



BURNIE
CITY COUNCIL

BURNIE WASTE MANAGEMENT STRATEGY 2018-2023



JANUARY 2019



COUNCIL STRATEGY

Burnie Waste Management Strategy 2018-2023

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1 EXECUTIVE SUMMARY

The Burnie City Council (BCC) is committed to supporting the achievement of the Cradle Coast Waste Management Group (CCWVG) Strategic Plan target of diverting 50% of all Municipal Solid Waste (MSW) managed by Councils from landfill by 2022.

MSW includes general waste, recoverable and recyclable materials, green waste and timber, concrete rubble and soils.

Over the life of the previous Burnie Waste Management Strategy 2013 - 2017, the landfill diversion rate for Burnie City Council managed waste has risen steadily from 32% in 2011/12 to 38% in 2017/18, however diversion rates are now beginning to plateau.

The CCWVG Strategic Plan 2017-2022 addresses many of the common waste management challenges experienced by member Councils' and as such provides a common framework to work collectively to address the challenges.

It is not the intent of BCC's Waste Management Strategy 2018-2023 to duplicate the information noted in the CCWVG Strategic Plan, rather to highlight local challenges, and actions to address which will complement the regional strategy.

This strategy will guide BCC in achieving the regional and local targets through building upon the current waste diversion activities and implementing a range of new actions.

BCC's waste management facilities have matured in their operation and the task at hand now is to identify and implement cost effective opportunities for greater resource recovery and diversion from landfill, however this strategy is not purely focussed on the diversion of waste from landfill, it has four broad objectives as follows:

The four objectives of this strategy are:

1. **Waste Diversion and Service Delivery** – 50% diversion of all MSW.
2. **Regional Cooperation and Partnerships** – optimise resource recovery opportunities and maximise their value.
3. **Community Engagement** – education on waste minimisation, recycling, reuse and diversion opportunities.
4. **Environmental Responsibility** – overall reduction in carbon/greenhouse gas emissions, managing environmental risks.

A range of **Local Goals** have been identified in this strategy that will be achieved through implementing Local Actions to complement the objectives of the CCWMG Strategic Plan.

LOCAL GOALS

1. Landfill Reduction
2. Resource Recovery
3. Service Efficiency
4. Community Engagement
5. Environment

In the implementation of the Local Actions, BCC needs to be mindful of:

- **Waste diversion** potential of the actions.
- **Community expectations**, attitudes and perceptions toward waste management.
- **Affordability** of proposed actions.
- **Environmental benefit** of such actions (including reduction in carbon/greenhouse gas emissions).
- **Integration** with the CCWMG Strategic Plan Action Plan.

2 INTRODUCTION

The BCC Waste Management Strategy 2013-2017 provided a framework for progressing and consolidating significant changes to the management of the Burnie Waste Management Centre (BWMC), attained the maturing of the Cradle Coast Waste Management Group (CCWVG) and a range of opportunities were explored and initiated to address improved waste management practices and supported change in community attitudes towards waste management.

Appendix A details a review of the 2013-2017 strategy actions. Actions are either noted as completed or identified as continuing in their initial form or modified to reflect current circumstances.

Waste to landfill continued to decrease associated with recycling, resource recovery and other diversion activities, however is beginning to plateau.

Significant further reduction in waste to landfill will require investment in a Food Organics and Gardens Organics (FOGO) program, increased recovery of materials associated with gaining access to markets for materials not currently reprocessed and community attitude and behaviour changes related to the purchase of goods.

This new strategy builds on the 2013-2017 strategy retaining key objectives, and setting new goals, which are consistent with and complementary to the CCWMG Strategic Plan 2017-2022.

STRATEGY 2013-2017 - KEY OUTCOMES

- **Increased the range of materials recycled/recovered:** Examples include expanded outer area CBD cardboard collection, soft plastics collection at BWMC, mattress processing at the waste transfer shed.
- **e-Waste management:** Sustainable diversion scheme in place.
- **Cradle Coast Waste Management Group:** The CCWMG has been more strategic in its activities over the last five years. Council has actively participated in a range of initiatives to support consistent and appropriate waste management practices across the regions, including waste and recycling audits. A focus on the CCWMG is to progress to a new governance framework.
- **Tip Shop:** Partner with Mission Australia to increase the footprint of the Tip Shop, with consequential significant increase in sales.
- **Food Organics and Gardens Organics (FOGO) Kerbside Collection Service:** Detailed exploration of service implementation carried out internally in concert with regional processing facility feasibility assessment. Opportunities to change kerbside refuse collection frequency considered as part of the reporting process. Determined the FOGO service would be too high a cost burden on the community at present, but an active project for Council to consider as the opportunity arises.
- **Hard Waste Collection:** Implemented an urban kerbside hard waste collection service to assist the community to dispose of bulky waste or assist those without access to appropriate transport to take waste to the BWMC.
- **Waste Wise Events:** A recent focus of Council is to reduce the quantum of waste generated at events, through applying waste wise event strategies. While in its infancy, this approach has been trialled with success.
- **Illegal Dumping:** Programmed aimed at increasing community awareness, targeting dumping hotspots and education through signage have been implemented. An ongoing issue for the community.
- **Leachate Management:** A leachate treatment system has been developed on the BWMC site, diverting leachate from the sewerage, treating and releasing the treated water via a wetlands. Benefits have included reduced operating costs, returning capacity to the sewerage, improving the environment on site and returning flows to the downstream waterways.
- **Education/Engagement:** Continued to be involved in regional education/information programs, engagement with business and industry and school tours of the BWMC.

The quantum of waste to landfill in the 2011/12 years was 16,020 tonnes. This was the baseline figure for development of the previous 2013-2017 strategy. In the 2017-2018 years waste to landfill decreased to 12,635 tonnes.

Through these outcomes and other supporting actions, BCC was able to achieve a landfill diversion rate of 38% in the 2017/2018 compared to 32% in 2011/12.

The previous strategy identified an aim of diverting 50% of MSW from landfill. The key action to work towards this outcome is to implement a kerbside FOGO service, and while this service was explored in the recent past, no service was implemented due to cost constraints.

The key commitment in this strategy however, continues to aim for a 50% reduction in waste to landfill as a percentage of the total municipal waste stream.

Council continues to work with the community, waste industry, regulators, the Cradle Coast Waste Management Group (CCWVG), State Government and other stakeholders to further improve its waste management practices.

With the adoption of the CCWVG Strategic Plan 2017-2022, it is time to review and align the BCC strategy to plan the future waste management direction for the Burnie community.



3 COUNCIL WASTE MANAGEMENT SERVICES

BCC provides a range of waste management services to the Burnie community.

SERVICE	DESCRIPTION
Waste Kerbside Collection	Weekly Collection. Compulsory for Urban domestic and commercial collections. Voluntary in some Rural areas.
Recycling Kerbside Collection	Fortnightly Comingled Recycling Collection. Compulsory for Urban Residential and selected Rural areas, voluntary for commercial customers in outer business districts.
Cardboard Kerbside Collection	CBD (weekly) and Outer Commercial areas (fortnightly).
Kerbside Hard Waste Collection	Annual kerbside hard waste collection provided to urban areas.
Waste/Green Waste Vouchers	Ratepayers are entitled to four waste and four green waste vouchers per year to assist with their waste disposal needs.
Commercial, Litter Bins and Public Place Recycling	Weekly Collection. Public and commercial areas, parks and reserves, including butt out bins and provision of dog waste bags.
Roadside Litter/Illegal Dumping	Collection of litter and illegally dumped material.
Street Cleansing	Litter removal and street sweeping
Resource Recovery Loop	Including a Tip Shop and recycling collection skips for collection of cardboard, comingled recyclables, DrumMuster Depot, used oil, car batteries, paint and cooking oil.
Waste Transfer and Resource Recovery Facility	Incorporating a range of resource recovery activities include steel, timber, green waste, e-Waste, soils, concrete and masonry products.

