change Lead – Resource Recovery NPDC

Summary Report – On Our Way To Zero Waste Survey 2022



Prepared by Maree Young
Independent Researcher/Evaluator
For Zero Waste Taranaki
July 2022

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Introduction

The purpose of this report is to assess the efficacy of Zero Waste Taranaki’s educational behaviour change campaigns, tools and services. The findings from this research will be used to inform future campaigns, programmes and services to increase action in waste reduction to achieve the goal of zero waste in Taranaki

Background

New Plymouth District Council (“NPDC”), Stratford District Council (“SDC”) and South Taranaki District Council (“STDC”) all share a vision to work towards zero waste. As outlined in each district’s Waste Management and Minimisation Plan, behaviour change is a key focus area to achieve this vision. Operationally, this has involved the delivery of targeted education campaigns based on research and a commitment to review the effectiveness of these campaigns. The ‘On Our Waste to Zero Waste’ survey is a leading example of this commitment.

This approach is documented with the Regional Behaviour Change Strategy, which supports a consistent application of this methodology across the region. The principles guiding the Regional Behaviour Change approach are outlined below.

Circular Economy¹

Figure 1 - Circular Economy



Design out waste and pollution. Keep products and materials in use. Regenerate natural systems.

Image: The Ellen MacArthur Foundation

¹ Ōhanga āmiomio - Circular economy | Ministry for the Environment

The three global principles of a circular economy are:

Design out waste, pollution, and ideally emissions, from the beginning of a product’s lifecycle –

Waste is viewed as a design flaw. Loss of materials and energy through the production process is minimised.

Keep products and materials in use – Products are designed to be reused, repaired and recycled.

Waste materials from one process become an input for another. Requires us to think about systems.

Regenerate natural systems – Shifts our perspective from minimising environmental harm to regenerating natural systems and using nature-based solutions to address global environmental issues and climate change. Valuable nutrients are returned to the soil and ecosystems are enhanced.

Waste hierarchy

Aligned with the circular economy is the waste hierarchy, a globally recognised framework for minimising waste. The waste hierarchy explains which pathways are preferable for managing our resources and reducing environmental impacts (figure 2).

Figure 2 - Waste Hierarchy Model



Zero Waste Taranaki

NPDC, SDC and STDC are all working towards achieving zero waste. An analysis of the region’s waste disposal and minimisation habits show that there are several factors that impede actions and successful outcomes in achieving this.

The NPDC annual recycling audit found a 14 per cent contamination rate in kerbside recycling bins. The main contaminants being lids, dirty recyclables and non-recyclable plastics (particularly soft plastics). New Zealand’s recycling systems are not straightforward, and it can be quite difficult for individuals and households to understand what can and cannot be recycled in their kerbside collections. This has driven many of the campaigns targeted at correct kerbside recycling including, ‘Get Rid of the Lid’ and ‘It’s as Easy as 1,2,5!’

The recent Solid Waste Analysis Protocol (SWAP) assessment found 50% of rubbish sent to landfill regionally is potentially divertible. This is equal to 204 tonnes per week or approximately 10,765 tonnes per year in Taranaki. These materials include recyclable, recoverable, and compostable items.

These results are consistent with the national findings on contamination and waste diversion². This leads to increasing costs for local government and ratepayers. Waste Minimisation education campaigns, such as “Zero Waste with Rosie”, therefore aim at encouraging waste minimisation behaviours beyond recycling. Evaluating the success of this and other associated campaigns is one of the primary goals of this study.

Aim and Objectives of the research project

- **Aim:** To assess the efficacy of zero waste educational campaigns which focus on overall public awareness and aim to increase action in minimising waste through reducing, reusing and recycling.

This aim is supported by the following four objectives:

- 1) To monitor the effectiveness of the behaviour change programme across the following communities:
 - a. Households and private individuals
 - b. Business and commercial organisations, charities & not for profit organisations;
 - c. Schools and learning institutes; and
 - d. Rural communities and farmers including farm managers and owners.
- 2) To monitor over time to establish trends, opportunities and improvements.
- 3) To establish the most effective means of engagement for each community of interest.
- 4) To establish the key motivators and barriers to change for each group, i.e. ‘what is in it for them’

Methodology

The information was collected through an online and paper-based survey. It is noted that only a very small amount of paper-based surveys (n= 75, 40 collected from WITT, 30 at Farm events and five from public libraries) were conducted.

A core set of questions was asked across all the above groups, with additional targeted questions developed to meet the needs of specific groups such as schools, businesses and those who live rurally (see Appendix One).

The online survey was not developed for Iwi and Marae. As part of the Waste Management and Minimisation Planning process, it was decided that a separate engagement process will be developed to meet the needs of Iwi and Marae. It is noted that while there are Māori respondents in this survey, they are representing themselves as household members, not as Iwi members or part of their Marae.

² Yates S. 2019. *Rethinking rubbish and recycling*. Prepared for the WasteMINZ TAO Forum by Sunshine Yates Consulting. Auckland: WasteMINZ.

Question testing/piloting

The draft survey was piloted with a range of individuals and groups to ensure the questions were ‘fit for purpose’. Changes were made to the survey and then loaded onto ‘Survey Monkey’, an online survey platform.

Data Collection

The online survey monkey link was open from Wednesday 4 May 2022 to Monday 30 May 2022. The survey was promoted using print media, online advertising and email mailing lists.

Print media

- Taranaki Daily News (4th May and 7th May)
- Midweek (25th May)
- South Taranaki Star (25th May)
- Stratford Press (25th May)

Online Advertising

- Stuff Advertising (14th May)
- Google Ad (14th May)
- Zero Waste Taranaki Blog Post (9th May)
- NPDC Zero Waste Webpage Access (4th-29th May)
- Facebook advertising (4th -11th May 22nd-29th May)
- NPDC Intranet Post

Direct emails

- Chamber of Commerce – Chamber Connect Mail Out (20th May)
- NPDC Schools Mailing list (4th May)
- NPDC Commercial Mailing list (4th May)

Data analysis

The data analysis was conducted using the “Survey Monkey – analyse data” function and exported to a specialised statistical software package (SPSS Version 28) for further analysis. All percentages in this report are calculated from stated values, i.e. out of the number of respondents who answered the question, rather than the total sample. At the top of each question, a statement of how many respondents who answered the question out of the total respondents in the sample, is given to provide an understanding of the data quality of each question.

Mean

A 'mean' is the average number (i.e., add up all the numbers, then divide by the total number of respondents who answered the question).

Use of 95% Confident Intervals around the mean ratings

This is the range of values you expect your estimate to fall between if you redo your test, within a certain level of confidence. The confident intervals in this report are calculated at 95%. This means that 95 out of 100 times the estimate will fall between the upper and lower values specified by the confidence interval.

Test of significance

The sample was first tested as to whether it followed or approximated a normal distribution. For non-normal distribution the following test were used:

Tests between two categorical variables – chi-square tests.

Test between a continuous variable (5 point Likert scale) and a categorical variable (age, gender, household size, district) – Independent-Samples Kruskal-Wallis Test (tests for if there is an overall difference), followed by post-hoc test using Bonferroni correction for multiple tests, using the adjusted significance p value. Post-hoc tests show the relationship in the categorical variable that are statistically different, e.g. between districts, young and old or large and small household groups.

Limitations of the survey data

The data has been collected through an online Survey Monkey tool. The advantages of Survey Monkey include it is cost-effective and you do not require specialised training to select a sample or develop a questionnaire tool.

However, online surveys create a number of self-selection biases in the survey sample. These include:

- Nearly (94.7%) of the respondents completed the survey on-line. To complete the survey on-line, respondents had to have access to electronic devices with internet. It is noted that paper-based versions of the survey were available at public libraries throughout Taranaki. Only five people completed the paper-based survey available at a public library.
- People who had an interest in the subject were more likely to click on the survey link and complete the survey.

The key limitation of the survey data in this report is:

- The sample is not representative of all the groups in the total Taranaki population, i.e. some groups are over-represented, and some groups are under-represented. These included:

Over-represented groups in the total individual survey

- Females - 67.9% of the survey respondents were female. In comparison, females comprise 50.4% of the total Taranaki population³.
- European - 90.7% of the respondents identified as European. In comparison, European comprise 84.8% of the total Taranaki population.

Under-represented groups in the total individual survey

- Men - 30.7% of respondents. In comparison, males comprise 49.5% of the total Taranaki population.
- Māori - 13.0% of the survey respondents are Māori. In comparison, Māori comprise 19.8% of the total Taranaki population.⁴
- People under 20 years of age - 1.9% of the survey respondents are aged under 20 years of age. In comparison, 6.0% of the total Taranaki population are aged between 15 -19 years of age and could have completed this survey.
- People who live in a one-person household in the survey - 9.6% of survey respondents lived in a one-person household. In comparison, people in one-person households comprise 25.8% of the total Taranaki population.

For business and schools

- There are very small numbers of schools and business outside the New Plymouth District in the survey sample. These samples only really give information on the views of businesses and schools in the New Plymouth District.
- Under-representation of early childhood services (21% in survey and 54% in Taranaki region) in the school sample.
- An over representation of primary schools (54% in survey and 36% in Taranaki region) and secondary schools (14% in survey and 6% in Taranaki Region) in the school survey sample.

Small sample sizes of sub-groups within the sample

- The small sample size of sub-groups in the data, i.e. such as Stratford District, which only had a sample size of 64 respondents in the individual sample, means it is difficult to see statistically significant findings between districts.

³ Statistics New Zealand, Data from the 2018 Census, [Place Summaries | Taranaki Region | Stats NZ](#), retrieved on 7/06/22.

⁴ Statistics New Zealand, data from the 2018 census, Ethnic groups for people in Taranaki Region, 2006–18 Censuses, [Place Summaries | Taranaki Region | Stats NZ](#), retrieved on 7/06/22.

Table 1 - Margin of error by district for individual respondents

Where individual respondents lived	Survey Respondents (n)	2018 Census population (N)	Margin of error (at 95%) of the sample size ⁵
New Plymouth District	782	80,679	±3.49%
Stratford District	64	9,474	±12.21%
South Taranaki District	223	27,534	±6.54%
Taranaki Region*	1,175	117, 561	±2.84%

*Taranaki Region includes all individual respondents. It is noted that 106 of the total individual respondents did not state which district they lived in.

- It is noted that the sample size for Stratford District has a very large margin of error at ±12.21%. To have a margin of error of ± 5.0 for Stratford District the sample size required was 370. To have a margin of error of ± 5.0 for South Taranaki District the sample size required was 379.
- Having very few respondents under 20 years of age means comparison between younger and older respondents are limited. The under-representation of males in the sample means it is difficult to see trends and patterns based on gender. Additionally, under-representation of single-person households means it is difficult to see trends in household sizes.

