

COMMUNITY WIDE CURBSIDE RESIDENTIAL ORGANIC WASTE COLLECTION PROGRAM

PURPOSE:

To seek direction on the design of a community-wide residential organic waste collection program, specifically as it relates to shifting to an alternating bi-weekly collection schedule for garbage and recycling, and the option to opt-out of organics collection for residents who backyard compost or otherwise divert organics from landfill.

COUNCIL STRATEGIC PLAN

Supports Council's strategic priorities and areas of focus regarding:

- **Governance and Accountability**
 - **Asset Management:** We proactively plan for the repair and replacement of our infrastructure.
 - **Community Engagement:** We are committed to engaging and connecting with Kamloops residents and stakeholders.
 - **External Relationships:** We understand the importance of maintaining and improving key relationships.
 - **Fiscal Responsibility:** We are fiscally responsible and accountable.
- **Vibrant Economy**
 - **Business Health:** We cultivate a positive business environment and maintain a framework that facilitates jobs, economic sustainability, and growth.
 - **Economic Strength:** We support initiatives that increase our competitive advantage, cultivate growth, and support our residents.
 - **Partnerships:** We continue to nurture partnerships with key agencies and organizations.
- **Environmental Leadership**
 - **Climate Action:** We enhance the City's resiliency and capacity for mitigating and adapting to the impacts of climate change.
 - **Sustainability:** We implement strategies that reduce our impact on the environment.

SUMMARY

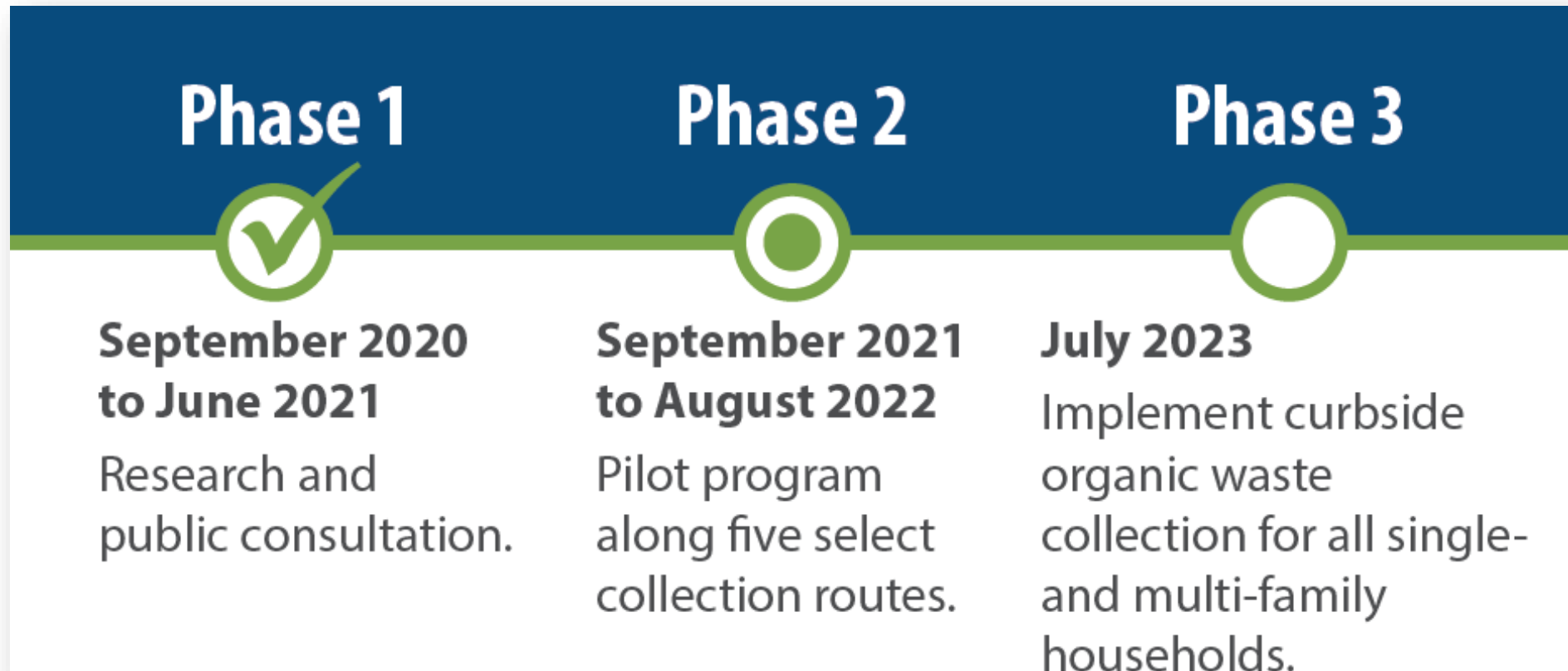
- **Organic waste collection supports several plans and corporate directions:**

KAMPLAN's goal to reduce waste, adopt a zero-waste philosophy and implement waste diversion programs

TNRD SWMP reduce waste per capita to 500 kg/person by 2028 (2021 City disposal rate was 720 kg/person)

