



**WASTE
MANAGEMENT
& RESOURCE
RECOVERY PLAN**
2021–2025



THE CITY OF
Unley

Contents

| | |
|--|-----------|
| Mayor's Message | 4 |
| 1 Executive Summary | 6 |
| 1.1 Strategic Context | 6 |
| 1.2 Building on Our Successes | 8 |
| 2 Current Services | 12 |
| 3 Residential Kerbside Collection | 14 |
| 3.1 Objectives | 15 |
| 3.2 Actions | 15 |
| 4 Multi Unit Developments | 16 |
| 4.1 Objectives | 17 |
| 4.2 Actions | 17 |
| 5 Hard Waste | 19 |
| 5.1 Objectives | 19 |
| 5.2 Actions | 19 |
| 6 Council Internal Waste Generation | 20 |
| 6.1 Objectives | 21 |
| 6.2 Actions | 21 |
| 7 New Services Contract | 22 |
| 7.1 Objectives | 22 |
| 7.2 Actions | 22 |
| 8 Innovation and Technology | 24 |
| 8.1 Objectives | 25 |
| 8.2 Actions | 25 |
| 9 Education and Promotion | 26 |
| 9.1 Objectives | 26 |
| 9.2 Actions | 27 |
| 10 Implementation | 28 |

Mayor's Message

Waste management is one of the most important services Council provides. I am immensely proud of our partnership with our community which demonstrates our collective and ongoing commitment to recycling and reduction of waste to landfill for the City of Unley.

We have had many great achievements in recent years, but we must continue to work with our community to strive towards a sustainable environment for our City, for present and future generations.

There is always much going on in the waste and resource management sector in South Australia so, now more than ever, we must work smarter and more collaboratively with our community to ensure a sustainable environment.

In addition to the ongoing industry matters we need to consider; our waste management services contract comes to an end in early 2022. It was therefore timely for us to review our objectives and set out clear directions to ensure continuous improvement in our resource recovery and build on our recent great achievements.

I am delighted to present our *Waste Management and Resource Recovery Plan 2021–2025*. The Plan sets out Council's objectives and actions with a focus on improved services, innovation and the use of latest technologies to achieve even better outcomes for our community.

The key focus areas of the Plan are:

- ▶ Improved residential kerbside collection outcomes
- ▶ Proposals for Multi Unit Developments
- ▶ Hard waste collection service improvements
- ▶ An assessment of Council's internal waste management practices
- ▶ A review of services prior to entering a new contract
- ▶ Innovation and use of technology in service delivery
- ▶ Continued community education and engagement.

Council endorsed the Plan in July 2021 following community consultation. This is an important strategic direction for our City, and Council was keen to hear from our community in assisting with setting our directions.

The Plan was well received, with 63 written submissions received during the community consultation process with strong support for the key directions of the Plan.

By continuing to work in partnership with our community we can all become even more resource efficient and continue to play our part to protect our precious environment.

Council will now commence its journey to deliver on its objectives set out in the Plan.

We have demonstrated our strong reputation and commitment as a Local Government leader in waste management.

Over the past four years we have:

- ▶ reduced our general waste by 30kg per person per year, of which 40% is from 12% of households who are participating in KESAB's 'Take the Pledge' Program
- ▶ reduced recycling contamination by 8% per person

- ▶ maintained our kerbside organics collection at consistently higher volumes than the Adelaide Metropolitan average
- ▶ achieved a city-wide rollout of kitchen caddies
- ▶ introduced weekly organics collection trials in targeted areas.

Our Plan will enable us to:

- ▶ continue to reduce the tonnage of municipal solid waste to landfill
- ▶ reduce contamination in our recycling and organics bins
- ▶ expand participation in KESAB's 'Take the Pledge' Program
- ▶ consider a city-wide weekly organics collection
- ▶ utilise latest technology such as geolocation, bin weighing and camera/video technology to improve our services
- ▶ review our scope of services for waste management to ensure the best outcomes for our City and the environment.



Michael Hewitson

Mayor Michael Hewitson AM



Executive Summary

The City of Unley (Council) *Waste Management and Resource Recovery Plan 2021–2025* (Plan) sets out the proposed objectives and actions to provide sustainable waste management for the City and reduce waste to landfill as we continue to work towards achieving the targets of *South Australia's Waste Strategy 2020–2025 'Supporting the Circular Economy'*.

Waste management is one of the most visible services provided by Council and is of key interest to the community. Council has responded through a commitment to deliver excellence in waste management as a key objective of its *Four-Year Delivery Plan 2021–2025*.



1.1 Strategic Context

Through its *Four-Year Delivery Plan 2021–2025*, Council intends to implement several waste management strategies. This will be achieved through the delivery of various key initiatives and projects funded by Council through its Annual Business Plan and Budget, as well as numerous operations and ongoing services. In addition, Council is also developing a *Climate and Energy Plan* to better track, manage and reduce Council's operational carbon and energy footprint.

In developing the Plan, Council has prioritised the implementation of its strategies as contained in its *Four-Year Delivery Plan 2021–2025* over the coming five (5) years and has aligned a number of objectives and actions to the *Climate and Energy Plan*.

Consideration has also been given to the results of various kerbside collection audits which have been undertaken within the City in recent years, current gaps in resource collection to remove contamination using innovation and technology and the need to review Council's scope of services for delivering its waste management responsibilities.

Four Year Delivery Plan 2021–2025

Objective 2.2 Excellence in waste management is achieved through avoidance, re-use and diversion.