Data quality issues

- The online survey was self-completed, and respondents were able to skip questions they did not want to answer. The completion rate of the survey is 78%. It is estimated that the survey took an average of 10 minutes to complete. Questions at the end of the survey had a lower completion rate than those at the start. For example, the demographic questions at the end of the individual survey had a response rate of 86.4%.
- The data also shows a number of people have only answered the first question, then exited the survey. It is not evident why this happened, but suggests they clicked on the link, answered the first question and then decided not to carry on with the survey. The sample sizes have been adjusted to remove people who only answered the first question from the sample. The adjusted sample sizes are as follows:

Table 2 - Sample Size

Sample	Answered only first question (unadjusted sample size)	Answered at two or more questions (adjusted sample)
Individual	1,265	1,175
Business/organisation	66	57
School/Kura	42	35
Farm	49	45
Total	1,422	1,312

⁵ <https://www.calculator.net/sample-size-calculator.html?type=2&cl2=95&ss2=223&pc2=50&ps2=27534&x=52&y=13#findci>

Summary of Key Findings - On Our Way to Zero Waste Survey

Nearly all (89.6%) of the respondents who answered the survey chose to do so as individuals or on behalf of their households. The summary of the key findings is to be read alongside the following reports:

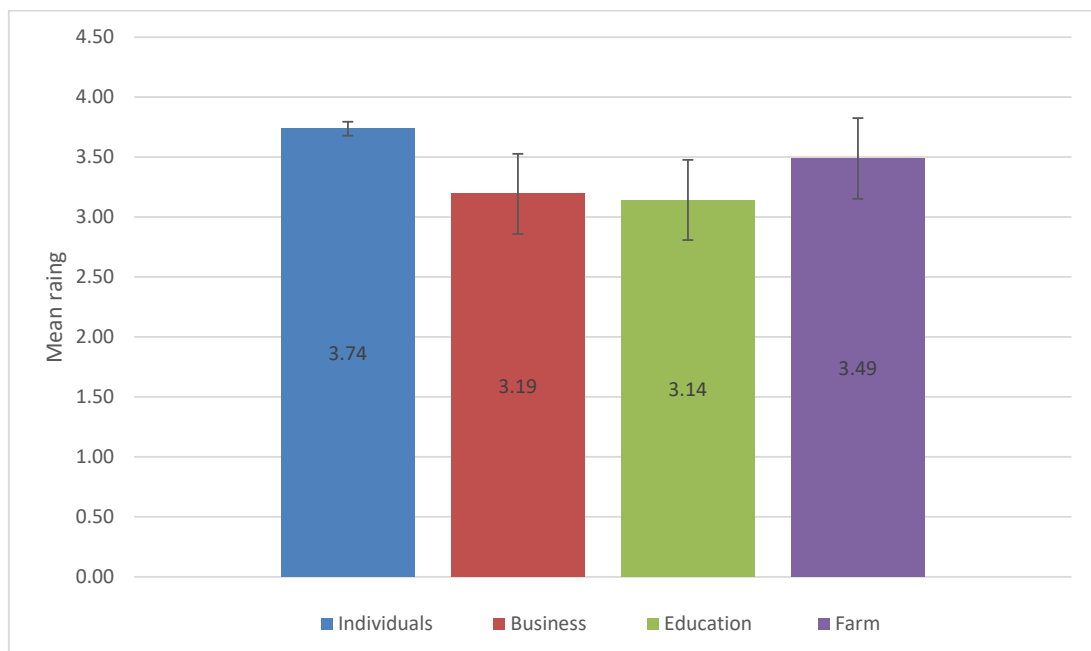
- Findings for the total individual respondents
- Findings for school respondents
- Findings for businesses/organisations respondents
- Findings for farm respondents
- Findings for individual respondents who live in the New Plymouth district
- Findings for individual respondents who live in the Stratford district
- Findings for individual respondents who live in the South Taranaki district.

Concern about the impacts of waste on the environment

Findings show that individuals were more likely to show a high rating of concern about their impact on the environment, than those respondents who were answering as part of a business, school or farm. This may be due to those respondents who answered as part of a business or school having less control over the impact of the waste it produced on the environment, than individual respondents.

For individual respondents, females rated higher levels of concern about the impact of waste on the environment than males. This finding is statistically significant with $p=0.015$. There was no statistically significant differences due to district, age or household size.

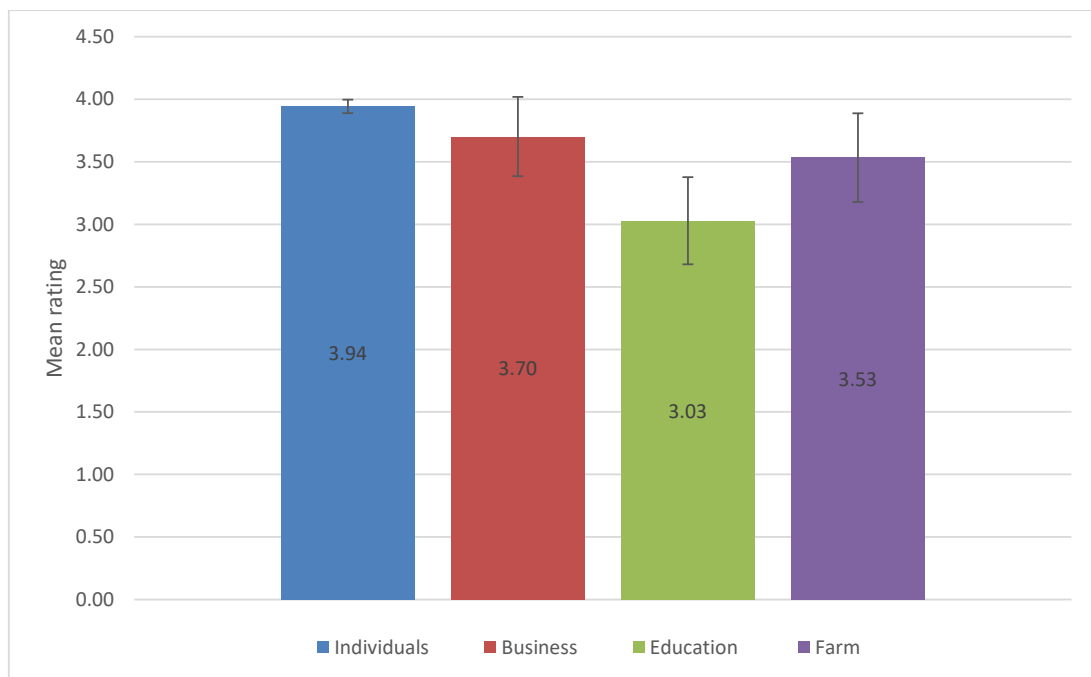
Figure 3 - Concern regarding impact of waste on the environment



Committed to recycling

The findings show that schools show the least commitment to recycling, with individuals and businesses having a much higher rating regarding their commitment to recycling. Respondents aged 70 years of age and over rated higher levels of commitment to recycling than those aged under 30 years of age (p=0.23) or those aged 30-49 years of age (p=.012). Findings also show that respondents who lived in a small households had a higher commitment to recycling than those who lived in larger households of four or more people. These findings suggest that individuals are more committed to recycling because they have time to do so, i.e, retired or less busy households.

Figure 4 - How committed are you to recycling?

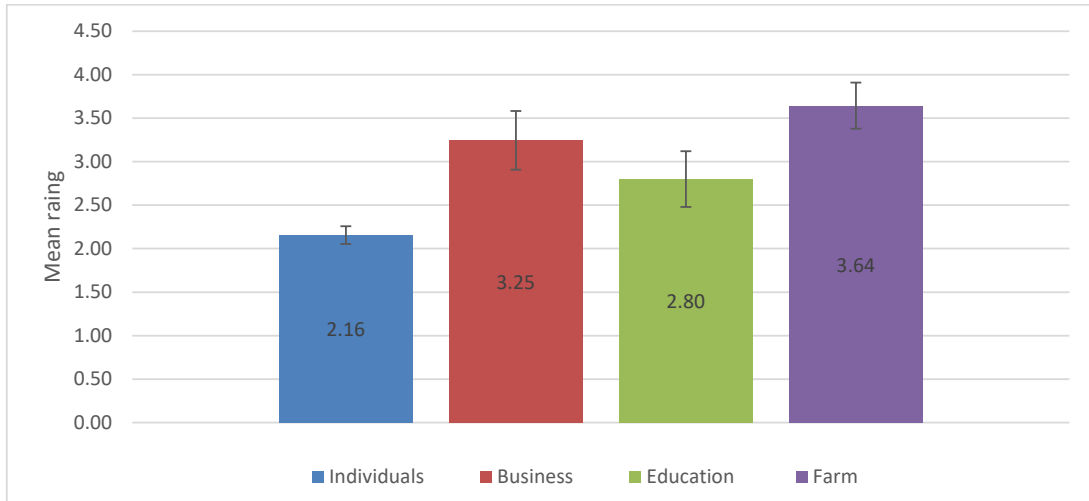


Commitment to doing more than recycling to reduce waste

For the purpose of the survey it was noted that doing more than recycling means rethinking what you buy, reducing what you buy new, reusing, repairing, or repurposing items. Individual respondents were the least committed to doing more than recycling to reduce waste than other respondent groups. It is noted individuals are provided with kerbside recycling services, but that business and farms had to organise their own recycling services. It is in the interest of farms and businesses to reduce the amount of waste they had to recycle as this reduced the cost they had to pay for commercial recycling services or the time taken away the farm or business to go to transfer stations.

Overall, females rated higher levels of commitment to doing more than recycling to reduce waste than males. This finding is approaching statistical significance with p=0.05.

