



**Public Works and Transportation Committee
Electronic Meeting**

**Council Chambers, City Hall
6911 No. 3 Road**

**Wednesday, April 19, 2023
4:00 p.m.**

Pg. # ITEM

MINUTES

PWT-4 *Motion to adopt the **minutes** of the meeting of the Public Works and Transportation Committee held on March 22, 2023.*



NEXT COMMITTEE MEETING DATE

May 17, 2023, (tentative date) at 4:00 p.m. in the Council Chambers.

PLANNING AND DEVELOPMENT DIVISION

- 1. AZURE ROAD NEIGHBOURHOOD: RESULTS OF RESIDENTIAL PERMIT PARKING REVIEW**
(File Ref. No. 10-6455-01) (REDMS No. 7172178)

PWT-7

See Page PWT-7 for full report

Designated Speaker: Sonali Hingorani

STAFF RECOMMENDATION

- (1) *That Staff engage with the residents on Alta Court to develop a resident permit parking pilot program, as described in the staff report titled “Azure Road Neighbourhood: Results of Residential Permit Parking Review” dated April 3, 2023, from the Director, Transportation; and*
- (2) *That should the majority of residents on Alta Court wish to participate in such a program, staff will bring forward the necessary City Bylaw amendments for Council consideration.*



ENGINEERING AND PUBLIC WORKS DIVISION

2. **2023 NATIONAL PUBLIC WORKS WEEK - MAY 21 TO 27, 2023: CONNECTING THE WORLD THROUGH PUBLIC WORKS**
(File Ref. No. 10-6000-) (REDMS No. 7171389)

PWT-15

See Page PWT-15 for full report

Designated Speaker: Deborah Prystay

STAFF RECOMMENDATION

That the 2023 in-person event and virtual campaign plan and theme to recognize National Public Works Week as outlined in the staff report titled “2023 National Public Works Week - May 21 to 27, 2023: Connecting the Works Through Public Works”, dated March 15, 2023 from the Director, Public Works Operations, be received for information.



3. **RECYCLING AND SOLID WASTE MANAGEMENT – REPORT 2022: TAKING ACTION TO REDUCE WASTE**
(File Ref. No. 10-6370-01) (REDMS No. 7174996)

PWT-24

See Page PWT-24 for full report

Designated Speaker: Kristina Nishi

STAFF RECOMMENDATION

- (1) *That the report titled, “Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste” dated March 13, 2023, from the Director, Public Works Operations, be endorsed.*

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Pg. # ITEM

- (2) *That the “Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste” be made available to the community on the City’s website and through various communication tools including social media channels and as part of community outreach initiatives.*

☐

4. **MANAGER’S REPORT**

ADJOURNMENT

☐



Public Works and Transportation Committee

Date: Wednesday, March 22, 2023

Place: Council Chambers
Richmond City Hall

Present: Councillor Carol Day, Chair
Councillor Michael Wolfe
Councillor Chak Au
Councillor Kash Heed
Councillor Alexa Loo

Also Present: Councillor Andy Hobbs
Councillor Bill McNulty

Call to Order: The Chair called the meeting to order at 4:00 p.m.

MINUTES

It was moved and seconded

That the minutes of the meeting of the Public Works and Transportation Committee held on February 23, 2023, be adopted as circulated.

CARRIED

PLANNING AND DEVELOPMENT DIVISION

1. **2023 ACTIVE TRANSPORTATION INITIATIVES**
(File Ref. No. 10-6500-01) (REDMS No. 7136633)

In response to queries from Committee, staff advised that (i) design is underway for the off-street multi-use pathway on No. 2 Road (Steveston Highway to Williams Road) and an update from Engineering is forthcoming, (ii) redevelopment opportunities can be explored to expand cycling routes that overlap with The Great Blue Heron Way project and will be considered through the City's Cycling Network Plan upgrade, (iii) the e-scooter pilot program questionnaire (currently being developed) will seek feedback from e-scooter device operators and others sharing the road and pathways, (iv) the

Public Works & Transportation Committee

Wednesday, March 22, 2023

bicycle-pedestrian counters provide insight on the usage of multi-use pathways, and (v) the cycling education courses offered to all Richmond Grades 6 and 7 elementary school students are ongoing, ensuring all students learn the rules and responsibilities of cycling.

A brief discussion ensued with respect to future opportunities for bicycle-pedestrian counter technology as it relates to roadway intersections.

It was moved and seconded

- (1) That the report titled “2023 Active Transportation Initiatives” dated February 15, 2023 from the Director, Transportation, be received for information; and*
- (2) That a copy of the report be forwarded to the Richmond Council-School Board Liaison Committee for information.*

CARRIED

ENGINEERING AND PUBLIC WORKS DIVISION

2. SANITARY SEWER REPAIRS - 100 TO 1000 BLOCK LANCASTER CRESCENT

(File Ref. No. 10-6000-01) (REDMS No. 7121083)

In response to queries from Committee, staff advised that (i) the preliminary investigation showed a crack in the pipe, the exact cause is unknown and staff can examine the pipe upon excavation, and (ii) staff will also be assessing and ensuring upgrades to both water main and sanitary sewers as they are identified through the Burkeville improvement programs.

It was moved and seconded

That funding of \$1,000,000 from the Sanitary Sewer Reserve Fund for the sanitary sewer repairs along the 100 to 1000 block of Lancaster Crescent, be approved and that the Consolidated 5 Year Financial Plan (2023-2027) be amended accordingly.

CARRIED

3. MANAGER’S REPORT

(i) Traffic Cameras

Staff advised two new traffic cameras have been added at two signalized intersections - No. 1 Road and Osman Avenue, and Great Canadian Way at Bridgeport Bus Mall. Both of these traffic camera locations have recording and traffic management capabilities.

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(ii) City of Burnaby Proposed Grow Organic Composting Facility

Staff advised that the City of Burnaby held a Special Council Meeting on March 20, 2023, to consider the proposed Grow Organic Composting Facility. At this meeting, Council noted concerns received from Burnaby residents regarding the project and the removal of park land from the Fraser Foreshore Park. Burnaby Council was unanimous in opposition and have directed staff to notify the public of the cancellation accordingly. Burnaby Council further noted the project remains important and they will continue to look at alternative locations. Richmond staff will continue to follow this project as it evolves.

(iii) Septic Field at Richmond Nature Park

In reply to a query from Committee relating to infrastructure to the caretaker building and flooding at the north west corner of Westminster Highway and No. 5 Road, and the need for a new septic field, staff advised they are in discussion with the Ministry of Transportation regarding the Steveston interchange project and tunnel replacement, in an effort to have them engage with staff on drainage improvements along the entire Highway 99 corridor. It is at the early stages, but staff are hopeful the Ministry will address some of the drainage concerns noted. Staff will continue to update the Committee.

ADJOURNMENT

It was moved and seconded

That the meeting adjourn (4:25 p.m.).

CARRIED

Certified a true and correct copy of the Minutes of the meeting of the Public Works and Transportation Committee of the Council of the City of Richmond held on Wednesday, March 22, 2023.

Councillor Carol Day
Chair

Lorraine Anderson
Legislative Services Associate



City of Richmond

Report to Committee

To: Public Works and Transportation Committee **Date:** April 3, 2023
From: Lloyd Bie, P.Eng. **File:** 10-6455-01/2023-Vol
Director, Transportation 01
Re: **Azure Road Neighbourhood: Results of Residential Permit Parking Review**

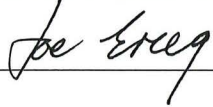


Staff Recommendation

1. That Staff engage with the residents on Alta Court to develop a resident permit parking pilot program, as described in the staff report titled "Azure Road Neighbourhood: Results of Residential Permit Parking Review" dated April 3, 2023, from the Director, Transportation; and
2. That should the majority of residents on Alta Court wish to participate in such a program, staff will bring forward the necessary City Bylaw amendments for Council consideration.

Yd R.

Lloyd Bie, P.Eng.
Director, Transportation
(604-276-4131)

Att. 2

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Roads and Construction	<input checked="" type="checkbox"/>	
Community Bylaws	<input checked="" type="checkbox"/>	
Development Applications	<input checked="" type="checkbox"/>	
SENIOR STAFF REPORT REVIEW	INITIALS: 	APPROVED BY CAO 

Staff Report

Origin

At the September 20, 2022 Planning Committee, the following referral was received:

That staff be requested to explore a resident only parking pilot program in the vicinity of the proposed development.

This report provides the outcome of staff's review of the request and engagement with the neighbourhood.

This report supports Council's Strategic Plan 2022-2026 Strategy #1 Proactive in Stakeholder and Civic Engagement:

1.4 Leverage a variety of approaches to make civic engagement and participation easy and accessible.

Analysis

As part of the rezoning (RZ 21-931122) at 6071 Azure Road, residents near the development expressed concerns regarding parking related issues. In particular, comments were made about the high utilization of street parking in the neighbourhood generated by non-residential uses including the hospital, medical services building and school. Interest in a resident only permit parking program was raised to address such parking intrusion in the neighbourhood.

Staff have performed a parking study of the area, consulted with the neighbourhood to explore options for such a program and surveyed residents to determine the level of support.

Review of Street Parking

Azure Road is within the quarter section neighbourhood bounded by Westminster Highway to the north, Gilbert Road to the east, Granville Avenue to the south and No. 2 Road to the west. Staff visited the study area several times to assess street parking occupancy. Higher street parking use is observed on Azure Boulevard and the sections of Azure Road and internal roadways closer to Gilbert Road (Figure 1).

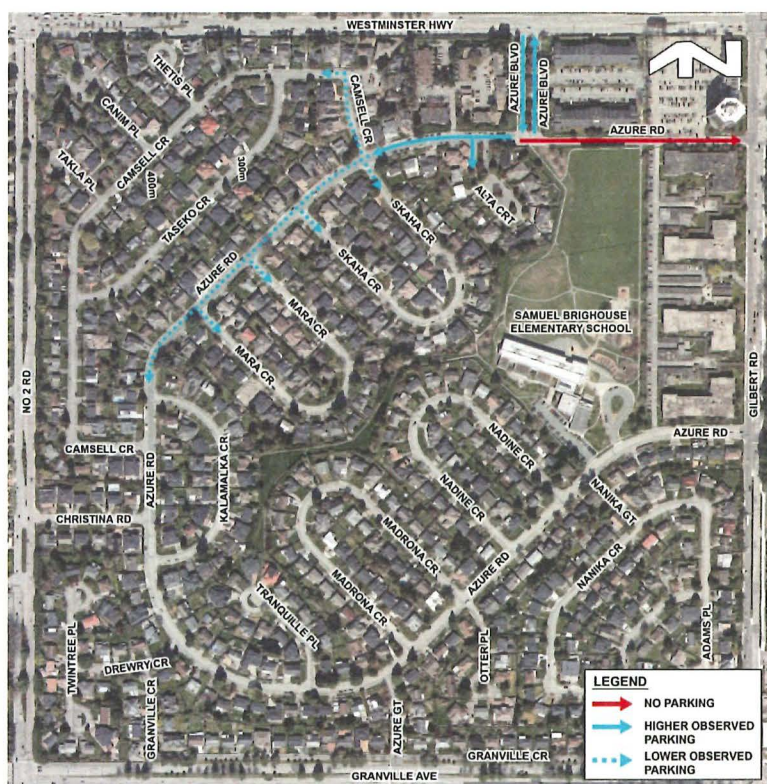


Figure 1: Street Parking Utilization

Neighbourhood Engagement

Online Neighbourhood Meetings

Letter notices of virtual meetings were sent to 607 households in the Azure Road neighbourhood. Staff held two online meetings with residents to present staff's technical assessment of potential street parking permit options and then achieve a consensus on options for a neighbourhood survey (Table 1).

Table 1: Summary of Online Residents Meeting

Date	Attendees	Purpose	Feedback/Outcome
Nov. 17, 2022	31	<ul style="list-style-type: none"> Present staff's technical assessment Discuss options for permit parking 	<ul style="list-style-type: none"> Some attendees indicated: <ul style="list-style-type: none"> Vehicles parking in front of their house Observations of employees parking in neighbourhood Concerns with fees for permits Did not support pay parking on streets Some concerns expressed for: <ul style="list-style-type: none"> Traffic flows at Azure Road/ Gilbert Road intersection Crosswalk at Azure Road/Azure Boulevard intersection measures Other development specific concerns
Dec 6, 2022	15	<ul style="list-style-type: none"> Present revised permit parking options based on feedback from first meeting 	<ul style="list-style-type: none"> Consensus achieved on content of neighbourhood survey comprising the following options: <ol style="list-style-type: none"> 3-Hour parking limit except with permit No parking except with permit

Neighbourhood Survey

From January 5, 2023 to February 10, 2023, residents were surveyed to determine the level of support for the two preferred permit parking options developed through the engagement phase (Attachment 1). A total of 607 surveys were mailed out to each discrete address; 173 responses (28.5 per cent response rate) were received.

Table 2: Resident Survey Results

The results indicate that there is no majority support for a residential permit parking program (Table 2) in the neighbourhood. Of the 173 responses, 100 identified no support for permit parking. Of the 73 positive responses, there was more support (45 responses) for the “No Parking Except With Permit Option”. The 73 positive responses were dispersed throughout the neighbourhood. However, there is notable support of households on Alta Court with eight of the 13 residences in favour of permit parking (Attachment 2).

Survey Results	
Number of Surveys	607
No Response	434 (71.5%)
Number Of Responses	173 (28.5%)
Parking Permit Options	Results
Not In Favour	100 (58%)
3-Hour Parking Limit Except By Permit	28 (16%)
No Parking Except By Permit	45 (26%)

Staff recommend targeted consultation with these residents to develop a pilot residential permit program for Alta Court. Staff believe working directly with a limited number of residents during a potential trial period will provide an opportunity to establish and monitor a resident permit program that can inform process and criteria should similar requests arise from other neighbourhoods.

Proposed Terms for Resident Parking Pilot Program

Of the eight residents on Alta Court who responded in support of resident parking permits, seven were in favour of the option to regulate the street for resident vehicles only. The advantage of this option is that it streamlines and permits proactive enforcement. Residents of the street can register their vehicles with the City to be exempt from the “No Parking” restriction which will allow staff to more efficiently and effectively determine if a vehicle is permitted to park on the street within the established permit zone. A fee of \$100 per year for each vehicle is proposed and was discussed during the stakeholder meetings. This fee is based on a review of similar permit fees in other municipalities to cover the administrative costs of a parking permit program. The City’s license plate recognition vehicle can also proactively patrol the street and enforce accordingly. Installation of street signs within the pilot area will designate the permit parking zone. The disadvantage discussed at the stakeholder meetings of this option is visitors or service providers of residents will need to be accommodated off-street.

Should the majority of residents on Alta Court support the proposed terms of the pilot program, a one year pilot will allow staff to assess its effectiveness at managing street parking. During this period, staff will seek feedback from residents and develop formal criteria and fees for a permanent program.