CCAP reduce waste to landfill by 50% by 2028 and 90% by 2050

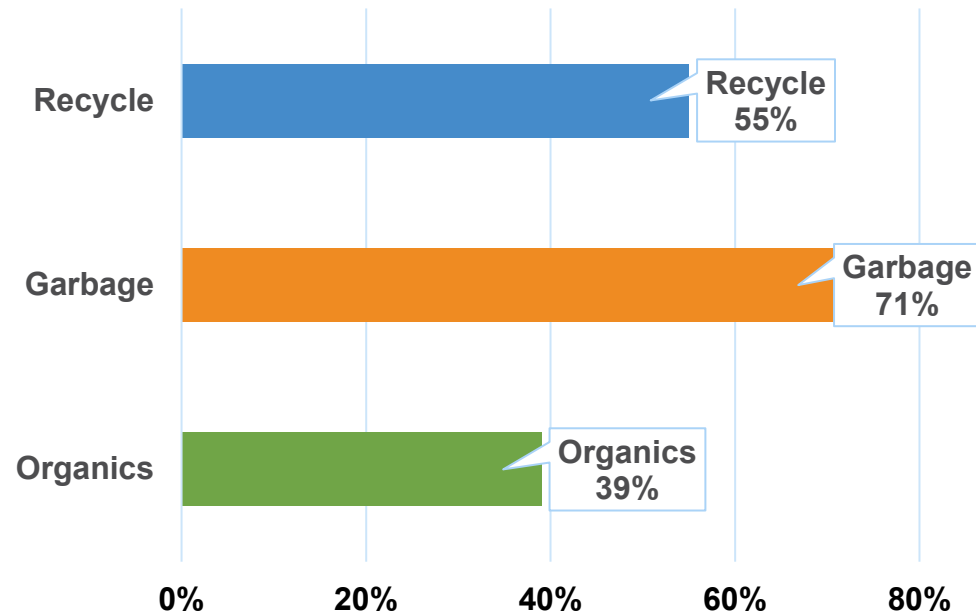
TIMELINE



PILOT PROGRAM PERFORMANCE

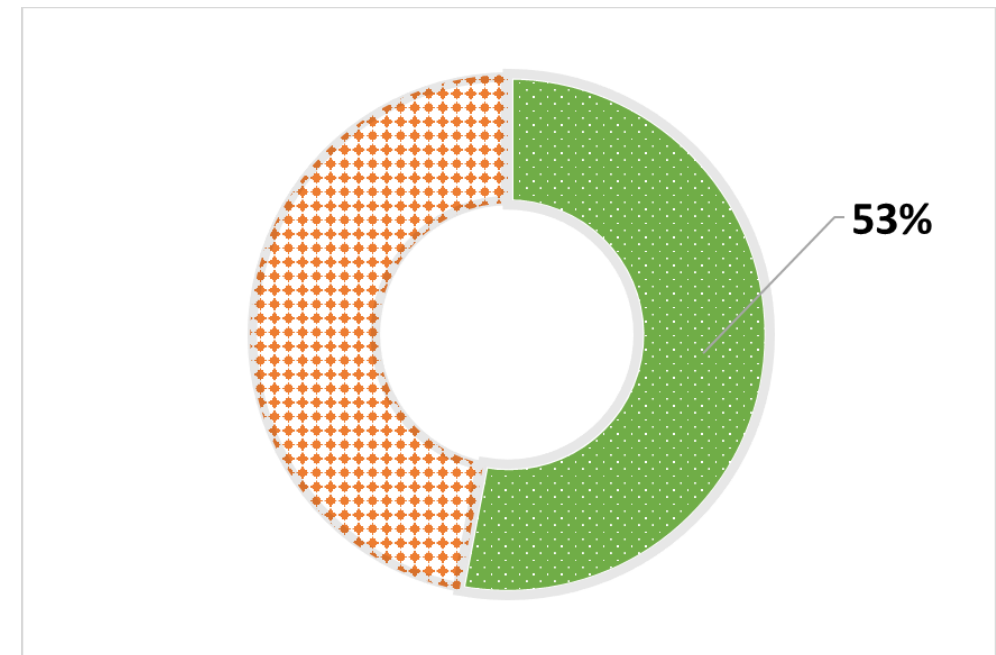
Participation Rate

Proportion of residents setting their cart out for collection



Capture Rate

Proportion of organic waste diverted from garbage (December audit)