Burnie Waste Management Centre

In November 2012, BCC ceased landfilling at the BWMC. Waste is now deposited in a resource recovery facility where reusable and recyclable products are pulled out before the residual waste is transported to the Dulverton regional landfill. The management system in place has significantly increased recovery rates.

Cost Recovery Pricing of Waste Services

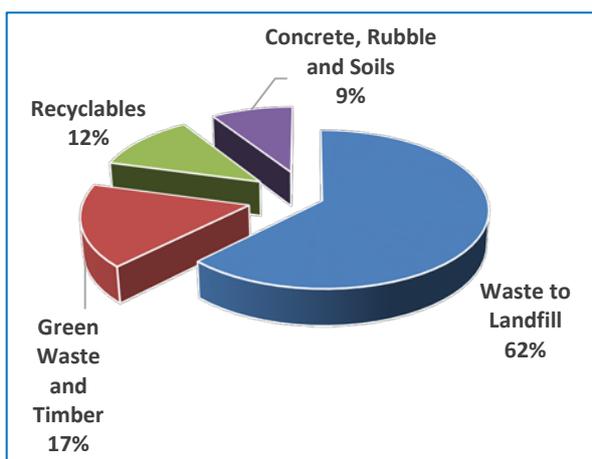
A user pays cost recovery pricing philosophy for waste management is adopted by BCC to reflect the true cost of waste management to users of the various services provided by BCC. The cost recovery approach for waste services incentivises, resource recovery and waste separation.

Municipal Solid Waste Composition

The municipal waste stream composition for the 2017-2018 financial year is shown in the Table and Figure 1 below, compared to the 2011/12 financial year, prior to ceasing landfilling at the BWMC and implementing the current waste transfer to landfill arrangement :

Description	Tonnes 2017/18	Tonnes 2011/12
Waste to Landfill	12,635	16,020
Green Waste and Timber	3,426	3,629
Recyclables	2,360	2,222
Concrete, Rubble & Soils	1,847	1,791
Total Municipal Waste	20,268	23,662
% Diverted from Landfill	38%	32%

Figure 1 – MSW Components for 2017-2018

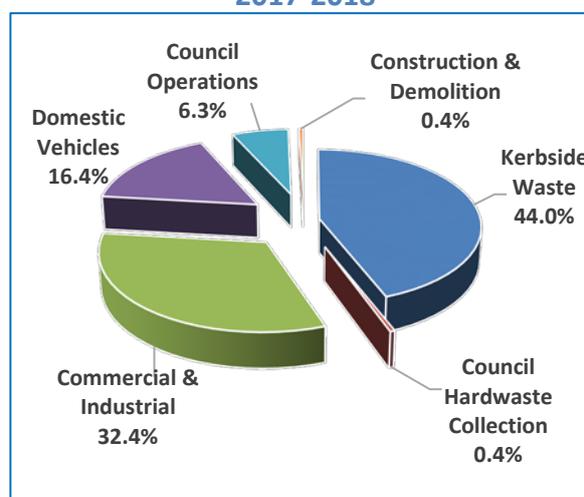


Waste to Landfill Contributors

The sources of waste contributing to landfill for the 2017/18 financial year are shown in the Table and Figure 2 below, compared to the 2011/12 financial year :

Description	Tonnes 2017/18	Tonnes 2011/12
Kerbside Waste	5,564	6,039
Commercial & Industrial	4,088	5,762
Domestic Vehicles	2,077	1,900
Council Operations	797	2,001
Council Hard waste Collection	53	No service
Construction & Demolition	56	318
Total Waste to Landfill	12,635	16,020

Figure 2 – Contributors of Waste to Landfill 2017-2018



Waste to Landfill Composition

An audit of the BCC waste to landfill was last conducted in 2011. In 2018 an audit was undertaken by CCWMG of waste deposited to the Port Latta, Ulverstone and Dulverton landfills. Figure 3 shows the composition of landfill waste from the 2018 audit. Waste transferred from the BWMC to Dulverton is expected to reflect a similar composition to that of the 2018 audit results.

Figure 3 – Composition of Waste to Landfill, 2018

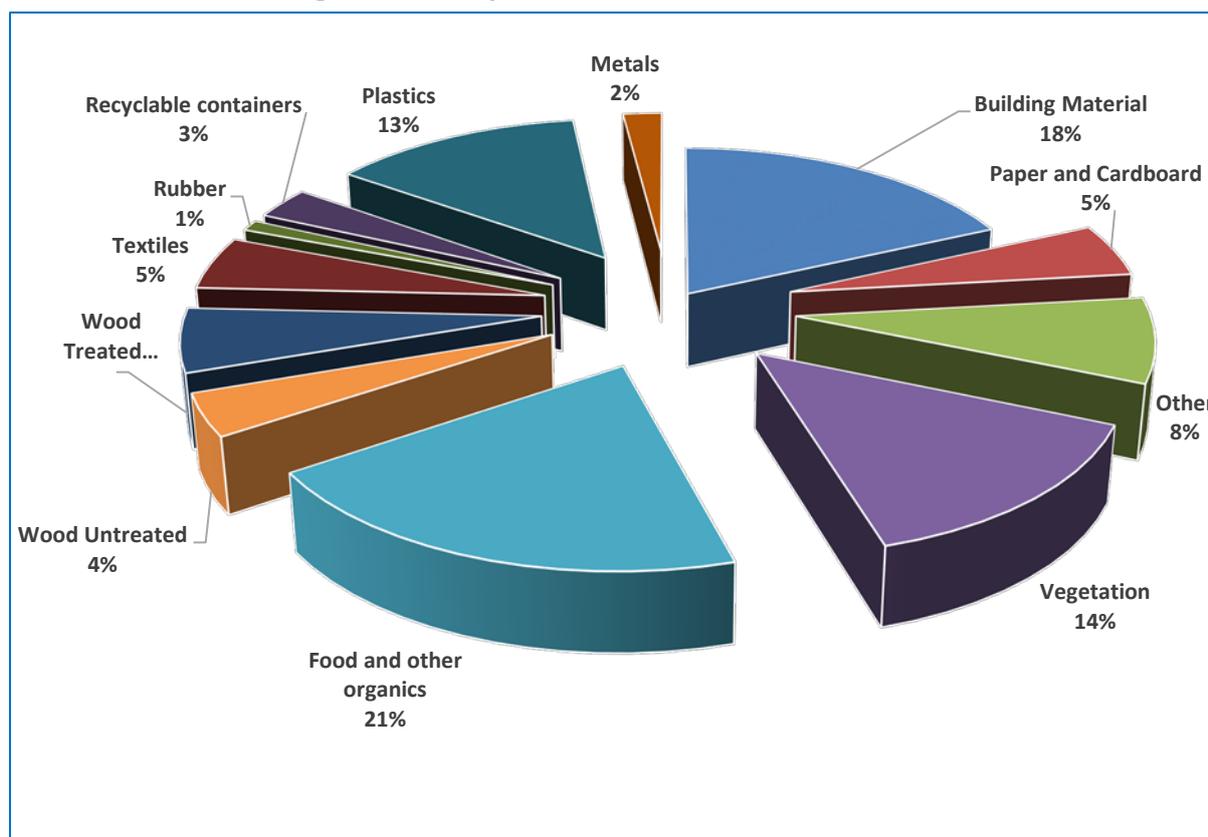


Figure 3 indicates a significant opportunity to increase the diversion rate from landfill if a FOGO collection was introduced. To determine the best value approach when considering waste management activities, the major sources and wastes types should be considered as target areas for reduction of waste to landfill as shown in the caption below.

