

Waste Plan 2020-2025

SHIRE OF PEPPERMINT GROVE

LIBBY EUSTANCE

Contents

Introduction.....	2
Strategic context.....	2
Background.....	3
Current Situation	3
Current Waste Management.....	5
A low waste future	6
Waste Management Action Plan.....	8

Introduction

Local governments have an important contribution to make to the State Government's *Waste Avoidance and Resource Recovery Strategy 2030* targets for Western Australia. Local Government waste plans provide a link between the State Government waste strategy and local waste management activities. Local governments determine the most appropriate waste management solutions for their communities and must demonstrate how these waste services align with the state's objectives and targets.

The purpose of a local waste plan is to:

- align local government waste management activities with the State Waste Strategy
- map current performance and establish a benchmark to achieve Waste Strategy targets
- monitor progress on local government achievement of Waste Strategy targets
- design programs and activities which will support the implementation of waste plans.

Strategic context

The Shire of Peppermint Grove Waste Plan 2020-2025 allows for council and community to track the Shire's progress in delivering its environmental objectives and implementation actions (Figure 1).



Figure 1 Strategic Context for the Waste Plan 2020-2025

Background

All local governments in the Perth and Peel region and major regional centres that provide waste services, are required to develop waste plans for the 2020-21 financial year, and perform their functions in respect of waste management in accordance with their waste plans.

This waste plan guides the Shire of Peppermint Grove in sustainable waste and recycling practices. Our aim is to establish and maintain consistent, cost effective and functional waste management practices to reduce waste to landfill. This is driven by the following targets set in the State Government's *Waste Avoidance and Resource Recovery Strategy 2030*.

By 2025

- Introduce food organics garden organics (FOGO) system
- Reduce household waste by 5 per cent per capita
- Increase recovery of materials from household waste to 67% across the Perth and Peel regions

By 2030

- Reduce household waste by 10 per cent per capita
- Increase recovery of materials from household waste to 70% across the Perth and Peel regions

The Shire of Peppermint Grove is working towards a vision for Western Australia to become a sustainable low-waste circular economy in which human health and the environment are protected from the impacts of waste. The three target areas driving our waste management actions are:

Avoid

Western Australians generate less waste

Recover

Western Australians recover more value and resources from waste

Protect

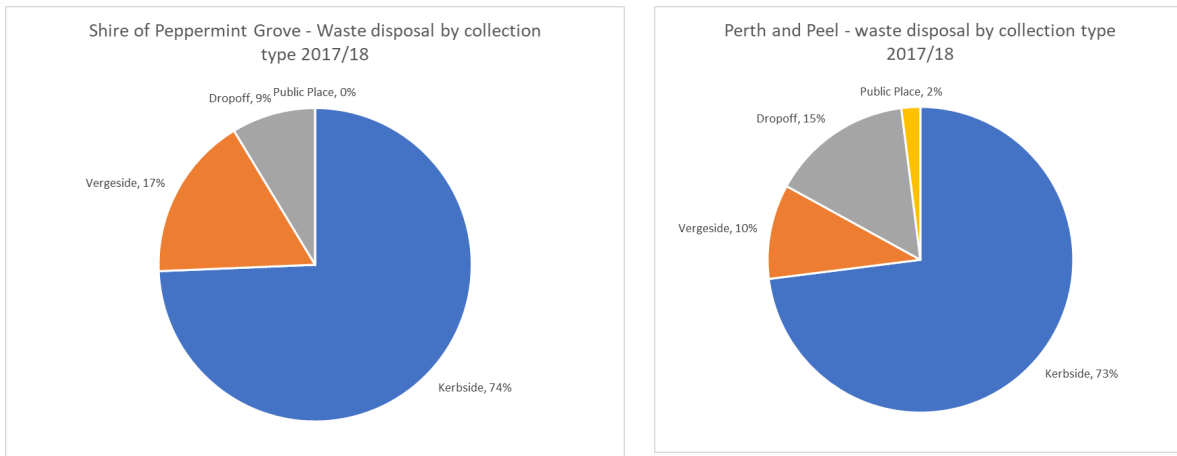
Western Australians protect the environment by managing waste responsibly

Current Situation

Every year, local governments are required to report to the Department of Water and Environmental Regulation (DWER) via the Local Government Waste Management Census. Note: the DWER has not yet published Local Government Waste Census Data for the 2018/19 or 2019/20 financial years.