PILOT PROGRAM PERFORMANCE



3 years
2059 to 2062

Landfill life expectancy

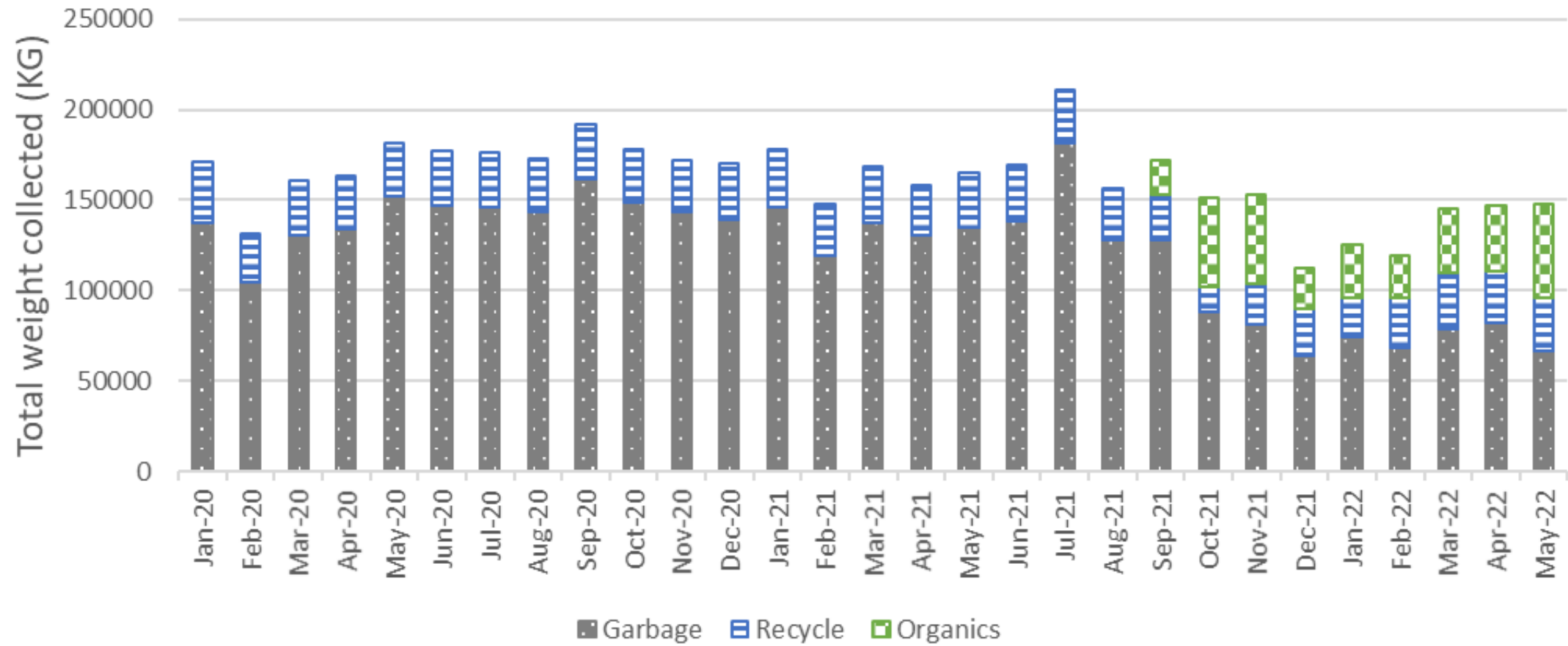
Number of years of landfill airspace saved