Other Resident Traffic Related Concerns

- Parking Enforcement of 3-hour Parking Limit: Traffic Bylaw 5870 currently limits the amount of time a vehicle can park in front of a residential home should the vehicle not belong to a resident or visitor. To address complaints received from residents regarding parking issues, parking enforcement officers conducted targeted enforcement and responded to complaints in the neighbourhood.

From November 20, 2022 to December 5, 2022 a total of 110 tickets were issued:

- 102 Warnings
- 8 Tickets with fines
- The License Plate Recognition vehicle scanned 540 vehicles plates
- 9 Proactive Patrols
- 13 calls from residents wanting to know why they received a warning ticket. All calls related to them not parking in front of their dwelling but rather either adjacent to their home or down the street.

The majority of offences were for the contraventions of parking over 3 hours between 8:00 a.m. to 6:00 p.m. of the Traffic Bylaw. Since this period, Community Bylaws advises the number of complaints regarding this issue has decreased.

- Azure Road/Azure Boulevard Intersection: To address a resident request for an upgrade of the existing signed and marked crosswalk at this intersection, a crosswalk study at the intersection was conducted. The results indicate a special crosswalk is not warranted due to low traffic volumes. Further, traffic calming measures secured at this intersection through the rezoning project at 6071 Azure Road will slow vehicles in the vicinity of the crosswalk to increase safety.
- Azure Road North/ Gilbert Road Intersection: Concerns about long vehicle queues on Azure Road eastbound created by vehicles waiting to make a left turn onto Gilbert Road were raised. A traffic study was performed and the wait times observed for left-turn vehicles were under 30 seconds. There is a pedestrian signal to facilitate pedestrians crossing Gilbert Road. Staff will continue to monitor the operation of this intersection.

Richmond General Hospital Parkade

As concerns were raised by some residents about Richmond General Hospital employees parking in the neighbourhood, staff contacted Vancouver Coastal Health (VCH) regarding the current parking provision for hospital staff parking onsite. VCH advises all employees are entitled to a reduced daily parking flat rate of \$4.95. Monthly parking passes are \$46.00, however, there is a waiting list for monthly parking passes. Vancouver Coastal Health has leased additional stalls across Westminster Highway at the Westminster Health Centre and the Airport Conference Centre to provide adequate employee parking and reduce the need for street parking.

Staff have requested Vancouver Coastal Health to continue and work with the hospital's parking services team to advise hospital employees to apply for access to the leased stalls and not park in neighbouring residential areas. Other users of onsite parking include community workers, such as Public Health inspectors or nurses and community based therapists. These employees are part of a program that is exempt from paying for parking.

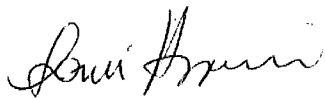
Financial Impact

None.

Conclusion

The City and residents of the Azure Road neighbourhood collaboratively reviewed permit parking options for the neighbourhood with two online stakeholder meetings. The survey results do not indicate a majority support for any single proposed option. The Alta Court cul-de-sac comprising of 13 households does demonstrate a cluster of positive responses for resident permit parking.

Staff recommend developing a residential permit parking pilot for Alta Court and will consult with affected residents regarding the details of such a pilot program. Bylaw amendments required to enforce the pilot program will be brought forward in a separate report should residents confirm majority of support for street parking permits.



Sonali Hingorani, P. Eng
Manager, Transportation Planning and New Mobility
(604-276-4049)

SH:ck

- Att. 1: Residential Survey - Permit Parking Options
- 2: Results of Permit Parking Survey

Residential Survey - Permit Parking Options

Objectives:

Permit parking zones are created in residential neighbourhoods where there is a high demand for parking by non residents.

Advantages:

- Help manage parking and street space.
- Restrict parking by non residents.

Disadvantages:

- It may not guarantee parking in front of your property.
- Permits will have a fee.

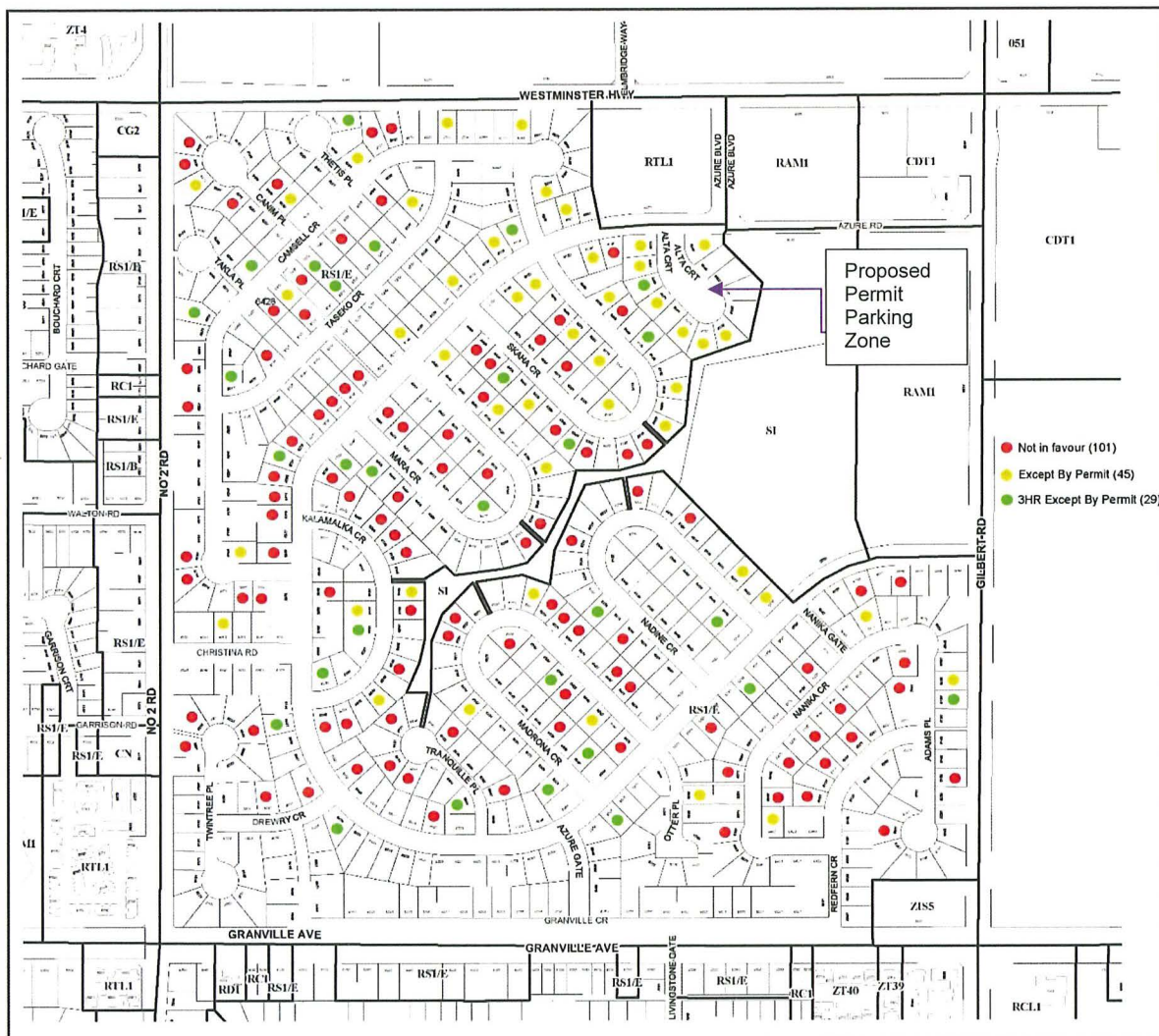
Option 1: 3-Hour parking limit except with permit. Visitors or service providers can park up to 3 hours.



Option 2: No parking except with permit. Visitors and service providers can not park in permit zone.



Results of Permit Parking Survey





City of Richmond

Report to Committee

To: Public Works and Transportation Committee
From: Suzanne Bycraft
Director, Public Works Operations
Date: March 15, 2023
File: 10-6000-01/2023-Vol
01
Re: **2023 National Public Works Week - May 21 to 27, 2023: Connecting the World Through Public Works**

Staff Recommendation

That the 2023 in-person event and virtual campaign plan and theme to recognize National Public Works Week as outlined in the staff report titled "2023 National Public Works Week - May 21 to 27, 2023: Connecting the Works Through Public Works", dated March 15, 2023 from the Director, Public Works Operations, be received for information.

Suzanne Bycraft
Director, Public Works Operations
(604-233-3338)

Att. 1

REPORT CONCURRENCE	
CONCURRENCE OF GENERAL MANAGER 	
SENIOR STAFF REPORT REVIEW	INITIALS:
APPROVED BY CAO 	

Staff Report

Origin

The Canadian National Public Works Association's annual National Public Works Week is from May 21 to 27, 2023. Previous to the COVID-19 pandemic, the City marked National Public Works Week with in-person events to celebrate Public Works staff and engage the community. During the three years from 2020 to 2022, staff shifted to a virtual campaign to ensure alignment with public health guidelines.

To celebrate 2023 National Public Works Week, the City will return to hosting three in-person events that include school and education events, engineering exhibits and displays of public works and parks equipment.

The City will also continue to promote National Public Works Week with a virtual campaign similar to that developed after the start of the pandemic. The virtual campaign will include social media pieces, community engagement highlights and an interactive map of capital projects throughout the City. Both in-person and virtual campaigns are outlined in this report.

This report supports Council's Strategic Plan 2022-2026 Focus Area #1 Proactive in Stakeholder and Civic Engagement:

1.3 Increase the reach of communication and engagement efforts to connect with Richmond's diverse community.

This report supports Council's Strategic Plan 2022-2026 Focus Area #6 A Vibrant, Resilient and Active Community:

6.3 Foster intercultural harmony, community belonging, and social connections.

Analysis

Background

Each May, National Public Works Week recognizes the many people dedicated to their communities by working in public works careers. The week is used to energize and educate the public on the importance of public works in their daily lives. The City recognizes National Public Works Week through a proclamation outlining the following areas:

- Public Works services provided in the community are an integral part of Richmond citizens' everyday lives;
- the support of an understanding and informed citizenry is vital to the efficient operation of Public Works systems and programs such as water, sewers, roads, public buildings and solid waste collection;

- the health, safety and comfort of this community greatly depend on these facilities and services;
- the quality and effectiveness of these facilities, as well as their planning, design and construction, is vitally dependent upon the efforts and skills of Public Works officials; and
- the efficiency of qualified and dedicated personnel who staff the Public Works Departments is materially influenced by the people's attitude and understanding of the importance of the work they perform.

2023 Campaign Theme and Components

This year's National Public Works Week theme is "Connecting the World Through Public Works". Staff will use this theme to showcase the community connection to Public Works through our preventative work, proactive planning and skilled execution that allows us to be responsive, ready, and resilient in Richmond when required.

The City will recognize National Public Works Week in two phases: by hosting three in-person events that will take place during the week of May 8 and by producing a virtual campaign that will be launched on May 21 and will continue for the duration of National Public Works Week.

In-Person Events

Project WET

Project WET, the City's annual water education program developed in partnership with the Richmond School District, will be held on May 9 and 10. The program will be presented to eight elementary school classes, with approximately 240 students and teachers expected to attend. This interactive program teaches intermediate students the importance of water consumption, conservation, quality and supply. Students will also learn about the City's recycling programs, dikes, pump stations, sewerage and drainage operations, and emergency preparedness.

Public Works Open House

The annual Public Works Open House will take place on Saturday, May 13, from 11:00 a.m. to 3:00 p.m. at the Works Yard. The event was last held in 2019 and had over 8,000 residents in attendance. The free event allows residents to meet City staff; learn about the work they perform and the programs offered; explore the various booths; participate in the interactive displays; eat at one of the local food vendors; and listen to live entertainment.

New this year will be the introduction of the Paint Station; a new booth featuring the Paint Shop and highlighting the important work they do around the City. The Paint Station will offer kids a creative hands-on opportunity to paint a series of murals to beautify our Works Yard. Favourites such as a Lafarge cement building zone, Kidstruction, excavator lessons, crafts, games, play areas, environmental sustainability displays and Richmond Fire and emergency displays will return again this year. The CUPE 394 sponsored car show will be located at Dover Park. To ensure traffic flows

smoothly and minimize interruptions, we will have traffic control personnel working on Lynas Lane from 9:00 a.m. to 4:30 p.m.

Virtual Campaign

Social Media

On social media, the public will be invited to celebrate this year's National Public Works Week by visiting the City's channels daily from May 21 to May 27, to view new photos/videos featuring different Public Works' staff and services including an electric vehicle charging station expansion, a sanitary pump station installation project, a watermain replacement project and video footage of a snow plough in action.

Community Connections

Two community connections pieces were produced to highlight the connection between Public Works and the community and to showcase the exceptional work of staff. They further demonstrate how Council-approved infrastructure based projects materialize into tangible services that provide practical and real benefits to the community.

The video "Community Connections – Petts Road Watermain Replacement" highlights the connection between our Public Works crews and the community. The watermain replacement project was located within walking distance of Maple Lane Elementary School. A Water Services staff member reached out to the school and invited a class to visit the site and see how watermain are installed. After the field trip, students got the chance to participate in a virtual question and answer activity with the crew. The video highlights one of the City's most important corporate values: people. The crew working on the watermain project have a special passion for their work and want to connect and share it with the community.

The article, "Pipe Repair in the Air" (Attachment 1), features a repair that was conducted on a leaking watermain located underneath the Knight Street Bridge deck. The location of the watermain made the repair unique in that various Public Works sections, City departments and external stakeholders had to work together to carefully plan and perform the work, while ensuring the safety of City staff, infrastructure and the community. The article highlights the careful coordination, planning and execution by the team that exemplified all of the City's corporate values.

Going forward, these community connection pieces will be incorporated on the City's website. Staff will continue to produce feature materials which recognize Council's commitment to infrastructure improvements while demonstrating service excellence performed on various capital infrastructure improvement projects. The nature of these key infrastructure services being underground or hidden by other infrastructure means they may be less visual to the community, but nevertheless are of significant importance to daily life for residents and businesses alike.

Interactive Map

A link to the “2023 Capital Projects Highlights: Engineering and Public Works” interactive map will be included in the promotion page for National Public Works Week. The map shows planned or ongoing projects for the year and provides information on each project.

Financial Impact

None

Conclusion

The Canadian National Public Works Association’s annual National Public Works Week is from May 21 to 27, 2023, and the City’s Engineering and Public Works Division plays an active role in celebrating it. Two in-person events and a virtual campaign will be held to recognize and highlight the people who provide, operate and maintain the infrastructure services known as public works. Cities across Canada participate by raising awareness of public works contributions, and encourage community support for these dedicated employees who consistently improve the quality of life for residents.