This strategy includes actions that focus on achieving a **50% diversion from landfill**. The principal waste products targeted include:

- Food Organics and Garden Organics
- Vegetation – green waste
- Paper and Cardboard
- Untreated Wood

4 STRATEGIC CONTEXT

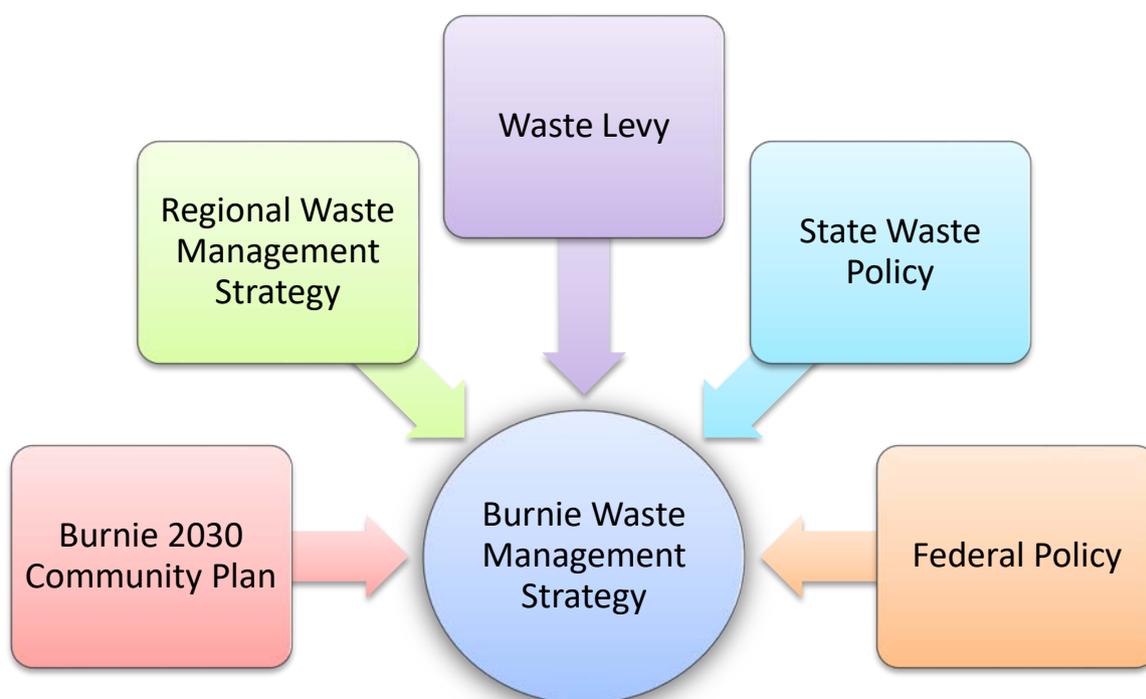
Since the adoption of BCC’s Burnie Waste Management Strategy 2013-2017, there has been a significant shift in the Local Government waste management space.

The CCWMG has matured and is delivering a range of programs in a regional context as well as being the primary advocate in respect to waste management in the region. The CCWMG is funded via a voluntary \$5/tonne levy of waste to landfill by the respective Council members of the group.

This has enabled BCC to focus its efforts on local initiatives and through its representation on the CCWMG, Council can influence regional discussion on waste management matters.

There continues to be a lack of leadership shown by the State Government in terms of developing and implementing a coherent “State Waste” policy for the waste sector as a whole.

To inform this strategy, a summary of the key influences on BCC’s future waste management and waste diversion practices are provided below:



Burnie 2030 Community Plan

The Community Plan describes BCC's future vision for the Burnie community and how it proposes to assist the community in achieving this vision.

More specifically, in relation to waste management, the following directions are noted:

Future Direction	Objective	Strategy
A Natural And Built Environment That Is Respected And Cared For	A region that is energy, water and waste efficient.	Support the State and regional strategies in waste reduction.
A Regional Hub	The City provides leadership and works collaboratively on regional strategic issues.	Encourage initiatives to promote regional cooperation for both regional benefits and maximising efficiencies.
An Engaging And Accountable Leadership Focused On A Strong Future	A sustainable long term future is planned through the management of BCC's infrastructure and assets.	Strategies and plans are well developed and guide the future allocation of resources.

BCC has embraced a regional approach to waste management and is committed to adopting a long term waste management plan to ensure affordable and environmentally sustainable waste management practices and services are in place.

Cost Recovery and Capacity to Pay

The appropriate management of waste is a costly exercise for the community, whether landfilling, recovering resources or recycling.

BCC has adopted a position of operating its waste management activities, as a whole, on the basis of a cost recovery.

BCC's Financial Management Strategy also drives a reduction in fees and charges of 1% per annum (below the base set the previous year).

This sets a challenging position for BCC to maintain cost effective services to the community. As such the introduction of new services and programs must always be considered in the context of the capacity of the community to fund as well as the environmental and social benefits.

Cradle Coast Waste Management Group Strategic Plan

The CCWMG Strategic Plan was reviewed in 2017 and a new strategy for 2017–2022 endorsed by the member Councils.

That strategy contains a discussion of the strategic context for regional and local waste management, which is reflective of the challenges before this Council.

Rather than reproduce this information, the reader is encouraged to view the CCWMG Strategic Plan at <http://rethinkwaste.com.au/download/ccwmg-strategic-plan-201722>

There are four focus areas representing the strategic aims of the CCWMG:

REGIONAL STRATEGY FOCUS AREAS

1. Waste Diversion
2. Regional Cooperation
3. Partnerships
4. Community Engagement

Objectives for the future are:

1. By 2022, divert 50% of all MSW from Local Government landfill facilities across the region.
2. By 2022, increase the proportion of recycling bins receiving a pass mark as part of recycling bin assessments to 90% across the region (based upon 2015-2016 assessment pass rate of 81%).
3. By 2022, reduce incidents of illegal dumping at hotspot sites by 25% across the region (upon first establishing baseline data from Council reports).
4. By 2022, all member Councils to be collecting and reporting a standardised set (for material types, units, etc) of data in relation to waste.

5 CURRENT LOCAL OPPORTUNITIES

To inform BCC's Burnie Waste Management Strategy, a range of local waste management issues and opportunities have been identified by the following mechanisms:

- Elected member input through formal BCC meetings and workshops.
- BCC Officer reviews of existing waste management services.
- BCC Officer participation in the CCWMG.
- Stakeholder input: waste, recycling and resource recovery companies, EPA.
- Community, Officer and staff feedback.

Complementing the focus areas of the regional strategy there are four key programs identified within this Burnie Waste Management Strategy.

BURNIE WASTE MANAGEMENT STRATEGY OBJECTIVES

- 5.1. Waste Diversion and Service Delivery**
- 5.2. Regional Cooperation and Partnerships**
- 5.3. Community Engagement**
- 5.4. Environmental Responsibility**

The following Local Goals will direct our efforts toward supporting strategy objectives:

LOCAL GOALS

1. Landfill Reduction
2. Resource Recovery
3. Service Efficiency
4. Community Engagement
5. Environment

With the objectives and Local Goals in mind, a number of Local Actions have been identified and prioritised in a Local Action Plan (Appendix B). The following section notes the framework used in developing this Action Plan.

5.1 WASTE DIVERSION AND SERVICE DELIVERY

Reducing the quantum of material disposed to landfill has been a key focus for BCC since the adoption of its initial Waste Management Strategy in 2006.

Equally important is providing a range of waste diversion reuse/recycling and disposal services to the community, which meet expectations and are affordable. These are detailed in the following sections:

5.1.1. Burnie Waste Management Centre

5.1.2. Organics Management

5.1.3. Recyclables Collection

5.1.4. Waste Collection

5.1.1 Burnie Waste Management Centre

The BWMC incorporates a recycling deposit loop, Tip Shop, reuse stockpiles and a Waste Transfer and Resource Recovery Facility (WTRRF). The Centre has been designed to encourage separation activities to occur before depositing of residual waste for final sorting.

Waste Transfer and Resource Recovery Facility

The WTRRF located within the BWMC, is key to BCC achieving the regional and local strategy goals.

Waste diversion targets for specific materials have been set for the facility operation, including contractual incentives to achieve the waste diversion targets.

Achieving the waste diversion targets benefit the community financially and environmentally, through less waste being transferred to landfill and reducing the loss of productive materials to landfill.