STRATEGIES

- 2.2a** Advocate to State Government to enable fortnightly general waste collection supported by kerbside, recycling and green waste collections
- 2.2b** Provide targeted residential education programs to reduce contamination and increase recycling of soft plastics, organics and e-waste
- 2.2c** Provide education programs and improved collection services to businesses
- 2.2d** Work with other Councils in waste management to share information, develop innovative solutions and achieve economies of scale
- 2.2e** Improve hard rubbish collection
- 2.2f** Reduce waste and single use plastics and increase recycling from Council's operations and events
- 2.2g** Support development policy and assessment that reflects best practice in on-site waste management

KEY INITIATIVES/PROJECTS

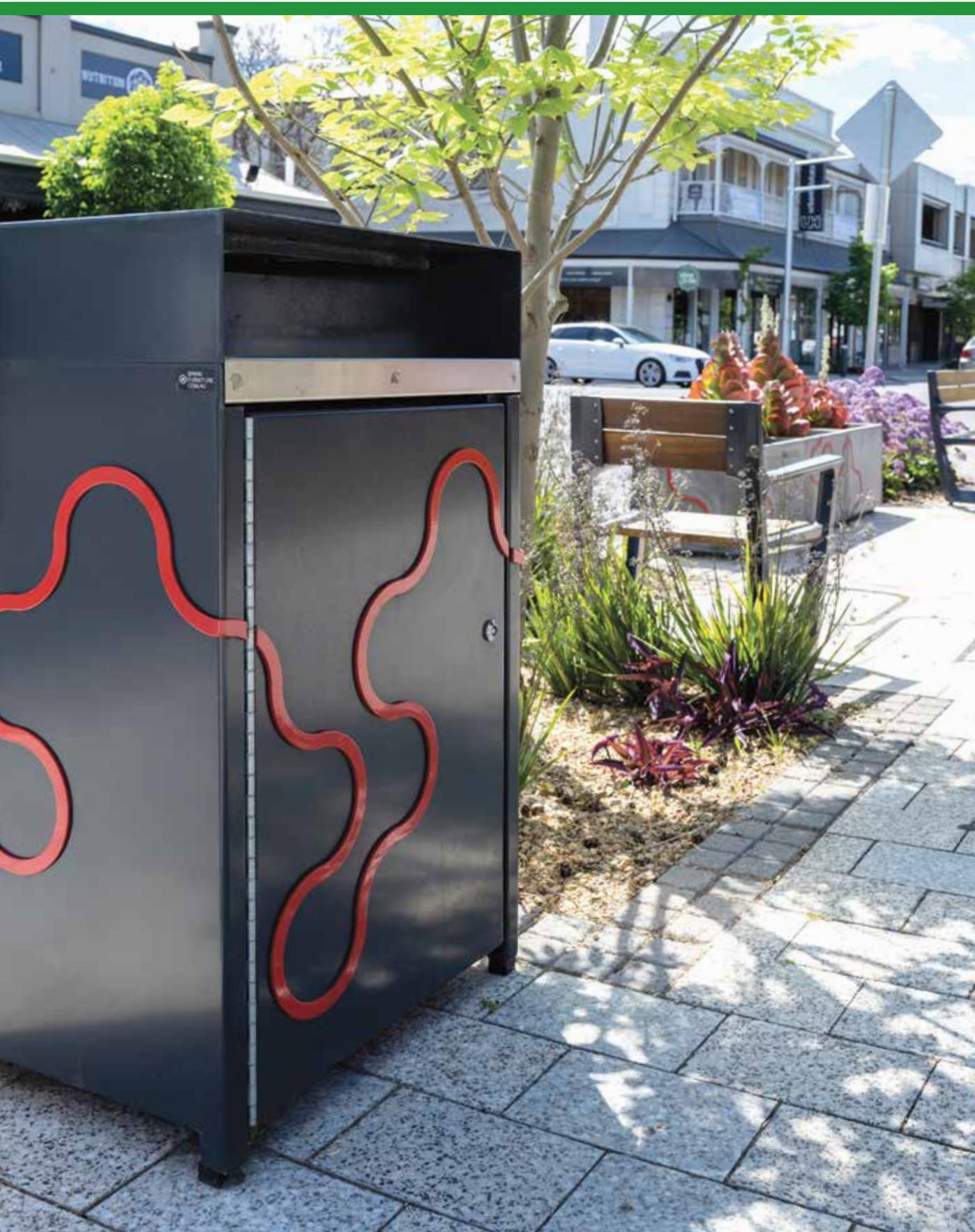
- ▶ Introduce a pilot program for business waste collection
- ▶ Include innovation as part of new waste contract
- ▶ Review hard rubbish collection
- ▶ Trial weekly green waste collection program
- ▶ Implement Food Organics Incentive Program
- ▶ Investigate options for reduction/removal of single use plastics in council operations
- ▶ Participate in the Eastern Region Alliance investigation of waste separation at source

ONGOING SERVICES

- ▶ Waste minimisation and recycling at Council events
- ▶ E-waste and battery collection through Council Centres
- ▶ Kerbside residential waste collection – all waste streams
- ▶ Hard rubbish service
- ▶ Recycling of Council office, building and landscape waste
- ▶ Kitchen caddies rollout program