\$420,000
per year

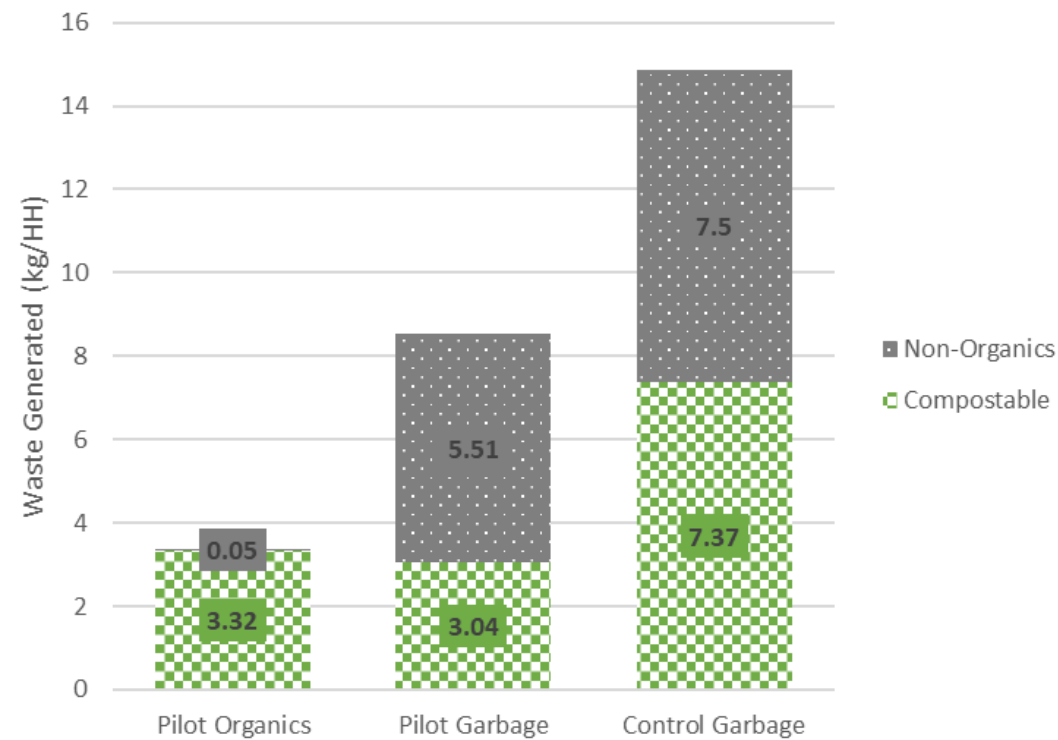
Value of landfill airspace

Less the operating costs to fill the airspace

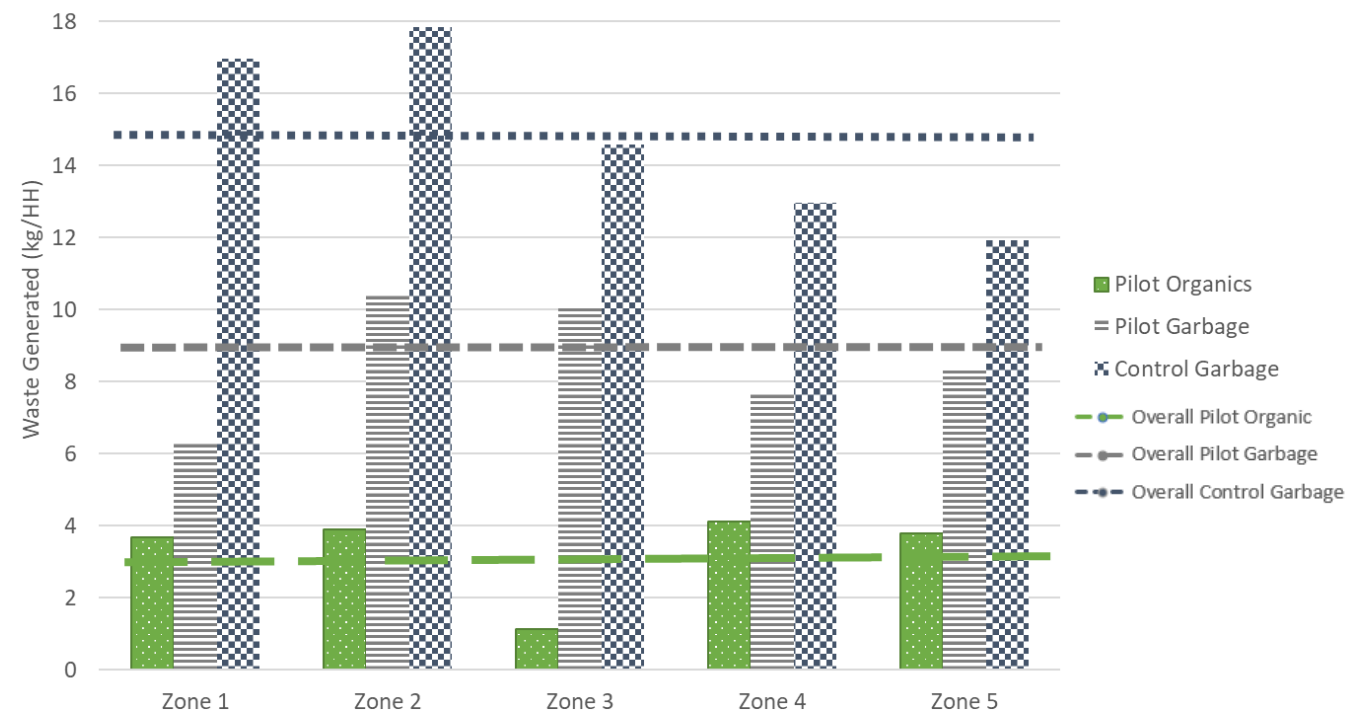
City Residential Collection Organics Pilot Routes Pre and Post Weights