Deborah Prystay
Project Manager
(604-244-1224)

DP:dp

Att. 1: “Pipe Repair in the Air” Article

A photograph showing a worker in a safety harness and helmet climbing a ladder to reach a large, vertical pipe. The pipe is part of a bridge structure, and the worker is positioned high above the ground. The background shows the underside of the bridge deck and other structural elements.

CONNECTING COMMUNITY:

Pipe repair in the air

When an air valve broke on a pipe connecting the River Road area of Richmond to Mitchell Island, it triggered a repair process involving multiple organizations, innovative solutions and extensive safety measures.

Why? Because the watermain pipe runs under the Knight Street bridge, more than six storeys (or 26.5 metres) above the Fraser River.

When City of Richmond staff were made aware of a leak under the bridge, they went to the area immediately and found water pouring out into the river. Water is chlorinated to keep it safe for drinking, but it is not permitted in natural water sources like the river. To stop the chlorinated water from running into the river, a Water Services crew quickly throttled down the water pressure to minimize the flow of water going through the damaged pipe. The City continued to provide a reliable water supply to Mitchell Island using a secondary pipe, as the City has two pipes in place to ensure there is backup in place for a secure water supply.

"We acted quickly to mitigate the environmental concerns from the chlorinated water leaking into the river as an interim measure," says Bryan Shepherd, Manager, Water Services, Engineering & Public Works for the City of Richmond. "But we also knew that the complexity of the work under the bridge would take time to plan and complete due to a variety of challenges present. This also meant it would require a team effort."

Continued on next page



Right from the planning stages, the pipe repair in the air project exemplified the City's core values by focusing on the power of teams who share a common goal. Everyone involved demonstrated concern for each other while building on their individual and collective knowledge.

OBTAINING ACCESS AND SAFETY PLANNING

The first challenge was how to gain access to damaged pipe. TransLink owns the Knight Street Bridge, so the City required permission from TransLink to perform any repairs. In addition, the pipe needing repair was only accessible through a vertical ladder on one of the piers and a series of suspended catwalk systems under the bridge. These areas required up-to-date safety certifications.

Making repairs up in the air also required extensive safety measures. The City's Occupational Health and Safety (OHS) team members, Anastasia Riabkova and David Richards, coordinated with TransLink to confirm that the required annual inspections of the ladder and catwalk lifelines certifications were up to date. Next, they developed a plan for a safe working procedure. The inspections and safety plan were required prior to start of work to ensure the equipment would protect workers from a fatal fall and keep everyone safe on the job site.

The safe work procedure was also a key step for the City to obtain an Indemnity Inspection Agreement with TransLink, which allowed the City to access the horizontal and vertical lifelines and perform necessary maintenance and repair work.

The Indemnity Inspection Agreement also required the City to provide a High Angle Rescue Agreement. Kevin Gray, Deputy Fire Chief, Richmond Fire Rescue worked together with Riabkova and Richards to create the High Angle Rescue Agreement. The City's legal team then reviewed and finalized the Indemnity Inspection Agreement.

"Chief Gray and his team went above and beyond to support this repair project," says Shepherd. "They offered to provide the Public Works crew with a pre-entry inspection, on-site rescue support, and a means to transport materials from the ground to the catwalk using ropes. Richmond Fire Rescue crews also leveraged this repair project to practice their high angle training."

APPLYING INNOVATION AND TRAINING

While City staff worked together to complete the agreement with TransLink and establish safety measures, the Water Services crew wanted a better look at the damage to assess what caused the leak and what would be needed for repairs. Fortunately, the City has staff who are trained to fly drones so they could apply innovative technology to make their task easier. After getting approval from the Vancouver Port Authority, a pilot flew a drone to assess the damaged area and confirmed that a broken air valve was the source of the leak.

Continued on next page

With the source of the leak confirmed, the Water Services crew could start planning the repair. Not surprisingly, the first big challenge that needed to be addressed was the height and ensuring the safety of the crew who would be under the bridge.

The Occupational Health and Safety team, Richmond Water Services and Richmond Fire Rescue worked together to ensure that workers performing this task had all the necessary fall protection training, fall protection equipment and a fall plan.

Murray Barstow, Water Services Supervisor for the City, organized a team that was trained in fall protection, ticketed with utility repair and comfortable with working 26.5 metres up in the air. As well, certified firefighters would work with the repair crew, both up on the bridge and on the ground.

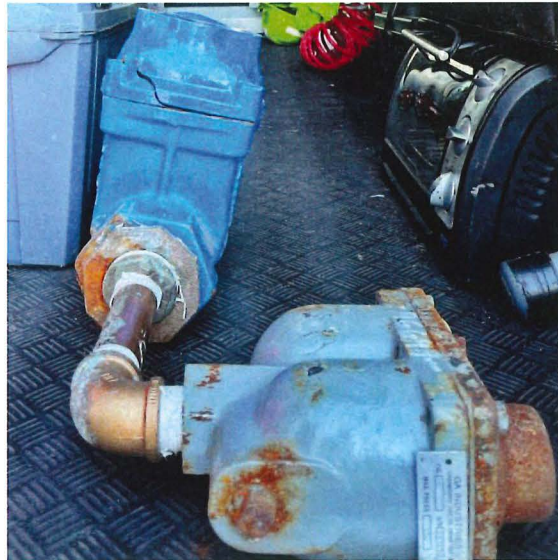
“We needed to use Water Services staff as they are trained and ticketed for our utility, but we also asked for volunteers. They would be working close to 100 feet in the air, so you can’t just assign a task like this,” says Shepherd. “The two people who volunteered were already trained and certified in fall arrest, they already had harnesses that were fit to them, and they were not afraid of heights.”

SHARING THE SPACE WITH THE LOCAL WILDLIFE

Another challenge that the City encountered was the presence of peregrine falcons in the area.

“When we were assessing the damage, a falcon was dive-bombing the drone so we knew the birds were in the area, and it was close to nesting season when we would be doing the work,” says Shepherd. “There were also concerns that the falcons may attack our crews, so we needed to bring on someone with expertise in this area.”

An environmental consultant was brought onto the project to ensure the safety of both the birds and the workers.



REPAIRS IN THE AIR

After two months of planning, getting required approvals, ensuring all safety measures were in place and taking steps to protect the falcons, the repairs could finally proceed safely and in compliance with all provincial and federal regulations.

Water Services staff, Colin Hutchinson and Ken Labocaune, performed the repair work on the bridge while two Fire Rescue staff stayed on the catwalk on standby in case rescue was needed. They replaced the air valve, which is about the size of a basketball, installed a shut-off valve and replaced about four feet of pipe where the air valve was located. This took about four hours to complete.

Eight Fire Rescue staff remained on the ground to assist further in the event of an emergency and helped raise and lower equipment using a rope pulley system.

The environmental consultant used binoculars to observe the behaviour of the birds. During the repair work, the falcons began to fly around and make noise to indicate they were concerned and unhappy with the presence of workers.

Continued on next page



Work was halted for 30 minutes to allow for the falcons to calm down and prevent provoking an attack on the workers. The environmental consultant assessed whether the falcons were being adversely impacted and if the job site needed to be shut down. Fortunately, after the 30 minutes had passed, the falcons were calm and perched on a nearby tree.

"It's exciting work. It's challenging. It's scary. And after completion it's rewarding," says Shepherd, who, having done work under the bridge in the past, would know. "I think there's a lot of adrenaline. When everyone gets back down safely, it's a huge sense of accomplishment."

While the aerial adventure portion of the work was completed, additional work was still needed before the water could be turned back on. The Water Services crew injected about 40 litres of high concentration chlorine into the water running through the 450 mm pipe and let it sit for 24 hours to disinfect the pipe before water could be turned back on.

"We take continuous measurements until its dark purple on the litmus paper to show a high concentration of the chlorine, and then we let it sit so it can eat up any bacteria, dirt or other contaminants that may have entered the pipe," says Shepherd.

When the chlorine was released from the pipe, the crew ran it through vitamin C pucks, which dissipates the chlorine so it could safely be released into a gravel lot. Next, they did water quality testing. After about three days, the results were in, and the water quality test came back clear, so they turned the water back on.

The City takes over 2,000 samples each year to test the water to ensure the water quality is good.

"Our job is to supply water to Richmond residents, regardless of the height or how hard the work is," notes Shepherd. "Our crews enjoy their work, and are thrilled to provide the Richmond community with clean water."

Thanks to collaboration, training, and innovation, the repairs to the watermain were completed safely and the pipe connecting two communities in Richmond is again secure and fully operational.

"I'm proud of the crew's accomplishment and the collaboration of the different parties involved," adds Shepherd. "It seemed like they had fun. I went to school with Darren Rowley, a Company Officer and Lieutenant with Fire Rescue, and I know he was very proud of his team too. Overall, it was a really good repair, and this is one we'll talk about for years."





City of Richmond

Report to Committee



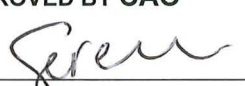
To: Public Works & Transportation Committee **Date:** March 13, 2023
From: Suzanne Bycraft
Director, Public Works Operations **File:** 10-6370-01/2023-Vol
01
Re: **Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste**

Staff Recommendation

1. That the report titled, “Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste” dated March 13, 2023, from the Director, Public Works Operations, be endorsed.
2. That the “Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste” be made available to the community on the City’s website and through various communication tools including social media channels and as part of community outreach initiatives.

Suzanne Bycraft
Director, Public Works Operations
(604-233-3338)

Att. 1

REPORT CONCURRENCE	
CONCURRENCE OF GENERAL MANAGER 	
SENIOR STAFF REPORT REVIEW	INITIALS: 
APPROVED BY CAO 	

Staff Report

Origin

This report presents the City's annual progress in implementing a combination of new and enhanced measures to reduce waste in the community in alignment with the Richmond's Circular City Strategy outlined in the attached "Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste".

This report supports Council's Strategic Plan 2022-2026 Focus Area #5 A Leader in Environmental Sustainability:

Leadership in environmental sustainability through innovative, sustainable and proactive solutions that mitigate climate change and other environmental impacts.

5.1 Continue to demonstrate leadership in proactive climate action and environmental sustainability.

5.3 Encourage waste reduction and sustainable choices in the City and community.

Analysis

The City is making it a priority to shift to a circular economy through its Community Energy and Emissions Plan 2050 and sustainable waste management is integral to achieving circularity. To support this vision, the City continues to expand services and provide a comprehensive range of reduction, recycling and waste management services to residents, making it easy and convenient for materials to be reused, repurposed and recycled multiple times into new products to reduce reliance on raw materials and help conserve natural resources. To encourage full use of City services and promote opportunities to rethink and reduce waste, the City also implements extensive communication and community outreach initiatives to raise awareness about the services available, how to recycle correctly and engage citizens.

"Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste" ("Report") presents the City's annual progress update for 2022 (Attachment 1). The Report also includes detailed program information, insights into upcoming initiatives and a comprehensive tips and resources section.

2022 Highlights

The Report highlights Council's leadership and commitment to strategic waste management through the implementation of the *Single-Use Plastic and Other Items Bylaw No. 10000*, completion of the first phase of engagement with local businesses to review options to increase recycling in the commercial sector, and introduced a pilot program to collect used cooking oil and grease from six Richmond multi-family complexes. In addition, the City expanded collection at the Recycling Depot to accept thermostats and the Recycling Depot's service was expanded to provide free drop-off of several categories of recyclable household items for residents in the region through an agreement with Metro Vancouver. The Report also highlights the City's extensive communications and community engagement initiatives, including the Holiday Waste Think Tank where the community shared 174 ideas to reduce holiday waste.

Report 2022 Overview

The Report contains four sections – the first two sections provide an overview of the past year, including highlights for 2022, details and statistics on the City’s waste management and recycling services, and key planned initiatives for 2023. The Report’s next two sections provide details on the many programs and services that support the City’s sustainable waste management, and a comprehensive tips and resources guide that provides more information on where to recycle, dispose or donate various household items.

The following is a summary overview of each section:

Section 1: Annual Outlook provides an overview of the achievements in 2022 including:

- Implemented the *Single-Use Plastics and Other Items Bylaw No. 10000* which became effective on March 27, 2022 and enforceable on September 27, 2022.
- Launched a multi-family pilot program to collect waste grease from over 900 units in six complexes and monitor the impact to the City’s sewer infrastructure.
- Added thermostats as an accepted item at the Recycling Depot and expanded access to regional customers through an agreement with Metro Vancouver.
- Completed phase 1 of the commercial recycling services review including door-to-door visits of 307 business with 27% responding to current state surveys.
- Green Ambassadors attended 14 symposiums, planning, or training sessions and supported 12 special events with an estimated 1,344 volunteer hours.
- Re-initiated in-person outreach at City events, hosted Let’s Recycle Correctly workshops and Depot tours, and launched the 2022 Holiday Rethink Waste campaign.
- Completed replacement of aging garbage and recycling bins along No. 3 Road and the Railway corridor with standardized containers and new graphics.

Section 2: Tracking Our Progress provides statistics and data on the broad range of programs and services the City offers residents to responsibly manage their household waste.

Residents in single-family homes continue to achieve 79% diversion rate by leveraging a number of recycling and waste reduction opportunities. The Blue Box and Blue Cart programs recycled 7,437 tonnes of packaging, containers and paper, while the Green Cart program diverted 22,300 tonnes of food scraps and yard trimmings from the landfill to be composted into nutrient-rich soil. In 2022, 254,826 vehicles visited the Recycling Depot, with an average of 698 visits per day. During their visits, customers dropped-off more than 7,231 tonnes of recyclable materials. Richmond residents also leveraged the Large Item Pick Up program to have 15,372 items, equating to 635 tonnes of materials, collected curbside to divert 480 tonnes from the landfill.

Through community outreach and customer service, staff supported 17,735 customer service calls and delivered 18 outreach activities on various topics through a mix of in-person and virtual engagements. A total of 3,155 students took part in supporting recycling and waste management events and training activities throughout the City. This included 155 Green Ambassadors accumulating 1,344 volunteer hours.

The Richmond Recycling app and Recycling Wizard tool continue to provide enhanced service for residents, with 19,082 active collection day reminders and 97,693 Recycling Wizard searches. Moreover, in City public spaces garbage and recycling bins were inspected 13,579 times per month and serviced 18,177 times per month, for a combined 382,320 bin visits per year to help keep our community clean.

Building on the success of the initial Rethink Waste Think Tank, staff launched the Holiday Waste Think Tank which collected 174 ideas from the 1,170 visitors who clicked the campaign page to learn more.

Section 3: Programs and Services describes the City's comprehensive recycling and waste reduction programs, tips on how to recycle correctly with each service, and highlights how recycling and reducing waste can support the City's overarching goal of circularity. This section also highlights a recent expansion of the Blue Box program to include single-use and other plastic items, party décor made of paper and other packaging-like items. Information on the City's robust litter collection, public spaces recycling, event recycling, and community and school engagement programs are also detailed.

