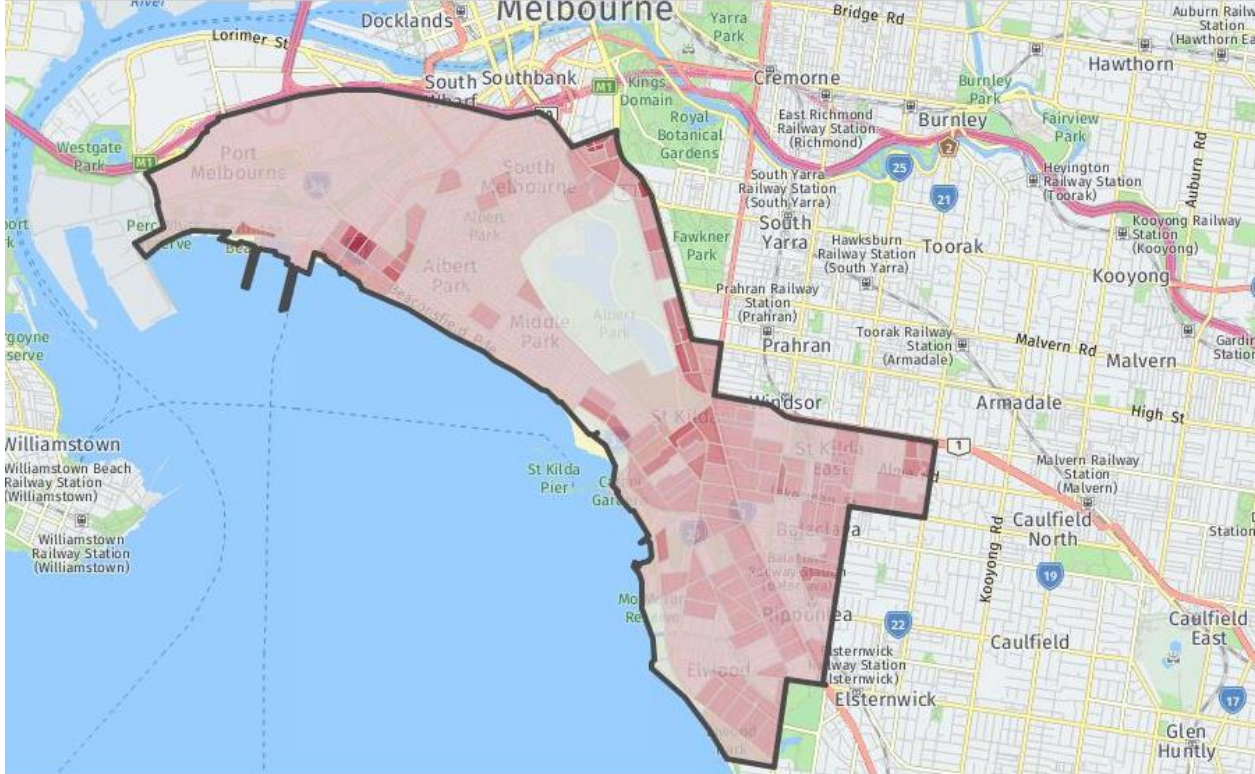


Port Phillip's award-winning Glass Recycling Trial

Presented by
Binita Shrestha



An Introduction – The City of Port Phillip





Governed by the *Don't Waste It!* strategy

In 2018, the City of Port Phillip endorsed the *Don't Waste It! Waste Management Strategy 2018-2028* to provide 'the blueprint for how Council and the community will work together to create a more sustainable future for Port Phillip through the way we manage our waste.'

Outcome 1

A City that reduces waste

Outcome 2

A City that maximises reuse and recycling

Outcome 3

A City with clean streets, parks and foreshore areas

Outcome 4

A City that uses new technology to process waste better and reduce environmental impacts

China's National Sword Policy

Piling Up: How China's Ban on Importing Waste Has Stalled Global Recycling

China's decision to no longer be the dumping ground for the world's recycled waste has left municipalities and waste companies from Australia to the U.S. scrambling for alternatives. But experts say it offers an opportunity to develop better solutions for a growing throwaway culture.