AUDIT HIGHLIGHTS



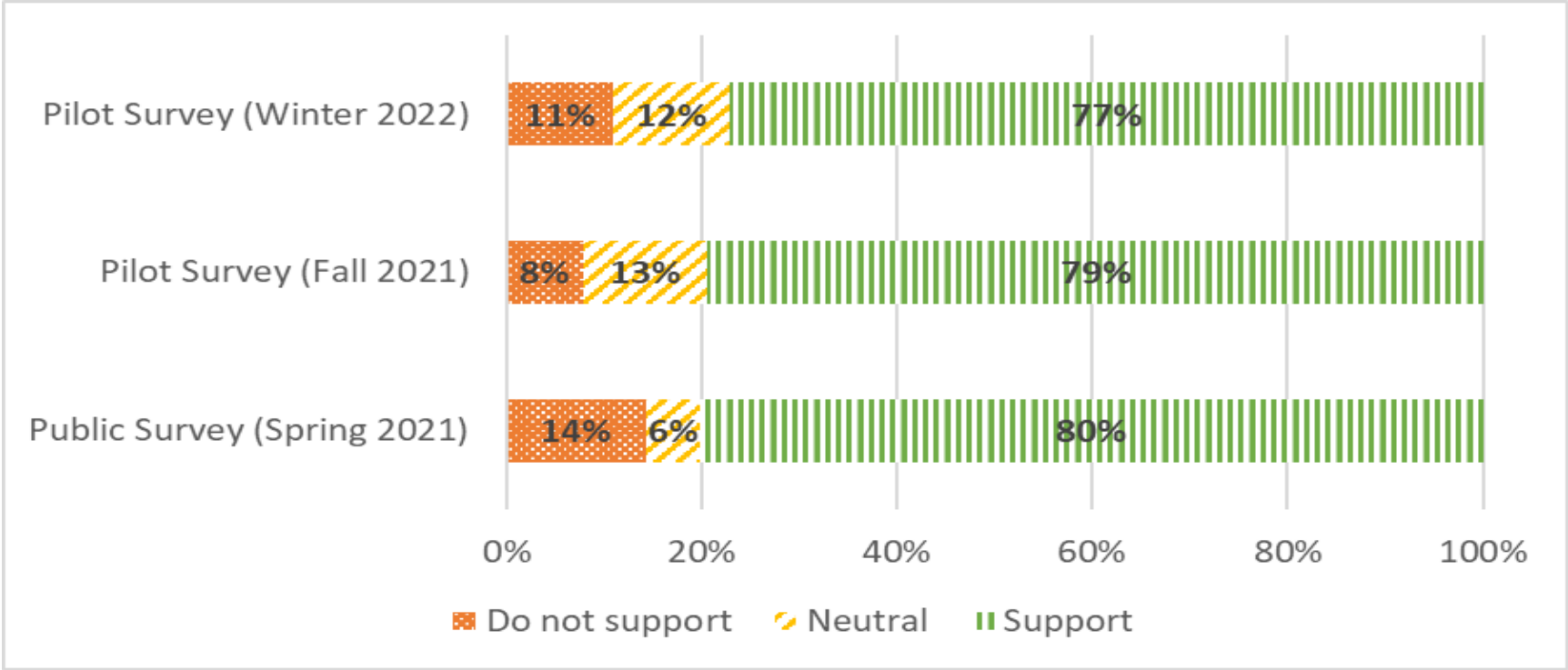
Weekly Waste Generation Comparison



Waste Generation Comparison Across 5 Zones

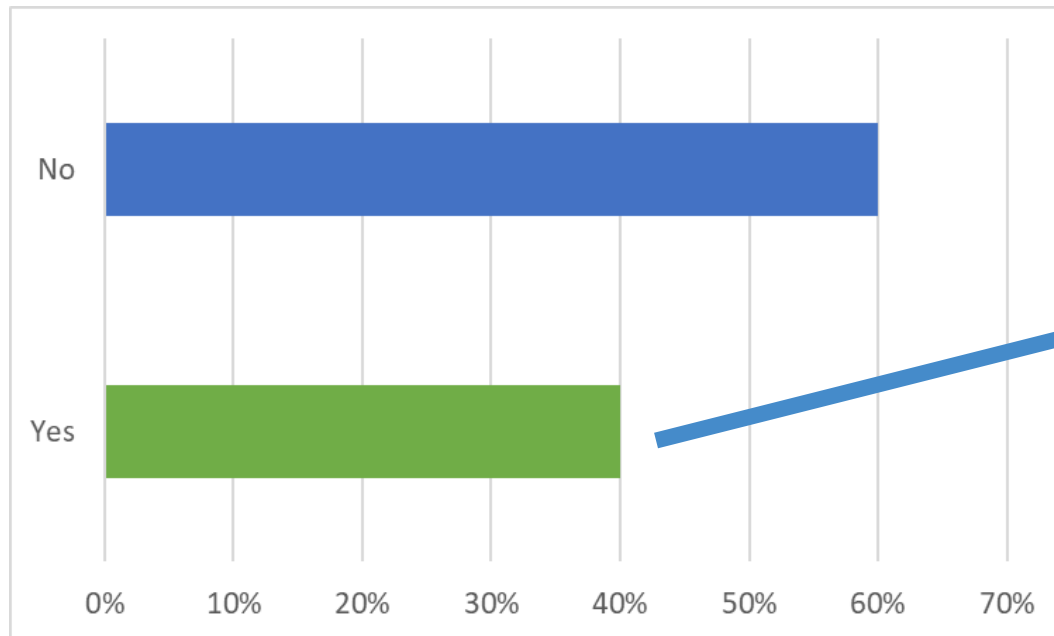
COMMUNITY ENGAGEMENT

Level of support for curbside organic waste collection