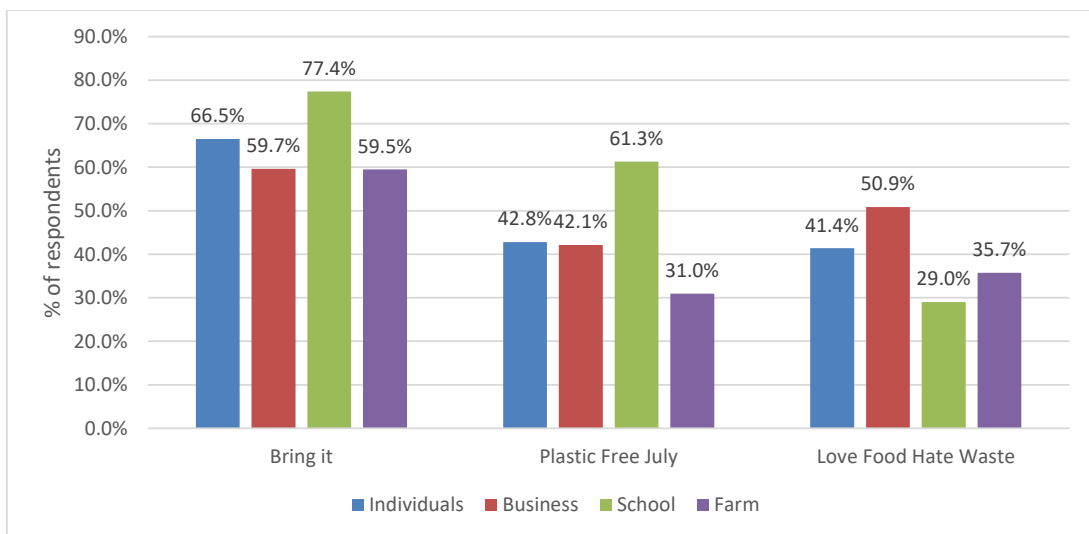
Figure 5 - How committed are you to doing more than recycling to reduce waste?



Awareness of Taranaki Zero Waste Taranaki campaigns

The majority (59.4% to 77.4%) of respondents were aware of the ‘Bring it’ campaign to encourage use of reusable coffee cups in cafés. Apart from schools (where 61.3% were aware) less than half of respondents were aware of the ‘Plastic Free July’ campaign to discourage single use plastic. Businesses and individual respondents who lived in the Stratford or South Taranaki were more likely to be aware of the ‘Love Food Hate Waste’ campaign, than other respondent groups. ‘Tips with Rosie’ (only included in the individual survey questions) had the lowest rating at 16.0%.

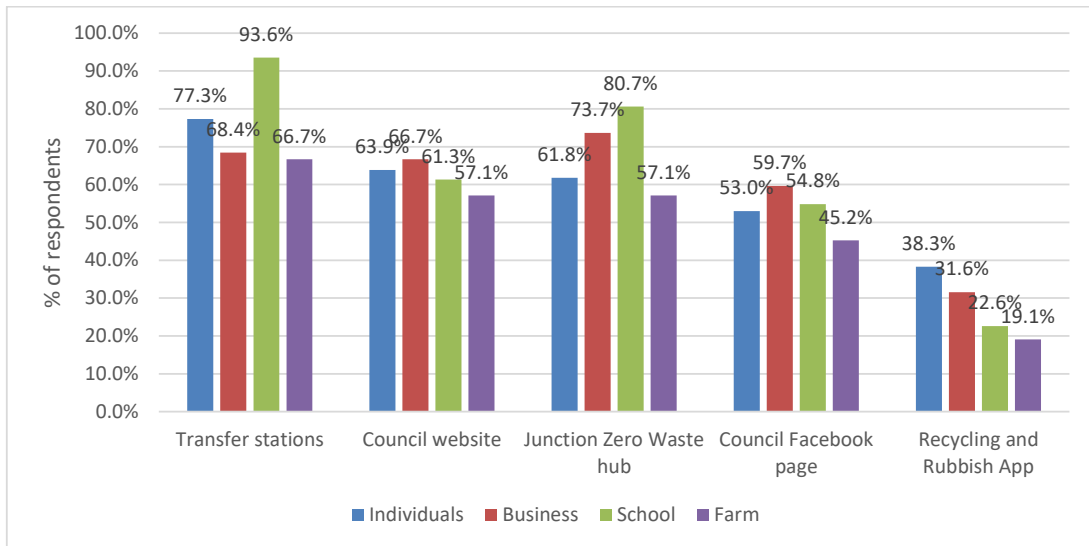
Figure 6 - Awareness of Zero Waste Taranaki's campaigns



Zero Waste Taranaki Tools and Services to reduce waste

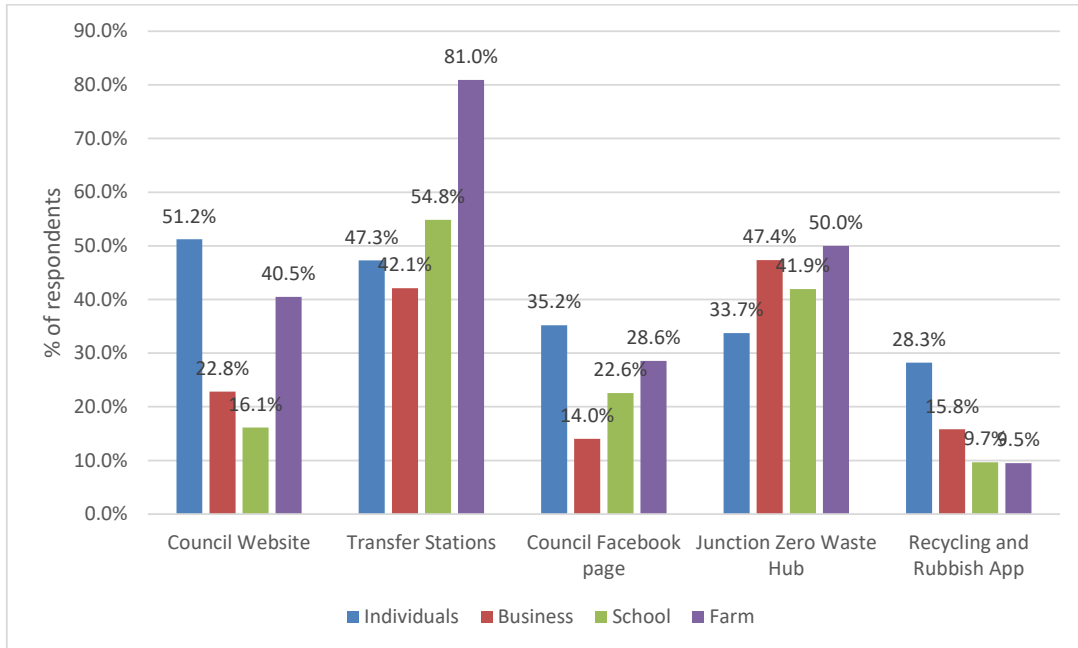
All respondents were asked which Zero Waste Taranaki tools and services they were aware of, from a list provided. Transfer Stations and The Junction Zero Waste Hub (for New Plymouth respondents) were services that had the highest level of awareness. In terms of receiving information, the Council Websites and Council Facebook pages (especially for Stratford and South Taranaki respondents) had the highest level of awareness.

Figure 7 - Awareness of Zero Waste Taranaki's Tools and Service - Top Five



Respondents were then asked to select which of the Zero Waste Taranaki tools and services they had used. Generally, respondents used the tools and services they were aware of. Those respondents who lived rurally and were not provided with kerbside recycling services at their homes were more likely to use the transfer stations to drop off recycling for free (81.0%), than individuals who were provided with kerbside recycling services at their homes (47.3%).

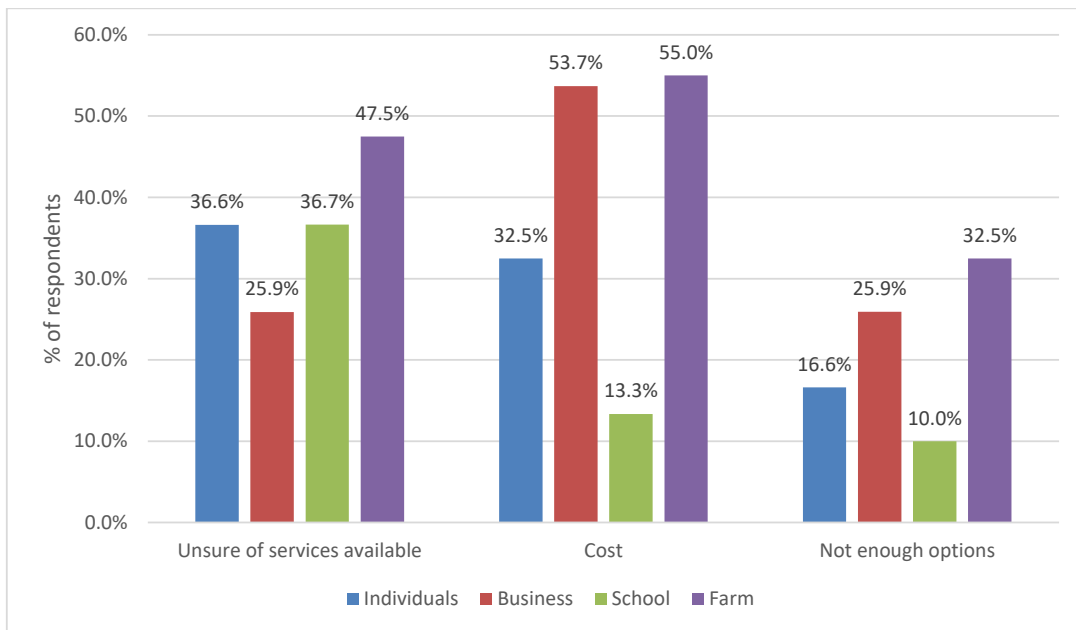
Figure 8 - Use of Zero Waste Taranaki's Tool and Services - Top Five



Waste Minimisation

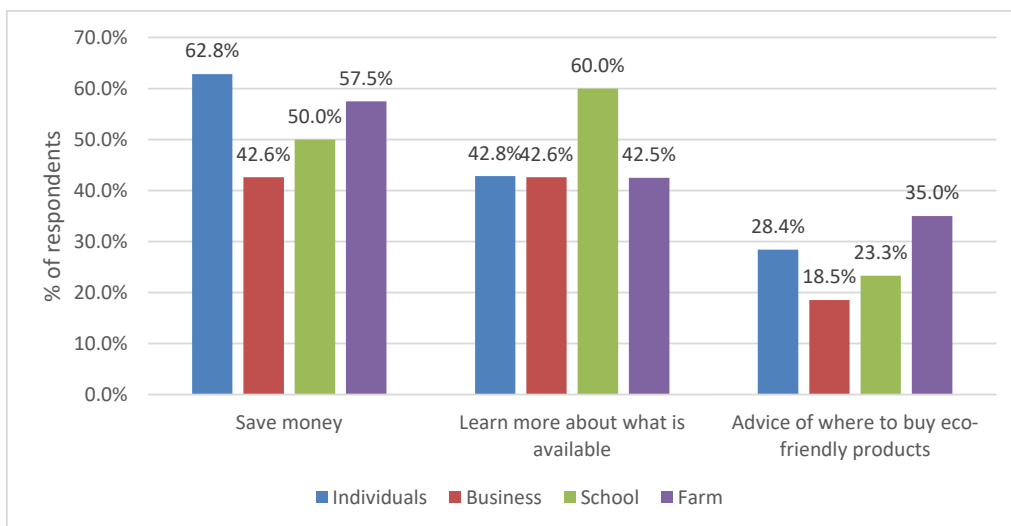
Respondents were asked what prevented them from reducing waste. For businesses and farms the most common barrier was the cost of paying for recycling services. For individuals, the cost of buying low waste or ‘green’ products was a common barrier. Being unsure of what services were available was the next most common factor, especially for schools and farmers.