Principal materials currently recovered from the transfer facility include metals, cardboard and timber.

As opportunities arise for other materials to be recovered and processed, new targets may be applied to encourage initiatives, consistent with regional activities.



Ratepayers are provided with four (4) waste and four (4) green waste vouchers to assist in their waste disposal needs.

Work with the CCWMG to introduce additional resource recovery activities as the opportunity arises.

Waste transfer contract expires in 2022, explore future management models.

Recycling Deposit Loop and Tip Shop

Within the Recycling Loop, the community are encouraged to deposit recyclable items free of charge before proceeding through the Toll Booth.

Deposit facilities exist for items such as cardboard, comingled recyclables (plastics, cans, glass, and cartons), clothing, waste oils (motor and cooking), DrumMuster, HDPE plastic oil containers and car batteries.



A number of arrangements are in place with local recyclers to collect and process these items.

Some materials are collected at no cost to BCC, for others a fee is charged for removal and processing.

The expansion of the Tip Shop overtime has enabled large furniture and building items to be directed from landfill and securely stored for reuse. Marketing the Tip Shop would enhance use of the facility.

Community requests for additional recycling opportunities have included plastic bags, fluro-tubes, polystyrene packaging and household batteries.

Opportunities for handling new recoverable materials, difficult to manage waste streams, and hazardous materials (e.g. solvents, chemicals, and paints) will be investigated to identify possible opportunities to safely, efficiently and cost effectively manage these community service needs.

BCC has participated in National Product Stewardship Schemes through acting as a collection point. To date, these have included programs such as DrumMuster, ChemSafe/Chemclear, and e-Waste events. As Product Stewardship initiatives develop and more products are regulated, BCC may need to register as a collection agent.

Synergies in the operation of the waste transfer station, Recycling Loop, and Tip Shop should be explored to increase diversion and service efficiency consistent with the regional resource recovery objectives.

Possible opportunities to investigate include:

- Cooperative arrangements for on selling recovered/recycled products.
- Sharing of site resources amongst operators on site.
- Identification of new recoverable products being presented at the site.

Explore opportunities to deliver product Stewardship programs on site with CCWMG.

Partner with Mission Australia to develop and implement a marketing strategy for the Tip Shop.

Explore opportunities with current site partners to maximise the efficiency and cost effective of waste centre activities and programs.

5.1.2 Organics Management

Green Waste and Timber

Approximately 3,400 tonnes of separated green waste and timber is accepted at the BWMC annually. This material is diverted from landfill and currently used on site and in Council projects. Other opportunities are being explored.

Green waste vouchers offering residents a number of visits to the BWMC for free green waste disposal have been well received by the community.



There also appears to be a strong desire to have access to a kerbside green waste and organics (food waste) collection service to dispose of compostable materials in an environmentally responsible manner. Reviews of opportunities to meet these desires have been explored and are discussed elsewhere in this strategy.

Collectively, green waste, timber, food waste, and other compostable materials make up some 44 % of the waste stream to landfill as identified in the 2018 audit. The major source of these organics is from the kerbside waste collection stream.

Identify and implement a range of options for the beneficial and cost effective reuse of green waste material deposited at the Mooreville Road Waste Management Centre.

Kerbside Organics Collection Opportunity

The CCWMMG undertook a kerbside FOGO collection trial program in the Latrobe area several years ago in 2011/12 to gain an understanding of:

- Potential green waste stream composition and volume.
- Community interest in the service.
- Economics of providing the service.
- Opportunities and cost implications of processing.
- Beneficial uses of the processed product.



Over the preceding years, CCWMMG Councils' have explored the opportunity and cost of introducing a FOGO service, with processing to be integrated into an upgraded Dulverton compost operation, however during 2017/18 it was determined not to proceed to introduce the service at that stage based on the additional cost burden to ratepayers.

This does not mean there is not a strong ongoing focus on the future introduction of a FOGO service, as this would be the primary driver to enable the 50% waste diversion target to be achieved.

Introducing an additional service may impact on, and require review of, the mode of delivery of kerbside waste and recycling services to ensure that there is a holistic and cost effective approach to the provision of kerbside services. The review could consider service frequency, the size of waste collection containers and the like.

Monitor regional interest in a future review of FOGO (watching brief).

Review bin size, collection frequency and ownership in conjunction with possible introduction of new kerbside collection services.

5.1.3 Kerbside Recyclables Collections

Comingled Collections

Following the introduction of the 240 litre fortnightly comingled recycling system in September 2009, recycling volumes tripled when compared to previous years. However, since that initial rise, collection volumes have reached a plateau.

Education is the key to increasing recycling participation rates, and further work is required to both reduce contamination and achieve an increase in quantity collected.

Interest in a CBD recycling service has been expressed by some businesses, however delivery of a service comparable to the residential kerbside recycling service is not feasible. Many businesses may also not have a need for such a service or may require a more frequent service due to the quantum of recyclables they generate. BCC can facilitate CBD recycling relationships on request by connecting customers to known service providers. BCC to monitor the private service delivery arrangements for any service gaps.

There has also been interest in the introduction of a kerbside recycling service in conjunction with the rural waste collection service. As such requests are made to BCC, the economics and feasibility of expanding services will be assessed.

A Container Deposit Scheme (CDS) for Tasmania may be introduced in the near future. Such a scheme may have some impacts on recycling outcomes:

- Diminishing the quantum of beverage containers in the kerbside waste and recycling stream.
- Increasing the value of the beverage container recyclable stream.

A benefit of a CDS, promoted widely, is the potential to reduce roadside litter, either at source or through persons collecting beverage containers to redeem the container deposit.

A regional response would be required should a scheme be introduced, due to the current kerbside collection arrangements being organised on a regional basis.

Develop a communication plan to inform the business community as to opportunities to manage their recycling.

Cardboard Collections

A kerbside cardboard collection service has been provided in the Burnie CBD for a number of years and this service has been expanded to include outer area commercial premises.

The service was introduced to reduce the quantity of cardboard disposed to landfill and diverting the recovered material for recycling. The service has been successful in increasing

the quantity of cardboard recovered from the waste stream, with some 100 tonnes of cardboard collected on average per annum.

To further increase recovery and service efficiency, opportunities to integrate cardboard recovery services across the various collection and disposal points are to be investigated.

5.1.4 Kerbside Waste Collections

8,552 properties are serviced by BCC's kerbside waste services, including the voluntary rural roadside collections. The service area reaches 87% of properties within the Burnie municipality.

Both domestic and some commercial properties within the urban area are charged for a single weekly collection of a resident owned Mobile Garbage Bin (MGB/wheelie bin) up to 240 litre capacity per tenement.

Domestic and commercial properties are able to apply for additional waste services for an additional fee. Some rural areas are serviced on a voluntary basis. The areas of Stowport and Natone have traditionally been serviced by private contractors.

To support greater recoverables diversion from landfill, opportunities to reduce waste disposal to MGB's and increase operational efficiency by reducing the size of bins or adjusting the frequency of collection will be investigated as part of a future organics collection.

The economics and feasibility of extending services to the rural/residential areas will be reviewed and assessed as part of any proposed expansion of services.

Develop a policy to support the assessment of service extension requests, including waste and recycling services.

Ownership of Receptacles

Currently users of the kerbside waste collection service are required to purchase and maintain their own waste containers. This policy has, in the past, been of concern for some members of the community, mainly related to the impost of the purchase cost of the container. Many Councils do provide and maintain the waste containers used by residents.

In delivering the comingled recycling collection service, collection containers are provided to residents and the cost of the receptacles are recovered through the annual service charge.

Were a kerbside organics collection service to be introduced, it would be an opportune time to assess the cost/benefit of smaller bins sizes, service frequency, provision and ownership.

Hard Waste Collection

BCC first introduced a kerbside hard waste collection to the urban areas of the municipality in November 2016. The service enables residents to dispose of bulky items and has been well received by the urban community. The rural community however, have not been offered the service to date, mainly due to safety risks associated with staff undertaking collections on higher speed rural roadsides and the additional cost to extend to rural areas.