1.2 Building on Our Successes

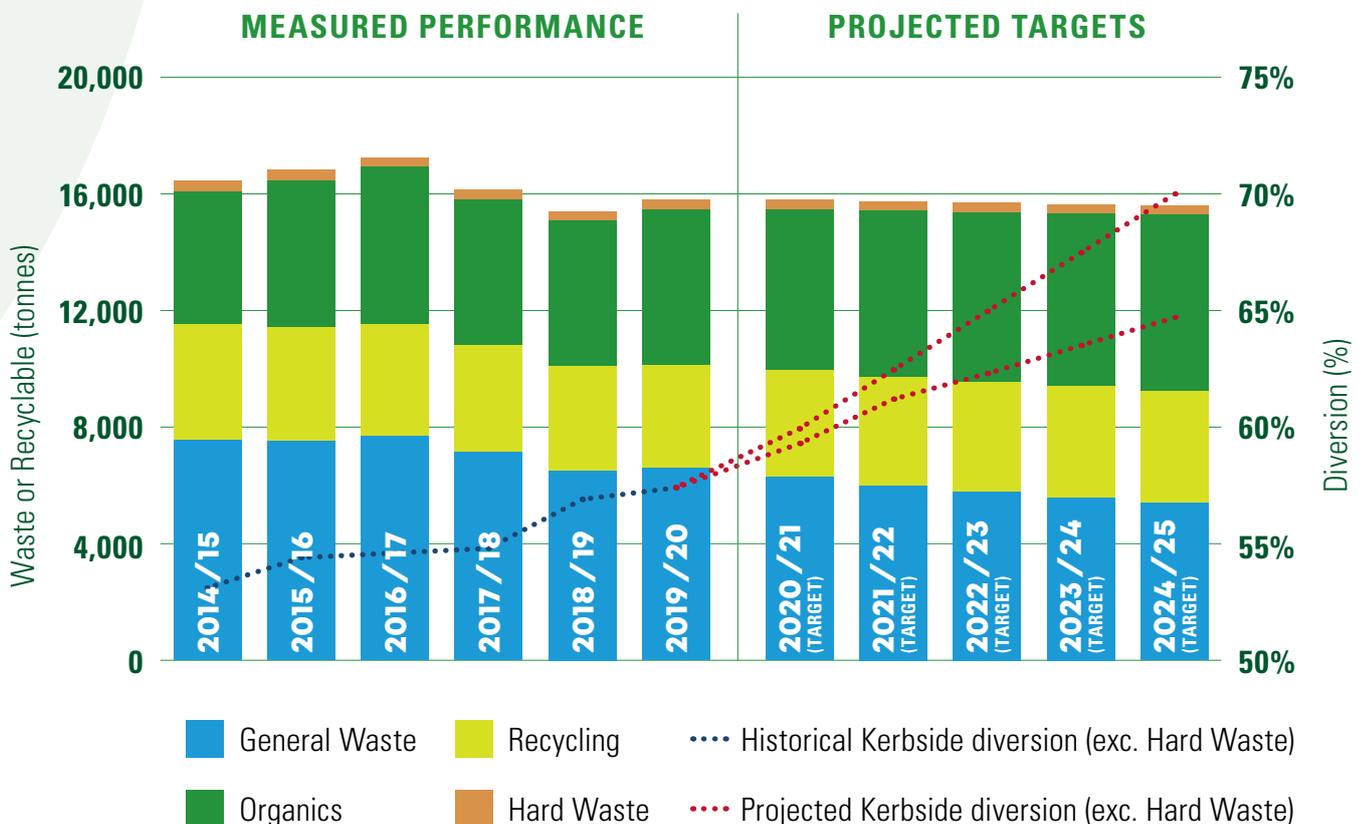


Council has achieved great outcomes in waste management in recent years, including a high diversion rate of waste from landfill.

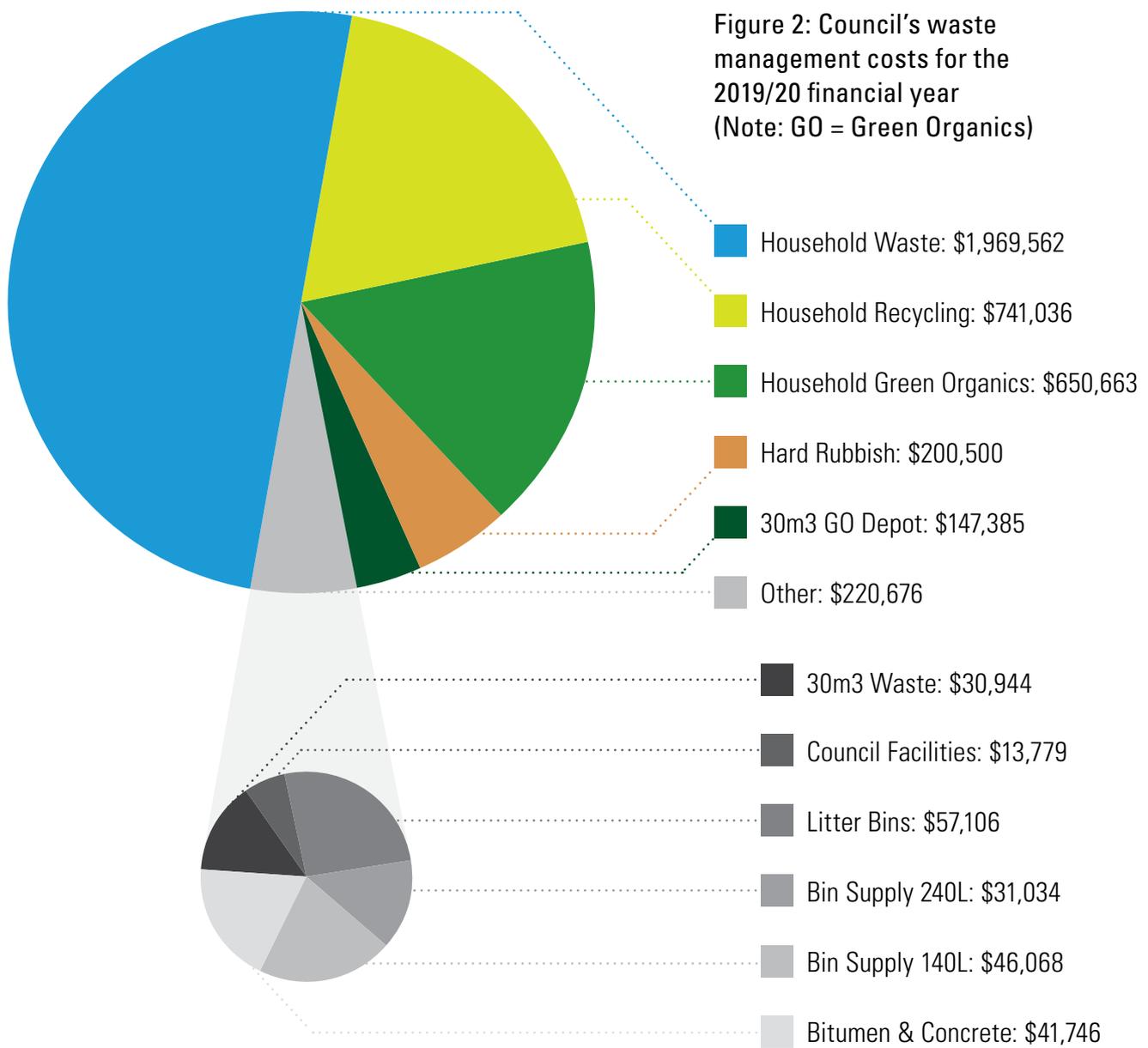
Over the past six years, this has increased by approximately 5% or 1,000 tonnes p.a. which equates to approximately 13.7% of all residential waste.