Figure 9 - Top Three Key Barriers to Reducing Waste



Cost was also a key motivating factor to do more to reduce waste for individuals, businesses and farm. For schools, the key motivating factor was learning more about recycling options and services.

Figure 10 - Top Three Motivating Factors to Reduce Waste

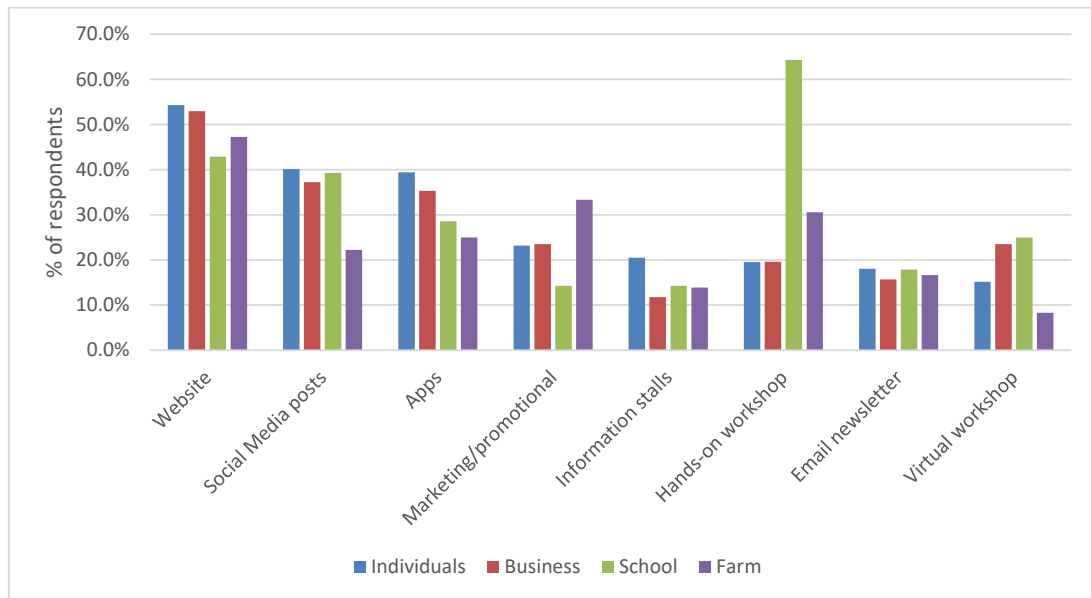


These findings indicate that many of the actions individual respondents take to reduce waste could also save them money. These actions included buying second-hand, borrowing or hiring items instead of buying new or repairing, up cycling or re-purposing items. There is an opportunity for further promotional material to emphasise potential costing savings.

Preferred ways to learn more about minimising waste

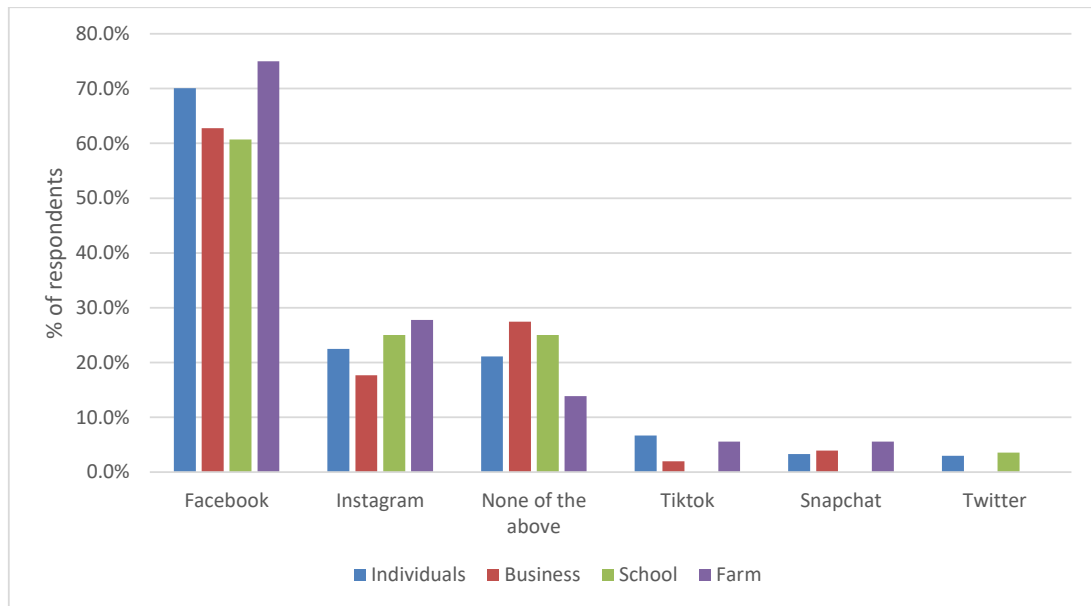
On the whole, websites and social media (such as Facebook) were the most popular ways to learn more about minimising waste. However, respondents from schools preferred hands-on workshops, as did respondents aged under 30 years of age and women.

Figure 11 - Preferred ways to learn more about minimising waste



Facebook was the most popular social media platform (60%-75%), followed by Instagram (17% - 27%). However, about 20% of respondents did not use social media at all. The findings indicate that males and people over the age of 70 years were more likely to select the ‘none of the above’ answer category when asked what social media platform they preferred.

Figure 12 - Preferred Social Media Platform



Findings for Individual respondents

Use of Council Kerbside Recycling Services

All three district councils provide a yellow-lid mixed recycling kerbside bin and a blue glass kerbside crate to urban residents. Findings show that both the yellow-lid mixed recycling kerbside bin and blue glass kerbside crate are well used by respondents. Respondents generally had a high level (79% to 91%) of awareness and compliance with the Zero Waste Taranaki guidelines for use, except for still putting soft plastic in the yellow- lid bin (especially in the Stratford District) and not flattening cardboard. There was a low level of awareness for the requirement that the blue glass crate should weigh less than 12 kg. It was noted by respondents that they did not weigh their bins. Glass crates were heavy and awkward to carry and there was a suggestion that a wheelie bin be provided instead of the crate. In terms of the yellow-lid recycling kerbside bin respondents wanted to be able to recycle more items and suggested having a sticker (with pictures) to remind them which items could be recycled.

South Taranaki Voluntary Green Waste Kerbside Collection Service

About half (51%) of South Taranaki respondents had opted-in to use the South Taranaki District Council’s voluntary green waste kerbside collection. The findings show there was a high level of awareness (87.4% to 96.1%) for most of the guidelines for use of this bin except for the ability to put food scraps, food soiled cardboard, shredded paper or paper towels in the bin (77.7%). It is noted this may have been due to respondents not correctly reading this question in the survey. A small amount (15-20%) of the respondents chose not to follow the guidelines, even though they were aware of the guidelines. Compliance may be helped by providing more information to residents on the impact of contamination to green waste. Having their own compost and not wanting to pay the extra cost for the service were the two main reasons for not using this service.

New Plymouth District Council's Kerbside Food Scraps Bin

Half (52.8%) of the respondents stated they used the green kerbside food scraps bin. The respondents showed high levels of awareness and compliance to the guidelines for use, except for the requirement that the bin must be under 10 kg, as they did not weigh the bin. The main reasons respondents did not use the food scraps bin were that they composted or used worm farms, or that the bins were 'dirty and/or smelled'. Comments from respondents also showed that some respondents did not like when the bins were only half emptied by collectors, felt the bins were of a poor design, and didn't like food scraps being transported out of the district to be processed.

Findings for schools

Sixty percent of schools reported they used the council provided yellow-lid mixed recycling kerbside bin. The majority (60%) of schools had on-site composting or worm farming and were growing food/kai in a school garden. Just under half (around 40%) of schools also used commercial waste (for landfill) and recycling providers (for cardboard and paper collection). About a quarter (29%) of schools used the tours of the materials recovery facility, and nearly all (8 out of 10) of the respondents who were aware of the Zero Waste Education Programme had used it. A third of respondents who stated they were aware of the free support for schools to reduce waste programme had used it. Overall, three-quarters (77.8%) of schools stated they would be interested in receiving support to help their school/Kura to reduce waste.

Findings for businesses

Larger scale businesses used commercial waste and recycling providers, while one-person businesses who were 'working from home' used their own domestic kerbside recycling services or took their recycling to transfer stations or The Junction Zero Waste Hub. Businesses showed a very low level of awareness and use of support and programmes tailored to them. Four of the 10 respondents, who were aware of the NPDC Resource Wise Business 4-year support and award programme, had used it. Five out of 14 of the respondents who were aware of the free support to help businesses and organisations reduce waste had used it. It is noted that these business specific programmes and services have only recently been developed and it will take time for business to come on board. This finding does suggest the need to actively promote these programmes and services.

There was a sense of frustration from business regarding the limited options available and cost of recycling. It was suggested by five respondents that businesses should be offered a kerbside recycling service.

Findings for Farmers

Farmers either hired skip bins or took landfill waste to a council run transfer station. Recycling was taken to the transfer stations or recycled using the Agrecovery recycling programme. A minority (6 out of 42) of farms continue to burn or bury their waste in the 'farm hole'. About half the farmers were aware of and went to the AgRecovery events.

Overall Comments

Overall comments made by respondents were generally positive and made good suggestions to improve current services and for additional services that would help them further reduce waste. Respondents also noted that more could be done to address waste at the manufacturing stage. This included government regulations to reduce packaging and ensure that products are repairable. Individual respondents wanted to be able to recycle more items and have more recycling facilities. It is noted that more education needs to be directed towards individuals to go beyond recycling to reduce waste. Knowing more about what happens to recycling materials and how they are re-purposed would be a motivating factor for some respondents, as would having a local food scraps processing plant. A very small number of respondents made negative comments regarding the zero-waste goal itself, with some reporting a bad experience with the council regarding recycling.