BCC has identified an opportunity to support the needs of rural residents through the placement of skip bins at strategic rural locations, as an opportunity to easily dispose of bulky waste. This would be an annual program, provided at the same time as the urban hard waste collection.

There would be an additional cost implication for BCC to deliver this enhanced service.

Trial the provision of skip bins in the rural area as part of the annual hard waste collection service.

5.2 REGIONAL COOPERATION AND PARTNERSHIPS

The importance of working collectively to achieve improvements in waste management across the region has been borne out in a number of successful regional tender processes for service provision and the focussing of resources to manage region wide issues.

Regional cooperation enables consistent information and advice to be provided to the community and provides opportunities to maximise the impact of funding directed to improved waste management practices and waste diversion activities.

A regional focus provides greater opportunity to work with industry and to seek support from State and Federal Governments.

5.2.1 Cradle Coast Waste Management Group

Active involvement by BCC Officers in the implementation of the regional strategy, will maximise the benefit of BCC's strategy actions.

A move to a more structured regional waste governance model is planned, with the end game being to provide all waste management services on a regional basis, to achieve greater consistency in service delivery and economies of scale.

Provide support to the implementation of the Cradle Coast Waste Management Group Strategic Plan actions.

5.2.2 Industry and Commerce

The municipal waste stream is just one component of the overall waste stream and there are a variety of business and industry bodies, research institutes and private companies that have responsibility for, or an interest in, waste management and waste diversion.

Ongoing engagement with the broader waste industry is important for BCC as a means of maximising investment in waste management and identifying synergies in the delivery of a range of waste services.

Waste disposal is a significant cost for Small to Medium Enterprises (SME) and in many instances business owners are not aware of local opportunities to reduce waste to landfill and consequently waste disposal costs. Examples of services to assist SME's include kerbside cardboard collections and free disposal of cardboard at the resource recovery loop.

Connecting waste generators and makers, with the aim to find beneficial uses for waste products.

5.2.3 Alternate Waste Management Technologies

As the waste industry has directed more focus on reduction in carbon emission liabilities, there has been significant interest in developing new technologies that would assist it to reduce its carbon footprint and produce value added products.

More locally, BCC has been made aware of Slow Pyrolysis and BioChar technologies and it would appear that there could be opportunities for the timber industry to partner with the waste industry as a means to reduce waste to landfill.

BCC is unlikely to be in a position to develop a pilot plant, but may be able to support such a development with provision of a site and feedstock.

Other examples include biomass (anaerobic digestion) and incineration supporting waste to energy plants.

More broadly, BCC should be open to exploring mutually beneficial partnership opportunities with a range of waste industry stakeholders via the regional strategy actions.

Explore alternate technologies, waste to energy, BioChar, etc as the opportunity arises.

5.3 COMMUNITY ENGAGEMENT

Achieving the waste minimisation and reuse/recycling targets of this strategy and the regional strategy will require engagement with the community and other stakeholders to:

- Educate.
- Inform.
- Seek and consider feedback.

These activities are a means of monitoring the impacts of waste programs and services and to support improved waste minimisation and recycling/reuse behaviours.

5.3.1 Service Surveys

Support CCWMMG in the conduct of service expectations and satisfaction level surveys and audits of services.

Survey themes may include:

- What services are valued and why?
- Are there services or needs gaps?
- Attitudes to capacity to pay and user pays principles.
- Attitudes and participation in recycling and reuse services.

Information gathered will support service reviews and assessment of new programs and services.

5.3.2 Education

BCC has an active program of engaging with the primary education sector and the broader community to promote its waste management initiatives and encourage diversion actions as follows:

- Visits to the BWMC by schools assists in explaining waste services available in Burnie and the operation of the leachate management system.
- Assisting with the development of classroom resources for schools. From time to time educators make contact with BCC to request material that can be used within the classroom to promote waste reduction and management.
- Adoption of the Rethink Waste website as a regional resource for all sectors of the community. CCWMMG have schools programs and resources accessible via Rethink Waste.
- Encouraging waste diversion activities for community events – material has been collated and made available for event coordinators.



- Promotion of resource recovery Initiatives on BCC website encourages the general public to become familiar with current best practices.
- The waste voucher system provides residents with four (4) green waste and four (4) general waste vouchers to enable free access to the BWMC for disposal. While seen as a benefit to residents it aids in developing positive waste separation behaviour which then flows through to future visits to the waste management centre and resource recovery loop.

The Waste Transfer Station operator has an education component incorporated in their service contact with Council. A grants program is currently offered to Schools and community groups for waste management initiatives that are focussed on reducing waste to landfill.

The CCWVG Strategic Plan identifies a range of regional education and information actions that will be implemented over time to provide regional and state-wide consistent information.

Using regional resources (e.g. Rethink Waste website) as they become available will assist in growing positive waste management attitudes in the community and ensure consistent messages are provided.

Continue to support school tours of BCC facilities and provide access to relevant BCC staff.

Support the ongoing development and implementation of the community education program by the waste transfer station contractor.

Develop a communications plan for the BCC waste management strategy. Strategy to leverage off the regional communications strategy.

Review the BCC webpages related to waste management, include FAQ section, greater detail on services provided and links to relevant external pages.

BCC Culture

Educating staff and fostering a waste minimisation culture has occurred within BCC operations by allocating actual waste disposal costs to individual departments and all BCC projects.

Waste separation of recoverable product and responsible disposal of residual has been promoted through Project Plan requirements.

As the cost to dispose of residual waste to landfill continues to increase further focus on reuse and separation for recovery will need to occur.

Waste Wise Events

A recent focus of BCC is to reduce the quantum of waste generated at events, through applying Waste Wise Event strategies. While in its infancy, this approach has been trialled with success at a number of recent BCC operated events.

To embed this approach, further work is required to establish policy and support materials to aid BCC Officers in:

- Understanding the intention of BCC in promoting Waste Wise Events.
- Tools and resources to guide the planning and implantation of a Waste Wise Event.
- Measures to establish the effectiveness of the program.
- Communication to the community as to expectations when attending a Waste Wise Event.
- Supporting other event organisers to practice being “Waste Wise”.

Develop a Waste Wise policy and event manual.

Promoting the Waste Hierarchy

The waste hierarchy defines a range of approaches to waste management that can be implemented.

The hierarchy aims to achieve the maximum practical benefit from the resources contained in products we use and to manage waste in a way that minimises the amount that ends up going to landfill.

In recent years, BCC has focussed much of its waste management efforts to directing materials away from landfill for the purposes of:

- Recycling.
- Reuse.
- Recovery.

To encourage Avoidance and Reduction behaviours, community education opportunities should be used in conjunction with the regional Waste Management Strategy initiatives and National Stewardship programs.

5.4 ENVIRONMENTAL RESPONSIBILITY

Ensuring that waste management activities are carried out in an environmentally responsible and sustainable manner is the overarching objective of the strategy.

BCC has an obligation to ensure that it discharges its responsibilities under the Environmental Protection Notices (EPN) for the BWMC.

As both a waste operator and waste management regulator, BCC has a responsibility to comply with and enforce relevant legislation and respond to issues that are brought to its attention.

5.4.1 Landfill Legacy Management

While disposal of waste to the landfill no longer occurs at the BWMC, BCC continues to have obligations under two (2) EPNs at the waste centre (Site and Wetlands) to manage environmental risk.

These obligations included:

- Preparing and implementing a rehabilitation plan.
- Maintaining water quality monitoring regimes for the site.
- Rehabilitation of the open waterway through the site
- Care and maintenance of wetlands and overall site.

BCC has rehabilitated Stage 1 and Stage 2 landfill areas and continues to meet its monitoring obligations. A leachate management wetlands has been developed on the site to treat the leachate generated by Stage 1 of the landfill. This has been a successful project, improving the natural environment at the site, removing significant flows from the sewerage and returning capacity to the community and returning flows to natural water courses. In addition, the cost to manage the leachate has reduced.