BY CHERYL KATZ · MARCH 7, 2019



Plastics Pile Up as China Refuses to Take the West's Recycling



Officials in Britain and the West are scrambling to cope with growing piles of plastics like this one in China. Beijing banned the import of many recyclables on Jan.1. Fred Dufour/Agence France-Presse — Getty Images



Peter Ford/The Christian Science Monitor

Making the National News



Mainstream media continually reported on Victoria's recycling state.

Recycling giant SKM to shut down, leaving tonnes of waste destined for landfill

By Benjamin Ansell, AAP | 7:56pm Aug 2, 2019



Embattled recycler SKM forced into liquidation

SKM recycling collapses with \$100m debt



One of Australia's biggest recycling companies has collapsed with debts

The tipping point: councils send recycling to landfill as SKM shuts down

By Benjamin Preiss and Adam Carey
July 26, 2019 - 11:12am

Councils are set to dump thousands of tonnes of paper, glass and plastic in landfill after one of Victoria's biggest recyclers, SKM, unexpectedly shut its doors.

NEWS > VIC NEWS

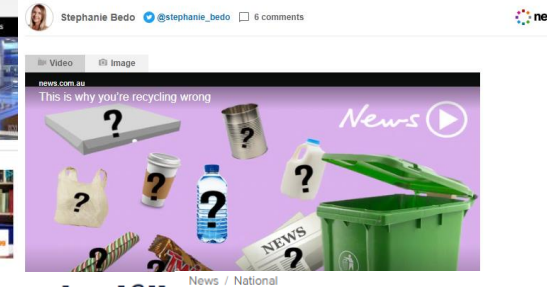
SKM recycling: Melbourne councils could be forced to dump recyclables into landfill

Aaron Langmaid · 7NEWS · Published: Friday, 26 July 2019 2:43 pm



Recycling crisis given \$10 million lifeline

The collapse of a single company has created a massive pile of fetid, stinking waste at four s anything about.



Thousands of tonnes of recycling destined for landfill as SKM shuts its doors

By Benjamin Ansell | 8:12pm Jul 26, 2019

20,000 tonnes of recycling dumped in Victorian landfill during SKM ban

Fears grow that figure could compound into hundreds of thousands of tonnes if the company collapses



SKM, which processes half of the recyclable rubbish collected from kerbside bins across Victoria, is being taken to court this week over alleged unpaid debts. Photograph: Brenton Edwards/AFP/Getty Images

SKM Recycling tells Victorian councils it will stop taking rubbish; waste now headed to landfill

Posted Fri 26 Jul 2019 at 8:40am, updated Fri 26 Jul 2019 at 4:47pm



A four-stream waste and recycling service by 2030

Standardising recycling at home across Victoria

We're sorting household recycling for all Victorians.