Council has one of the highest landfill diversion rates in South Australia and, compared to other metropolitan councils, a competitive waste spend per property. Figure 1 outlines Council's waste diversion and future projection of residential waste performance. Council plans to build on its success and continue to reduce general waste volumes (shown in blue in Figure 1).

Figure 1: Projected kerbside collection target for Council



Waste management and resource recovery is a significant part of Council's operational costs and it is therefore critical to adopt a continuous improvement approach. Figure 2 outlines Council's financial commitments based on its 2019/20 financial year actual costs.





2

Current Services

Council provides a range of waste management and resource recovery services City-wide.

The current scope of services has been reviewed in developing the Plan to ensure alignment with Council's strategic directions as set out in the *Four-Year Delivery Plan 2021–2025*.

Currently, Council provides the following waste collection services:

RESIDENTIAL

- ▶ Kerbside collection
 - ▶ General Waste (140 litre and 240 litre MGB, weekly)
 - ▶ Mixed Recycling (240 litre MGB, fortnightly)
 - ▶ Food Organics / Garden Organics (240 litre MGB, fortnightly) – Pilot project underway to trial weekly collection
 - ▶ Supply of bins to each rateable property (MGBs)
- ▶ Hard waste collection
 - ▶ One (1) collection per financial year, up to 2m³
- ▶ Removal of illegally dumped waste

COMMERCIAL

- ▶ For each rateable commercial property, kerbside collection bins are offered for general waste and mixed recycling
- ▶ Food/garden organic bins are also provided in cases where there is a substantiated need



COUNCIL FACILITIES

- ▶ Public place general waste and recycle bins (including dog waste bag dispensers)
- ▶ Garden organics from public spaces
- ▶ Bitumen and concrete from public spaces / roads
- ▶ General waste associated with Council work
- ▶ General waste, recycling and organics generated at Council facilities

SPECIAL SERVICES

- ▶ Disposal location for electronic waste (e-waste), batteries, engine oils and polystyrene (EPS)
- ▶ Additional assistance for special needs residents (walk in / walk out service)
- ▶ Information and education to the community for appropriate use of waste services

Council undertakes bi-annual audits of residential kerbside bins in order to measure how well the three-bin system is being used City-wide. Bins are randomly selected with all contents collected and combined. The contents are carefully separated and measured by weight and volume to determine 'diversion' of recyclable and compostable material away from landfill and 'contamination' based on how much material has been put into the incorrect bin.

In partnership with KESAB, Council has also run the 'Take the Pledge' campaign since February 2016. The campaign is designed to recruit residents to pledge to use their kerbside bins to their full potential. As part of the campaign, residents place a sticker on their bins to advertise their participation with the aim of promoting the scheme to others.

A sample of the campaign participants' bins is audited twice annually. Any bins which are found to be used nearly perfectly are entered into a draw to be rewarded with a gift voucher. Residents with bins which could be improved are provided with written advice on how to achieve this. The program is proposed to continue under the Plan and will be considered for expansion, particularly for businesses.

3

Residential Kerbside Collection

Council's current residential kerbside waste diversion rate is approximately 60% which is considered to be among the best in the Greater Adelaide Metropolitan Area.

The State Government's diversion rate, as contained in its *South Australia's Waste Strategy 2020–2025 'Supporting the Circular Economy'* has a target of 60% by 2023 which Council has already achieved and 70% by 2025.

Council can achieve a diversion rate of 65% by 2023 if each household located within the City places only an extra 1kg of food waste and recycling into the correct bin each week. Similarly, Council can achieve the 70% diversion rate if 2kg per household were diverted.

Council's residential kerbside collection is approximately 75% of all waste collected by Council and 90% of waste to landfill. Approximately 75% of materials deposited in the kerbside general waste bin (blue bin) should be disposed of elsewhere, either in the recycling or organics bin, or specialist disposal for electronic (e-waste), soft plastics and other hazardous waste.

There is potential to reduce greenhouse emissions by approximately 580 tonnes CO₂ equivalent annually, recover 1,000 tonnes of recyclable materials and reduce Council's costs by more than \$400,000 p.a. if all materials are correctly disposed.

Contamination of recycling and organic bins remains a focus for Council which currently undertakes bi-annual audits to collate data and this is proposed to be continued.

In respect to recycling, contamination in the Greater Adelaide Metropolitan Area is approximately 16%. Between 2017 and 2019, Council recorded a significant reduction in recycling contamination from 14% to 7% but further reduction could still be achieved.

In respect to organics, the audits suggest that contamination of bins is trending upwards within the City at a rate equivalent to approximately 0.2% p.a.