Recovery rate	2014/15	2015/16	2016/17	2017/18	2018/19
Shire of Peppermint Grove	16%	29%	22%	31%	27%
Average Perth and Peel	36%	38%	40%	41%	no data
Waste strategy target	65%	65%	65%	65%	65%

Table1 – percentage of waste diverted from landfill for all collection services



Key

- Kerbside:** household general waste (greenwaste if appropriate) and recycling collections
- Vergeside:** bulk and green waste verge collections
- Drop off:** waste or recycling dropped off by residents at the West Metro Recycling Centre
- Public place:** street and park litter bins [data may not be collected separately]

Figure 2 Shire of Peppermint Grove showing service type and waste collected

This data shows the breakdown of the different service types and the amount of waste generated through each waste stream. Table 1 compares the Shire of Peppermint Grove’s kerbside and verge side collection data from 2015/16 to 2018/19, the data is presented in tonnes.

Tonnes	2015/16		2016/17		2017/18		2018/19	
	Collected	Landfilled	Collected	Landfilled	Collected	Landfilled	Collected	Landfilled
General Waste	745	745	784	784	437	435	451	451
Recycling	206	38	223	67	211	63	191	31
Verge Green waste	101	0	94	0	93	0	41	0
Verge bulk waste	56	1	55	55	55	55	51	51
All Services total	1108	784	1156	906	796	553	734	533

Table 2: Summary of Shire of Peppermint Grove’s waste service collection data 2015/16-2018/19

The Shire of Peppermint Grove has recently moved to a three bin system with weekly general kerbside waste collection, a fortnightly recycling verge side collection and a

fortnightly garden organics collection. The Shire of Peppermint Grove collects vergeside waste three times per year for both bulk and green waste. The previous two bin system diverted from landfill approximately 27% per cent of waste generated in 2018/19 which is well below the targeted rates, but typical for a two-bin system.

Waste Generation

The Shire of Peppermint Grove now has an average waste generation rate, per capita for kerbside and verge side collections. Figures up to 2016/17 could be inflated by the inclusion of a proportion of Construction and Demolition waste with the household waste.

Current Waste Management

The Shire of Peppermint Grove is a member of the Western Metropolitan Regional Council (WMRC). The WMRC is made up of five member councils (City of Subiaco, Town of Cottesloe, Town of Claremont, Town of Mosman Park and the Shire of Peppermint Grove) and operates the West Metro Recycling Centre, waste education programs and helps the communities in Perth's western suburbs to manage and minimise waste.

The Shire of Peppermint Grove and the WMRC provide a variety of waste services:

Kerbside collection

- Weekly collection of 240 litre general waste bins
- Fortnightly 240 litre recycling collection
- Fortnightly 240litre garden organics collection

Verge side collection

- bulk household and bulk green waste three times per year

Waste drop off services

- Convenient locations to drop off household batteries, fluorescent light globes and tubes and printer cartridges for recycling at the Grove Library.
- Waste and recycling drop off at West Metro Recycling Centre, seven days a week, including:
- free recycling for cardboard, clothing, electronic waste, batteries, gas cylinders, mobile phones, motor oil, fluorescent globes, printer cartridges, scrap metal, polystyrene, X-rays and household hazardous waste (paints, pesticides, aerosols and flammables)
- disposal of appropriately wrapped asbestos-containing material
- tyre and mattress recycling
- disposal of both bulk and green waste.