Community capacity to house four-stream kerbside bins



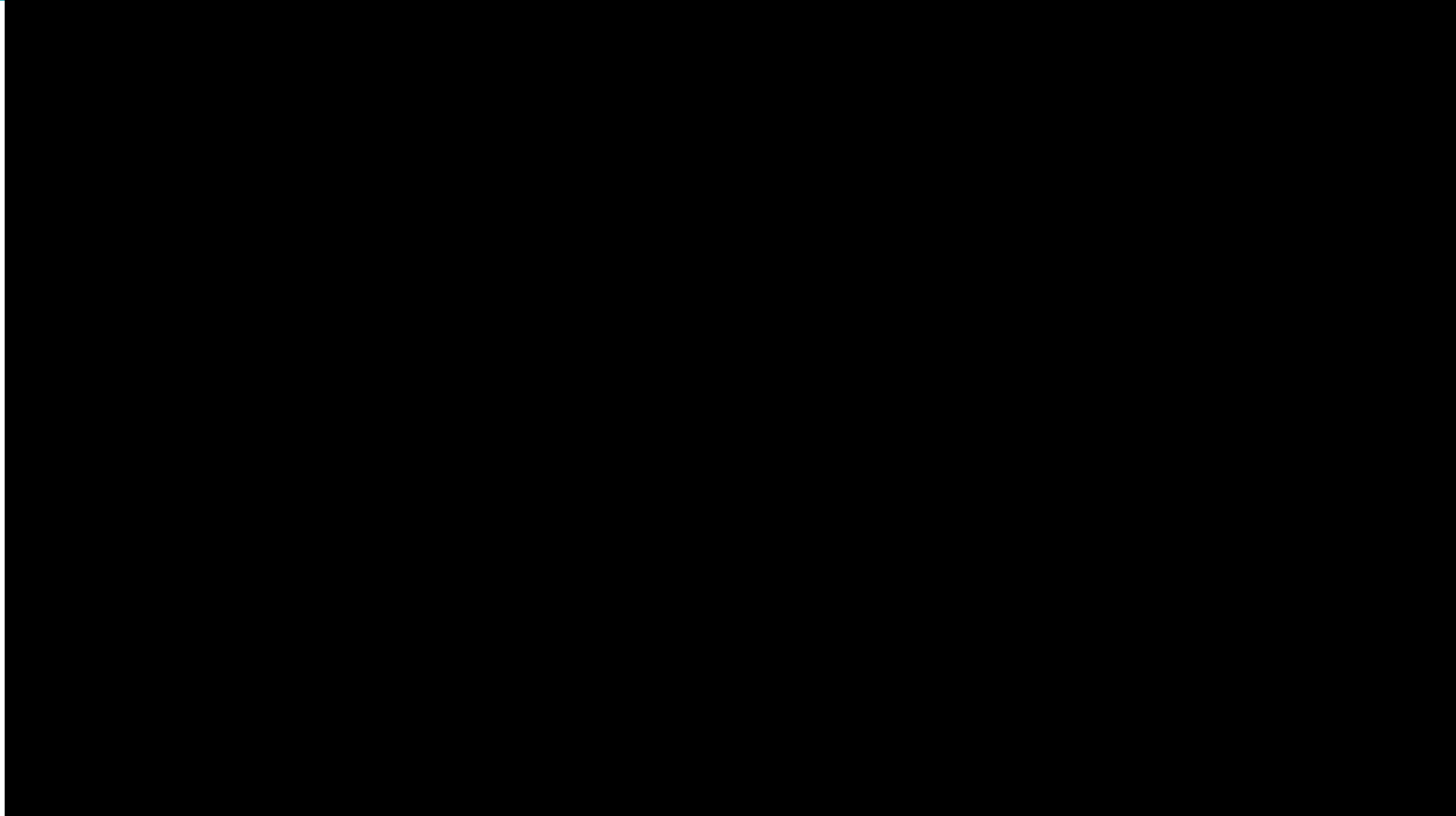
“In the City of Port Phillip, 89.9% of the dwellings were medium or high density, compared to 33% in Greater Melbourne.”

Navigating a limited space



An Introduction - Video

An Introduction to the Glass Recycling Trial



Community engagement

Bin Rollout Preparation



Kerbside trial - Garden City, Port Melbourne





Bin Rollout – Kerbside and Communal



Communal bin sites



Corner of Park & Nelson, South Melbourne



Sol Green Reserve, South Melbourne



Little Finlay Reserve, Albert Park



Lyell Iffla Reserve, South Melbourne





Community engagement and collateral

let's get glass recycling right

What can and can't go in the purple-lidded glass recycling bin?