3.1 Objectives

- 3.1.1 Continue to improve upon current Council landfill waste diversion rates to achieve greater environmental outcomes.
- 3.1.2 Reduce landfill waste by 5% p.a. with a benchmark of 6,588 tonnes p.a. which equates to 330 tonnes p.a. (2020).
- 3.1.3 Reduce organics in general waste bins by 10% p.a. with a benchmark of 3,300 tonnes p.a. which equates to 330 tonnes p.a. (2020).
- 3.1.4 Reduce contamination of recycling bins to less than 5%.
- 3.1.5 Reduce contamination of organics bins to less than 1.5%.

3.2 Actions

- 3.2.1 Continue the 'Take the Pledge' campaign and consider its expansion as follows:
 - (a) Increase participation by 400 households p.a. from 1,787 households (2020).
 - (b) Consider program adjustments and improvements.
 - (c) Consider resident and business ambassador roles to accelerate recruitment of participants.
- 3.2.2 Provide education and promotion regarding single-use plastics in line with the *Single-use and Other Plastic Products (Waste Avoidance) Act 2020*.
- 3.2.3 Provide education and promotion regarding disposal of specialised waste streams such as soft plastics, e-waste and hazardous waste.
- 3.2.4 Continue to use State Government education materials such as 'Which Bin'.
- 3.2.5 Use social media to promote food waste disposal to organics bins.
- 3.2.6 Use outdoor banners and signage for promotion where appropriate.
- 3.2.7 Advocate to the State Government regarding legislative change to enable fortnightly general waste collection.
- 3.2.8 Undertake a cost/benefit analysis for introducing a weekly organics collection.
- 3.2.9 Consider the benefits of promoting separation of wine bottles from recycling bins for disposal to bottle depots, to reduce contamination from broken glass and to improve recycling of this particular type of glass.
- 3.2.10 Continue undertaking bi-annual residential kerbside bin audits.





Multi Unit Developments

Council currently offers a kerbside waste collection for Multi Unit Developments (MUDs) using side-lift collection trucks.

This is offered to MUDs which can use the standard kerbside bins and can safely present them for kerbside collection.

MUDs are increasing in numbers and vary in built form. For larger sites, waste collection may not be able to be accommodated using Council's standard kerbside services. Under the Plan, Council will consider developing design guidelines for developers which will assist in ensuring that MUDs are future-proofed for Council waste collection.

Council will also consider providing extended services for MUDs as follows:

SMALL TO MEDIUM SITES (UP TO 24 DWELLINGS):

- ▶ Kerbside collection using 240 litre general waste and 360 litre recycling bins.

LARGE SITES (MORE THAN 24 DWELLINGS):

- ▶ Full rear-lift service.



4.1 Objectives

- 4.1.1 Waste management and resource recovery outcomes for MUDs to be similar to low density (e.g. Torrens Title) dwellings.
- 4.1.2 Cost for provision of services to MUDs to be equivalent (per dwelling / ratepayer) to low density dwellings.
- 4.1.3 Support development policy and assessment that reflects best practice in on-site waste management.
- 4.1.4 Work in collaboration with developers to encourage all new MUDs to be designed to allow collection by Council if suitable services are offered in future and where possible.

4.2 Actions

- 4.2.1 Investigate introduction of guidelines or policy for design of waste storage and presentation for new MUDs to inform developers of Council requirements.
- 4.2.2 Undertake a cost/benefit analysis of introducing 240 litre general waste and 360 litre recycling bins for small to medium MUDs.
- 4.2.3 Undertake a cost/benefit analysis for the introduction of a rear-lift collection service for medium to large MUDs. This is to include consideration of a weekly organics collection service.
- 4.2.4 Investigate historical MUD sites City-wide to ensure they have the capability and provision for organics bins to encourage waste diversion.



5

Hard Waste

Currently, Council provides residents one (1) hard waste collection annually at no fee with an average of a three (3) week waiting period from booking to collection. This is considered to be a high service level when compared to an average of eight (8) weeks for other councils.

Council's costs to collect and process hard waste equates to approximately 5% of its overall total operating cost for waste management and resource recovery services.

Over the past six (6) years, the hard waste collection service was accessed by more than 8,600 residents City-wide, of which approximately 200 utilised the full number of allocated collections over these years. During this period of time more than 16,000 collections were undertaken by Council amounting to approximately 1,600 tonnes of hard waste.

Anecdotal evidence suggests that illegal dumping of hard waste is not a significant problem within the City. However, Council is considering reducing the level of illegal dumping even further by offering a collection service at no fee to residents of rental properties who are able to provide evidence that the collection is required as they are moving out. The hard waste service is proposed to be continued and improved under the Plan as follows.

5.1 Objectives

- 5.1.1 Maintain current hard waste collection service level.
- 5.1.2 Improve efficiency of the current hard waste collection service.

5.2 Actions

- 5.2.1 Consider a cost recovery model for offering a second annual hard waste collection for residents.
- 5.2.2 Explore circular economy initiatives for hard waste items collected.
- 5.2.3 Undertake a cost/benefit analysis for offering hard waste collections for rental tenants at no fee who can prove they are vacating the property.
- 5.2.4 Explore opportunities to trial local community hard waste days or other initiatives to enable the reuse, recycling, re-purposing of hard waste within the community.
- 5.2.5 Explore the opportunity to introduce the option for residents to dispose of hard waste directly to a waste transfer station facility using a voucher of equivalent value of kerbside collection.



Council Internal Waste Generation



Council owns and operates numerous sites and holds various community events. One of Council's largest sites is its Depot Operations which generates approximately 4,150 tonnes p.a.

Of the overall total waste generated by the site annually, approximately 94% is recovered, reused and recycled with only 6% going to landfill.

Under the Plan, Council will seek to reduce its landfill waste further over the coming years. Council will also consider, as part of its procurement processes, requiring recyclability and/or product stewardship of procured materials. This would directly contribute to and would be aligned to the goals of Council's *Climate and Energy Plan* regarding reducing carbon emissions.