Section 4: Tips and Resources highlights community resources and partnerships that support sustainable waste management, and provides a recycling and disposal directory for details on where to recycle banned, hazardous and other materials.

Moving Forward

The City will continue to support the transition to a circular economy by implementing new initiatives to make it easier and more convenient for residents to recycle their household waste, and by continuing to raise awareness around how to reduce and rethink waste overall. Key focus areas in 2023 will include:

- Complete commercial review and scoping exercise to explore enhanced recycling options for the commercial sector and report back to Council.
- Continue to pursue increased community engagement opportunities, encouraging residents to recycle correctly, rethink waste and shift to a circular economy where materials stay in circulation.
- Continue education and enforcement of the *Single-Use Plastics and Other Items Bylaw No. 10000*, monitor senior government legislative changes and identify opportunities to further reduce plastic waste at the local level.
- Pave a portion of the Recycling Depot with asphalt that contains recycled plastic as a binding agent. Richmond is the first city in Canada to integrate MacRebur's patented plastic flake into asphalt.
- Increase focus on youth engagement and outreach, including partnership opportunities with the Green Ambassador program and the school district or other agencies.
- Evaluate a bike reuse program at the Recycling Depot and explore other reuse options to encourage circular initiatives.
- Investigate opportunities for textile waste management and recycling initiatives to divert textiles from the landfill.
- Review public spaces recycling bin inventory and receptacle style for consistency and consider options for a dog waste collection program.

- Install and pilot a trash skimming device at Steveston Harbour to capture plastics in waterways and bring awareness to the issue of plastics in the environment.

Additionally, staff will continue to take targeted measures to address reports from Recycle BC relating to material contamination caused by improper material sorting. Key challenges relate to proper segregation of glass and placement of non-program materials in recycling bins (such as butane cylinders, batteries, Styrofoam, etc.). Measures to be undertaken may include a review of barriers to proper sorting of recyclable materials, continued targeted education campaigns, and potential material audits.

Proposed Communication

Subject to Council's direction, the annual "Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste" will be made available on the City's website and through various communication tools including social media channels as part of community outreach initiatives.

Financial Impact

None.

Conclusion

Through the "Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste", the City is providing residents with an annual progress report on Council's leadership and commitment to strategic sustainable waste management and the many recycling and waste management programs and initiatives delivered to the community. By tracking progress and waste diversion, the City is demonstrating Richmond's commitment to responsive services, responsible government and accessible information and communication.



Kristina Nishi
Manager, Recycling and Waste Recovery
(604-244-1280)

KN:lh

Att. 1: Recycling and Solid Waste Management – Report 2022: Taking Action to Reduce Waste

**City of Richmond Recycling
and Solid Waste Management**

REPORT 2022

TAKING ACTION TO REDUCE WASTE



Environmental Programs is responsible for residential garbage and recycling services, including collection, drop-off services at the Richmond Recycling Depot, public spaces recycling and litter collection services.

With Council's leadership and commitment to strategic planning and policy, we strive to help create more sustainable waste management through our programs and services to support a circular economy. We believe that it is our responsibility to support our community and preserve our planet for future generations.

Through outreach and engagement, working with our residents and local businesses, and partnering with local agencies, we also strive to meet and exceed all regional waste diversion goals by continuously expanding our programs and service offerings.

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Richmond's Repair Fairs promote a circular economy by encouraging residents to fix items that need repair instead of disposing of them. In 2022, the City held a Repair Fair focused on bicycles and lawn mowers.

Shifting to a Circular Economy

Richmond is making it a priority to transition to a circular economy through its *Community Energy and Emissions Plan 2050*. In a circular economy, waste is reduced or eliminated by transforming how products and services are designed, manufactured and used. Key strategies include maximizing the value of resources and reducing carbon emissions as well as encouraging responsible consumption and minimizing waste. These actions are part of the global effort to be more sustainable and reduce environmental impacts.

The City of Richmond's sustainable waste management practices are integral to supporting a circular economy, where the materials we buy are used, reused, repurposed and recycled multiple times into new products to reduce reliance on raw materials and help conserve natural resources.

Towards this goal, the City provides multiple programs and services to support recycling, and is implementing measures to reduce waste overall, including its ban on single-use plastic, and through the Rethink Waste community engagement campaign, which encourages community members to reassess buying decisions and take action to reduce waste by reusing and repurposing household items.

Working together with the community, Richmond aims to be a fully circular city by 2050.



TAKING ACTION TO REDUCE WASTE

1.0

Annual Outlook

Richmond is taking action to reduce waste through its single-use plastics ban, expanded community outreach and enhanced services in the community.

In 2022, Richmond implemented a combination of new and enhanced measures to help reduce waste in the community while also promoting consistent waste diversion from the landfill through the City's convenient, customer-focused recycling services and by providing residents with information on how to recycle correctly.

One of the City's primary waste reduction measures was the implementation of the *Single-Use Plastic and Other Items Bylaw No. 10000*, which came into effect in March 2022, with enforcement starting in September, one full year after Bylaw 10000 was adopted by Council. The phased-in implementation approach was designed to provide time for local businesses to use up supplies that would no longer be permitted. Bylaw 10000 bans foam food service ware, plastic checkout bags and plastic straws (including biodegradable/compostable plastic).

As part of the implementation of Bylaw 10000, the City provided businesses with a toolkit to help them transition to acceptable materials as well as point-of-sale communication materials like posters and window decals. The City also continued its comprehensive communications and education program to notify residents that the single-use plastic ban is in effect. The messaging focused on the importance of reducing plastic waste and pollution and encouraged use of reusable items through the City's "Let's Choose to Reuse" campaign.

The City also completed the first phase of its engagement with local businesses to review options to help increase recycling in the commercial sector. Currently, commercial recycling is lagging significantly behind residential. The Commercial Recycling Services Review phases completed in 2022 included outreach to business to identify challenges and opportunities related to recycling as well as an analysis of current waste management and recycling practices and regulations. The overall goal is to identify how the City can support increased commercial recycling in Richmond to ensure sustainable and responsible recycling programs are in place.

In addition to reducing waste going to the landfill by recycling and repurposing materials, the City also continues to promote new ways to reduce waste overall through its Rethink Waste campaign.

As part of continuous improvement, the City remains focused on delivering exceptional, customer-focused programs and services that make it easy and convenient to recycle. This includes its curbside and centralized collection programs as well as the Richmond Recycling Depot, which offers a one-stop recycling centre where residents can drop off a wide variety of household items. In 2022, thermostats were added to the list of accepted items, and the Recycling Depot's service was expanded to provide free drop-off of several categories of recyclable household items for residents in the region through an agreement with Metro Vancouver.

To make it easy for residents to recycle large household items like mattresses, furniture and large appliances, the City also offers its Large Item Pick Up program. Richmond collected more than 3,900 mattresses through its Large Item Pick Up program, and approximately 13,000 furniture items through both Large Item Pick Up and at the Recycling Depot. These items were sent to Canadian Mattress, where they are recycled and repurposed into new products that benefit the community and support a circular economy. (See *Giving New Purpose to Old Furniture* on page 9.)

In addition to promoting increased recycling, the City also focuses on raising awareness about how to recycle correctly through communication and community outreach such as workshops, and at events with the help from Green Ambassador youth volunteers. It's important to recycle correctly to ensure materials will be accepted by processing facilities and to avoid fines.

The City also introduced a pilot program to collect used cooking oil and grease from Richmond multi-family complexes. When these materials are poured down drains, they cause damage to both City pipes and the plumbing in buildings.

To properly assess the program, the City will monitor its pipes in the pilot areas to see if there is a reduction in build-up of these materials and report back to Council with findings and any future recommendations.

While recycling helps to reduce the amount of waste going to the landfill, the City also continues to promote new ways to reduce waste overall through its Rethink Waste campaign.

In 2022, the City built on the success of its first Rethink Waste Think Tank by launching the Holiday Waste Think Tank, which invited community members to share ideas on how to reduce holiday waste. Thanks to the enthusiastic response from the community, 174 ideas were shared, with tips ranging from creative gifts that don't require wrapping or purchasing products to sustainable wrapping ideas, crafts made from repurposed materials and ideas to reduce food waste. The holiday waste reduction ideas were added to the Community Ideas Hub at richmond.ca/rethink.

The City also expanded its community engagement and education activities over the past year. The City sponsored 10 Zero Heroes shows in elementary schools last year for the first time since pandemic restrictions were put in place. The popular educational and interactive shows engage students to teach them how to recycle and reduce waste at home and at school. The City also worked with high school students through its Green Ambassador program and by hosting a Recycling Fair at JN Burnett Secondary School. The Recycling Fair included activities to increase awareness about why it is important to recycle and reduce waste, as well as how to recycle correctly along with a craft demonstration area to repurpose old clothing into pet toys.

The City's community outreach included multiple workshops, both in person and virtual, on how to recycle correctly, how to compost and how to rethink waste as well as a Repair Fair focused on how to fix and maintain bicycles and gas lawnmowers. By repairing and maintaining items, residents can save money and reduce waste by extending the use of these household items.

Looking ahead, the City will continue to support the transition to a circular economy by raising awareness about how to reduce and rethink waste, and by ensuring residents and visitors have access to easy and convenient services to recycle correctly and consistently.

LET'S RETHINK WASTE

Changing our habits to think differently about purchases, avoiding unnecessary waste and finding ways to reuse and recycle products contributes directly to positive outcomes like reducing reliance on raw materials.

Ultimately, it's about shifting to a circular economy, where the materials we use stay in circulation to be used, reused or repaired, and recycled multiple times into new products.

TOP TIPS TO REDUCE WASTE:

- Avoid single-use items – choose reusable instead
- Choose products with minimal packaging
- Buy, sell, trade or donate household items
- Choose products with recycled content
- Repair products when possible
- Rethink – take a moment to assess:
 - Do I need this item?
 - Will it create unnecessary waste?
 - How can it be reused or recycled?

Together we can change habits and make better choices that support a circular economy.



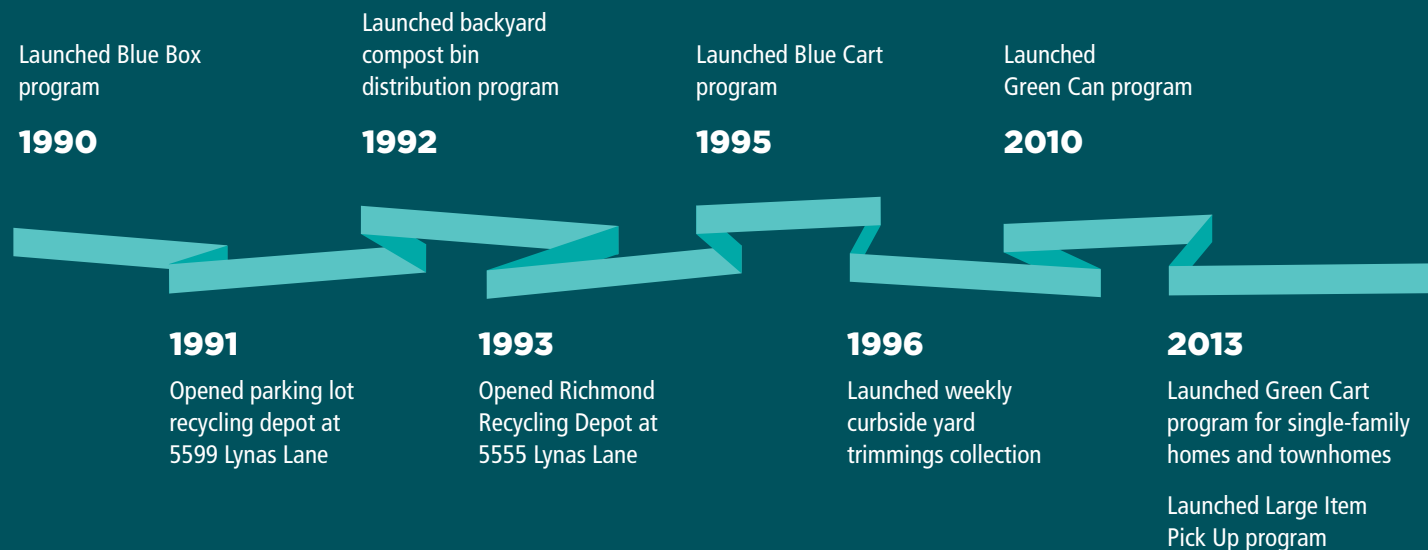
1.1

2022 Top Accomplishments

This report showcases some of the key achievements in 2022 and looks back on the City's top accomplishments over the past 30-plus years.

RECYCLING MILESTONES

Looking back to the 1990s and the past decade, there have been many accomplishments that have helped Richmond reach its goals.



1 COMPLETED IMPLEMENTATION OF SINGLE-USE PLASTIC BYLAW

Bylaw 10000 came into effect on March 27, 2022 and was enforceable starting September 27, 2022.

2 LAUNCHED GREASE RECYCLING PILOT PROGRAM

Implemented a pilot program to collect grease from more than 900 multi-family units in six complexes and monitor the impact to the City's sewer infrastructure.

3 ENHANCED SERVICE AT THE RICHMOND RECYCLING DEPOT

Added thermostats as an accepted item and expanded access to regional customers through an agreement with Metro Vancouver.

4 COMPLETED PHASE 1 OF COMMERCIAL RECYCLING SERVICES REVIEW

Completed door-to-door visits to 307 businesses involving a cross-section of commercial sectors, collected input through in-person and online surveys, reviewed current regulatory environment and completed a jurisdictional review.

5 SUPPORTED GREEN AMBASSADOR PROGRAMS

Green Ambassadors attended 14 symposiums, planning or training sessions, and supported 12 special events with an estimated 1,344 volunteer hours.

6 CONTINUED COMMUNITY OUTREACH PROGRAMS

Hosted displays at City events, held in-person and virtual workshops and Recycling Depot tours, resumed in-person student engagement programs, and implemented the 2022 Holiday Waste Think Tank community engagement campaign.

7 UPDATED AGING PUBLIC SPACES RECYCLING BINS

Replaced aging garbage and recycling bins along No. 3 Road and Railway corridor with standardized containers and new bin labels with updated graphics.