Ongoing funding to manage these obligations is necessary and opportunities to reduce care and maintenance and management costs are reviewed and updated each year as part of the budget process.

5.4.2 Illegal Dumping

The inappropriate disposal of waste and other material in both the rural and urban environments is an issue of concern in many communities.

Such materials can become a danger for wildlife, impact on water and soil quality and other environmental values, and impose a cost burden on the community.



The regional Waste Strategy includes an Action Plan to educate and encourage the appropriate disposal of waste and highlight the environmental harm that can occur.

Maintenance of an Illegal dumping database and funding of surveillance cameras and clean-up costs are in place via CCWVG programs and actions. BCC supports and contributes to these regional actions. The illegal waste dumping database is a portal at Rethink Waste. Data will be used by CCWVG to engage with the EPA and other state agencies to develop a co-ordinated and better funded state wide response to illegal dumping. The state has indicated separation of illegal dumping from litter in legislation will be an important step toward better compliance.

Continue to monitor illegal dumping in the municipality, target actions to reduce and work regionally via the CCWVG.

5.4.3 Litter Management

BCC provides a range of litter management services including:

- Street sweeping.
- CBD and outer business area cleaning.
- Litter bins in streets, parks and reserves.

Littering damages the environment and the social values of our community.

6 STRATEGY ACTIONS

The objectives detailed in BCC's previous 2013-2017 Waste Management Strategy have guided improved waste management practices. These objectives continue to be relevant and support the strategic aims of the regional strategy.

The CCWVG Strategic Plan 2017-2022 aims to reduce waste to landfill by diverting 50% of all MSW from landfill by 2022. BCC will support the regional actions through the commitment of resources and coordination of local Council activities.

During the development of this strategy, a range of actions were identified through:

- Engagement with stakeholders providing waste services to BCC.
- Review of CCWVG Strategic Plan.
- Review of previous BCC 2013-2017 Waste Strategy.
- Interviews with staff.
- Feedback from the community.

Matters raised were considered and reviewed to determine alignment with the strategy, including the potential to address the local issues before Council.

The Waste Strategy Team consisting of Director Works and Services, Manager Engineering Services, Works Depot Manager and Waste Team Leader worked together to prioritise the actions into an Action Plan.

The methodology for prioritisation included considerations such as:

- How the actions support the goals.
- Ability and affordability to implement.
- Alignment with the CCWVG strategy.
- Community expectations.

Appendix B details actions to be implemented by BCC over the life of this strategy. These actions will be reviewed and updated annually along with the budget process identifying funding required to progress them.

6.1 MEASURES AND OUTCOMES

There are existing information collection practices in place to allow for the capture of data to identify:

- Quantity of kerbside recycling and public place recycling collected and nature of material collected.
- Quantity of kerbside waste collected and periodic audits of the waste stream.
- Quantity and nature of materials diverted prior to the waste transfer station, e.g. recycling area, recovery area, solid waste piles and Tip Shop.
- Quantity of material to the waste transfer station and material diverted from landfill through segregation.

Metrics will be established and reported on annually to measure progression toward the achievement of the waste management goals set in this strategy.

6.2 REFERENCES

- Burnie 2030 Community Plan.
- Cradle Coast Waste Management Group Strategic Plan 2017-2022.
- State policy and legislation.
- Federal policy and legislation.

6.3 APPENDICES

- Appendix A: Review of Burnie Waste Management Strategy 2013-2017 Local Improvement Plan.
- Appendix B: Burnie Waste Management Strategy 2018-2023 Local Improvement Plan

APPENDIX A

REVIEW OF

BURNIE WASTE MANAGEMENT STRATEGY 2013-2017

LOCAL IMPROVEMENT PLAN

APPENDIX A: REVIEW OF BURNIE WASTE MANAGEMENT STRATEGY 2013-2017 LOCAL IMPROVEMENT PLAN

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
5.1. WASTE DIVERSION AND SERVICE DELIVERY.						
<i>Ensure current and future service delivery needs are integrated and coordinated improving efficiency and cost recovery</i>						
5.1.1 Burnie Waste Management Centre						
1.	Collect Data, Analyse and Report on achievements toward waste diversion targets.	10	Landfill Reduction	Operational	Relevant information is collected. Reported to Alderman and Government agencies. Informs future actions and regional strategies.	No ongoing specific action required as embedded in existing systems.
2.	Increase the range of materials diverted from the waste stream as opportunities arise and in concert with the CCRWMG. E.g. Bulky Plastics, Polystyrene	14,15	Increase Recovery	Ongoing	Soft plastic recycling offered at landfill. Expanded cardboard collections	No specific action required. Support regional plan actions.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
3.	Promote Burnie Waste Management Centre as a local disposal point for state-wide and federal programs. E.g. Chemicals, Drum Muster, Chemsafe, Household hazardous wastes.	18,19,21,22	Increase Recovery	Operational	BCC works regionally to support such recovery opportunities. Example household batteries collection. CCWMG.	No specific action required. Support regional plan actions.
4.	Communicate and Promote Bulky item deposit and resale opportunities at the Tip shop.	12,14,15	Increase Recovery	Ongoing	Mission Australia operating tip shop and have increased sales and profile.	Partner with Mission Australia to develop and implement a marketing strategy for the Tip shop.
5.	Identification and best practice management in handling of both difficult to handle waste streams. - Mattresses. Implement phased in cost recovery to ultimately recover materials and remove from waste stream.	14	Service Efficiencies	Complete	CCWMG developed best practice guidelines for transfer stations. Mattresses recovery occurring.	No specific action required. Support regional plan actions.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
6.	Review Tip Shop and Resource Recovery loop operations to be consistent with the regional resource recovery objectives and to explore synergies in operations.	12,13,14	Service Efficiencies	Complete	Review occurred in line with CCWMG guidelines. Current arrangement is good practice.	No specific action required. Support regional plan actions.
7.	Improved e-Waste diversion including involvement in National TV and Computer Recycling Scheme	20	Service Efficiencies	Complete	New e-Waste collection and processing arrangements in place.	No specific action required. Support regional plan actions.
5.1.2 Organics Management						
8.	Develop a position paper on Kerbside Organics Collection and Management options arising from CCWMG Report. Paper to note operations, cost, implementation plan and Communication Strategy.	1,2,3	Increase Recovery	Complete	Council determined not to progress (2017).	Monitor regional interest in a future review of FOGO (watching brief).