Education and promotion of recycling at Council held community events will also be a key focus for Council to ensure a continued improvement in the diversion of waste to landfill.



6.1 Objectives

- 6.1.1 Reduce Council waste to landfill by 2% p.a. from 250 tonnes (2020).
- 6.1.2 Increase recycled content where possible to facilitate circular economy initiatives.
- 6.1.3 Continue to strive for sustainable waste management and resource recovery to achieve best practice and minimise associated costs.

6.2 Actions

- 6.2.1 Undertake a cost/benefit analysis for requiring recyclability and/or product stewardship for procured materials.
- 6.2.2 Continue to promote correct sorting and disposal of landfill waste, food waste and recyclables at Council owned and operated sites.
- 6.2.3 Continue to reduce and eventually eliminate non-reusable, recyclable or compostable materials at Council owned and operated sites.
- 6.2.4 Implement the State Government's requirements regarding the *Single-use and Other Plastic Products (Waste Avoidance) Act 2020* and provide education regarding recycling at Council community events.
- 6.2.5 Continue to send all organics waste to compost.
- 6.2.6 Continue to maximise recycling of all construction and demolition materials.
- 6.2.7 Undertake a cost/benefit analysis for providing organics waste bins and compostable dog bags in Council reserves and parks.
- 6.2.8 Develop and implement a robust Council reporting mechanism for key waste management and resource recovery data to enable continuous improvement and to present to Council as part of its Quarterly Reporting considerations.
- 6.2.9 Investigate opportunities to incorporate recycled content for reuse in Council procurement of materials and products.
- 6.2.10 Collaborate and explore partnerships with other councils to share information, develop innovative solutions and achieve economies of scale.



New Services Contract

Council's current waste management and resource recovery contract will expire in 2021 and a new contract will be required for 2022 and beyond.

In undertaking the required procurement process to enter into a new contract, Council will revise its existing scope of service to align its operational delivery with its strategic goals as outlined in the *Four-Year Delivery Plan 2021–2025* and the Plan.

The key objective of the new services contract will be improved optimal, low carbon and sustainable waste management and resource recovery practices within the City and ongoing diversion and reduction of waste to landfill.

A number of possible improvements in the scope of service provided via Council's services contract have been identified as part of the development of the Plan and it is an opportune time to address these through the procurement process for a new contract. Two (2) of these key elements will be the use of innovation and technology within the industry and improved tracking and reduction of CO₂ equivalent emissions of resource management services.

7.1 Objectives

- 7.1.1 Identify and implement opportunities for improvement in Council's delivery of waste management and resource recovery services.
- 7.1.2 Enter into a new optimised waste management and resource recovery contract for 2022 and beyond.

7.2 Actions

- 7.2.1 Review the current scope of services provided by Council through its waste management and resource recovery contract.
- 7.2.2 Undertake an open call procurement process to seek to enter into a new waste management and resource recovery contract for 2022 and beyond.





Innovation and Technology

Innovation and technology within the waste management and resource recovery industry is continually changing and evolving.

It is paramount for Council to explore and utilise the latest innovations and technology available to achieve its objectives, as contained in the *Four-Year Delivery Plan 2021–2025* and Plan.

As part of the development of the scope of services to be included in the procurement process for a new contract (refer to Section 7), and in the assessment of the tender submission to be received in this process, Council will finalise the actual scope of its innovation and technology.

Under the Plan, Council will consider the implementation of the following:

BIN IDENTIFICATION TAGS

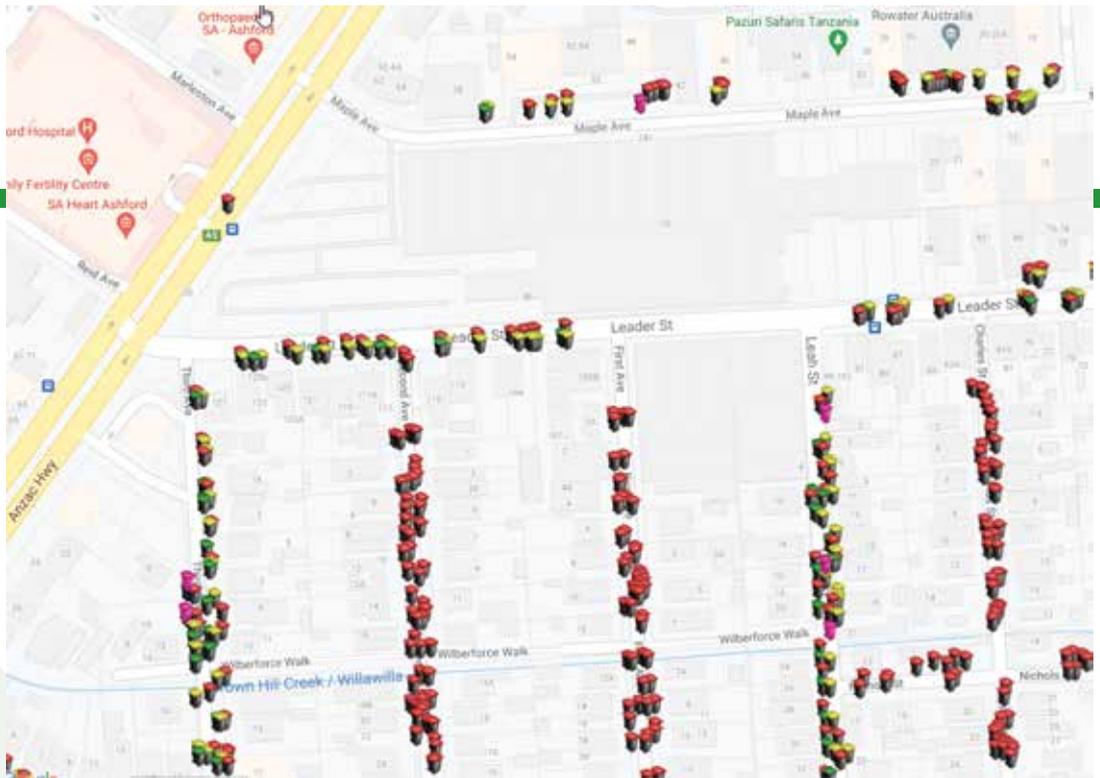
- ▶ Enables monitoring of individual bins to allow real-time location stamping of each collection, identification of stolen bins and real-time rejection reporting with photographic evidence.