Launched Green Cart program for multi-family complexes

2015

Introduced *Single-Use Plastic and Other Items Bylaw No. 10000*

Expanded Large Item Pick Up Program

Expanded hours and items accepted at Richmond Recycling Depot

2019

Adopted *Single-Use Plastic and Other Items Bylaw No. 10000*

Extended Recycling Depot operations to 7 days a week and expanded items accepted

2021

2016

Launched biweekly Garbage Cart program

2020

Renovated Recycling Depot and expanded items accepted

2022

Implemented *Single-Use Plastic and Other Items Bylaw No. 10000*

Expanded items accepted at Recycling Depot

1.2

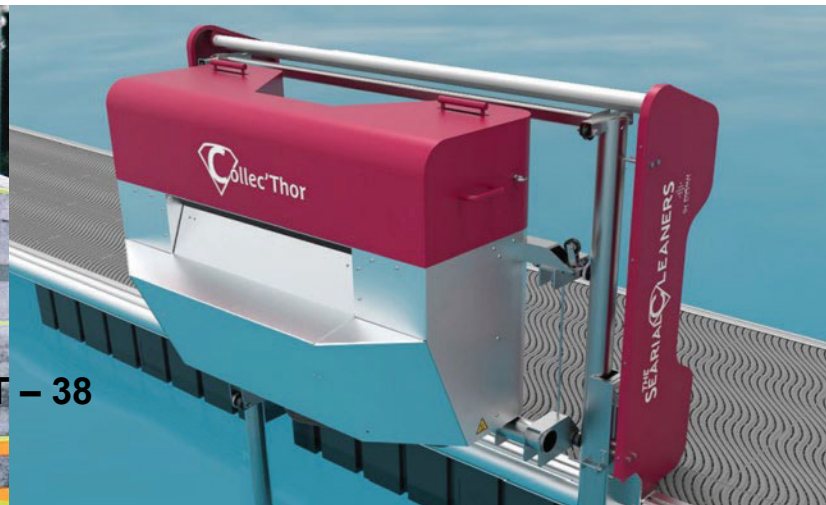
Setting Goals

Richmond's long-term goal is to support a circular economy through sustainable waste management, and the annual goals listed here are designed to help achieve this target.

- 1 COMPLETE COMMERCIAL RECYCLING SERVICES REVIEW**
 Complete the second phase of engagement with the commercial sector, develop recommendations for how the City can support increased commercial recycling, and report back to Council.
- 2 EXPAND OUTREACH**
 Continue to pursue increased community engagement opportunities, encouraging residents to recycle correctly, rethink waste and shift to a circular economy where materials stay in circulation.
- 3 SUPPORT SINGLE-USE PLASTIC REDUCTION**
 Continue education and enforcement of the *Single-Use Plastic and Other Items Bylaw No. 10000*, monitor senior government legislative changes and identify opportunities to further reduce plastic waste at the local level.
- 4 PILOT RECYCLED PLASTIC PAVING AT RECYCLING DEPOT**
 Pave a portion of the Richmond Recycling Depot with asphalt that contains recycled plastic as a binding agent. Richmond is the first city in Canada to integrate MacRebur's patented plastic flake into asphalt.
- 5 INCREASE FOCUS ON YOUTH OUTREACH**
 Expand partnership opportunities with the Green Ambassador program, the school district and other agencies to enhance youth programs and outreach.
- 6 EVALUATE REUSE PROGRAMS**
 Assess feasibility for offering a bike reuse program at the Richmond Recycling Depot and other reuse options to encourage circular economy initiatives.
- 7 INVESTIGATE TEXTILE WASTE MANAGEMENT OPTIONS**
 Assess opportunities for textile waste management and recycling initiatives to help divert textiles from the landfill.
- 8 REVIEW PUBLIC SPACES RECYCLING PROGRAM**
 Review public spaces recycling bin inventory and receptacle style for consistency and consider options for a dog waste collection program.
- 9 TEST RIVER TRASH SKIMMING DEVICE**
 Install and pilot a trash skimming device at Steveston Harbour to capture plastics in waterways and bring awareness to the issue of plastics in the environment.



PWT – 38



1.3

Giving New Purpose to Old Furniture

Most people look at an old couch or mattress and think of it as garbage, or even recycling. But at Canadian Mattress Recycling Inc., the employees also see potential for new products and ways to help local charities.

The City of Richmond started accepting mattresses and boxsprings for recycling in 2013 through its Large Item Pick Up program, and upholstered furniture was added in 2019, both through Large Item Pick Up and at the Richmond Recycling Depot. When the City started accepting these items, there was a corresponding need for a company to recycle them responsibly.

After many years processing mattresses collected by the City, in 2019 Canadian Mattress Recycling Inc. (CMRI) was awarded the contract for upholstered furniture recycling as well.

Over the years, the company has pivoted beyond processing, deconstructing and recycling bulky items. While the company continues to recycle the most common and largest-volume materials salvaged from old beds and furniture, like foam, cotton, metal and wood, it also supports several grassroots initiatives to reuse, donate and repurpose materials.

Initially, in-house programs to reuse and donate materials were driven by an operational imperative – the company could not find commercial buyers or consistent end-users for some of the materials it recycles. But today, supporting local reuse and repurposing of those materials is integral to the company's values.

"I have a hard time throwing things away that I know can be reused and kept out of the landfill," says Terry Plotnikoff, CMRI Founder and Chief Executive Officer. "With our various programs and recycling services, nothing gets thrown away."

In 2022, Richmond collected 16,941 mattresses and upholstered furniture items and sent them to CMRI.



Recycled wood was used to build a haunted western town.

Items that cannot be donated are broken down into their various components and materials for recycling. Throw cushions in clean, good condition are donated to thrift stores and many of the other materials are repurposed to benefit the community.

One of the most popular repurposing initiatives run by CMRI is Classroom Cushion Kits. Staff take the big seat cushions from upholstered furniture, remove and recycle the foam, clean the covers and restuff them with fluffy, reclaimed polyester filling to create floor cushions that are provided for free to elementary schools. Other cushion covers are cleaned and shared with animal shelters as pet bed toppers and blankets or stuffed with polyester to make pet beds.

"We've given thousands of cushions away over the years, sometimes to individual classes and sometimes to the entire school," says Plotnikoff. "This is all separate from our main mattress and furniture recycling services, which is our business side where we generate revenue. The community donation side aligns with my personal values."

In addition to its cushion programs, CMRI sometimes offers people supplies for personal use and projects, like fabrics, wood, furniture legs, plastic foam sheets, coconut fibre mats and fluffy polyester. The company asks for a cash donation in exchange for the shared materials, which it then donates to local charities. In 2022, the company also started a Sewing Volunteer Program. Local talented volunteers use upholstery fabric recycled from furniture to sew new items that are then donated to local groups in need in the Lower Mainland.

"I get most excited when people come by and get a piece of leather or material, or some wood or other items, and then they use it to create new things, like book bags, stuffed toys and even a haunted western town for Halloween," says Plotnikoff. "Mattress recycling is dirty work. It's not glamorous, so it's nice to have something different to do here, and then we see the cool things made out of the materials we provide."

With its focus on donating, repurposing and recycling the materials salvaged from mattresses and furniture, Plotnikoff emphasized the importance of keeping materials dry and clean whenever possible, even when sending them in for recycling, so they can be fully recycled and repurposed.

For information about how to recycle upholstered furniture and mattresses in Richmond, visit richmond.ca/largeitem.



SHARING IDEAS TO REDUCE WASTE

2.0

Tracking Our Progress

As part of tracking its progress, the City of Richmond collects data across a broad spectrum of programs, services and activities. This data shows how residents have improved their recycling over the years, and how new programs are contributing to a circular economy.

The mix of data reported reflects the amount of recycling handled through residential collection programs, the usage and types of materials dropped off at the Richmond Recycling Depot and a breakdown of the different types of recyclable materials that are being diverted from the landfill through multiple recycling programs. As well, the City has a number of outreach initiatives that are aimed at increasing awareness and understanding about how to recycle correctly and consistently.



2.1 Diversion Statistics

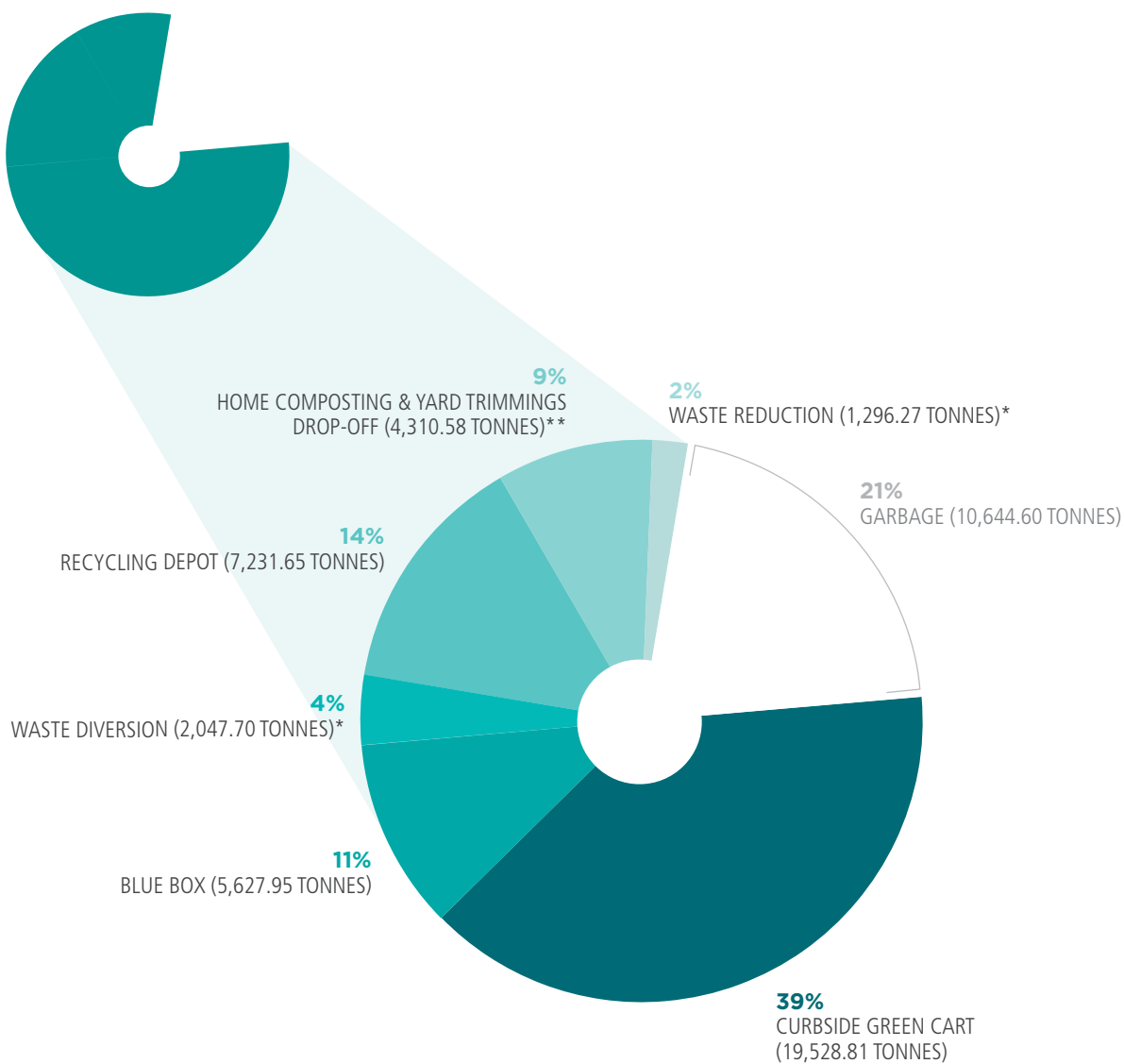
Richmond residents in single-family homes diverted 79% of their waste from the landfill in 2022.

79%
WASTE DIVERSION
ACHIEVED!

SINGLE-FAMILY RECYCLING IN 2022

Residents took advantage of a variety of programs to divert **79% of their waste** from the landfill in 2022.

Residents were able to achieve this waste diversion through a number of recycling and waste reduction opportunities, including curbside and Richmond Recycling Depot collection as well as composting programs.