Community education, behaviour change and waste avoidance

- WMRC Recycling Hotline **9384 6711** where recycling questions are answered authoritatively
- The Shire of Peppermint Grove provides educational initiatives through the WMRC including the Waste Watchers program (workshops, tours, talks and events) to encourage residents to live with less waste
- The Shire of Peppermint Grove works with WMRC to provide information to residents about home waste management and the recycling system
- The Shire of Peppermint Grove and the WMRC work with event managers to encourage low waste generation at community events
- WMRC is an active member of WALGA's consistent communications collective which aims to achieve consistent communication on waste management across local government areas
- details here

Littering and illegal dumping

- Littering and illegal dumping of waste can have serious environmental and economic effects, including reduced visual amenity, harm to our wildlife and even bushfires. Littering and illegal dumping issues are addressed by promptly transporting waste to the West Metro Recycling Centre. The Shire of Peppermint Grove and the WMRC provide ongoing education, support and compliance activities, to encourage positive waste behaviours and reduce littering and illegal dumping.

A low waste future

We're in this together

Managing waste and changing behaviour is something we need to do together. The State's environmental resources belong to all Western Australians and we all have a role to play in protecting them.

To be sustainable means to be a low-waste society. The Shire of Peppermint Grove encourages a circular economy approach, where any waste that is generated is valued as a resource that can be reused or recycled for the benefit of the economy.

A circular economy also means we manage waste to protect the environment and it presents opportunities for increased local recycling activity. Local solutions create local jobs and minimise the costs and impacts of unnecessary transport.

As a community member, there are some things you can do to improve waste practices at home, at work and in the community:

Reduce

- avoid single use plastics
- use reusable coffee cups, water bottles and shopping bags

Reuse

- reuse or repurpose clothing textiles, linen, etc.
- compost food scraps and garden waste
- join your local Buy Nothing Facebook group

Recycle

- buy second hand
- buy recycled
- paper and cardboard
- plastics
- tins
- glass
- batteries
- old paint
- call the WMRC Recycle hotline for advice to help you recycle right

Moving to FOGO

By 2025 the Shire of Peppermint Grove must introduce a food organics garden organics (FOGO) system. FOGO will be part of a new three-bin waste system designed to divert waste, like food scraps and garden waste from landfill. FOGO waste is collected, processed and made into compost and mulch for use in parks and gardens.

Introducing the FOGO system in the Shire of Peppermint Grove is expected to divert around 66 per cent of recoverable waste from landfill. This will help the Shire of Peppermint Grove meet its general waste reduction targets and has other benefits, like reducing water use in our parks and gardens by using more mulch.

The FOGO system has been successful in a number of pilot programs across other Western Australian local governments.

Table 3: Comparison of different bin systems and potential recovery rates.

Developed by Southern Metropolitan Regional Council, based on data from their member local governments.

Bin System	Resources recovered	Typical recovery rate
Two-bin system <ul style="list-style-type: none"> • Green bin – general waste • Yellow bin – recycling PLUS: Green verge collection and hard waste	<ul style="list-style-type: none"> ✓ Recyclables ✓ Bulk verge waste 	33%
Three-bin Garden Organics (GO) system <ul style="list-style-type: none"> • Green bin – garden waste • Yellow bin – recycling • Red bin – general waste PLUS: Green verge collection and hard waste	<ul style="list-style-type: none"> ✓ Garden waste ✓ Recyclables ✓ Bulk verge waste 	48%
Three-bin Food Organics Garden Organics (FOGO) system <ul style="list-style-type: none"> • Green bin – food and garden waste • Yellow bin – recycling • Red bin – general waste PLUS: Green verge collection and hard waste	<ul style="list-style-type: none"> ✓ Food waste ✓ Garden waste ✓ Recyclables ✓ Bulk verge waste 	66.5%