Discussion

This section of the report provides a brief discussion of the key findings, including the implications of the limitations of the data. As stated in the earlier section of this report, the key limitation of the data, is that the sample does not represent all the groups that comprise the overall Taranaki population. Further follow-up research is required with Māori, males, people aged under 20 years of age, those who live in one-person household, and schools and businesses based outside of the New Plymouth District.

General comments

These comments apply to all respondent groups. Overall, findings show a positive bias to recycling and reflect the self-selection bias in the survey sample, with people who had an existing interest in recycling and zero waste being more likely to answer the question. However, there were a small number of respondents who held a range of negative views on recycling, e.g. recycling was just 'virtue signalling' or all recycling material was either sent to the landfill or offshore to be processed. To address these negative views, councils need to be more transparent about where recycling materials are sent to be processed and highlight the work of any local recycling processing operations.

Older people (especially those over 70) and men were less likely to use social media and emphasises the importance of continuing to provide a range of communication methods. Schools preferred being provided with 'hands-on' workshops to learn more about reducing waste.

Individual respondents

The findings show that older people (especially those aged 70 years and older) and those people living in smaller households have the highest level of commitment to recycling. In comparison, people aged under 30 years of age, those who live in larger households (especially those in flatting/shared households) face more barriers to recycling. This includes being 'time poor', having to manage other people in their household that might be less committed to recycling, and having less money to buy eco-friendly products. It is evident that recycling and zero waste campaigns,

guidelines and services must address the key issues of being 'time poor' and cost if they are to change behaviour with younger people and larger household groups.

Further information needs to be provided to individuals to move them from wanting to recycle more and more items to reducing waste at the point of purchase or by reusing and re-purposing items. Providing hands-on workshop was a popular way to learn more about ways of minimising waste for women and younger people. It is suggested that men may benefit from having this type of education provided in their workplaces, as they would be less likely to attend a community event

Schools and businesses

The low engagement from schools and businesses in this survey and in programmes and services that are tailored to them, is reflective of the time period that the information was collected, i.e. in the middle of the COVID-19 pandemic. As reported in local media the impact of the COVID-19 pandemic on schools and businesses has been significant with many schools and businesses struggling to stay open due to staff sickness and the impact of previous lockdowns. Zero Waste Taranaki staff need to be mindful of the current stress on schools and businesses and should seek to re-engage with them when they are ready to do so.

Farmers

Attending farm events were a popular way of receiving information for farmers. Zero Waste Taranaki could look at show-casing good practice to educate farmers stuck in poor waste reduction methods such as burning rubbish or using 'farm holes'.

Recommendations

Based on the findings of this report the following recommendations are made to the Zero Waste Taranaki team:

Survey design

- Reduce the length of the survey tool by removing questions which were not well answered and remove answer categories with small respondent numbers.
- Investigate the cost of using a market research company, or university research unit to conduct the next survey using a stratified sample framework, so the sample is representative of the sub-groups that comprise the Taranaki population.

Individual respondents

- Continue to use a wide variety of methods, i.e., online, face-to-face and printed material to promote recycling and zero waste campaigns, guidelines, tools and services.
- Conduct further research with groups that are under-represented in this sample, i.e. Māori, men, people aged under 20 years of age, and single person households to collect their views on recycling and zero waste.

Businesses

- Conduct further research with businesses that are based outside of the New Plymouth District.
- Co-design a kerbside recycling service for businesses/organisations with businesses/organisations, council infrastructure services and other affected groups, e.g. people who live close to businesses.
- Re-engage with businesses to promote campaigns, programmes and services that are tailored to businesses.

Schools

- Conduct further research with schools based outside of New Plymouth District and early childhood centres across all districts.
- Re-engage with schools to promote campaigns, programmes and services that are tailored to schools. It is noted that schools had a strong preference for hands-on workshops.

Farms

- Continue to promote recycling and zero waste messages at farm events.
- Investigate 'show-casing' of individual farms that demonstrate best practice by purchasing produces that have low waste and using re-generative farming methods, to transform recycling and waste management in the rural sector.

Appendix One – Survey Tool

Tēnā koe

Zero Waste Taranaki is made up of the three District Councils in Taranaki. We are conducting this survey to assess how we are doing in communicating and educating our communities on minimising waste.

The survey aims to understand the attitudes, awareness, and behaviours regarding waste, as well as the barriers and motivations you face in minimising waste.

The results of the survey will enable NPDC, SDC and STDC to better engage and educate our communities to reach our Zero Waste goal!

This survey should take no more than 10 minutes to complete. Your response will go in the draw to win one of four \$100 SOS universal businesses vouchers.

Please give us your frank and honest answers. We really appreciate your time in completing this survey.

If you have questions or want more information on how to reduce waste, please contact contact@zerowastetaranaki.org.nz

*** Please choose what role you wish to respond to this survey as.**

- As an individual / on behalf of my household
- As a staff member of a school, kura, early learning or tertiary institute
- As an owner, staff member or volunteer of a business, community/non-profit organisation, trust, or club
- As a farm owner or farm manager

*** How concerned are you about the impacts of waste on the environment?**

Not concerned Slightly concerned Concerned Very concerned Extremely concerned

Comments?

*** How committed are you to **recycling**?**

Note: recycling means using the council kerbside bin collection service or free recycling drop off at transfer stations.

Not committed Slightly committed Committed Very committed Extremely committed

Comments?

*** How committed are you to doing **more than recycling** to reduce waste?**

Note: doing more than recycling means rethinking what you buy, reducing what you buy new, reusing, repairing, or repurposing items.

Not committed Slightly committed Committed Very committed Extremely committed

Comments?

*** Do you have council kerbside bin collection service available at your home (recycling, glass, etc.)?**

Yes

No

* What District do you live in?

- New Plymouth
- Stratford
- South Taranaki

* Do you use the the council's green kerbside **food scraps** bin?

- Yes
- No

* The following are Zero Waste Taranaki guidelines for proper use of the green kerbside **food scraps** bin. Are you **aware** of the guideline?

	Yes	No
Plastic bags and liners including compostable bags can't be used to line the bin	<input type="radio"/>	<input type="radio"/>
Compostable cups and packaging can't be placed in the bin	<input type="radio"/>	<input type="radio"/>
The weight of the bin must be below 10 kg	<input type="radio"/>	<input type="radio"/>

* The following are the same guidelines as above for proper use of the green kerbside **food scraps** bin. Do you **follow** the guideline?

	Yes, always	Yes, sometimes	No, never
Plastic bags and liners including compostable bags can't be used to line the bin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compostable cups and packaging can't be placed in the bin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The weight of the bin must be below 10 kg	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*** You answered that you don't use the the council's green kerbside **food scraps** bin. What are the main reasons for this? Please tick all that apply.**

- I throw my food scraps in the rubbish
- I use an insinkerator for my food scraps
- I don't understand what can go in the food scraps bin
- It's dirty and/or smells so I don't use it
- I compost or worm farm my food scraps at home
- I have very little or no food scraps to put in the bin
- I lost the bin/ do not have a bin
- I cannot lift or move the bin
- Other (please specify)

Do you have any comments about the council's green kerbside **food scraps bin?**

*** Have you opted in to use South Taranaki District Council's **voluntary green waste** kerbside collection service?**

- Yes
- No

* The following are Zero Waste Taranaki guidelines for proper use of the **green waste** kerbside collection service. Are you **aware** of the guideline?

	Yes	No
Do <u>not</u> put flax, cabbage leaves, treated timber, sawdust, rubble, or soil in the bin	<input type="radio"/>	<input type="radio"/>
Do <u>not</u> place human/ animal waste including nappies in the bin	<input type="radio"/>	<input type="radio"/>
Do <u>not</u> place bioplastics, plastics of any sort, glass, cans, medical waste or liquids in the bin	<input type="radio"/>	<input type="radio"/>
<u>Do</u> place small amounts of food scraps, food soiled cardboards, and shredded paper and paper towels in the bin.	<input type="radio"/>	<input type="radio"/>

* The following are the same guidelines as above for proper use of the **green waste** kerbside collection service. Do you **follow** the guideline?

	Yes, always	Yes, sometimes	No, never
Do <u>not</u> put flax, cabbage leaves, treated timber, sawdust, rubble, or soil in the bin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do <u>not</u> place human/ animal waste including nappies in the bin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do <u>not</u> place bioplastics, plastics of any sort, glass, cans, medical waste or liquids in the bin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<u>Do</u> place small amounts of food scraps, food soiled cardboards, and shredded paper and paper towels in the bin.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* You answered that you **have not opted in** to use the council's **green waste** kerbside collection service. What are the main reasons for this? Please tick all that apply.

- I don't want to pay the extra cost for this service
- I compost or worm farm my green waste and/or food scraps at home
- I throw my green waste and/or food scraps in the rubbish
- I use an insinkerator for food scraps
- I wasn't aware I could get a green waste bin
- I cannot move the bin to kerbside
- I bring my green waste to a transfer station
- I use a private service
- Other (please specify)

Do you have any comments about council's **green waste** kerbside collection service?
(comment box)

* Do you use the council's yellow lid kerbside **recycling** bin?

- Yes
- No

* The following are Zero Waste Taranaki campaigns and guidelines for proper use of the yellow lid kerbside **recycling** bin. Are you **aware** of the campaign and/or guideline?

	Yes	No
<i>Keeping it clean - Just rinse, recycle, repeat!</i> - All items must be rinsed.	<input type="radio"/>	<input type="radio"/>
<i>It's as Easy as 1, 2, 5!</i> - Only plastics with the numbers 1, 2 or 5 can be placed in the yellow bin.	<input type="radio"/>	<input type="radio"/>
<i>Get Rid of the Lid!</i> - Lids from all bottles and containers (including milk bottles and yoghurt containers) must be removed and placed in the landfill bin.	<input type="radio"/>	<input type="radio"/>
Soft plastics are not allowed in the yellow recycling bin.	<input type="radio"/>	<input type="radio"/>
All cardboard must be flattened.	<input type="radio"/>	<input type="radio"/>

* The following are the same guidelines as above for proper use of the yellow lid kerbside **recycling** bin. Do you **follow** the guideline?

	Yes, always	Yes, sometimes	No, never
All items must be rinsed.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Only plastics with the numbers 1, 2 or 5 can be placed in the yellow bin.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lids from all bottles and containers (including milk bottles and yoghurt containers) must be removed and placed in the landfill bin.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soft plastics are not allowed in the yellow recycling bin.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
All cardboard must be flattened.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* You answered that you don't use the council's yellow lid kerbside **recycling** bin. What are the main reasons for this? Please tick all that apply.