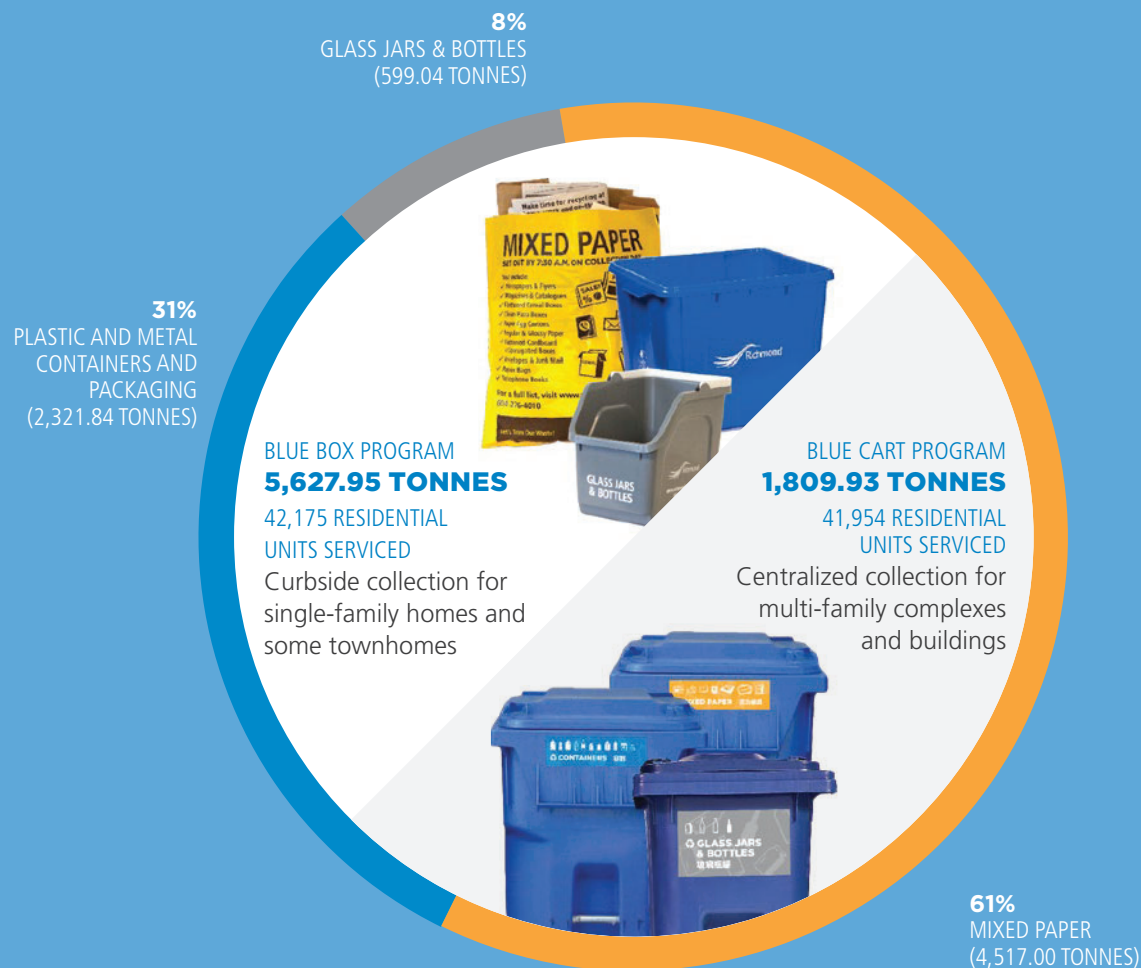


* Estimated

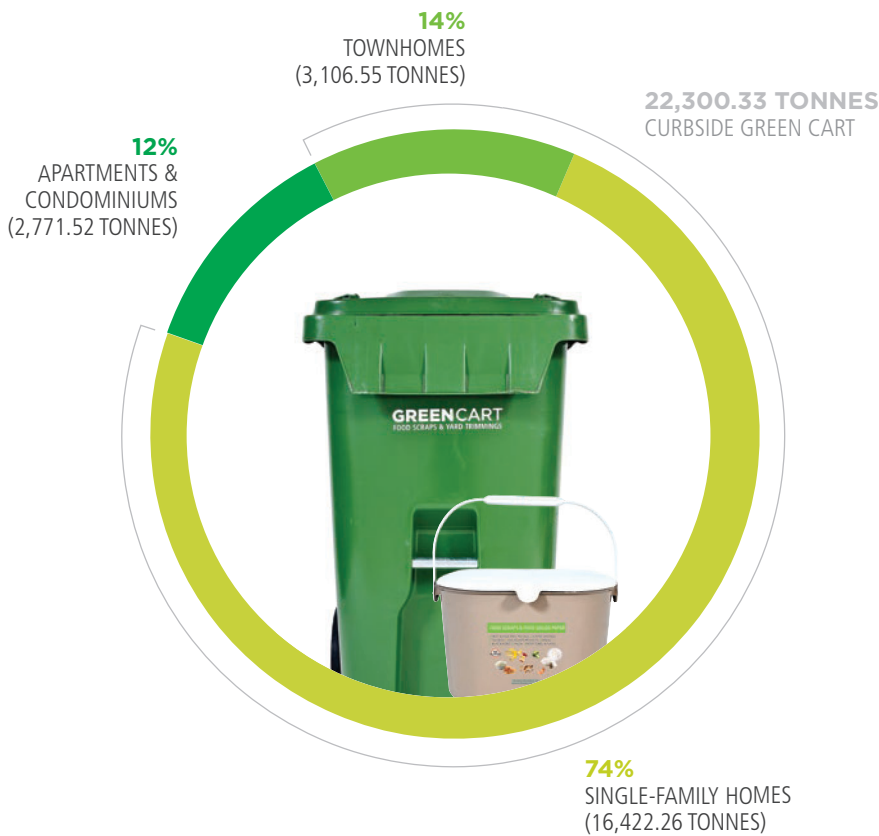
** Includes estimates for home composting, tree chipping and leaf drop-off programs.

BLUE BOX AND BLUE CART PROGRAMS RECYCLING MIX IN 2022

Through the Blue Box and Blue Cart programs, residents recycled a total of **7,437.88 tonnes** of recyclable materials.



RESIDENTIAL GREEN CART RECYCLING IN 2022

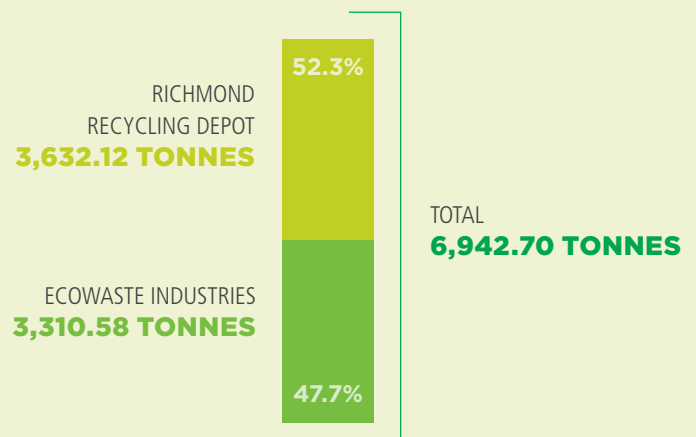


Residents diverted **22,300.33 tonnes** of food scraps and yard trimmings from landfill in 2022 to be composted into new resources.

Richmond's Green Cart program is for residents in single-family homes, townhomes, apartments and condominiums.

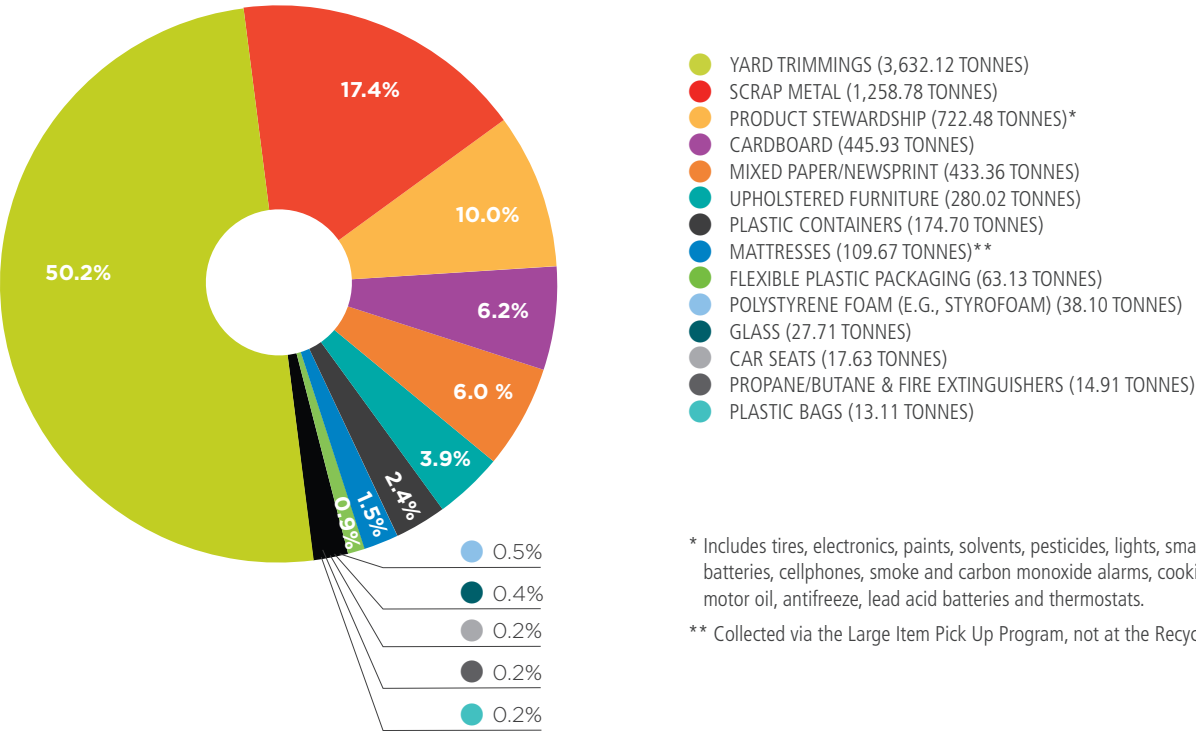
73,168 residential units received weekly collection in 2022.

In 2022, **6,942.70 tonnes** of yard trimmings were collected at the Richmond Recycling Depot and through the Ecowaste residential and commercial drop-off service.

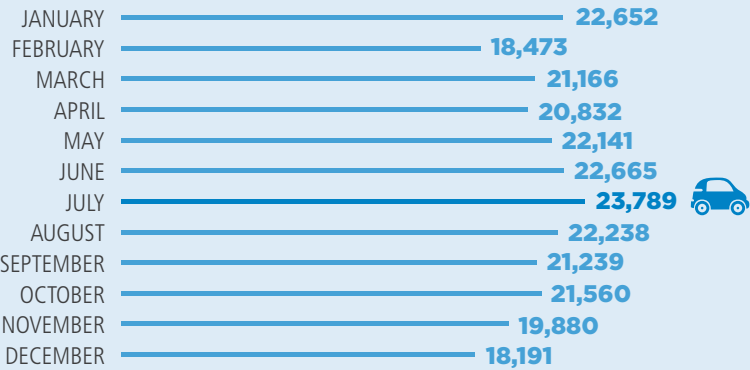


MATERIALS COLLECTED AT THE RICHMOND RECYCLING DEPOT

In 2022, **7,231.65 tonnes** of recyclable materials were collected at the Recycling Depot.



MONTHLY VEHICLE VISITS TO THE RICHMOND RECYCLING DEPOT



In 2022, there were **254,826** vehicle visits to the Richmond Recycling Depot, an average of **698** visits per day.

RECYCLE MORE AT THE RICHMOND RECYCLING DEPOT

Open seven days a week, the Recycling Depot provides a convenient one-stop recycling service. The City continues to increase the list of accepted items, and total tonnage of recycled materials increases each year.



PAINT

261,792
EQUIVALENT
LITRES



AEROSOLS

8,560 EQUIVALENT
LITRES



SOLVENTS & PESTICIDES

16,560 EQUIVALENT
LITRES



CFLS

813 BOXES



FLUORESCENT TUBES

4' – 631 BOXES
8' – 60 BOXES



COOKING OIL

13.91 TONNES



SMALL APPLIANCES

173.84 TONNES



BATTERIES & CELLPHONES

19.16 TONNES



LEAD ACID BATTERIES

19.99 TONNES



ELECTRONICS

263.85 TONNES



SMOKE & CO ALARMS

0.56 TONNES



MOTOR OIL & ANTIFREEZE

52.98 TONNES



TIRES

23.04 TONNES



THERMOSTATS

0.02 TONNES



LARGE ITEM PICK UP IN 2022

43,602 residential units received the service through their curbside programs.

15,372
ITEMS COLLECTED

12,754
REQUESTS
FOR SERVICE

635
TONNES
COLLECTED

480
TONNES
RECYCLED



3,730
MATTRESSES &
BOXSPRINGS



430
WASHERS & DRYERS



223
TELEVISIONS



527
FRIDGES & FREEZERS



349
BARBECUES



169
DISHWASHERS



1,842
COUCHES &
LOVESEATS



1,039
CHAIRS & RECLINERS



257
STOVES &
MICROWAVES



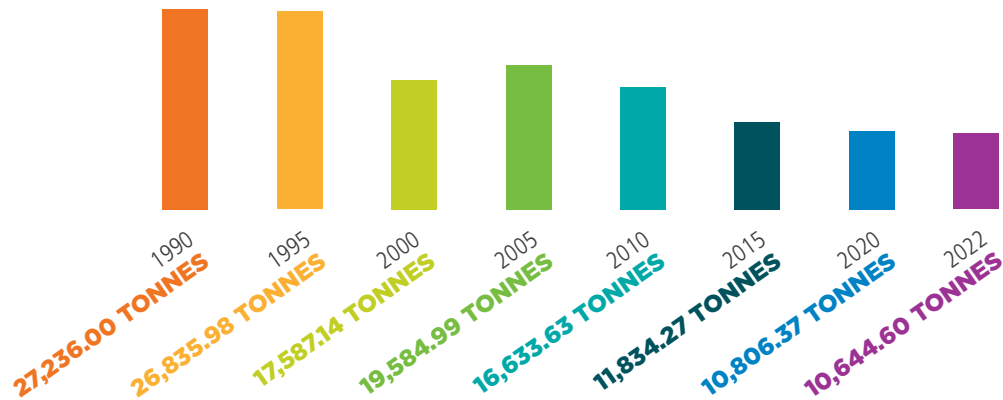
1,601
OTHER RECYCLABLE
ITEMS

5,205
NON-RECYCLABLE
HOUSEHOLD ITEMS
COLLECTED FOR SAFE
HANDLING AND DISPOSAL

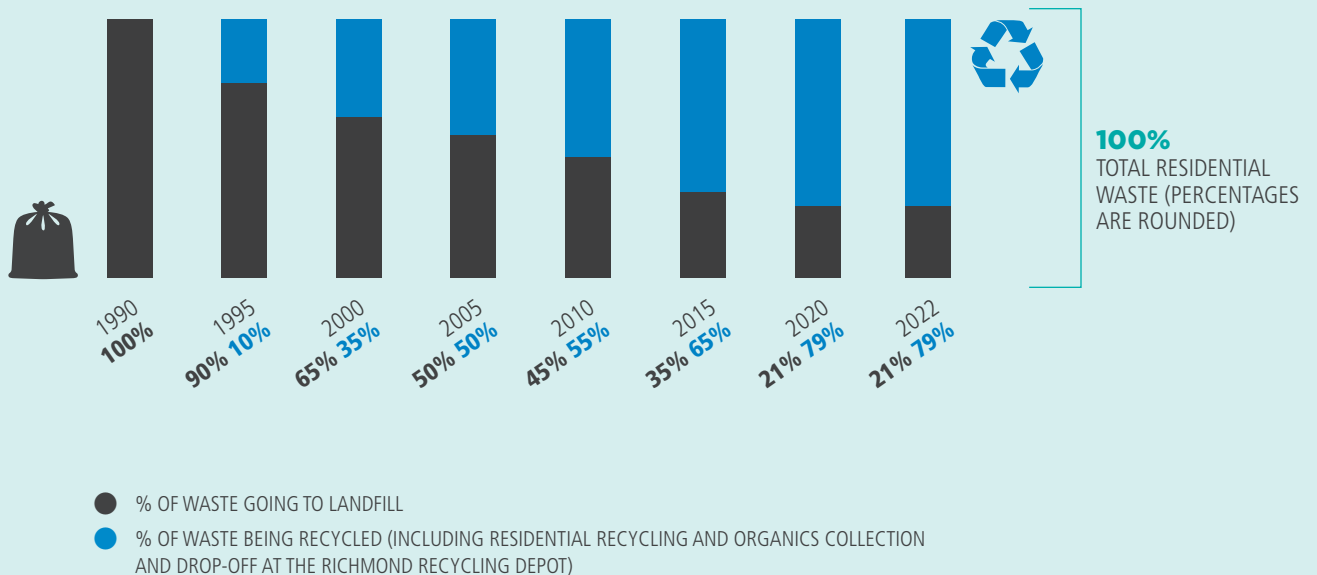
FROM GARBAGE DISPOSAL TO DIVERSION

34,628 residential units received Garbage Cart service in 2022.

SINGLE-FAMILY HOMES GARBAGE COLLECTION OVER 20-PLUS YEARS:



SINGLE-FAMILY HOMES DIVERSION OVER TIME:



A woman with sunglasses on her head and a grey t-shirt with a recycling symbol is pointing at a large recycling guide on an easel. The guide shows various recycling categories with corresponding icons. In the background, there are green recycling bins and a blue table.

2.2

Outreach and Customer Service

Statistics in this section are related to our successful outreach and customer service programs, which are designed to turn education and information into action.

CUSTOMER SERVICE AND OUTREACH

Richmond's Environmental Programs staff share information, tips and resources by phone as well as through outreach events and on the website.