- ✓ Glass jars including pasta sauce, condiments and jam
- ✓ Glass bottles including beer, wine and spirit bottles, olive oil bottles, clean medicine bottles etc.
- ✗ Plastic bottles and jars
- ✗ Perfume bottles
- ✗ Drinking glasses
- ✗ Window glass
- ✗ Mirrors
- ✗ Bottle tops and jar lids
- ✗ Storage, baking ware or pyrex

Do I need to wash the glass beforehand?

You only need to empty and rinse the glass bottles and jars.

What do I do with lids and caps?

Remove any lids and caps and put them in the yellow-lidded recycling bin.

What happens to all the glass bottles and jars after collection?

Most glass can be recycled repeatedly in a closed loop without a loss to its integrity. All collected glass will be taken to a local processor where it will be sorted, washed and recycled into new products such as road and building materials.

Is there any cost to participate in this trial?

No – there is no additional cost to participate in this trial and all residents in the Garden City trial area will receive a purple-lidded bin for glass recycling free of charge.

How to recycle using yellow-lidded recycling bin during the trial phase?

Except for the accepted glass items listed above, all other recyclables can go in the yellow-bin as usual.

Not sure what goes in which bin?
Visit portphillip.vic.gov.au/waste-management.htm or contact ASSIST on 9209 6777.

don't waste it

ASSIST 03 9209 6777 portphillip.vic.gov.au

oops...

There is a contaminant in here

We have found the following recyclable items that do not belong in this bin.

- Mirror
- Plastic bottles
- Drinking glasses
- Window glass
- Other items

ASSIST 03 9209 6777 portphillip.vic.gov.au

don't waste it

well done

Thank you for recycling right

Glass bottles and jars without lids or caps. Labels can stay on.

ASSIST 03 9209 6777 portphillip.vic.gov.au

don't waste it

what can you put in the purple-lidded bin?

✓ Glass bottles and jars without lids or caps. Labels can stay on.

don't waste it

ASSIST 03 9209 6777
portphillip.vic.gov.au

2020 collection dates for glass recycling

march

s	m	t	w	t	f	s
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

april

s	m	t	w	t	f	s
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

may

s	m	t	w	t	f	s
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

june

s	m	t	w	t	f	s
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

july

s	m	t	w	t	f	s
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

august

s	m	t	w	t	f	s
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

september

s	m	t	w	t	f	s
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

october

s	m	t	w	t	f	s
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

- Glass recycling bin collection
- General recycling bin collection
- Last collection date

No changes to the waste bin collection

FAQs - Brochure

Bin tags

Fridge magnet - Calendar

Communal glass recycling trial - Collateral

City of Port Phillip:
2020 Glass recycling trial
campaign print asset: communal bin stickers



Data capture – Auditing tool

Each bin was fitted with a QR code to tie it to the residential address in the database. That allowed for audit integrity even if a bin shifted address during the length of the trial.



12:59 4G

Map

ROAD: Dunstan Parade NUM: 6

RELATED ITEMS BIN - ADDRESS

Bin

📍	Type ↓	QR	Serial	C_Rec
📍	Purple Glass Recycling	0974	PP0305629	1
📍	Waste	0219	PP20402	0
📍	Yellow Recycling	0220	P043248	1

All collectable bins were recorded against each property, and all bins were audited during the morning of each collection.

The auditing questionnaire was built into the platform, capturing information on contamination and recording whether educational material was distributed, alongside the photograph evidence of the contaminating material.