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
9.	Review the green waste voucher system considering an equivalent mixed waste voucher system. 1) For rural land owners, and also 2) For all ratepayers.		Environment	Complete	Council endorsed waste and green waste vouchers. Green waste vouchers significant driver for green waste separation.	No plan to change current voucher system. Potential to explore free refuse day for Rural residents (linked to Urban hard waste collection).
10.	Identify options for the beneficial and cost effective reuse of green waste material deposited at the Mooreville Road Waste Management centre.	7,8	Environment	Ongoing	Explored use in council operations.	Ongoing need to promote reuse options for chipped green waste. Operational matter.
5.1.3 Kerbside Recyclables Collections						
11.	Monitor comingled collections within the Burnie CBD by private arrangements with contractors		Increase Recovery	Operational	Contractors continue to offer recycling in CBD on a fee for service basis. Current arrangements meet needs.	No action proposed. Review service needs if gap occurs in the market.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
12.	Support CCWMG waste and recycling audits – including a focus on contamination.	16,17	Increase Recovery	Ongoing	CCWMG has progressed these actions. Ongoing action of CCWMG.	No specific action required. Support regional plan actions.
13.	Investigate possible service efficiencies for the various modes of cardboard collection currently in place. Maximise use of service.	14	Service Efficiencies	Completed	Tender process used to find cost efficiencies. New tender process in 2018. To review management of recycling loop cardboard in conjunction with waste transfer station management.	Service tendered in May 2018. Review of service delivery carried out in the development of the tender documentation.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
5.1.4 Kerbside Waste Collections						
14.	Review Bin Size, collection frequency and ownership in conjunction with possible introduction of new kerbside collection Services.		Landfill Reduction	Completed	Reviewed mode of operation as part of FOGO review. Kerbside recycling contract to be retendered in 2019, potential to review mode of service delivery.	Maintain current action Possibly a future link to FOGO if becomes a regional priority. Note review as part of recycling contract retender and FOGO service.
15.	Develop a servicing policy for rural collections (waste and recycling) to guide the assessment of servicing requests.		Service Efficiencies	Completed	Rural area service reviews carried out as requests received. Assessment	Previous service reviews set assessment parameters. Apply as future requests are made.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
					set for parameters future reviews. Cascade road area to be considered for compulsory collection.	
5.2. REGIONAL COOPERATION & PARTNERSHIPS -						
<i>Support the achievement of the regional waste strategy to build Partnerships Increasing Recovery and Reuse of Local Materials</i>						
5.2.1 Cradle Coast Waste Management Group						
16.	Officers Attend bi-monthly CCRWVG Meetings.		Community Engagement	Ongoing	BCC represented and firm commitment to the group	Operational matter. No need for specific action.
17.	Provide Support to implementation of the Cradle Coast Waste Management Strategy Actions.	17	Community Engagement	Ongoing	Officer representation on the Group. BCC has endorsed the regional strategy.	BCC strategy to have a key focus on supporting the regional strategy.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
5.2.2 Industry and Commerce						
18.	Support CCWMS initiatives to Link local industry into regional waste minimization and reuse initiatives in accordance with the CCWMS.	27,40,41, 42,43	Increase Recovery	Ongoing	Local support is provided as engagement opportunities arise. Officers support regional engagement opportunities.	Development of an engagement framework – formalise current practices. Support regional plan actions.
19.	Communicate waste and recycling information relevant to business through City Link, BCC and like organisations.		Increase Recovery	Ongoing	Changes in service delivery communicated directly with relevant groups. BCC online presence makes available relevant information and resources.	Develop a communications strategy for waste management to support this and other actions. Strategy to leverage on Regional communications strategy

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
5.2.3 Alternate Waste Management Technologies						
20.	Support CCWMG to maintain awareness of industry trends and developments in respect to alternate waste management technologies. Maintain linkages to UTAS and TIER as to industry developments in Slow Pyrolysis and Bio char technologies.	41	Landfill Reduction	Ongoing	Promote CCWMG as the regional voice and point of contact.	No specific action required. Support regional plan actions.
5.3. COMMUNITY ENGAGEMENT – Engage the Community to ensure Services meet needs						
5.3.1 Service Expectation Surveys						
21.	Undertake user satisfaction surveys via Council’s website and at the waste management centre, reviewing customer request information.		Community Engagement	Ongoing	Various opportunities taken to explore user’s experiences with Council services. E.g. direct contact, feedback via facebook (targeted issues), direct contact on specific initiatives.	Project specific engage with community and consider feedback. Monitor comment/ feedback as received. No specific action required - incorporate as part of Communications Strategy.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
22.	Communicate and seek feedback from the community where service changes are proposed.		Community Engagement	Operational	Program based as need arises to review on a current service or seek feedback on a proposed service.	No specific actions. Communication Strategy.
5.3.2 Education						
23.	Communicate with school representatives periodically regarding waste management education opportunities, consistent with CCWMMG actions.	48	Education	Ongoing	Schools program in place for waste centre visits. Education material via rethink website.	Support regional strategy and maintain current linkages to schools.
24.	Continue to support school tours of Council facilities and provide access to relevant council staff.		Education	Ongoing	Note comment above.	See above.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
25.	Support CCWVG regional education information messages and documentation, and distribute locally where applicable.	46,47,48, 49	Education	Ongoing	Linkages on BCC website and common collateral delivered/ distributed across the coast.	Support regional strategy actions.
26.	Develop a communication process for waste management strategy.		Community Engagement	Ongoing	Improvement made to BCC web page and CCWVG used to disseminate relevant information.	Development of a Communications strategy – framed around the CCWVG regional strategy.
27.	Promote a waste minimisation and materials separation culture within council operations.		Landfill Reduction	Ongoing	Internal engagement occurs to foster this culture. Examples of internal activities include recycling, reuse of road pavements and many other examples.	An ongoing action to aid in the education of staff, contractors and the broader community. Consider sustainable purchasing policy.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
5.4. ENVIRONMENTAL RESPONSIBILITY – Ensure						
5.4.1 Landfill Legacy Management						
28.	Develop Landfill Rehabilitation Plan and final capping for Burnie Stage 2 landfill.		Environmental	completed	Stage 2 was rehabilitated as per agreed rehabilitation plan.	No further action required. Ongoing monitoring of site built into operational plan.
29.	Continue to fund and maintain maintenance and monitoring regimes for the site.		Environmental	Completed	Activities funded and coordinated as part of the operational program.	Action no longer required.
30.	Care and maintenance of the rehabilitated site. Schedule added to Service Level Document.		Environmental	Completed	Activities funded and coordinated as part of the operational program.	Action no longer required.
5.4.2 Illegal dumping						
31.	Support the CCWMS in implementation of regional illegal dumping strategy by providing local data on dumping occurrences and clean-up costs.	5,6,7	Environmental	Ongoing	BCC utilising the online portal.	No specific action required. Support regional plan actions.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
32.	Assist CCWMG to identify sites of frequent illegal dumping to assist enforcement personnel.	6	Environmental	Ongoing	Dumping hotspots identified. Signage and monitoring program in place.	Continue to monitor illegal dumping in the municipality and target actions to reduce. Work regionally via the CCWMG.
5.4.3 Litter Management						
33.	Identify and monitor litter “hot Spots” to include as part of a litter management plan.	8	Environmental	Operational	Monitoring of problem areas occurs as part of operational activities. Measures implemented as necessary to address litter problems	Program embedded operationally. Work regionally with CCWMG as opportunity arises.
34.	Support regional and state education campaigns aims at reducing littering.	8	Environmental	Ongoing	Currently working regionally to educate the community.	No specific action required. Include as part of communications strategy. Support regional actions.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
4.4 Carbon Footprint						
35.	Assess carbon footprint of council Waste/Recovery activities	3, 31	Environmental	No started	Action not progressed. Consideration give to minimising carbon footprint in plant purchase, waste separation and site operation decision making.	Include action for consideration in revised strategy.
36.	Support CCWMG actions to assess and improve Carbon footprint of Waste/Recycling Activities.	3, 31	Environmental	Not started	CCWMG did not progress a specific project. Note carbon footprint is considered in accessing new projects or initiatives.	No specific action required. Support regional plan actions.

Ref #	Local Actions	CCWMS Action No	Goal	Status	Comment	2018-2023 Plan
37.	Ensure new plant and equipment purchases consider carbon emission performance.	3	Environmental	Completed	Efficiency and carbon footprint of plan and equipment are considered as part of the purchasing process. Embedded in current systems.	No specific action required as part of current decision making process.

