

## Attachment 1: Glass Service options - cost, risk and benefit

### Options Group A: Not implement a glass collection service

Option	Continued advocacy until regulations are made	Not implement a mandatory glass bin service at all
<b>Cost</b>	Within staff time and shared amongst 34 councils	Modelled at approximately \$250K per year in non-compliance costs (or \$3.50 per household) increasing each year with indexation. Non-compliance cost could be higher.
<b>Risk</b>	Reputational Political	Ongoing non-compliance Reputational Political
<b>Benefit</b>	Addresses a community lack of need or desire for a fourth bin which is low  Allows time for analysis of CDS impacts and benefits  Allows time for a national CDS  No additional trucks on roads and no extra emissions	Addresses a community lack of need or desire for a fourth bin which is low  Allows time for analysis of CDS impacts and benefits  Allows time for a national CDS  No additional trucks on roads and no extra emissions

### Options Group B: A monthly glass bin collection service – varied implementation timeframes

Option	A monthly mandatory glass bin service from 1 July 2027				Delay a monthly mandatory glass bin service implementation to 1 July 2030				Delay a monthly mandatory glass bin service implementation to 1 July 2033			
<b>Cost</b>		1 <sup>st</sup> year (2027-28)*#	First 3 years*	4 <sup>th</sup> year (2030-31)		1 <sup>st</sup> year (2030-31)*#	First 3 years*	4 <sup>th</sup> year (2033-34)		1 <sup>st</sup> year (2033-34)*#	First 3 years*	4 <sup>th</sup> year (2036-37)
	Per hh	\$50	\$129	\$22	Per hh	\$63	\$146	\$24	Per hh	\$84	\$183	\$31

Option	A monthly mandatory glass bin service from 1 July 2027	Delay a monthly mandatory glass bin service implementation to 1 July 2030	Delay a monthly mandatory glass bin service implementation to 1 July 2033												
	<table border="1"> <tr> <td>Total</td><td>\$3.4M</td><td>\$9.0M</td><td>\$1.6M</td></tr> </table> <p>*years 1 to 3 includes glass bin amortisation # year 1 costs include staffing, communications, bin distribution depot costs</p>	Total	\$3.4M	\$9.0M	\$1.6M	<table border="1"> <tr> <td>Total</td><td>\$4.6M</td><td>\$10.6M</td><td>\$1.8M</td></tr> </table> <p>Includes possible non-compliance costs *years 1 to 3 includes glass bin amortisation # year 1 costs include staffing, communications, bin distribution depot costs</p>	Total	\$4.6M	\$10.6M	\$1.8M	<table border="1"> <tr> <td>Total</td><td>\$6.3M</td><td>\$13.4M</td><td>\$2.3M</td></tr> </table> <p>Includes possible non-compliance costs *years 1 to 3 includes glass bin amortisation # year 1 costs include staffing, communications, bin distribution depot costs</p>	Total	\$6.3M	\$13.4M	\$2.3M
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<b>Risk</b>	<p>Community need or desire for a fourth bin is low</p> <p>Low bin presentation (approx. 30%)</p> <p>Does not allow time for analysis of CDS impacts and benefits</p> <p>Does not allow time for a national CDS</p> <p>Possible contamination and non-compliance penalties if recycling processing contractor or State Government audits find glass in garbage or recycling bins</p> <p>Additional 2-3 trucks on roads and a 10% increase in emissions</p>	<p>Modelled possible non-compliance with draft Service Standards (\$11.20 per household or \$820K for 3 years from 1 July 2027). Non-compliance cost could be higher</p> <p>The longer service is delayed the higher the current collection contract costs are due to glass collection vehicle amortisation over a shorter period</p> <p>Additional 2-3 trucks on roads and a 10% increase in emissions</p>	<p>Modelled possible non-compliance with draft Service Standards (\$24 per household or \$1.8M for 6 years from 1 July 2027). Non-compliance cost could be higher</p> <p>Glass processing costs are expected after the current contract expires in Sept 2033</p> <p>Additional 2-3 trucks on roads and a 10% increase in emissions</p>												
<b>Benefit</b>	<p>Compliant with draft Service Standards</p>	<p>Addresses, in the short term, a community lack of need or desire for a fourth bin which is low</p> <p>There is a possibility of this option being a State Government compromise</p> <p>Allows time for analysis of CDS impacts and benefits</p> <p>Allows time for a national CDS</p>	<p>Addresses, in the medium term, a community lack of need or desire for a fourth bin which is low</p> <p>New collection contract after the current contract expires in Sept 2033 and greater ability to negotiate costs of a four bin service over an entire contract term</p> <p>Allows time for analysis of CDS impacts and benefits</p>												

Option	A monthly mandatory glass bin service from 1 July 2027	Delay a monthly mandatory glass bin service implementation to 1 July 2030	Delay a monthly mandatory glass bin service implementation to 1 July 2033
			Allows time for a national CDS

