



BLUE BOX TRANSITION AND SOLID WASTE COLLECTION CONTRACT

PRESENTED TO: INFRASTRUCTURE AND COMMUNITY INVESTMENT COMMITTEE

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Date: June 22nd, 2023



Agenda

- Review Provincial Regulation and Municipal Circular Economy Policy Framework
- Highlight Blue Box Transition Implementation Details
- New Waste Collection Contract System Adjustments
- Waste Management System Resourcing Requirements
- Next Steps

Program Legislation

- On June 9, 2016, the province enacted the Resource Recovery and Circular Economy Act (RRCEA).
- RRCEA required the development of a Strategy for a Waste Free Ontario: Building the Circular Economy.



Barrie's Circular Economy

Provincial Circular Economy details and recommended municipal framework outlined to Council in a memo (May 25, 2020)



REUSE

Objective

Create and foster a culture of reuse.

Goal

Extend the lifecycle of goods, products, and resources through local repair, upgrade and resell initiatives.

Priority Areas

Repair
Share
Behaviour



RECYCLE

Objective

Ensure residents and businesses know about and are confident using recycling systems.

Goal

Maximize the recycling captured for processing.

Priority Areas

Blue Box
Producer Responsibility
Behaviour



CONSUME

Objective

Rethink the role that food can play in supporting a circular economy.

Goal

Minimize food wastage from all sources.

Priority Areas

Food Production &
Consumption
Food Diversion
Behaviour



RECOVER

Objective

Recover energy and materials after other efforts have been exhausted.

Goal

Identify the economic value of waste and maximize local energy benefit from waste streams.

Priority Areas

Residual Waste
Water
Behaviour

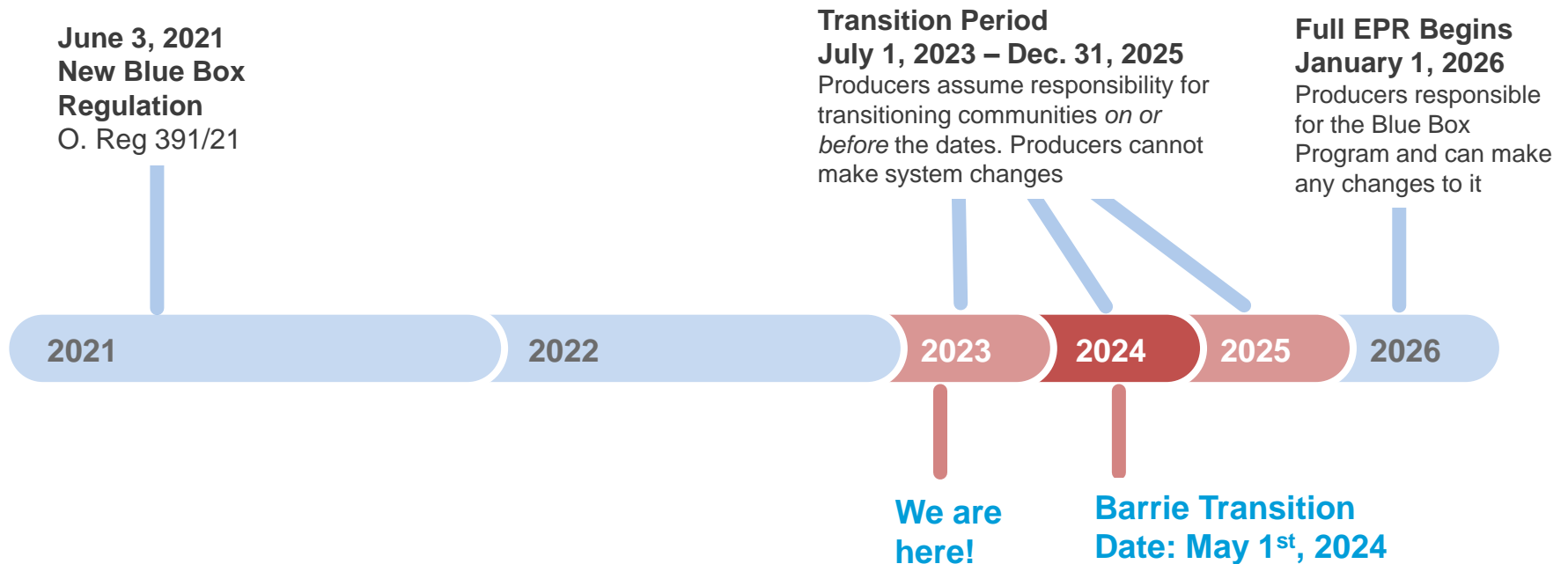
Barrie's Circular Economy Policy Framework



- On March 22, 2021, Council approved Motion 21-G054 for Circular Economy Approach.
- Key initiatives include:
 - Transition waste programs to extended producer responsibility model.
 - Maximize waste diversion at City owned facilities and ICI Sector.
 - Reduce street litter and illegal dumping.
 - Expand organics diversion.

Blue Box Transition Timeline

Transfers the responsibility for blue box collection, processing, and marketing from Ontario Municipalities to the Producers



Blue Box Transition

Eligible Sources



single-family homes



seasonal dwellings



multi-unit residential buildings



public & private schools



specified retirement & long-term care homes



specified public spaces

Non-Eligible Sources



Industrial or commercial properties



Specified for-profit organizations



Places of worship



Municipal buildings or facilities (e.g., libraries, arenas)



Daycare



Campgrounds and trailer-parks (without permanent or seasonal households)



Commercial Farms

Source: CIF and O.Reg 391/21

Barrie's Blue Box Transition



- Collection contract specifications designed around original Blue Box transition rules that included Parks Interiors as eligible sources.
- Recent RPPRA interpretation of Regulation now deems Blue Box collection from Parks Interiors as ineligible sources during the transition period (May 1st, 2024 – December 31st, 2025).