Bin | Purple Glass Recycling, 0974, PP0305629

Map Inspection Date Contaminated
Fri, Jul 10th 2020, 09:14... Yes

Level of Fill ★
Full

Contaminated
 No Yes

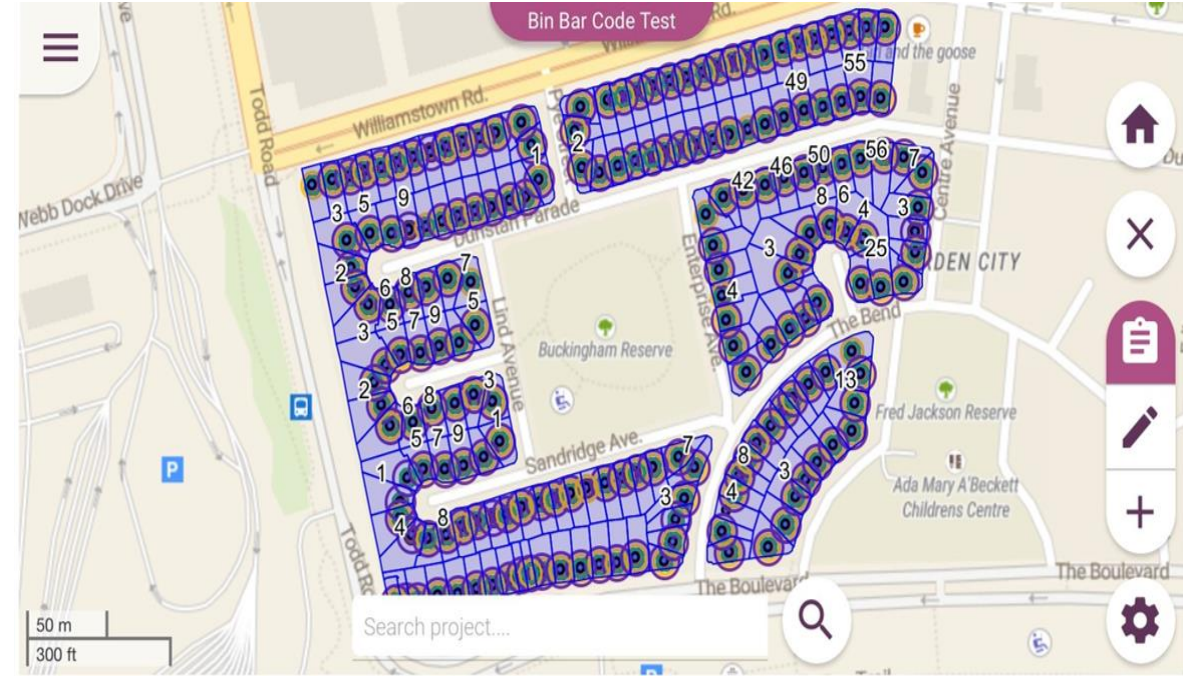
Photos - General
CAMERA GALLERY

Contaminant Type - Purple ★
Lids and caps

Photos ★
CAMERA GALLERY

Educational Response Required
 No Yes

Well done tag issued ★



Waste officers collaborated with IT to develop a GIS based mobile auditing solution that mapped participating households within the trial area, and attached individual bin records against participating properties