Waste Management Action Plan

Waste Management Tool	Action (OR link to existing local government plan/document that details this activity)	Is the action new or existing?	Detailed actions/sub-actions (OR link to existing local government plan/document that details this activity)	Milestones (SMART): Specific, Measurable, Achievable, Relevant, Timed	Target (SMART)	Timeframe for delivery (completion date)	Aligns to Waste Strategy Objective/s		
							Avoid	Recover	Protect
Waste services	Implement fortnightly garden organics kerbside collection	Existing	Deliver dedicated lime-green lidded bin consistent with Better Bins to all residences in the Shire	Rollout complete	Reduce waste/head to target level by 2025 Increase recovery rate to target level by 2025	Apr-20		✓	
	Investigate pre booked bulk hard waste verge collection programme.	New	1. Develop a business case detailing preferred service options and specifications, performance measures and implementation plan by end 2021 2. Report to Council for approval 3. Implement	Council approves pre-booked hard waste collection option and residents can utilise by end 2021.		Dec-21	✓	✓	✓
	Work with the WMRC to ensure residual waste delivered to Waste to Energy facility when feasible	New	1. Support WMRCs W2E contracting process	WMRC lets tender by end 2020		Jun-22		✓	
	Introduce FOGO service to all eligible residents	New	1. Develop a business case covering preferred service options and specifications, performance measures and implementation plan incorporating State Govt. guidance. 2. Apply for "Better Bins FOGO" funding 3. FOGO service will be implemented consistent with the Better practice FOGO kerbside collection guidelines	1. Business case developed by July 2023 2. FOGO bins supplied to all relevant properties by 2025.		Dec-25	✓	✓	
Waste infrastructure	Locate and eliminate servicing of all resident-owned bins	Existing	Undertake as part of change to a 3 bin GO system	Complete	Reduce waste/head to target level by 2025 Increase recovery rate to target level by 2025	Apr-20	✓		

Policies and procurement	Develop a Waste Local Law	New	<ol style="list-style-type: none"> 1. Draft a Waste Local Law detailing general duties and responsibilities of residents and the Local Government based on WALGA Model Local Law 2. Draft Waste Local Law to be sent to the Minister for the Environment and the Minister for Local Government and Communities in accordance with the <i>Local Government Act 1995</i> 3. Advertise Waste Local Law for public comment. 	1. Draft Waste Local Law gazetted by December 2020	Waste Local Law in Place by July 2021	1/07/2021	✓	✓	✓
	Ensure waste and sustainability considerations are taken into account in relevant policies	New	<ol style="list-style-type: none"> 1. Update Policy 2.9 to ensure waste and sustainability considerations are taken into account 2. Consider whether there is a need to update any other policies to take waste reduction/recovery into account 	Review policy manual by end 2020 Draft alternative policies by mid-2021	Policies updated by end 2021	31/12/2021	✓	✓	
Data	Track the Shire's Waste generation rates	New	Track the Shire's waste generation and resource recovery rates, by tip dockets received from transfer station and processors on a monthly basis.	Quarterly reports included in Council reports by end 2020	Reduce waste per head to target level by 2025	Dec-25	✓	✓	
Behaviour change programs and initiatives	In conjunction with WMRC provide programs, initiatives and waste avoidance education to the community	Existing	<p>Shire will access WMRC services for the following as required:</p> <ol style="list-style-type: none"> 1. Conduct Waste Watchers Workshops (WWW) and Community tours, talks, events and workshops. 2. Undertake school incursions 3. Provide online community education material including video clips 4. Coordinate with other LGs and RCs to share best practice 5. Provide advice to Member Council staff on behaviour change communications and education 6. Initiate volunteer programs 7. Run recycling hotline 8. Loan low waste equipment to events 9. Use print and digital media for waste reduction and management information 	<p>The Shire will participate in the following as required:</p> <ol style="list-style-type: none"> 1. 4 x WWW conducted each year 2. 4 x school incursions per year 3. 2 x volunteer led events/ year 4. 80% press releases printed by local papers, increasing number of website visitors year on year, 2000 Facebook likes by end 2021 	The waste initiatives, programs and education contribute to the reduction in waste generation of 10% and recovery of 67% by 2030	1/12/2030	✓	✓	