ELECTRIC TRUCKS

- ▶ Electric (battery powered) trucks are gradually becoming more available in the market. These trucks have long-term environmental benefits but require consideration from an increased acquisition cost perspective.

SMART TRUCKS

- ▶ The market offers a combination of advanced tracking data systems known as “Fleetmax” and “Waste Track”. The technology enables detailed reporting on location of vehicles, position of bins, location and time of each collection, bin contamination and location of problem bins.



PUBLIC PLACE SMART BINS

- ▶ There are some advanced public place bins now available in the market. These bins offer a quick payback period of between two to five years and have many added benefits. These include solar power to avoid connection to mains power, level sensors to alert the need to be emptied, Teflon coating to reduce costs of cleaning graffiti, compaction of up to five times the capacity using solar power only and Wi-Fi connectivity.

8.1 Objectives

- 8.1.1 Implement appropriate innovation and technology initiatives to assist Council in meeting waste management and resource recovery strategies.

8.2 Actions

- 8.2.1 Undertake a cost/benefit analysis to confirm the scope of innovation and technology to be used by Council to achieve waste management objectives.
- 8.2.2 Document the scope of innovations and technology to be used in Council's new waste management and resource recovery contract.
- 8.2.3 Review and improve data collection to better measure, inform and guide City waste management activities and services and present to Council as part of its Quarterly Reporting considerations.



Education and Promotion

Many of the proposed improvements as contained in the Plan are almost completely dependent on behavioural change.

To achieve this, the first critical step for Council is continued education to broaden awareness and knowledge throughout the community. This will provide a better understanding of how the community can contribute to the successful attainment of Council's goals and strategies.

Council has achieved great outcomes in recent years through a partnership with the community and the Plan aims to build upon that relationship to further improve outcomes.

Council will expand participation in the 'Take the Pledge' program and continue its great success. Council will also continue the education and promotion of this program with the community to educate others of the importance of partnering with Council to achieve improved results and sustainable outcomes.

9.1 Objectives

- 9.1.1 Enhance community knowledge of the correct separation of waste and recycling.
- 9.1.2 Improve community understanding of the cost benefit for improved waste management and resource recovery outcomes.
- 9.1.3 Increase community awareness as to the environmental benefits of sustainable waste management practices.



9.2 Actions

- 9.2.1 Continue undertaking education campaigns with schools, businesses and residents.
- 9.2.2 Continue and expand the 'Take the Pledge' campaign to increase participation, including the participation of businesses.
- 9.2.3 Focus on education and promotion for new residents moving into our City.
- 9.2.4 Provide education and promotion regarding environmental implications of food waste in landfill (i.e. leakage of methane from landfill gas capture systems).
- 9.2.5 Continue the provision of kitchen caddies to residents to support the diversion of food waste from landfill initiative.
- 9.2.6 Provide education and awareness regarding the fate of recycling, to help improve community understanding of how much is being recycled, and where the recycled products are being used.
- 9.2.7 Use social media and other available methods to provide education and promotion of Council's waste management and resource recovery programs and achievements.
- 9.2.8 Encourage and improve waste separation practices at community events, including the recycling of glass bottles.

10

Implementation



The final straw

Single Use Plastic Phase-Out

From 1 March 2021, certain single-use plastic items (like drinking straws, cutlery and drink stirrers) will be restricted in South Australia.

For generations the South Australian community has led positive environmental behaviours, from drink container deposits to banning plastic bags, and recently, to ensuring food waste is put in green bins for kerbside collection and composting.

Now we are phasing out single-use plastics.

This State Government legislation will help avoid waste and shift to reusable or recyclable options. It's a positive step in reducing the harm caused to wildlife, including marine life, through litter and pollution.

For more information please go to replacethewaste.sa.gov.au



There are several current services delivered by Council which are proposed to be continued under the Plan and as such will be ongoing. Regarding proposed new actions, Council will prioritise the implementation of these over the five (5) years life of the Plan.

All actions will be implemented in financial years as short, medium and long-term priorities. This is subject to Council consideration and allocation of funding as required and as part of the *Annual Business Plan and Budget* process.

THE ACTIONS ARE PROPOSED TO BE IMPLEMENTED AS FOLLOWS:

- ▶ **Short-Term**
Year 1 (2021/22) and Year 2 (2022/23)
- ▶ **Medium-Term**
Year 3 (2023/24) and Year 4 (2024/25)
- ▶ **Long-Term**
Year 5 (2025/26) and beyond