Glass recycling trial results

Kerbside utilisation



Very few bins were full each fortnight



Average fill rate was one third



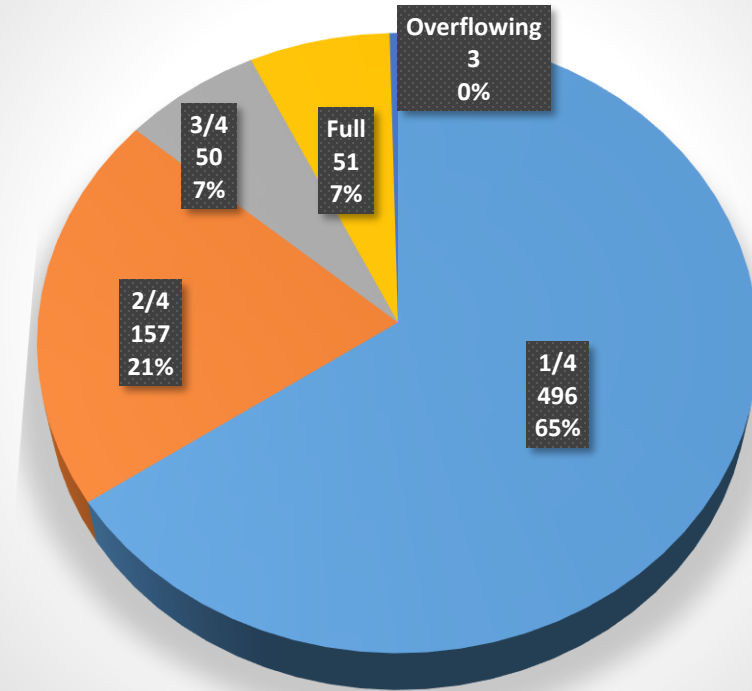
But others were consistently full

Kerbside bins - average fill rate

Across the ten auditable collections;

- 65% of kerbside glass recycling bins were recorded with fill levels of approximately one quarter,
- 21% were recorded as half filled,
- 7% as three quarters full, and
- only 7% as full within the fortnightly service.

Kerbside Glass Recycling - Average Fill Levels –
Trial-to-date - March through July 2020