### **Options Group C - Alternate collection frequencies of a glass bin collection service**

Option	A mandatory bi-monthly glass bin service from 1 July 2027	A mandatory quarterly glass bin service from 1 July 2027	A mandatory six-monthly glass bin service from 1 July 2027	A mandatory once per year glass bin service from 1 July 2027																								
Cost	<table><tr><td></td><td>1<sup>st</sup> year (2027-28)*#</td></tr><tr><td>Per hh</td><td>\$41</td></tr><tr><td>Total</td><td>\$2.8M</td></tr></table>		1 <sup>st</sup> year (2027-28)*#	Per hh	\$41	Total	\$2.8M	<table><tr><td></td><td>1<sup>st</sup> year (2027-28)*#</td></tr><tr><td>Per hh</td><td>\$38</td></tr><tr><td>Total</td><td>\$2.6M</td></tr></table>		1 <sup>st</sup> year (2027-28)*#	Per hh	\$38	Total	\$2.6M	<table><tr><td></td><td>1<sup>st</sup> year (2027-28)*#</td></tr><tr><td>Per hh</td><td>\$34</td></tr><tr><td>Total</td><td>\$2.3M</td></tr></table>		1 <sup>st</sup> year (2027-28)*#	Per hh	\$34	Total	\$2.3M	<table><tr><td></td><td>1<sup>st</sup> year (2027-28)*#</td></tr><tr><td>Per hh</td><td>\$34</td></tr><tr><td>Total</td><td>\$2.3M</td></tr></table>		1 <sup>st</sup> year (2027-28)*#	Per hh	\$34	Total	\$2.3M
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Option	A mandatory bi-monthly glass bin service from 1 July 2027	A mandatory quarterly glass bin service from 1 July 2027	A mandatory six-monthly glass bin service from 1 July 2027	A mandatory once per year glass bin service from 1 July 2027
	<p>Possible contamination and non-compliance penalties if recycling processing contractor or State Government audits find glass in garbage or recycling bins</p> <p>Additional 2-3 trucks on roads and a 10% increase in emissions</p>	<p>Possible contamination and non-compliance penalties if recycling processing contractor or State Government audits find glass in garbage or recycling bins</p> <p>Additional 2-3 trucks on roads and a 10% increase in emissions</p>	<p>Possible contamination and non-compliance penalties if recycling processing contractor or State Government audits find glass in garbage or recycling bins</p> <p>Additional 2-3 trucks on roads and a 10% increase in emissions</p>	<p>Does not allow time for a national CDS</p> <p>Possible contamination and non-compliance penalties if recycling processing contractor or State Government audits find glass in garbage or recycling bins</p> <p>Additional 2-3 trucks on roads and a 10% increase in emissions</p>
<b>Benefit</b>	Compliant with draft Service Standards	Compliant with draft Service Standards	Compliant with draft Service Standards	Compliant with draft Service Standards

#### **Options Group D – An opt in glass bin collection service, via hard waste, or a drop off service**

Option	An opt in (40%) monthly glass bin service from 1 July 2027	A centralised collection service (a drop off service)	A collection once per year as part of the hard waste service						
Cost	<table><tr><td></td><td>1<sup>st</sup> year (2027-28)*#</td></tr><tr><td>Per hh</td><td>\$53</td></tr><tr><td>Total</td><td>\$3.6M</td></tr></table>		1 <sup>st</sup> year (2027-28)*#	Per hh	\$53	Total	\$3.6M	Year 1 \$14 per hh (\$950K) then ongoing (\$9 per hh (\$630K+per year)	Minimal cost (to be confirmed)  Modelled at approximately \$250K per year in non-compliance costs (or \$3.50 per household) increasing each year with indexation. Non-compliance cost could be higher
		1 <sup>st</sup> year (2027-28)*#							
	Per hh	\$53							
	Total	\$3.6M							
	Includes possible non-compliance costs								
*years 1 to 3 includes glass bin amortisation									

Option	An opt in (40%) monthly glass bin service from 1 July 2027	A centralised collection service (a drop off service)	A collection once per year as part of the hard waste service
	# year 1 costs include staffing, communications, bin distribution depot costs		
<b>Risk</b>	<p>Low bin presentation</p> <p>Possible non-compliance with Service Standards (A minimum of \$250K per year in non-compliance costs (or \$3.50 per household) increasing each year with indexation)</p> <p>Does not allow time for analysis of CDS impacts and benefits</p> <p>Does not allow time for a national CDS</p> <p>Possible contamination and non-compliance penalties if recycling processing contractor or State Government audits find glass in garbage or recycling bins</p> <p>Additional 2-3 trucks on roads and a 10% increase in emissions</p>	<p>Modelled at approximately \$250K per year in non-compliance costs (or \$3.50 per household) increasing each year with indexation. Non-compliance cost could be higher</p> <p>Ongoing non-compliance</p> <p>Reputational</p> <p>Political</p> <p>Access limitations for residents across townships</p> <p>Site location and access limitations</p> <p>Dumping and contamination</p> <p>Low usage</p> <p>Low resource recovery rates</p> <p>Possible contamination and non-compliance penalties if recycling processing contractor or State Government audits find glass in garbage or recycling bins</p> <p>Additional trucks on roads and extra emissions</p>	<p>Modelled at approximately \$250K per year in non-compliance costs (or \$3.50 per household) increasing each year with indexation. Non-compliance cost could be higher</p> <p>Ongoing non-compliance</p> <p>Reputational</p> <p>Political</p> <p>Possible contamination and non-compliance penalties if recycling processing contractor or State Government audits find glass in garbage or recycling bins</p> <p>Low usage</p> <p>No separation and low resource recovery rates</p> <p>OHS risks of collecting glass</p>
<b>Benefit</b>	Addresses a community lack of need or desire for a fourth bin which is low	Addresses a community lack of need or desire for a fourth bin which is low	Addresses a community lack of need or desire for a fourth bin which is low

Option	An opt in (40%) monthly glass bin service from 1 July 2027	A centralised collection service (a drop off service)	A collection once per year as part of the hard waste service
		<p>Allows for analysis of CDS impacts and benefits</p> <p>Allows for a national CDS</p>	<p>Allows access to a service</p> <p>Allows for analysis of CDS impacts and benefits</p> <p>Allows for a national CDS</p>