17,735

**CUSTOMER SERVICE
CALLS SUPPORTED**

**470
ATTENDEES**

470 attendees for
18 outreach activities
on various topics

**1,558
HOURS**

**1,558 participant
hours** of youth
volunteering and training

COMPOST BINS, GARBAGE TAGS AND VOUCHERS

134
COMPOST
BINS SOLD

10,012
GARBAGE
TAGS SOLD

1,917
GARBAGE DISPOSAL
VOUCHERS SOLD

GARBAGE, LITTER AND COMMUNITY GARDEN COLLECTION

Crews **travel 3,255 kilometres per week** to inspect and service bins, and **cleaned up 820 cases of illegal dumping**.

13,579
BIN INSPECTIONS
PER MONTH

18,177
BINS SERVICED
PER MONTH

48
COMMUNITY
GARDEN GREEN
CARTS SERVICED
BIWEEKLY

382,320
BIN VISITS PER YEAR,
INCLUDING LITTER
AND GREEN CARTS

COMMUNITY OUTREACH

18 OUTREACH
ACTIVITIES
WITH **470**
PARTICIPANTS

1 Repair Fair with 19 bikes and 2 lawnmowers repaired, and **110 attendees**.

13 Recycling Workshops with a total of **268 participants**.

4 tours of the Richmond Recycling Depot with a total of **92 participants**.

Outreach activities in 2022 included a **mix of in-person and virtual engagement**.

STUDENT OUTREACH

In 2022, **3,155 students** participated in recycling and waste management events and training activities.



GREEN AMBASSADOR (GA) YOUTH PROGRAM

12 special events were supported by GAs, for a total of 965 hours.

965 HOURS

4 GA team-led meetings and planning sessions were held, for a total of 61 hours.

61 HOURS

155 GREEN AMBASSADORS
WITH **1,344 HOURS OF VOLUNTEERING & TRAINING**

318 HOURS

10 GA sessions for training and networking were held, for a total of 318 training hours.

STUDENT OUTREACH

10 ZERO HEROES SHOWS

10 Zero Heroes school shows were presented to 2,770 kindergarten to Grade 7 students and 138 teachers.

16 STUDENTS

16 Grade 7 students and 1 teacher participated in a Holiday Think Tank class activity to share ideas to reduce waste.

214 STUDENTS

214 students participated in a Recycling Fair to learn how to recycle correctly and reduce waste.

ONLINE SEARCH AND TIPS TOOLS



The Richmond Recycling app has been installed **11,978 times** to date, and used a total of **72,675 times**.

19,082
REMINDERS

11,980
PDF CALENDAR
DOWNLOADS

7,387
RECYCLING
GAMES PLAYED

97,693
RECYCLING WIZARD
SEARCHES

TOP MATERIALS SEARCHED ON THE RECYCLING WIZARD – ALL TIME



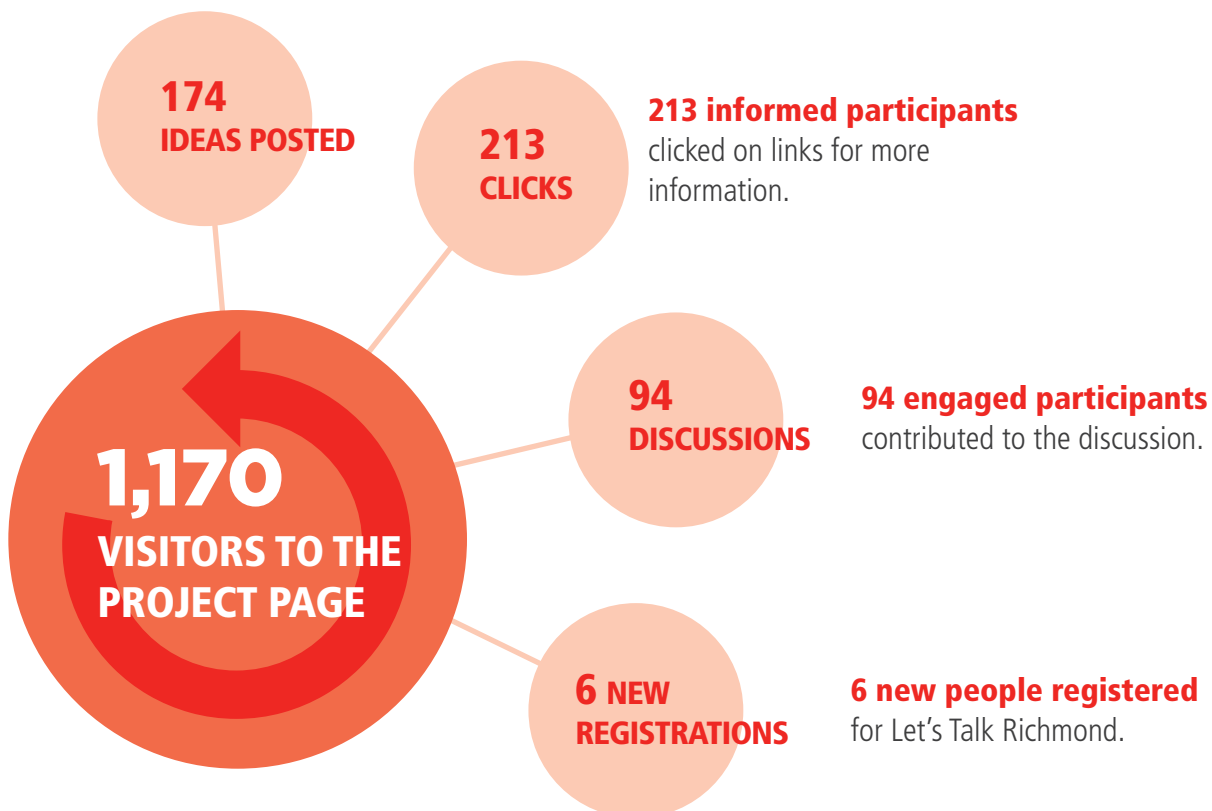
PWT – 53

HOLIDAY WASTE THINK TANK & COMMUNITY IDEAS HUB

Recycling is important, but reducing waste overall is an essential part of responsible waste management and protecting the environment. Building on the success of the initial Rethink Waste Think Tank, the City reached out to the community through Let's Talk Richmond to generate ideas for reducing waste over the holidays.

With **174 posted ideas**, the Holiday Waste Think Tank resulted in a mix of ideas ranging from reducing wrapping and giving gifts that don't involve waste to creative ways to repurpose household items into new gifts and tips for reducing food waste. These ideas were added to the Community Ideas Hub as a resource for residents.

HOLIDAY WASTE THINK TANK RESULTS



COMMUNITY IDEAS HUB

The Community Ideas Hub features tips, resources and other suggestions shared by community members to help change habits and think differently about purchases, avoid unnecessary waste and find ways to reuse and recycle products to support a circular economy and reduce reliance on raw materials.

To view the Community Ideas Hub for tips on how to reduce waste, visit richmond.ca/rethink.

The Community Ideas Hub features ideas to:

**REDUCE
SINGLE-USE
ITEMS**

**REPAIR
HOUSEHOLD
ITEMS**

**REDUCE
FOOD
WASTE**

**RETHINK AND
REPURPOSE
ITEMS**

**DONATE, SELL,
TRADE AND
SHARE ITEMS**

**REDUCE
HOLIDAY
WASTE**

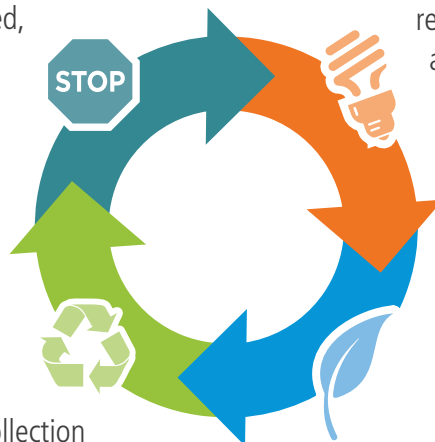
HOW CAN RESIDENTS HELP SUPPORT A CIRCULAR ECONOMY?

1. Stop: Rethink what you're putting in the garbage. Can it be recycled, donated, repurposed or reused?

2. Reduce: Reduce waste by choosing reusable options, repairing items and avoiding single-use products such as bottles, film wrap, plastic bags and Polystyrene foam (e.g., Styrofoam) plates and containers.

3. Reuse: Donate or sell used items in good condition so they can be reused.

4. Recycle: Keep food scraps and food-soiled paper out of the garbage, and recycle other materials through City collection services, the Richmond Recycling Depot and take-back programs.



A large, dark blue recycling symbol (three chasing arrows forming a triangle) is centered in the background. The entire page has a blue background with a repeating pattern of small, light blue icons representing various recyclable materials: paper (books, newspapers, recycling symbols), plastic (bottles, containers), food (tomatoes, broccoli, pizza boxes, bread), and other items (leaves, envelopes).

**LET'S
RECYCLE
CORRECTLY**

3.0

Programs and Services

Richmond residents in single-family homes divert most of their waste, and recycling is increasing in townhomes and other multi-family complexes.

To support residents and their commitment to recycling, Richmond continues to expand services to help residents reduce their garbage and create incentives to promote increased recycling. Green Cart and Blue Box/Blue Cart recycling remain core services to help residents recycle. Residents can also use the Large Item Pick Up program or bring a growing list of recyclable items to the Richmond Recycling Depot and other drop-off facilities.

Richmond works with residents, industry partners, product stewardship groups and businesses to achieve its goal to support a circular economy by implementing sustainable waste management. Through partnerships and community engagement, Richmond's commitment to continuous improvement results in enhanced services to benefit residents.

Through its contract with Recycle BC, the City generates revenue to offset recycling costs for residents; however, the City must also adhere to requirements related to the quality of recycling. If banned items are found in the garbage or contamination is found in recycling, the City can be charged fines and other penalties. These requirements are based on the City's *Solid Waste and Recycling Regulation Bylaw No. 6803*, contract requirements with Recycle BC and organics processing facilities, and Metro Vancouver disposal bans for items that must be recycled as they are not permitted in the garbage.

3.1

Program and Service Overview

Richmond delivers a wide range of recycling and waste management services for residents to ensure that all waste is managed safely and efficiently. The following are the key recycling and waste management services offered through the City of Richmond.



BLUE BOX

The Blue Box program provides weekly curbside collection for paper, newsprint, glass bottles and glass jars, plastic containers, empty aerosol cans, plastic/paper drink cups, spiral wound containers, and tin and aluminium containers. For details, see page 30.



BLUE CART

The Blue Cart program provides weekly centralized collection for paper, newsprint, glass bottles and glass jars, plastic containers, empty aerosol cans, plastic/paper drink cups, spiral wound containers, and tin and aluminium containers. For details, see page 30.



GREEN CART

The Green Cart program provides weekly collection for foods scraps and yard trimmings. This program is provided to residents in single-family homes, townhomes and multi-family complexes. For details, see page 36.



BACKYARD COMPOSTING

Support for residential composting includes the sale of backyard compost bins and a composting demonstration garden. These services are available to all residents. For details, see page 39.



GARBAGE CART

Biweekly collection of garbage, not including banned items such as hazardous waste and materials that can be recycled, is available to residents in single-family homes and some townhomes. Garbage Tags and Garbage Disposal Vouchers for the Vancouver Landfill provide options to residents for disposal of additional garbage. For details, see page 40.



LARGE ITEM PICK UP

Residents with the City Blue Box and/or City Garbage Cart program can arrange for collection of large household items. For details, see page 46.



RICHMOND RECYCLING DEPOT

The Recycling Depot accepts products ranging from yard trimmings and household items to hazardous materials and take-back program products. This service is available to all residents and in limited quantities for commercial operators. The Recycling Depot also sells backyard compost bins, rain barrels, Garbage Tags and Garbage Disposal Vouchers for use at the Vancouver Landfill. For details, see page 42.



LITTER COLLECTION

Litter Attendants are on the road seven days a week to inspect or service garbage and recycling bins more than 7,300 times each week throughout the city, collecting additional litter along the way. For details, see page 49.



PUBLIC SPACES AND EVENT RECYCLING

Recycling bins in the community make it easy to recycle on the go, such as in parks, at community centres, in the Steveston business district and at the Canada Line stations and Richmond central bus stops. Richmond supports community events by loaning garbage and recycling bins for local events at no charge. For details, see Public Spaces Programs on page 48.



COMMUNITY AND SCHOOL ENGAGEMENT

Through partnerships with students, teachers and the School District, Richmond delivers educational workshops, awareness programs and volunteer opportunities to increase understanding of recycling and the benefits of reducing waste. For details, see Outreach and Customer Service on page 50.



3.2

Blue Box and Blue Cart Programs

Richmond's Blue Box and Blue Cart recycling programs provide convenient collection of a wide variety of materials, including mixed paper, plastic containers, paper and plastic drink cups, empty aerosol cans and spiral wound cans like frozen juice concentrate containers as well as glass bottles and glass jars.

Richmond's Blue Box program for door-to-door curbside collection includes a Blue Box for containers, yellow Mixed Paper Recycling Bag for paper and small, flattened cardboard items and a grey Glass Recycling Bin for glass bottles/jars. The Blue Cart program for centralized collection has separately labeled carts for containers, mixed paper and glass.

It is important to ensure materials are sorted correctly into the proper recycling receptacles. For example, recyclables must be placed individually in bins – not stacked, nestled or in plastic bags. Glass bottles/jars must be placed in the Glass Recycling Bin/Cart – not the Blue Box or Containers Recycling Cart.

Also, some items are not accepted in the Blue Cart/Blue Box program, such as non-packaging plastics like toys and laundry baskets, hazardous items like butane cylinders, propane tanks and batteries, and non-packaging metal items like scissors and pans. These items are accepted at the Richmond Recycling Depot.

- ✓ Empty aerosol cans & caps (food items, air fresheners, shaving cream, deodorant, hairspray)
- ✓ Microwavable bowls, cups & lids
- ✓ Paper food containers & cartons
- ✓ Paper & plastic drink cups with lids
- ✓ Plastic containers, trays & caps (bakery containers & deli trays)
- ✓ Plastic & paper garden pots & trays
- ✓ Spiral wound paper cans & lids (frozen juice, potato chips, cookie dough, coffee, nuts, baby formula)
- ✓ Aluminium cans & lids
- ✓ Aluminium foil & foil containers (foil wrap, pie plates, food trays)
- ✓ Plastic bottles & caps (food items, condiments such as ketchup, mustard & relish, dish soap, mouthwash, shampoos, conditioners)

NEW! Accepted items

- ✓ Plastic straws, utensils and stirsticks
- ✓ Plastic food storage containers
- ✓ Plastic hangers
- ✓ Plastic and paper cups, plates and bowls
- ✓ Metal storage containers (e.g. for candy)

- X Aerosol cans with hazardous materials (spray paint)*
- X Butane cylinders*
- X Ceramic plant pots
- X Compostable/biodegradable plastic bags & containers
- X Containers for motor oil, vehicle lubricant or wax products*
- X Foil-lined cardboard lids from take-out containers

- ✗ Garden hoses
- ✗ Plastic bags & overwrap*
- ✗ Plastic string or rope
- ✗ Polystyrene foam (e.g. Styrofoam) materials*
- ✗ Propane tanks*

* Take to the Richmond Recycling Depot



Place materials separately in the bins – don't put recyclables into plastic bags. Bagged items will go in the garbage.