New Solid Waste Collection Contract



- Existing waste collections contract with Waste Connections will expire on April 30th, 2024.
- New waste collection contract with the Emterra Group begins May 1st, 2024.
 - Extensive collaboration with Finance, Legal Services and IGM.
 - Eight (8) year term with option for two (2) one (1) year extensions.

New Solid Waste Collection Contract

- Waste collection contract transition date corresponds with Barrie's Blue Box transition date.
- Rising manual system costs and technological advances led to automated cart collection.
- Barrie's collection contract will incorporate the use of the existing manual collection method from May 1st, 2024, to September 7th, 2025.
- On September 8th, 2025, Barrie will transition to automated collection with the use of carts for all materials except yard waste.



Carts Specifications – Volume, Size and Material Streams

360 Litre Cart
Garbage (IC&I only)
Recyclable Material (IC&I only)



Specifications	IN/LB	CM/KG
Capacity (Gallons / Liters)	95 Gal	360 L
Overall Depth (D)	33.3	84.5
Overall Width (W)	29.2	74.1
Overall Height with Lid (H)	43.5	110.4

240 Litre Cart
Garbage



Specifications	IN/LB	CM/KG
Capacity (Gallons / Liters)	65 Gal	246 L
Overall Depth (D)	26.87	68.24
Overall Width (W)	26.78	68.02
Overall Height with Lid (H)	43.09	109.44
Weight	29.75	13.49

120 Litre Cart
Organic Waste



Specifications	IN/LB	CM/KG
Capacity (Gallons / Liters)	35 Gal	132 L
Overall Depth (D)	24.1	61.2
Overall Width (W)	18.5	47.0
Overall Height with Lid (H)	38.5	97.8
Assembled Weight	22.0	9.9

Key Waste Collections System Changes Under Manual Collection (May 1, 2024 to Sept 7, 2025)



Green bin collection expanded to include pet waste



Green bin collection extended to ICI and City facilities



Improved BIA and Yard waste collection



No collection schedule shifting except for Christmas and New Year

Key Waste Collections System Changes Under Automated Collection (Sept 8, 2025)



Transition to cart collection for garbage, organics and recycling (Non-eligible sources)



Yard waste and battery collections remain manual



Switch to single-stream recycling



Daily to Twice a week collection in BIA

System Resourcing

- Extensive ongoing collaboration with Finance and Access Barrie required for successful roll-out of transitioned services
- Factors influencing system costs include:
 - Sector expansion of organics collection/processing and the inclusion of pet waste.
 - Enhanced collection frequency within the BIA.
 - Curbside collection expanded to multi-res private roads & laneways.
 - Equipment retrofits to accommodate auto-cart collection and the procurement of carts.
 - Transition of eligible blue box collection/processing to the producers.
 - Annual contract cost escalation triggers such as CPI, Fuel Adjustments and adjusted number of stops (serviced units) based on growth.

System Resourcing

Annual Actual and Forecasted Solid Waste Collection Costs

Material Type	2022	2023	2024*	2025**	2026	2027
Garbage	\$973,648	\$999,547	\$2,245,153	\$3,242,004	\$4,058,173	\$4,294,921
Organics	\$2,391,236	\$2,454,843	\$4,526,631	\$5,809,293	\$6,287,413	\$6,656,472
Recycling***	\$1,970,487	\$2,022,902	\$1,194,540	\$732,938	\$672,905	\$694,430
Yard Waste	\$564,942	\$579,970	\$1,138,756	\$1,510,371	\$1,702,595	\$1,793,609
Batteries	N/A	N/A	\$67,303	\$109,936	\$127,980	\$134,869
Total	\$5,900,313	\$6,057,262	\$9,172,383	\$11,404,542	\$12,849,067	\$13,574,300

* Transition from existing contract to manual collection phase of new contract.

** Transition from manual collection phase of new contract to automated collection phase of new contract.

*** Stewardship Ontario subsidy not reflected in reported costs.

System Resourcing – Staffing Requirements

- Barrie is about to embark on significant waste management collection system changes.
- Successful service delivery requires a four (4) year project for extensive transition planning, implementation and system monitoring in the following key areas:
 - Temporary waste management resource within Environmental Sustainability to focus on specialized logistical components such as transitioning to automated cart collection and troubleshooting collection issues related to blue box transition and new contract transition.
 - Temporary communications resource to work in partnership with Environmental Sustainability and Solid Waste Operations staff to design, deliver, monitor, and revise all communications related to system changes.

Next Steps

- Update Waste Collection By-law 2021-003 to align with system changes.
- Maintain connections with CMO, RPRA, AMO, and CIF to stay current on Blue Box transitioning and proposed communication initiatives.
- Foster partnership with Emterra to review and finalize workplans and critical path for a smooth service transition.
- Work with all stakeholders to properly prepare for a new automated cart collection service.
- Develop 2024 Intake Form to include Blue Box collection from parks interiors effective May 1st, 2024, for Council's consideration.
- Begin developing communications strategy to support the various waste management collection system changes.