APPENDIX B

BURNIE WASTE MANAGEMENT STRATEGY 2018-2023 LOCAL IMPROVEMENT PLAN

APPENDIX B: BURNIE WASTE MANAGEMENT STRATEGY 2018-2023

LOCAL IMPROVEMENT PLAN

Ref #	Local Actions	CCWMG Strategic Plan Action No	Goal	Priority	Timeline	Measures and Outcomes
5.1. WASTE DIVERSION AND SERVICE DELIVERY						
<i>Ensure current and future service delivery needs are integrated and coordinated improving efficiency and cost recovery</i>						
5.1.1 Burnie Waste Management Centre						
1.	Work with the CCWMG to introduce additional resource recovery activities as the opportunity arises.	14	Resource Recovery	M	Ongoing	Increase waste diverted from landfill.
2.	Collect data, analyse and report on achievements toward waste diversion targets.	10	Landfill Reduction	H	Ongoing	Figures are included in monthly GM's Report.
3.	Waste transfer contract expires in 2022, explore future management models.	14,17,28	Resource Recovery	M	2020	New operation model achieves objectives.
4.	Explore opportunities to deliver product stewardship programs on site with CCWMG.	20,41	Resource Recovery	H	Ongoing	Partner with CCWMG to offer site for expanded product stewardship schemes.
5.	Partner with Mission Australia to develop and implement a marketing strategy for the Tip Shop.	12	Service Efficiency	H	Ongoing	Sustainable Tip Shop operation.
6.	Explore opportunities with current site partners to maximise the efficiency and cost effective of waste centre activities and programs.		Service Efficiency	M	2020	Joint partnerships in place achieved within budget.
7.	Increase the range of materials diverted from the waste stream as opportunities arise and in concert with the CCWMG, e.g. bulky plastics, polystyrene.	14,15	Resource Recovery	M	Annually	Increase in # of distinct materials recovered.

Ref #	Local Actions	CCWMG Strategic Plan Action No	Goal	Priority	Timeline	Measures and Outcomes
8.	Communicate and promote bulky item deposit and resale opportunities at the Tip Shop.	12,14	Increase Recovery	M	Ongoing	Increase in # of bulky item reuse sales.
9.	Identification and best practice management in handling of both difficult to handle waste streams. (e.g. support development of tyre recycling site in northern Tasmania).	23,24,25	Service Efficiency	M	2020	Reduced quantity of tyres stockpiled in northern Tasmania and on site.
10.	Review Tip Shop and Resource Recovery Loop operations to be consistent with the regional resource recovery objectives and to explore synergies in operations.	11,12,14	Resource Recovery	M	Ongoing	Increase in total quantity recovered, sales increase.
11.	Maintain and improve e-Waste diversion, including involvement in National TV and Computer Recycling Scheme.	20	Service Efficiency	M	Ongoing	Increase volumes of e-Waste. Sustainable scheme service provider.
5.1.2 Organics Management						
12.	Identify options for the beneficial and cost effective reuse of green waste material deposited at the Mooreville Road Waste Management Centre. (e.g. EOI with local industry and more use in Council works).	3	Environment	H	2020	Reduced stockpile volumes on site, increased use by Council and others.
13.	Monitor regional interest in a future review of FOGO (watching brief).	1,2,3	Landfill Reduction, Environment	M	Ongoing	Reduced waste to landfill, reduce carbon footprint.
14.	Review bin size, collection frequency and ownership in conjunction with possible introduction of new kerbside collection services.		Service Efficiency	M	2020	Community acceptance, waste to landfill reduction.

Ref #	Local Actions	CCWMG Strategic Plan Action No	Goal	Priority	Timeline	Measures and Outcomes
5.1.3 Kerbside Recyclables Collections						
15.	Develop a communications plan to inform the business community as to opportunities to manage their recycling.		Community Engagement	M	2020	Increase in recycling volumes.
16.	Monitor comingled recycling collections within the Burnie CBD by private arrangements with Contractors.	11	Resource Recovery	M	Ongoing	Minimal service gaps exist.
17.	Support CCWMG waste and recycling audits, including a focus on contamination.	16,17	Resource Recovery	H	Ongoing	Improve service level decision-making and informs reduction to landfill initiatives.
18.	Investigate possible service efficiencies for the various modes of cardboard collection currently in place. Maximise use of service.		Service Efficiency	H	2019	Cost per tonne of cardboard recovered is reduced.
5.1.4 Kerbside Waste Collections						
19.	Develop a policy to support the assessment of service extension requests, including waste and recycling services.		Service Efficiency	M	2020	Policy in place to evaluate service extension.
20.	Trial the provision of skip bins in the rural area as part of the annual hard waste collection service.	13	Environment, Service Efficiency	H	2019	Service functions cost effectively and increase collection volume.

Ref #	Local Actions	CCWMG Strategic Plan Action No	Goal	Priority	Timeline	Measures and Outcomes
5.2. REGIONAL COOPERATION AND PARTNERSHIPS – Support the achievement of the regional waste strategy to build Partnerships Increasing Recovery and Reuse of Local Materials						
5.2.1 Cradle Coast Waste Management Group						
21.	Provide support to implement a new CCWMG governance model.	29	Service Efficiency	H	2019	Subject to Council approval, Stage 1 governance model implemented.
22.	Officers attend bi-monthly CCWMG meetings.	29,30	Community Engagement	H	Annually	Number of CCWMG meetings attended.
5.2.2 Industry and Commerce						
23.	Connecting waste generator and makers, with the aim to find beneficial uses for waste products.	41,42	Resource Recovery	M	Ongoing	Expanded range of materials reused.
24.	Communicate waste and recycling information relevant to business through BCC facebook and Rethink Waste website.	46	Community Engagement	M	Ongoing	Raise awareness of waste issues in the business community.
5.2.3 Alternate Waste Management Technologies						
25.	Explore alternate technologies, waste to energy, BioChar, etc as the opportunity arises (maintain a watching brief).	14,42	Environment, Landfill Reduction	M	Ongoing	Feasible alternatives identified.

Ref #	Local Actions	CCWMG Strategic Plan Action No	Goal	Priority	Timeline	Measures and Outcomes
5.3. COMMUNITY ENGAGEMENT – Engage the Community to ensure Services meet needs						
5.3.1 Service Expectation Surveys						
26.	Support user satisfaction surveys via waste and recycling bin audit process.	16	Community Engagement	M	Ongoing	Reduce contamination in recycling bins and reduce waste to landfill.
27.	Communicate and seek feedback from the community where service changes are proposed.	46,47	Community Engagement	M	Ongoing	Support CCWMG communication plan.
5.3.2 Education						
28.	Continue to support school tours of Council facilities and provide access to relevant Council Officers.	48	Community Engagement	H	Ongoing	Increase awareness amongst young people of waste management activities.
29.	Support the implementation of a community education program by waste transfer station Contractor.	47,48	Community Engagement	H	Ongoing	Program success - measured by participants.
30.	Develop a communications plan for the waste management strategy. Strategy to leverage off the regional communications strategy.	52	Community Engagement	H	2019	Community awareness of Councils waste management initiatives.
31.	Review the Council web pages related to waste management , include FAQ section, greater detail on services provide and links to relevant external pages.	47	Community Engagement	H	2019	Updated website with link to Rethink Waste website.
32.	Develop a Waste Wise policy and event manual.	46,51	Community Engagement	H	2019	Policy and event manual established

Ref #	Local Actions	CCWMG Strategic Plan Action No	Goal	Priority	Timeline	Measures and Outcomes
33.	Promote a waste minimisation and materials separation culture within Council operations.	14	Landfill Reduction, Resource Recovery	M	Ongoing	Reduction in materials to landfill by Council. Increase use of recyclable products in projects.
5.4. ENVIRONMENTAL RESPONSIBILITY						
5.4.1 Landfill Legacy Management						
34.	Continue to maintain maintenance and monitoring activities required in EPN's at BWMC.		Environment	H	Annually	
5.4.2 Illegal Dumping						
35.	Continue to monitor illegal dumping in the municipality, target actions to reduce and work regionally via the CCWMG.	5,6,7	Environment	H	Ongoing	Improved database, reduction of incidents and State action to assist.
5.4.3 Litter Management						
36.	Maintain Council operations and programs to remove litter.	8	Environment	H	Ongoing	Reduction in littering.
37.	Support regional and state education campaigns aims at reducing littering.	9	Environment	M	Ongoing	Reduction in littering.
5.4.4 Carbon Footprint						
38.	Support CCWMG actions to assess and improve carbon footprint of waste/recycling activities.	1	Environment	L	Ongoing	Reduction in carbon footprint.
39.	Ensure new plant and equipment purchases consider carbon emission performance.		Environment	M	Ongoing	Reduction of carbon emissions of Council fleet, plant and equipment.