RESIDENTIAL KERBSIDE COLLECTION

PRIORITY

| | | |
|---------------|---|---------|
| 3.2.1 | Continue the 'Take the Pledge' campaign and consider its expansion as follows: <ul style="list-style-type: none">a) Increase participation by 400 households p.a. from 1,787 households (2020).b) Consider program adjustments and improvements.c) Consider resident and business ambassador roles to accelerate recruitment of participants. | Short |
| 3.2.2 | Provide education and promotion regarding single-use plastics in line with the <i>Single-use and Other Plastic Products (Waste Avoidance) Act 2020</i> . | Short |
| 3.2.3 | Provide education and promotion regarding disposal of specialised waste streams such as soft plastics, e-waste and hazardous waste. | Ongoing |
| 3.2.4 | Continue to use State Government education materials such as 'Which Bin'. | Ongoing |
| 3.2.5 | Use social media to promote food waste disposal to organics bins. | Ongoing |
| 3.2.6 | Use outdoor banners and signage for promotion where appropriate. | Ongoing |
| 3.2.7 | Advocate to the State Government regarding legislative change to enable fortnightly general waste collection. | Long |
| 3.2.8 | Undertake a cost/benefit analysis for introducing a weekly organics collection. | Short |
| 3.2.9 | Consider the benefits of promoting separation of wine bottles from recycling bins for disposal to bottle depots, to reduce contamination from broken glass and to improve recycling of this particular type of glass. | Medium |
| 3.2.10 | Continue undertaking bi-annual residential kerbside bin audits. | Ongoing |

MULTI UNIT DEVELOPMENTS (MUDS)

PRIORITY

| | | |
|--------------|---|--------|
| 4.2.1 | Investigate introduction of guidelines or policy for design of waste storage and presentation for new MUDs to inform developers of Council requirements. | Medium |
| 4.2.2 | Undertake a cost/benefit analysis of introducing 240 litre general waste and 360 litre recycling bins for small to medium MUDs. | Short |
| 4.2.3 | Undertake a cost/benefit analysis for the introduction of a rear-lift collection service for medium to large MUDs. This is to include a weekly organics collection service. | Short |
| 4.2.4 | Investigate historical MUD sites City-wide to ensure they have the capability and provision for organics bins to encourage waste diversion. | Medium |

HARD WASTE

PRIORITY

| | | |
|--------------|--|--------|
| 5.2.1 | Consider a cost recovery model for offering a second annual hard waste collection for residents. | Medium |
| 5.2.2 | Explore circular economy initiatives for hard waste items collected. | Long |
| 5.2.3 | Undertake a cost/benefit analysis for offering hard waste collections for rental tenants at no fee who can prove they are vacating the property. | Short |
| 5.2.4 | Explore opportunities to trial local community hard waste days or other initiatives to enable the reuse, recycling, re-purposing of hard waste within the community. | Medium |
| 5.2.5 | Explore the opportunity to introduce the option for residents to dispose of hard waste directly to a waste transfer facility using a voucher of equivalent value of kerbside collection. | Medium |

COUNCIL INTERNAL WASTE GENERATION

PRIORITY

| | | |
|---------------|--|---------|
| 6.2.1 | Undertake a cost/benefit analysis for requiring recyclability and/or product stewardship for procured materials. To be considered as a joint delivery with <i>Climate and Energy Plan</i>. | Short |
| 6.2.2 | Continue to promote correct sorting and disposal of landfill waste, food waste and recyclables at Council owned and operated sites. | Ongoing |
| 6.2.3 | Continue to reduce and eventually eliminate non-reusable, recyclable or compostable materials at Council owned and operated sites. | Ongoing |
| 6.2.4 | Implement the State Government's requirements regarding the <i>Single-use and Other Plastic Products (Waste Avoidance) Act 2020</i> and provide education regarding recycling at Council community events. | Short |
| 6.2.5 | Continue to send all organics waste to compost. | Ongoing |
| 6.2.6 | Continue to maximise recycling of all construction and demolition materials. | Ongoing |
| 6.2.7 | Undertake a cost/benefit analysis for providing organics waste bins and compostable dog bags in Council reserves and parks. | Short |
| 6.2.8 | Develop and implement a robust Council reporting mechanism for key waste management and resource recovery data to enable continuous improvement and to present to Council as part of its Quarterly Reporting considerations. | Short |
| 6.2.9 | Investigate opportunities to incorporate recycled content for reuse in Council procurement of materials and products. | Short |
| 6.2.10 | Collaborate and explore partnerships with other councils to share information, develop innovative solutions and achieve economies of scale. | Short |



NEW SERVICES CONTRACT

PRIORITY

- | | | |
|--------------|---|-------|
| 7.2.1 | Review the current scope of services provided by Council through its waste management and resource recovery contract. | Short |
| 7.2.2 | Undertake an open call procurement process to seek to enter into a new waste management and resource recovery contract for 2022 and beyond. | Short |

INNOVATION AND TECHNOLOGY

PRIORITY

- | | | |
|--------------|--|-------|
| 8.2.1 | Undertake a cost/benefit analysis to confirm the scope of innovation and technology to be used by Council to achieve waste management objectives. | Short |
| 8.2.2 | Document the scope of innovations and technology to be used in Council's new waste management and resource recovery contract. | Short |
| 8.2.3 | Review and improve data collection to better measure, inform and guide City waste management activities and services and present to Council as part of its Quarterly Reporting considerations. | Short |

EDUCATION AND PROMOTION

PRIORITY

| | | |
|--------------|---|---------|
| 9.2.1 | Continue undertaking education campaigns with schools, businesses and residents. | Ongoing |
| 9.2.2 | Continue and expand the 'Take the Pledge' campaign to increase participation, including the participation of businesses. | Ongoing |
| 9.2.3 | Focus on education and promotion for new residents moving into our City. | Short |
| 9.2.4 | Provide education and promotion regarding environmental implications of food waste in landfill (i.e. leakage of methane from landfill gas capture systems). | Ongoing |
| 9.2.5 | Continue the provision of kitchen caddies to residents to support the diversion of food waste from landfill initiative. | Ongoing |
| 9.2.6 | Provide education and awareness regarding the fate of recycling, to help improve community understanding of how much is being recycled, and where the recycled products are being used. | Ongoing |
| 9.2.7 | Use social media and other available methods to provide education and promotion of Council's waste management and resource recovery programs and achievements. | Ongoing |
| 9.2.8 | Encourage and improve waste separation practices at community events, including the recycling of glass bottles. | Short |





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