- I put everything in the rubbish bin instead
- I find it confusing to know what I can recycle
- I find it difficult to see/ locate the symbols on plastic items
- I lost the bin/ do not have a bin
- I find it difficult to move the bin to the kerbside
- Other (please specify)

Do you have any comments about the council's yellow lid kerbside **recycling** bin? (comment box)

* Do you use the council's blue kerbside **glass** crate?

- Yes
 No

* The following are Zero Waste Taranaki campaigns and guidelines for proper use blue kerbside **glass** crate. Are you **aware** of the campaign and/ or guideline?

	Yes	No
<i>Care For Your Collectors, Keep It Level</i> - Glass bottles should be kept below the top of the crate- do not overfill it	<input type="radio"/>	<input type="radio"/>
Glass bottles and jars should have their lids removed and placed in the landfill bin	<input type="radio"/>	<input type="radio"/>
Broken glass cannot go in the glass crate. Wrap it up and place it in the landfill bin instead.	<input type="radio"/>	<input type="radio"/>
Keep the weight of the crate below 12 kg.	<input type="radio"/>	<input type="radio"/>

* The following are the same guidelines as above for proper use of the blue kerbside **glass** crate. Do you **follow** the guideline?

	Yes, always	Yes, sometimes	No, never
<i>Care For Your Collectors, Keep It Level</i> - Glass bottles should be kept below the top of the crate- do not overfill it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Glass bottles and jars should have their lids removed and placed in the landfill bin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Broken glass cannot go in the glass crate. Wrap it up and place it in the landfill bin instead.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Keep the weight of the crate below 12 kg.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* You answered that you don't use the council's blue kerbside **glass** crate. What are the main reasons for this? Please tick all that apply.

- I save all my glass bottles/ containers for re-use
- I throw my glass in the rubbish bin instead
- I cannot lift or move the crate to the kerbside
- I don't know what can go in the crate
- I lost the crate/ don't have a crate
- Other (please specify)

Do you have any comments about the council's blue kerbside **glass** crate?

* You answered that you do not have the council kerbside bin collection service where you live. What do you do with your waste?

* Zero Waste Taranaki promotes reducing the amount of waste that needs to be recycled or sent to landfill through various campaigns. Are you **aware** of the campaign?

	Yes	No
<i>Bring It</i> - encourages use of reusable coffee cups at cafes	<input type="radio"/>	<input type="radio"/>
<i>Plastic Free July</i> - encourages giving up plastic	<input type="radio"/>	<input type="radio"/>
<i>Tips with Rosie</i> - simple videos that encourage reducing single use plastic and show how to minimise waste at home	<input type="radio"/>	<input type="radio"/>
<i>Love Food Hate Waste</i> - campaign to reduce food waste	<input type="radio"/>	<input type="radio"/>

* Zero Waste Taranaki provide tools and services to help you reduce waste. Are you **aware** of the tools or service?

	Yes	No
Council website with information and tips	<input type="radio"/>	<input type="radio"/>
Council Facebook Page	<input type="radio"/>	<input type="radio"/>
Council Instagram	<input type="radio"/>	<input type="radio"/>
Recycling and Rubbish App	<input type="radio"/>	<input type="radio"/>
<i>The A-Z Zero Waste Directory</i> on the Zero Waste Taranaki website	<input type="radio"/>	<input type="radio"/>
Transfer Stations free recycling drop off	<input type="radio"/>	<input type="radio"/>
<i>Let's Compost</i> workshop in your community with Sustainable Taranaki	<input type="radio"/>	<input type="radio"/>
Waste Levy Grants	<input type="radio"/>	<input type="radio"/>
Monthly newsletters	<input type="radio"/>	<input type="radio"/>
Help with planning and funding a zero waste event	<input type="radio"/>	<input type="radio"/>
The Junction Zero Waste Hub (New Plymouth) which has free recycling drop-off and accepts/ sells items for re-use	<input type="radio"/>	<input type="radio"/>
Tours of the Materials Recovery Facility (New Plymouth)	<input type="radio"/>	<input type="radio"/>

*** The following are the same tools and services as above to help you reduce waste. Please tick any of the tools or services that you have used.**

- Council website with information and tips
- Council Facebook Page
- Council Instagram
- Recycling and Rubbish App
- The A-Z Zero Waste Directory* on the Zero Waste Taranaki website
- Transfer Stations free recycling drop off
- Let's Compost* workshops with Sustainable Taranaki
- Waste Levy Grants
- Monthly newsletters
- Help with planning and funding a zero waste event
- The Junction Zero Waste Hub (New Plymouth) which has free recycling drop off and accepts/ sells items for re-use
- Tours of the Materials Recovery Facility (New Plymouth)
- None of the above

*** What actions do you take to minimise the waste you need to recycle or send to landfill?**

Please tick all that apply.

- Carrying re-usable items when on the go (re-usable water bottle, keep cup, shopping bags)
- Refilling containers or buying in bulk to avoid single use packaging
- Composting or worm farming food scraps
- Meal planning to ensure you only buy what you need
- Repairing items instead of buying new ones
- Borrowing or hiring items instead of buying new ones
- Donating or selling items that are no longer needed
- Buying second hand items instead of new ones
- Saving up soft plastics and bringing them to Countdown supermarkets to be recycled
- Saving up and dropping off items for alternative recycling (things like batteries, electronics, milk bottle tops, paint, etc.)
- Upcycling or downcycling items for reuse (turning old t-shirts into rags, using pallet wood for construction projects)
- Other (please specify)
- None of the above

*** What stops you from doing things to reduce waste? Please tick all that apply.**

- Unsure of services available
- My family/ flatmates do not separate waste correctly
- I have other priorities
- Space constraints
- I find it confusing
- It takes too much time
- It costs too much to buy products that are low waste or "green"
- I don't feel motivated to change how I deal with waste
- I don't think it will make a difference/ it's not my responsibility
- Nobody around me is doing anything to reduce waste
- There is no penalty for keeping my current habits
- I have a health challenge or disability that makes it difficult for me to reduce waste
- There aren't enough options for me to reduce more waste
- Other (please specify)

*** What would motivate you to reduce waste? Please tick all that apply.**

- Reducing waste would save me money
- Learning how other people around me are reducing waste
- Learning what is currently available and possible for reducing waste
- I could be penalised if I don't reduce waste
- Having someone help me learn through a presentation, workshop or online resources
- Advice on where to buy compostable, recyclable and eco-friendly products
- Advice on bin systems and signage to make waste separation within my home easier
- Other (please specify)

*** If you wanted to learn more about minimising waste, how would you prefer to learn? Please tick all that apply.**

- Website with information (videos, directory, informational blogs, tips)
- App with information, reminders and tips
- Bite size pieces of information posted on social media
- Marketing and promotion (i.e., local radio programme, sustainability column in local free newspapers)
- A regular panui, digest, or newsletter sent via email
- Hands on workshops and practical sessions
- Virtual workshops or informational sessions
- Information stalls at local markets and community events
- Other (please specify)

*** Which social media platforms do you prefer to receive information from?**

- Facebook
- Instagram
- TikTok
- Twitter
- Snapchat
- Other (please specify)

- None of the above

Do you have any other comments? For example:

-Have you adopted any new habits to reduce waste?

-Do you have ideas you'd like us to know about?

-Have you had any challenges trying to reduce waste?

* What suburb and/or town do you live in?

* Which ethnic group do you belong to? Tick the box or boxes that apply to you.

- New Zealand European
- Māori
- Samoan
- Cook Island Māori
- Tongan
- Niuean
- Chinese
- Indian
- Other (e.g., Dutch, Japanese, Tokelauan). Please state.

* Please select your gender

- Female
- Male
- Other

* Please select your age

- Under 20 years
- 20-29
- 30-39
- 40-49
- 50-59
- 60-69
- 70+

* Including yourself, how many people usually live in your household?

* Who are the other people that usually live in your household? Please tick all that apply

- Just me
- My family
- My flatmates/ friends/ partner
- Other (please specify)

***Please note: for the sake of brevity we will refer to business, community/non-profit organisation, trust, or club as "organisation" throughout this survey.**

* How concerned are you about the impacts of your organisation's waste on the environment?

Not concerned Slightly concerned Concerned Very concerned Extremely concerned

★ ★ ★ ★ ★

Comments?

* How committed is your organisation to **recycling** the waste it produces?

Note: recycling means separating plastic, cardboard, paper, glass, and/or food scraps for commercial collection or bringing them to a transfer station.

Not committed Slightly committed Committed Very committed Extremely committed

★ ★ ★ ★ ★

Comments?

* How committed is your organisation to doing **more than recycling** to reduce waste?

Note: doing more than recycling means rethinking what you purchase, reducing what you purchase new, reusing, repairing, or repurposing items, etc.

Not committed Slightly committed Committed Very committed Extremely committed

★ ★ ★ ★ ★

Comments?

* Zero Waste Taranaki promotes reducing the amount of waste that needs to be recycled or sent to landfill through various campaigns. Are you aware of the following campaigns?

	Yes	No
<i>Bring It</i> - encourages use of reusable coffee cups at cafes	<input type="radio"/>	<input type="radio"/>
<i>Plastic Free July</i> - encourages giving up plastic	<input type="radio"/>	<input type="radio"/>
<i>Love Food Hate Waste</i> - campaign to reduce food waste	<input type="radio"/>	<input type="radio"/>

* Zero Waste Taranaki provide tools and services to help your organisation reduce waste. Are you aware of the following tools and services?