Utilisation of communal glass recycling bins



Rollout began with a single bin



And quickly grew to two



Then became three within weeks of the trial commencing

Overflowing communal glass recycling bins



Communal bin contamination



Main contaminants found were lids and caps, dog poop bag or some odd containers

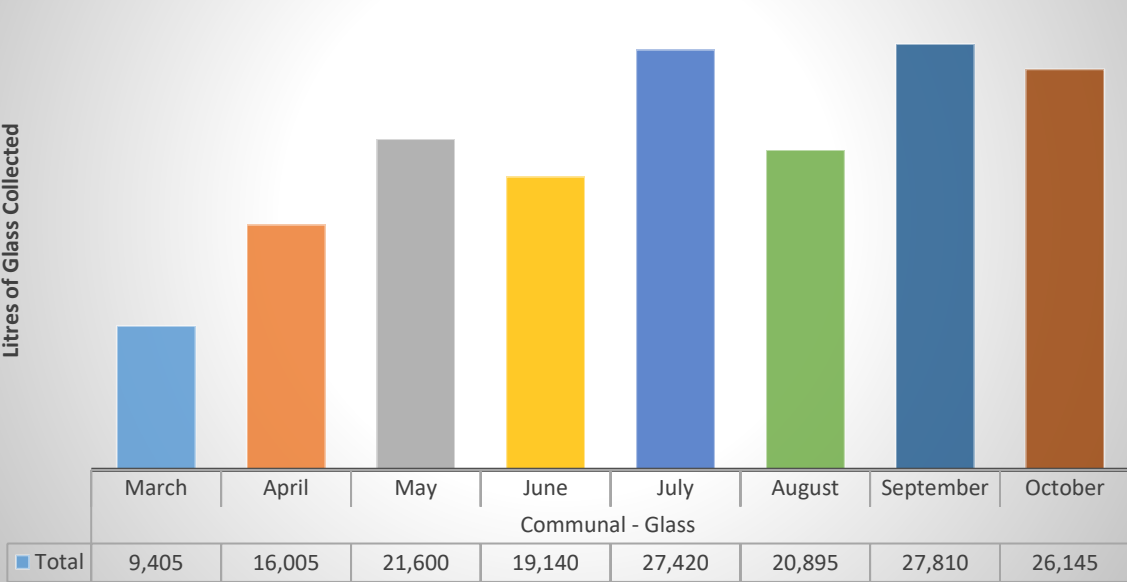


Usage rate

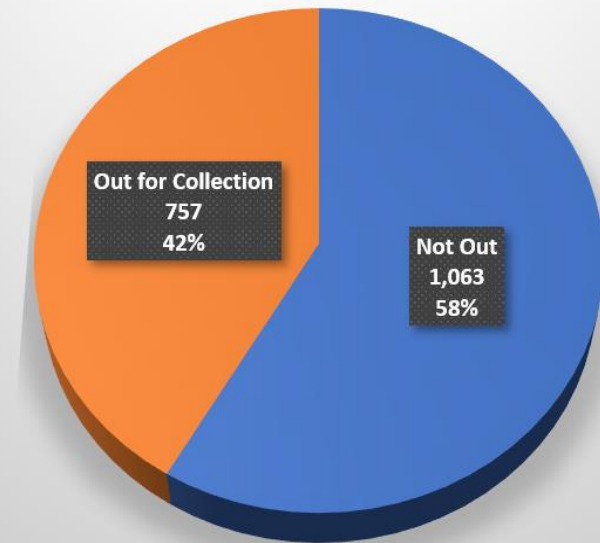


Communal Glass Recycling - Litres Collected - March to October 2020

Litres of Glass Collected



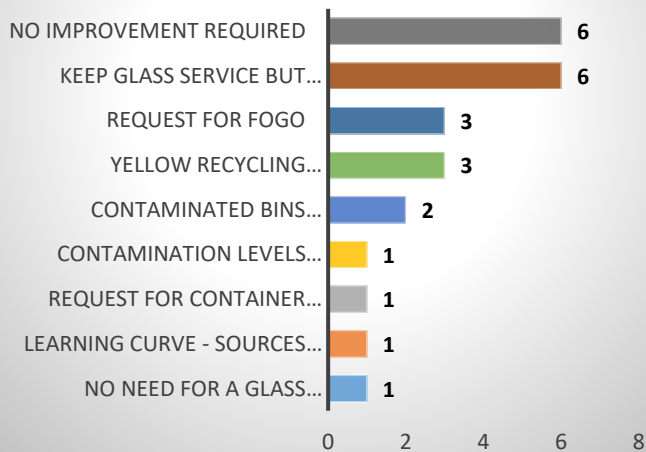
Kerbside Glass Recycling - Utilisation - Bin out for Collection? - March through July 2020



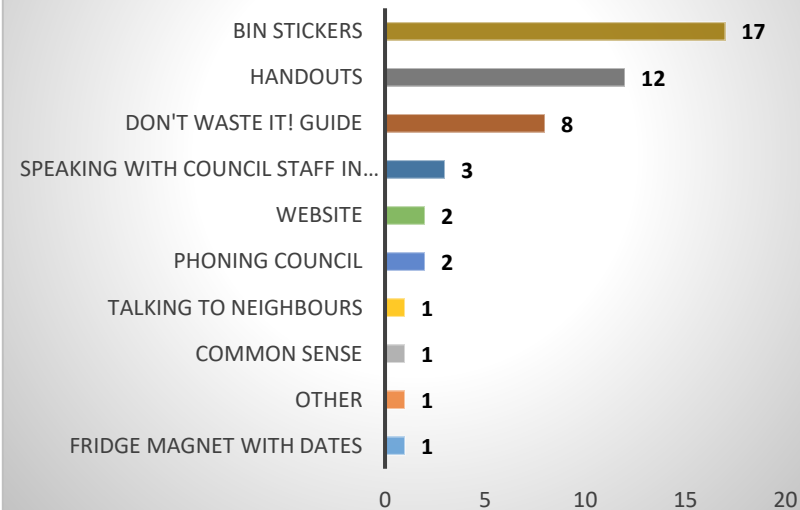


Survey – What did our residents say?

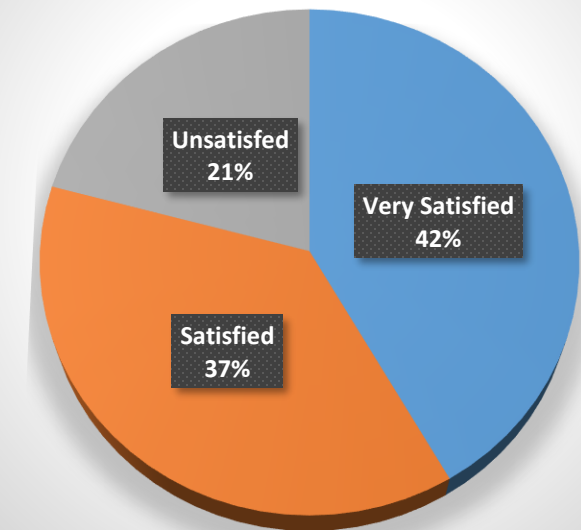
Is there anything about the glass recycling trial that could have been improved?