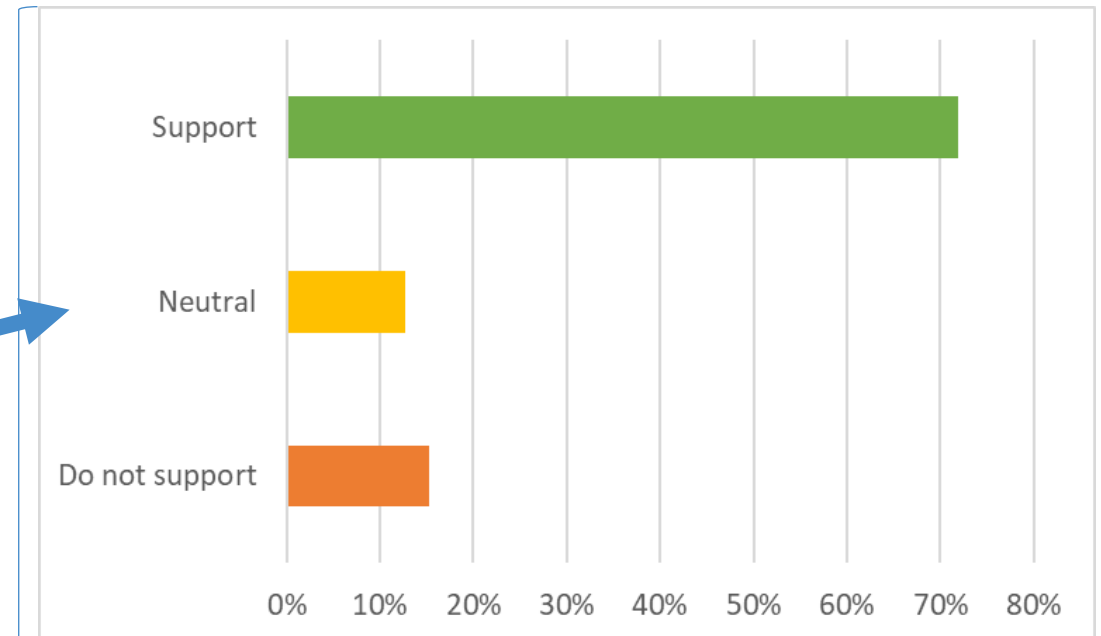


PILOT PARTICIPANT ENGAGEMENT

Are you a home/ backyard composter?

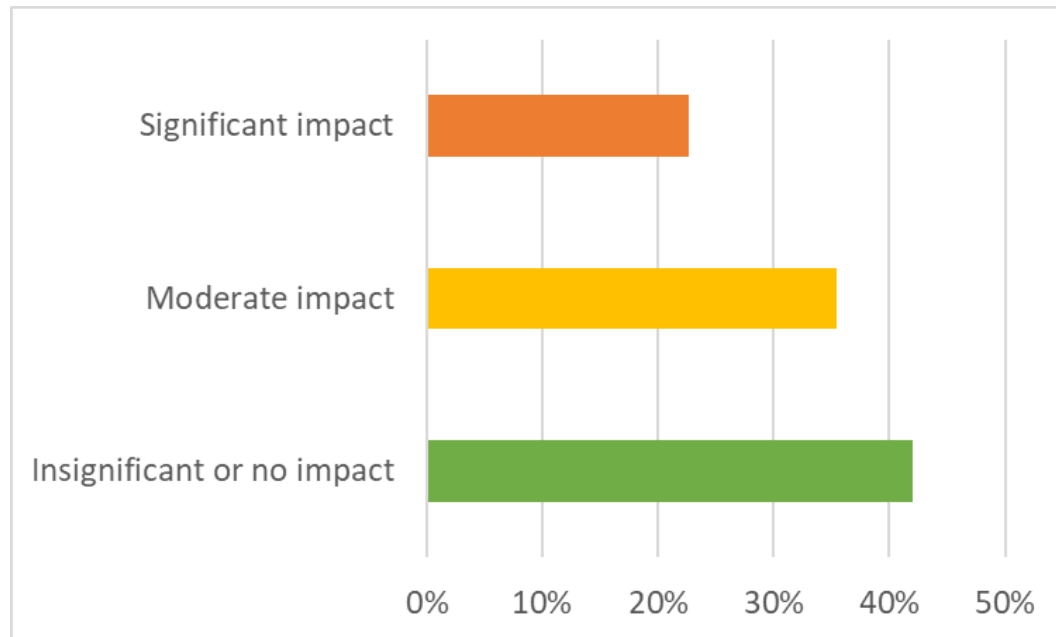


As a home composter, what is your level of support for organic waste collection?