	Yes	No
<i>The A-Z Zero Waste Directory</i> on the Zero Waste Taranaki website	<input type="radio"/>	<input type="radio"/>
<i>The Junction Zero Waste Hub</i> (New Plymouth) for free recycling drop off and also accepts/ sells items for free recycling	<input type="radio"/>	<input type="radio"/>
Sorting and taking items to Transfer Stations for free recycling	<input type="radio"/>	<input type="radio"/>
Tours of the Materials Recovery Facility (New Plymouth)	<input type="radio"/>	<input type="radio"/>
Help with planning and funding a zero waste event	<input type="radio"/>	<input type="radio"/>
Waste Levy Grants	<input type="radio"/>	<input type="radio"/>
Council website with information and tips	<input type="radio"/>	<input type="radio"/>
Council Facebook Page	<input type="radio"/>	<input type="radio"/>
Council Instagram	<input type="radio"/>	<input type="radio"/>
Recycling and Rubbish App	<input type="radio"/>	<input type="radio"/>
Monthly newsletters	<input type="radio"/>	<input type="radio"/>
Free support to businesses and organisations to reduce waste	<input type="radio"/>	<input type="radio"/>
<i>NPDC Resource Wise Business</i> 4-year support and award programme	<input type="radio"/>	<input type="radio"/>

*** The following are the same tools and services as above to help your organisation reduce waste. Please tick any of the tools or services that your organisation has used.**

- The A-Z Zero Waste Directory* on the Zero Waste Taranaki website
- The Junction Zero Waste Hub* (New Plymouth) for free recycling drop off and also accepts/ sells items for reuse
- Transfer Stations free recycling drop off
- Tours of the Materials Recovery Facility (New Plymouth)
- Help with planning and funding a zero waste event
- Waste Levy Grants
- Council website with information and tips
- Council Facebook Page
- Council Instagram
- Recycling and Rubbish App
- Monthly newsletters
- Free support to businesses and organisations to reduce waste
- NPDC Resource Wise Business* 4-year support and award programme
- None of the above

*** What types of waste and recycling collection services does your organisation use? Please tick all that apply.**

- Commercial landfill collection
- Commercial mixed recycling collection
- Commercial glass collection
- Commercial cardboard, paper collection
- Commercial organics (food scraps/ compostable packaging) collection
- Commercial green waste collection
- Sorting and taking items to The Junction (New Plymouth) for reuse
- Sorting and taking items to Transfer Stations
- I don't know what waste and recycling collection services our organisation uses
- Other (please specify)

* What actions does your organisation take to reduce waste? Please tick all that apply.

- Providing waste separation stations for staff and/or customers
- Providing staff and volunteers with information and updates about reducing waste
- Educating customers/ people you serve about how to reduce waste
- Changing the packaging or products you use (reducing it, using recyclable or compostable materials)
- Donating food scraps to an animal farmer
- Coffee grinds picked up by customers
- Donating leftover food to *On the House*, a Food Bank or similar
- Composting or worm farming onsite
- Requiring suppliers to take back packaging or items at the end of life (e.g., toner/ printer cartridges)
- Requiring contractors/suppliers to reduce waste or shift to recyclable packaging
- Reusable coffee cups or containers for staff/ volunteers
- Refillable water jugs or refills stations provided for staff/ volunteers
- Donating used furniture and stationery for reuse
- Donating used IT equipment for reuse
- Using hand driers or washable hand towels instead of paper towels
- Other (please specify)
- None of the above

*** What stops your organisation from reducing waste? Please tick all that apply.**

- Unsure of services available
- Cost of waste/ recycling collection
- Staff/ volunteers/ customers do not separate waste correctly
- Cost of bin stations/ signage
- Other business priorities
- Space constraints
- I find it confusing
- It takes too much time
- It costs too much to source products/ packaging that are low waste or "green"
- I don't feel motivated to change how our organisation deals with waste
- I don't think it will make a difference/ it's not our responsibility
- Nobody around me is doing anything to reduce waste
- There is no penalty for keeping our organisation's current habits
- There aren't enough options to reduce more waste
- Other (please specify)

*** What would motivate your organisation to reduce more waste? Please tick all that apply.**

- Reducing waste would save my organisation money
- Learning how similar organisations are reducing waste
- Receiving advice on how to audit or report on our waste
- Learning what is currently available and possible for reducing waste
- We could be penalised if we don't reduce waste
- Having someone help me learn through a presentation, workshop, or online resources
- Advice on where to buy compostable, recyclable and eco-friendly products
- Advice on bin systems and signage to make waste separation within my organisation easier
- Other (please specify)

*** If you wanted to learn more about minimising waste, how would you prefer to learn? Please tick all that apply.**

- Website with information (videos, directory, informational blogs, tips)
- App with information, reminders and tips
- Bite size pieces of information posted on social media
- Marketing and promotion (i.e., local radio programme, sustainability column in local free newspapers)
- A regular panui, digest, or newsletter sent via email
- Hands on workshops and practical sessions
- Virtual workshops or informational sessions
- Information stalls at local markets and community events
- Other (please specify)

*** Which social media platforms do you prefer to receive information from?**

- Facebook
- Instagram
- Tik Tok
- Twitter
- Snapchat
- Other (please specify)

- None of the above

Do you have any other comments? For example:

-Has your organisation adopted any new habits to reduce waste?

-Do you have ideas you'd like us to know about?

-Has your organisation faced any challenges trying to reduce waste?

*** What district(s) does your business/ organisation operate in? (please tick all that apply)**

- New Plymouth
- Stratford
- South Taranaki

*** Business/ organisation type:**

*** How many employees and/or volunteers do you have?**

*** How many physical premises do you operate from?**

*** Would you like to receive our quarterly Business Waste Newsletter?**

- Yes
- No
- We already subscribe

*** Would you be interested in receiving support to help your business/ organisation reduce waste?**

- Yes
- No
- We already receive support

If you answered yes to either of the last 2 questions, please provide your contact information.

Please note that all answers from the survey will be kept confidential (subject to the Local Government Official Information and Meetings Act) and separate from your contact information. No individuals, commercial operations, organisations, clubs, etc. will be identified in the final report. Your contact information will be used for the purposes you have requested above only.

Name

Organisation/
Company/ Club
Name

Address

Address 2

City/Town

Postal Code

Email Address

Phone Number

***** Please note: for the sake of brevity, school, kura, early learning centre, or tertiary institute will be referred to as 'school/ kura' throughout this survey.**

* How concerned are you about the impacts of your school/ kura's waste on the environment?

Not concerned Slightly concerned Concerned Very concerned Extremely concerned

★ ★ ★ ★ ★

Comments?

* How committed is your school/ kura to **recycling** the waste it produces?

Note: recycling here means using the council kerbside bin collection service or transfer station recycling.

Not committed Slightly committed Committed Very committed Extremely committed

★ ★ ★ ★ ★

Comments?

* How committed is your school/ kura to doing **more than recycling** to reduce waste?

Note: doing more than recycling means rethinking what you buy, reducing what you buy new, reusing, repairing, or repurposing items.

Not committed	Slightly committed	Committed	Very committed	Extremely committed
★	★	★	★	★

Comments?

* Zero Waste Taranaki promotes reducing the amount of waste that needs to be recycled or sent to landfill through various campaigns. Are you aware of the following campaigns?

	Yes	No
<i>Bring It</i> - encourages use of reusable coffee cups at cafes	<input type="radio"/>	<input type="radio"/>
<i>Plastic Free July</i> - encourages giving up plastic	<input type="radio"/>	<input type="radio"/>
<i>Love Food Hate Waste</i> - campaign to reduce food waste	<input type="radio"/>	<input type="radio"/>

* Zero Waste Taranaki provides tools and services to help your school/ kura reduce waste. Are you **aware** of the following tools or services?

	Yes	No
<i>The A-Z Zero Waste Directory on the Zero Waste Taranaki website</i>	<input type="radio"/>	<input type="radio"/>
<i>The Junction Zero Waste Hub (New Plymouth) for free recycling drop off and also accepts/ sells items for re-use</i>	<input type="radio"/>	<input type="radio"/>
Transfer Stations	<input type="radio"/>	<input type="radio"/>
Tours of the <i>Materials Recovery Facility (New Plymouth)</i>	<input type="radio"/>	<input type="radio"/>
Help with planning and funding a Zero Waste event	<input type="radio"/>	<input type="radio"/>
<i>Let's Compost workshop in your community with Sustainable Taranaki</i>	<input type="radio"/>	<input type="radio"/>
Waste Levy Grants	<input type="radio"/>	<input type="radio"/>
Council website with information and tips	<input type="radio"/>	<input type="radio"/>
Council Facebook Page	<input type="radio"/>	<input type="radio"/>
Council Instagram	<input type="radio"/>	<input type="radio"/>
Recycling and Rubbish App	<input type="radio"/>	<input type="radio"/>
Monthly newsletters	<input type="radio"/>	<input type="radio"/>
Free support to schools to reduce waste	<input type="radio"/>	<input type="radio"/>
Zero Waste Education Programme (New Plymouth)	<input type="radio"/>	<input type="radio"/>

* Below are the same tools and services as above to help your school/ kura reduce waste. Please tick any of the tools or services that you have used.

- The A-Z Zero Waste Directory on the Zero Waste Taranaki website*
- The Junction Zero Waste Hub (New Plymouth) for free recycling drop off and also accepts/ sells items for re-use*
- Transfer Stations
- Tours of the *Materials Recovery Facility (New Plymouth)*
- Help with planning and funding a Zero Waste event
- Let's Compost workshop in your community with Sustainable Taranaki*
- Waste Levy Grants
- Council website with information and tips
- Council Facebook Page
- Council Instagram
- Recycling and Rubbish App
- Monthly newsletters
- Free support to schools to reduce waste
- Zero Waste Education Programme (New Plymouth)
- None of the above

*** What types of waste and recycling collection services do you use? Please tick all that apply.**

- Yellow Kerbside Mixed Recycling (for early learning, primary and secondary only)
- Commercial landfill collection
- Commercial mixed recycling collection
- Commercial glass collection
- Commercial cardboard and paper collection
- Commercial organics (food scraps/ compostable packaging) collection
- Commercial green waste collection
- Sorting and taking items to The Junction (New Plymouth) for free recycling and reuse
- Sorting and taking items to Transfer Stations
- I don't know what waste/recycling collection service(s) my school/ kura uses
- Other (please specify)

* What actions does your school/ kura take to reduce waste? Please tick all that apply.

- Providing waste separation stations
- Providing staff with information and updates about reducing waste
- Educating students and families about how to reduce waste
- Composting or worm farming onsite
- Getting food scraps picked up by an animal farmer
- Litter free lunch policy
- Requirements for contractors/suppliers to reduce waste
- Cloth nappies (for early learning only)
- Reusable coffee cups or containers for staff
- Water jugs or refills stations provided for staff and students
- Buying recycled content products (e.g., paper, toilet rolls)
- Returning items at end of life for reuse, remanufacturing or recycling (e.g., toner/ printer cartridges)
- Growing food/ kai in a school garden
- Donating used furniture and stationery for reuse
- Donating used IT equipment for reuse
- Using hand driers or washable hand towels instead of paper towels
- Other (please specify)
- None of the above

* What stops your school/ kura from reducing waste? Please tick all that apply.

- Unsure of services available
- Cost of waste/ recycling collection
- Staff/ volunteers/ students do not separate waste correctly
- Cost of bin stations/ signage
- Other school priorities
- Space constraints
- We find it confusing
- It takes too much time
- It costs too much to source products/ packaging that are low waste or "green"
- We don't feel motivated to change how the school deals with waste
- We don't think it will make a difference/ it's not our responsibility
- Nobody around us is doing anything to reduce waste
- There is no penalty for keeping our school/ kura's current habits
- There aren't enough options to reduce more waste
- Other (please specify)

* What would motivate your school/ kura to reduce waste? Please tick all that apply.