What has been the most helpful guide to assist you in adopting the glass recycling process?



How satisfied are you with the glass recycling service?



Post kerbside trial – Garden City



Garden city residents
had kerbside bins

Garden city residents now
have two communal bins.



Next steps...

Kerbside FOGO rollout - Elwood



Communal FOGO rollout



Communal glass and FOGO recycling hubs



Communal FOGO recycling hubs





Communal glass and FOGO recycling hubs

Communal glass recycling hubs

1. Little Finlay Reserve, Albert Park
2. Buckingham Reserve, Port Melbourne
3. Corner of Park and Nelson Roads, South Melbourne
4. Lyell Iffla Reserve, South Melbourne
5. **Sol Green Reserve, South Melbourne**
6. Alma Park West, St Kilda East
7. **HR Johnson Reserve, St Kilda West**

Communal FOGO recycling hubs

1. Clarke Reserve, Elwood
2. Hewison Reserve, East St Kilda
3. **HR Johnson Reserve, St Kilda West**
4. Lagoon Reserve, Port Melbourne
5. Next to the Rats of Tobruk Reserve, Albert Park
6. **Sol Green Reserve, South Melbourne**
7. Walter Reserve, Port Melbourne

Currently, two out of fourteen locations have both glass and FOGO recycling bins available.



Container Deposit Scheme (CDS)

A new and easy way to recycle drink containers is coming to Victoria

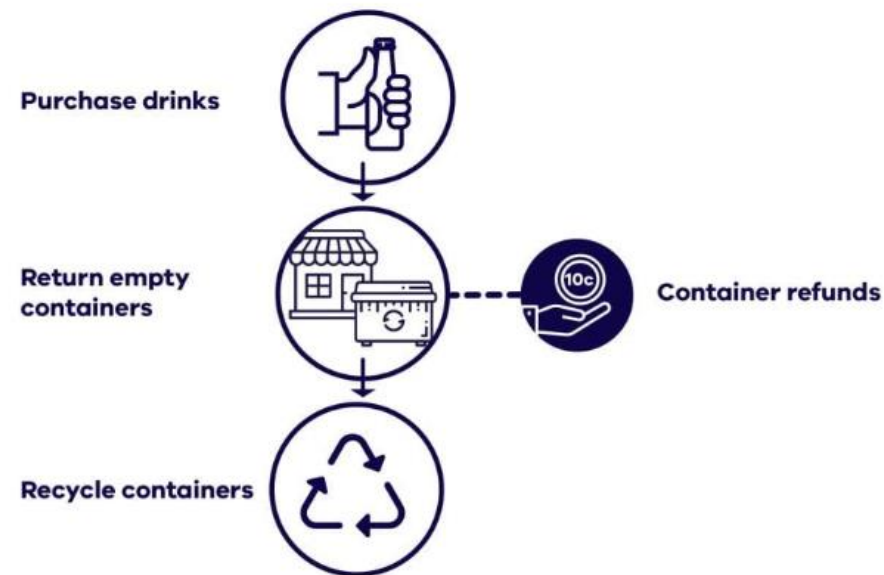
The container deposit scheme (CDS) will reward Victorians with a 10-cent refund for every eligible can, carton and bottle they return.

It is part of important work that is transforming Victoria's waste and recycling system.



Victorians use more than 3 billion drink containers every year. Sadly, many are not recycled, ending up in landfill and as litter across our state

How it will work



Is this a new kind of kerbside communal glass recycling bin?





Will a communal component work for other Councils?