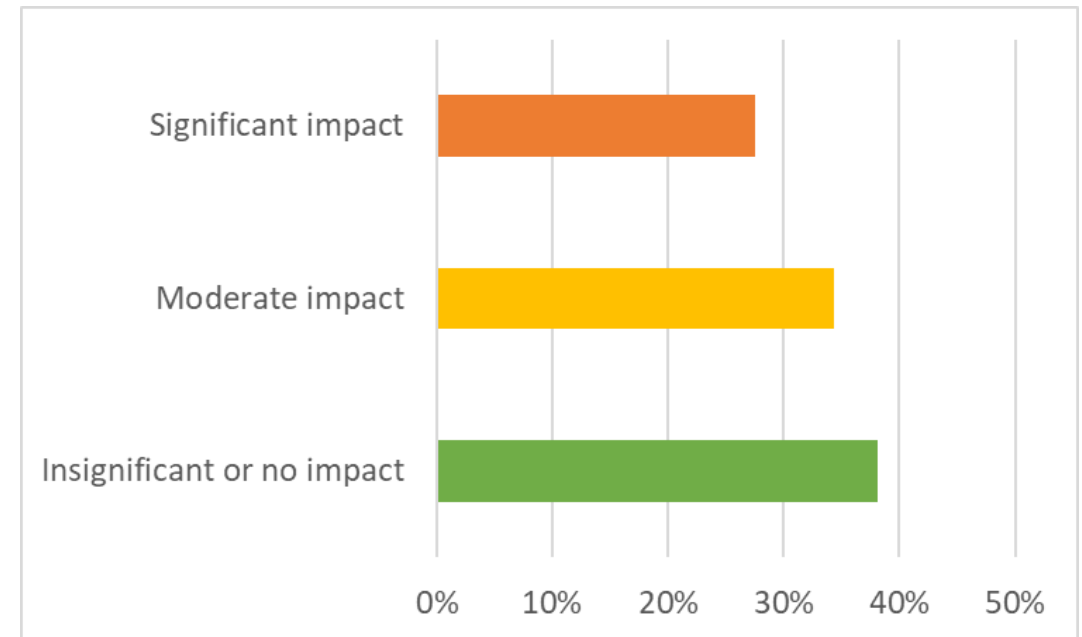


PILOT PARTICIPANT ENGAGEMENT

Level of impact of bi-weekly garbage collection



Level of impact of bi-weekly recycling collection



SUMMARY

- **Solid Waste and Recyclables Amendment Bylaw 40-68 includes:**
 - Authorizing a service for organic waste collection and adding a utility for the service
 - Adding definitions and changing clauses to account for the new service
 - Adding a fee for larger sized recycling cart
 - Changing service levels for garbage and recycling to bi-weekly
 - Increasing the rate for the 360 L garbage cart

SUMMARY

- **Municipal Ticket Information Amendment Bylaw 43-17 includes offences and penalties for:**
 - Failure to properly separate or dispose organics
 - Failure to properly store wildlife attractants



ALTERNATIVES

Recommended

- Implementation of a 4-day collection schedule
- City-supplied short-term supply of bin liners

Not Recommended

- Opt-out option for backyard composters
- Weekly collection of garbage and/ or recycling
- Bear-resistant containers



SUMMARY



Two-pass System

Single-pass Challenges:

- Contamination and cross-contamination

Two-pass Benefits:

- Increased payload
- Reduced mechanical and structural failures



Fleet Impacts

Three more trucks needed to accommodate:

- Growth
- Commercial waste



Personnel

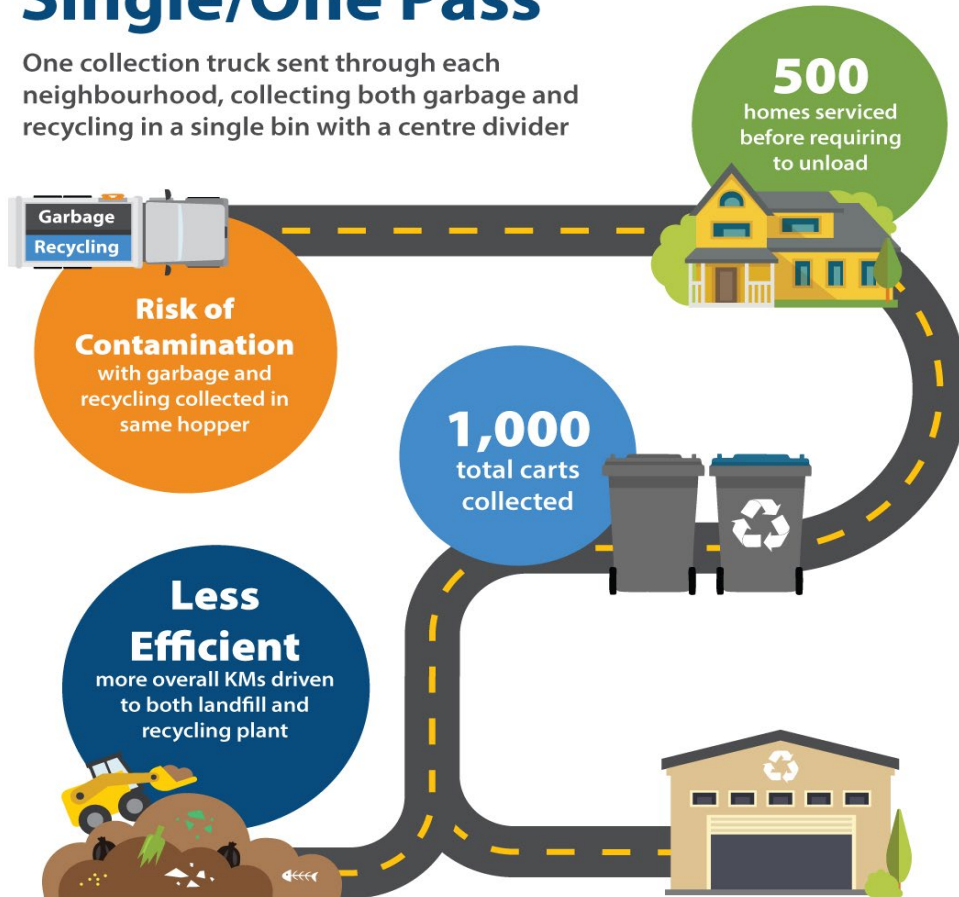
Request for four FTEs:

- Two FTE operators
- Two FTEs for administration

COLLECTION MODELS

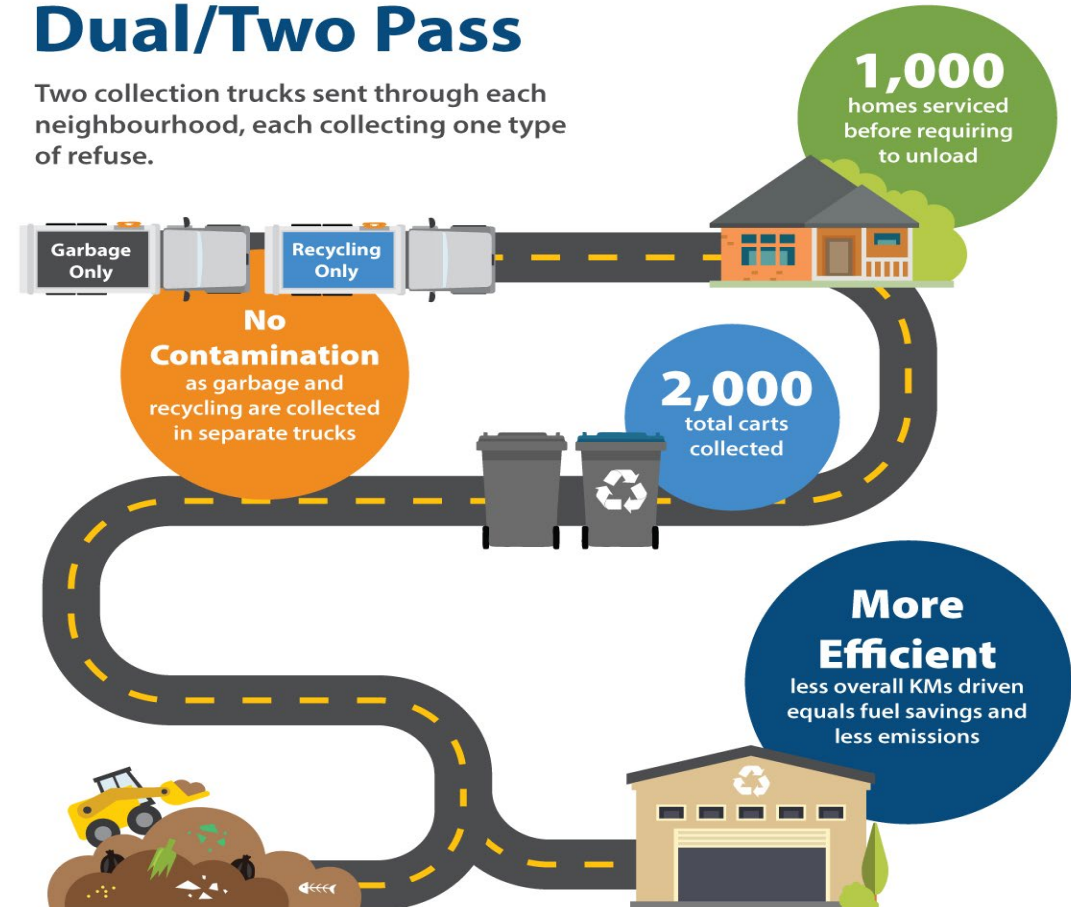
Single/One Pass

One collection truck sent through each neighbourhood, collecting both garbage and recycling in a single bin with a centre divider



Dual/Two Pass

Two collection trucks sent through each neighbourhood, each collecting one type of refuse.





FINANCIAL IMPLICATIONS

Operating Expenses

Budget Item	Amount
Solid Waste Operator and Truck	\$200,000
Solid Waste Operator and Truck	\$200,000
Solid Waste Reduction Coordinator and Vehicle	\$100,000
Solid Waste Analyst and Vehicle	\$100,000
Increase in Annual Operating Costs	\$600,000



FINANCIAL IMPLICATIONS

Capital Expenses

Phase	Early Cost Estimates (Dec 20 Council meeting)	Budgeted Costs (revised)	Actual Costs	Grant Funding Awarded	Net Cost to City
Phase 3 – Community-wide Implementation (capital)	\$3,510,000	\$4,008,633	*pending	\$1,788,233	\$2,220,400

IMPLEMENTATION PLAN

Activity	Timing
Present Amended Solid Waste and MTI Bylaws for Adoption	June 2022
Secure Organics Processing Service Agreement	July 2022
Place Orders for Curbside Carts and Kitchen Bins	July 2022
Place Order for Additional Solid Waste Collection Trucks	July 2022
Develop and Implement Long-Term Public Education Strategy	June 2022–December 2024
Modify Collection Routes	June 2022–October 2022
Deliver Curbside Carts and Kitchen bins	June 2023
Begin Community-Wide Collection	September 2023

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RECOMMENDATION:

That the Committee of the Whole recommend that Council authorize:

- a) Solid Waste and Recyclables Amendment Bylaw No. 40-68, 2022 (Attachment C), be introduced and read a first, second, and third time**
- b) Municipal Ticket Information Amendment Bylaw No. 43-17, 2022 (Attachment “D”), to be introduced and read a first, second, and third time**

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RECOMMENDATION:

- c) subject to adoption of Bylaw No. 40-68, authorize:**
 - i) \$1,200,400 from the Solid Waste Reserve for additional capital costs including \$120,000 for City-provided kitchen bin liners for community-wide implementation**
 - ii) the addition of four FTEs to support administration and operations**
- d) The Corporate Services Director to update the 2022-2026 Financial Plan accordingly**