- Reducing waste would save my school/ kura money
- Learning how similar schools/ kura are reducing waste
- Receiving advice on how to audit or report on our waste
- Learning what is currently available and possible for reducing waste
- We could be penalised if we don't reduce waste
- Having someone help us learn through a presentation, workshop, or online resources
- Advice on where to buy compostable, recyclable and eco-friendly products
- Advice on bin systems and signage to make waste separation easier
- Other (please specify)

*** If you wanted to learn more about minimising waste, how would you prefer to learn? Please tick all that apply.**

- Website with information (videos, directory, informational blogs, tips)
- App with information, reminders and tips
- Bite size pieces of information posted on social media
- Marketing and promotion (i.e., local radio programme, sustainability column in local free newspapers)
- A regular panui, digest, or newsletter sent via email
- Hands on workshops and practical sessions
- Virtual workshops or informational sessions
- Information stalls at local markets and community events
- Other (please specify)

*** Which social media platforms do you prefer to receive information from?**

- Facebook
- Instagram
- TikTok
- Twitter
- Snapchat
- Other (please specify)

- None of the above

Do you have any other comments? For example:

-Has your school/ kura adopted any new habits to reduce waste?

-Do you have ideas you'd like us to know about?

-Has your school/ kura had any challenges trying to reduce waste?

*** What district(s) is your school, kura, early learning or tertiary institute in?**

- New Plymouth
- Stratford
- South Taranaki

Name of school, kura, early learning or tertiary institute (optional)

*** School, kura, early learning or tertiary institute type:**

- Early learning
- Primary
- Kura
- Secondary
- Tertiary
- Other (please specify)

*** How many staff do you have?**

*** How many students do you have?**

*** Who is primarily responsible for recycling in your school/ kura?**

- Caretaker
- Teaching staff
- Senior leadership
- Student enviro team
- Students
- I'm not sure
- Other (please specify)

* Would you be interested in receiving support to help your school/ kura reduce waste?

- Yes
- No
- We already receive support

* Would you like to be kept up to date about any news or events through a newsletter?

- Yes
- No
- We already subscribe

If you answered yes to either of the last 2 questions, please provide your contact information

Please note that all answers from the survey will be kept confidential (subject to the Local Government Official Information and Meetings Act) and separate from your contact information. No individuals, schools, kura, etc. will be identified in the final report. Your contact information will be used for the purposes you have requested above only.

Your name	<input type="text"/>
Name of school, kura, early learning or tertiary institute	<input type="text"/>
Address	<input type="text"/>
Address 2	<input type="text"/>
City/Town	<input type="text"/>
Postal Code	<input type="text"/>
Email Address	<input type="text"/>
Phone Number	<input type="text"/>

* How concerned are you about the impacts of your farm’s waste on the environment?

Note: Farm waste (rubbish) includes things like silage wrap/ netting, plastic containers/ barrels, rubber ware, spray paint, cardboard, latex gloves, meal bags, chemicals, etc.

Not concerned	Slightly concerned	Concerned	Very concerned	Extremely concerned
★	★	★	★	★

Comments?

* How committed are you to **recycling** the waste your farm produces?

Note: recycling farm waste means using schemes like AgRecovery and Plasback or bringing cardboard and containers to your local Transfer Station.

Not committed	Slightly committed	Committed	Very committed	Extremely committed
★	★	★	★	★

Comments?

* How committed is your farm to doing **more than recycling** to reduce waste?

Note: doing more than recycling means composting, buying in bulk, re-using barrels and containers, repurposing materials, repairing, etc.

Not committed	Slightly committed	Committed	Very committed	Extremely committed
★	★	★	★	★

Comments?

* Zero Waste Taranaki promotes reducing the amount of waste that needs to be recycled or sent to landfill through various campaigns. Are you aware of the following campaigns?

	Yes	No
<i>Bring It</i> - encourages use of reusable coffee cups at cafes	<input type="radio"/>	<input type="radio"/>
<i>Plastic Free July</i> - encourages giving up plastic	<input type="radio"/>	<input type="radio"/>
<i>Love Food Hate Waste</i> - campagin to reduce food waste	<input type="radio"/>	<input type="radio"/>

* Zero Waste Taranaki provides tools and services to help you reduce waste. Are you aware of the following tools and services?

	Yes	No
The Junction Zero Waste Hub (New Plymouth) for free recycling drop off and accepts/ sells items for re-use	<input type="radio"/>	<input type="radio"/>
The A-Z Zero Waste Directory on the Zero Waste Taranaki website	<input type="radio"/>	<input type="radio"/>
Transfer Stations free recycling drop off	<input type="radio"/>	<input type="radio"/>
Tours of the Materials Recovery Facility (New Plymouth)	<input type="radio"/>	<input type="radio"/>
Help with planning and funding a zero waste event	<input type="radio"/>	<input type="radio"/>
Let's Compost workshop in your community with Sustainable Taranaki	<input type="radio"/>	<input type="radio"/>
Waste Levy Grants	<input type="radio"/>	<input type="radio"/>
Council website with information and tips	<input type="radio"/>	<input type="radio"/>
Council Facebook Page	<input type="radio"/>	<input type="radio"/>
Council Instagram	<input type="radio"/>	<input type="radio"/>
Recycling and Rubbish App	<input type="radio"/>	<input type="radio"/>
Monthly newsletters	<input type="radio"/>	<input type="radio"/>
AgRecovery events	<input type="radio"/>	<input type="radio"/>

* The following are the same tools and services as above to help you reduce waste. Please tick any of the tools or services that you have used.

- The A-Z Zero Waste Directory on the Zero Waste Taranaki website
- The Junction Zero Waste Hub (New Plymouth) for free recycling drop off and also accepts/ sells items for re-use
- Transfer Stations free recycling drop off
- Tours of the Materials Recovery Facility (New Plymouth)
- Help with planning and funding a Zero Waste event
- Let's Compost workshop in your community with Sustainable Taranaki
- Waste Levy Grants
- Council website with information and tips
- Council Facebook Page
- Council Instagram
- Recycling and Rubbish App
- Monthly newsletters
- AgRecovery Events
- None of the above

*** How do you dispose of your farm waste? Please tick all that apply.**

- Landfill skip bin hire
- Removed off the farm to landfill by you
- Recycled using Agrecovery
- Recycled through Plasback
- Sorting and taking items to Transfer Stations
- Other (please specify)

*** What actions does your farm take to reduce waste? Please tick all that apply.**

- Buying in bulk
- Re-using containers/ barrels/ tyres
- Composting or worm farming
- Donating old farm tools/ equipment
- Picking up food scraps from restaurants/ cafes to feed animals
- Buying products with recycled content
- Other (please specify)

- None of the above

* What stops your farm from reducing waste? Please tick all that apply.

- Unsure of services available
- Cost of waste/ recycling collection
- Staff/ farm workers do not know how to separate waste correctly
- Cost of bin stations/ signage
- Other farm priorities
- Space constraints
- I find it confusing
- It takes too much time
- It costs too much to source products/ packaging that are low waste or "green"
- I don't feel motivated to change how our farm deals with waste
- I don't think it will make a difference/ it's not our responsibility
- Nobody around me is doing anything to reduce waste
- There is no penalty for keeping our current habits
- There aren't enough options to reduce more waste
- Other (please specify)

* What would motivate your farm to reduce more waste? Please tick all that apply.

- Reducing waste would save my farm money
- Learning how similar farms are reducing waste
- Receiving advice on how to audit or report on our waste
- Learning what is currently available and possible for reducing waste
- We could be penalised if we don't reduce waste
- Having someone help me learn through a presentation, workshop, or online resources
- Advice on compostable, recyclable and eco-friendly products
- Advice on bin systems and signage to make waste separation easier
- Other (please specify)

*** If you wanted to learn more about minimising waste, how would you prefer to learn? Please tick all that apply.**

- Website with information (videos, directory, informational blogs, tips)
- App with information, reminders and tips
- Bite size pieces of information posted on social media
- Marketing and promotion (i.e., local radio programme, sustainability column in local free newspapers)
- A regular panui, digest, or newsletter sent via email
- Hands on workshops and practical sessions
- Virtual workshops or informational sessions
- Information stalls at local markets/ shops or community events
- Other (please specify)
- None of the above

*** Which social media platforms do you do you prefer to receive information from?**

- Facebook
- Instagram
- TikTok
- Twitter
- Snapchat
- Other (please specify)
- None of the above

Do you have any other comments? For example:

-Has your farm adopted any new habits to reduce waste?

-Do you have ideas you'd like us to know about?

-Has your farm faced any challenges trying to reduce waste?

*** What type of farm do you operate?**

*** What District is your farm in?**

- New Plymouth
- Stratford
- South Taranaki

*** What is your role on the farm?**

- Farm owner
- Farm manager
- Farm worker
- Other (please specify)

*** Are you interested in receiving support to help your farm reduce waste?**

- Yes
- No

If you answered yes above, please provide your contact information.

*****Please note that all answers from the survey will be kept confidential (subject to the Local Government Official Information and Meetings Act) and separate from your contact information. No individuals or farms will be identified in the final report. Your contact information will be used for providing support only.**

Name	<input type="text"/>
Farm Name (if applicable)	<input type="text"/>
Address	<input type="text"/>
Address 2	<input type="text"/>
City/Town	<input type="text"/>
Postal Code	<input type="text"/>
Email Address	<input type="text"/>
Phone Number	<input type="text"/>

Thank-you for completing our survey!

Contest Entry

In order to be entered into the draw to win one of four SOS Universal Business Vouchers valued at \$100 each, please provide your contact information.

Please note that all answers from the survey will be kept confidential (subject to the Local Government Official Information and Meetings Act) and separate from your contact information. No individuals will be identified in the final report. Your contact information will be used for the purposes of drawing winners only and will then be securely deleted.

To enter the draw, please provide you contact information.

Name	<input type="text"/>
Email Address	<input type="text"/>
Phone Number	<input type="text"/>

AGENDA AUTHORISATION

Agenda for the Taranaki Solid Waste Management Committee meeting held on Thursday 18 August 2022.

Confirmed:



15 Aug. 2022 4:16:06 PM GMT+12
A J Matthews
Director - Environment Quality

Approved:



15 Aug. 2022 12:19:20 PM GMT+12
S J Ruru
Chief Executive