Avoid stacking or nestling items together, instead place them separately in the bins. For example, don't nestle an aluminium can inside a plastic container.



Empty, rinse and flatten containers.
Food or other materials in the
containers contaminate the recycling.
Remove lids and recycle separately.



Separate glass jars and glass bottles and recycle in the grey Glass Recycling Bin or Glass Recycling Cart.



PAPER PRODUCTS: MIXED PAPER RECYCLING BAG/CART



✓ ACCEPTED

- ✓ Newspapers, inserts & flyers
- ✓ Flattened cardboard boxes
- ✓ Catalogues & magazines
- ✓ Cereal boxes
- ✓ Clean pizza boxes
- ✓ Corrugated cardboard (small pieces)
- ✓ Envelopes
- ✓ Junk mail
- ✓ Paper bags
- ✓ Paper egg cartons
- ✓ Paper gift wrap & greeting cards
- ✓ Paper takeout containers (including those with a shiny coating)

- ✓ Telephone books
- ✓ Shredded paper (place inside a paper bag to avoid scattering)
- ✓ Writing paper (notepads, loose leaf paper, white or coloured paper, printed paper)

NEW! Accepted Items

- ✓ Paper party decorations
- ✓ Paper gift bags
- ✓ Paper lunch bags
- ✓ Moving and storage boxes
- ✓ Paper gift boxes

✗ NOT ACCEPTED

- ✗ Cardboard boxes with wax coating
- ✗ Plastic bags used to cover newspapers/flyers
- ✗ Metallic wrapping paper
- ✗ Ribbons or bows

- ✗ Musical greeting cards with batteries
- ✗ Padded envelopes
- ✗ Plastic or foil candy wrappers



Remove plastic liners/covers and/or any food residue.



Put shredded paper in a paper bag before placing in the Mixed Paper Recycling Bag/Cart to avoid scattering.



Cut cardboard into small pieces and flatten boxes to take up less space in the Mixed Paper Recycling Bag/Cart and in the collection truck.



Oversized/excessive amounts of cardboard can be dropped off at the Richmond Recycling Depot.



GLASS JARS & GLASS BOTTLES: GLASS RECYCLING BIN/CART



✓ ACCEPTED

- ✓ Clear or coloured glass bottles and glass jars (pickle jars, jam jars, spaghetti sauce jars, soy sauce bottles)

✗ NOT ACCEPTED

- ✗ Glasses, dishes, cookware, window glass and mirrors
- ✗ Ceramic products
- ✗ Lids and caps (remove from the glass bottle/jar and place in Blue Box/Containers Recycling Cart)



Remove plastic and metal lids and recycle separately in the Blue Box/Containers Recycling Cart.



Empty and rinse jars and bottles. Make sure no food is left inside because it contaminates the recycling.



Set Out Time

Before 7:30 a.m. every week on collection day.

Note: For centralized Blue Cart service, the collection details are arranged between the City and the Strata Council or Property Manager. Residents do not have to set the Blue Carts out for collection.



Report a Missed Collection

Call 604-276-4010 or email garbageandrecycling@richmond.ca.



How to Get More Free Recycling Supplies

Supplies include:

- Blue Boxes
- Glass Recycling Bins
- Indoor Collection Bags
- Mixed Paper Recycling Bags

Three ways to order supplies:

1. Pick up at Richmond Recycling Depot
2. Call 604-276-4010
3. Order online at richmond.ca/recyclesearch

Richmond Recycling Depot

5555 Lynas Lane
Open 7 days a week
(Closed on statutory holidays)
9:00 a.m. to 6:15 p.m.

How to Recycle Correctly

SIMPLE STEPS FOR BETTER RECYCLING



HOW TO RECYCLE CORRECTLY



COMMON MISTAKES

Glass bottles and glass jars are placed incorrectly in the Blue Box or Containers Recycling Cart

Plastic straws, utensils and stir sticks are placed in the garbage

Containers with food residue are not rinsed before recycling

Recyclable items that are not accepted in residential collection are placed incorrectly in the Blue Box / Blue Cart, such as:

- Batteries and cellphones
- Electronics
- Paints and solvents
- Plastic bags
- Polystyrene foam (e.g., Styrofoam)
- Propane tanks and butane containers
- Non-packaging plastics like toys

HOW TO RECYCLE CORRECTLY

Recycle in grey Glass Recycling Bin or Glass Recycling Cart.

Starting in 2023, these can now be placed in the Blue Box or Containers Recycling Cart.

Remove food and rinse before placing in Blue Box or Containers Recycling Cart.

Drop off at Richmond Recycling Depot – 5555 Lynas Lane.

Not sure where to recycle an item?



Use the Recycling Wizard on the free Richmond Recycling app or at **richmond.ca/recyclesearch**

You can find drop-off locations and information on how to recycle a variety of household items using the Recycling Wizard on the free Richmond Recycling app, available at the Apple and Android app stores. Plus, you can schedule weekly collection day reminders, order supplies and play the Recycling Challenge game!



3.3

Green Cart Program

Food scraps are banned from the garbage, which means they must be recycled or composted, and the City can be charged fines and other penalties when organics are found in the garbage. With the Green Cart program, all Richmond residents have access to food scraps recycling and when recycling with a Green Cart, residents are helping turn food scraps and yard trimmings into compost for nutrient-rich soil.

Richmond also encourages organics recycling by providing Green Cart service at no charge at the City-sponsored community gardens.

It is important to ensure that only food scraps, food soiled paper, and yard and garden trimmings go in the Green Cart. When items like plastic bags, polystyrene foam (e.g., Styrofoam) or biodegradable/compostable plastic bags are found in the Green Cart, the load is considered contaminated as these materials are not accepted at processing facilities because they compromise the quality of the compost.

Residents can also create their own compost at home to keep these organic materials out of landfills. Residents can purchase a backyard compost bin at the Richmond Recycling Depot.



GREEN CART FOR FOOD SCRAPS & YARD TRIMMINGS



✓ ACCEPTED

FOOD SCRAPS & FOOD SOILED PAPER

- ✓ Breads, pasta, rice & noodles
- ✓ Coffee grounds & filters
- ✓ Dairy products
- ✓ Fruit
- ✓ Eggshells
- ✓ Meat, poultry, fish, shellfish & bones
- ✓ Paper tea bags
- ✓ Paper towels, napkins & plates
- ✓ Pizza delivery boxes
- ✓ Small amounts of grease/oil absorbed into paper towel
- ✓ Solid grease
- ✓ Table scraps & food scrapings
- ✓ Vegetables

YARD TRIMMINGS

- ✓ Flowers
- ✓ Leaves
- ✓ Grass clippings
- ✓ Other organic yard materials
- ✓ Plants (living or dead/dried)
- ✓ Plant trimmings
- ✓ Tree & hedge prunings (branches must be no more than 10 cm (4 in) in diameter and cut short enough to fit in the Green Cart with the lid closed)

✗ NOT ACCEPTED

- ✗ Coffee cups
- ✗ Compostable & biodegradable plastic bags
- ✗ Garden hoses or flower pots
- ✗ Liquid grease
- ✗ Lumber
- ✗ Pet feces or kitty litter
- ✗ Plastic bags & plastic overwrap
- ✗ Plastic mesh tea bags
- ✗ Plastic wraps
- ✗ Polystyrene foam (e.g., Styrofoam) cups, meat trays or takeout containers
- ✗ Prunings over 10 cm (4 in) in diameter
- ✗ Rocks, dirt or sod

Why can't I put plastic bags in my green cart?

Plastic bags (including compostable or biodegradable bags) do not break down during the composting process and leave behind flecks of plastic that contaminate the compost.



Collect food scraps in your kitchen container. Wrap food scraps in small amounts of newspaper or used paper towel before adding to kitchen container.



Sprinkle kitchen container with baking soda to reduce odours and consider freezing food scraps until you're ready to empty them into the Green Cart.



Keep kitchen container clean by lining it with a few sheets of newspaper, a paper bag liner or used paper towel.



Empty materials from your kitchen container into your Green Cart.



Place yard trimmings into Green Cart along with your food scraps. Extra yard trimmings can go in large paper bags or additional labelled Green Cans.



MULTIPLE GREEN CART SIZES AVAILABLE

Richmond provides Green Carts in multiple sizes to meet residents' recycling needs. Residents can exchange their Green Cart for a different size by contacting the Environmental Programs Information Line at 604-276-4010 or email garbageandrecycling@richmond.ca. There is a \$25 fee for cart exchanges.

SINGLE-FAMILY HOMES CART SIZE SELECTION



Extra Large
360 litres
D 34.5 x W 25 x
H 44.5 inches

STANDARD

Large
240 litres
D 27.5 x W 24.5 x
H 43 inches

Medium
120 litres
D 21 x W 19 x
H 37.5 inches

Small
80 litres
D 21.5 x W 16 x
H 34.5 inches

TOWNHOMES CART SIZE SELECTION



Small
80 litres
D 21.5 x W 16 x
H 34.5 inches

STANDARD

Compact
46.5 litres
D 12 x W 11 x
H 27 inches



BACKYARD COMPOSTING PROGRAMS

Backyard Compost Bins: Backyard compost bins are available for sale at the Richmond Recycling Depot for \$25 plus tax.

Demonstration Garden: To help residents learn about composting, the City hosts a Compost Demonstration area in the Terra Nova Rural Park at 2631 Westminster Highway just west of No. 1 Road. It is open from dawn to dusk year-round.

Compost Hotline: For tips, call 604-736-2250 or email composthotline@telus.net.

YARD TRIMMINGS DROP-OFF

Richmond residents and commercial landscapers can drop off yard trimmings at the following locations.

Ecowaste Industries
15111 Williams Road

Commercial operators can be pre-approved for dropping off materials at no charge when they are servicing residential properties with Richmond Green Cart service.

Visit ecowaste.com or call 604-277-1410 for detailed information.

City Recycling Depot
5555 Lynas Lane
Open 7 days a week
(Closed on statutory holidays)
9:00 a.m. to 6:15 p.m.

There is no charge for dropping off amounts less than one cubic yard (a car, station wagon or minivan load). Large loads are charged a fee of \$25 per cubic yard. Commercial operators will be charged a fee of \$25 per cubic yard at the Richmond Recycling Depot.



Set Out Time

Before 7:30 a.m. every week on collection day.

Note: For centralized Green Cart service, the collection details are arranged between the City and the Strata Council or Property Manager. Residents do not have to set the carts out for pick up.



Report a Missed Collection or Damaged Green Cart

Call 604-276-4010 or email garbageandrecycling@richmond.ca.



How to Exchange your Green Cart

Various cart sizes are on display at the Richmond Recycling Depot. Please note there is a \$25 charge to exchange your cart. To change to an alternative size, please contact:

Environmental Programs
604-276-4010



New/Replacement Kitchen Containers

Three ways to get a kitchen container:

1. Pick up at Richmond Recycling Depot
2. Call 604-276-4010
3. Order online at richmond.ca/recyclesearch



3.4

Garbage Cart Program

Richmond's curbside Garbage Cart program provides residents with convenient options for waste disposal. Household garbage is collected biweekly. The Garbage Cart program includes City-provided carts with wheels and lids and is designed to lower costs for residents who are reducing their garbage by recycling their household waste.

Most household items are recyclable. Residents are encouraged to think twice before putting items in the garbage to help keep recyclables out of the landfill.

It's important to secure or wrap loose garbage to prevent materials from being scattered by wind or animals. Garbage must be securely packed in plastic bags. This includes ashes, kitty litter, disposable diapers, vacuum cleaner sweepings, disposable masks and gloves, and other loose household garbage.

All garbage must be placed at curbside before 7:30 a.m. on collection day but no earlier than 8:00 p.m. the day before. Do not place receptacles or other items on the road.

Residents are responsible for cleaning up any loose materials that have been scattered over the ground by animals, wind or vandalism.



EXTRA ITEM DISPOSAL OPTIONS

Garbage Disposal Vouchers

Richmond residents may purchase a Garbage Disposal Voucher for \$5 at all City facilities. These vouchers are good for up to \$25 at the Vancouver Landfill, and are valid anytime. They are limited to one per household per year.

\$2 Garbage Tags

Garbage Tags for curbside collection are available for purchase at all City facilities. One Garbage Tag is good for an additional garbage bag or can.

Visit richmond.ca/garbage for a list of City facilities selling Garbage Tags and Garbage Disposal Vouchers.

GARBAGE CART SIZE OPTIONS

Residents who select smaller cart sizes are generating less garbage and, as a result, pay less for their annual garbage collection.

Residents can exchange their cart for a different size, and their garbage collection fees will be adjusted according to the size selected. Residents can exchange their Garbage Cart for a different size for \$25 by calling 604-276-4010.



Extra Large
360 litres
D 34.5 x W 25 x H 44.5 in



Large
240 litres
D 27.5 x W 24.5 x H 43 in
**Standard size for
single-family homes**



Medium
120 litres
D 21.5 x W 19 x H 37.5 in
**Standard size
for townhomes**



Small
80 litres
D 20 x W 16 x H 34.5 in



3.5

Richmond Recycling Depot

The Richmond Recycling Depot is located at 5555 Lynas Lane and is open from 9:00 a.m. to 6:15 p.m., seven days a week for drop off of a broad range of materials.

The Recycling Depot is owned and operated by the City of Richmond, with both full-time staff and additional staff support as needed to manage increased recycling volumes. Staff on site are available to answer questions and provide assistance with unloading awkward or heavy items.

The City continues to increase the number of items accepted at the Recycling Depot to make it a convenient, one-stop drop-off location for multiple items. Richmond residents can bring a wide range of recyclable materials at no charge.

Richmond Recycling Depot

5555 Lynas Lane

Open 7 days a week, 9:00 a.m. to 6:15 p.m.
(except statutory holidays)





RECYCLING DEPOT SERVICES

Residents are encouraged to use their weekly collection bins to recycle household items like glass bottles and glass jars, mixed containers and mixed paper. Businesses are encouraged to set up contracts for on-site collection services if they produce a large quantity of recyclable materials. However, residents and small business operators can also drop off recyclable materials at the Recycling Depot.

This facility accepts a wide range of materials, including cardboard, yard and garden trimmings, mixed paper and newspapers, as well as Polystyrene foam (e.g., Styrofoam),

used books, cellphones, household batteries, plastic bags and metal items (e.g., bike frames, barbecues, lawn mowers). The facility is also a product stewardship (take-back) collection site for large and small appliances, paints, solvents, flammable liquids, pesticides, lights and lighting fixtures, tires, electronics, motor oil, batteries, thermostats, and smoke and carbon monoxide alarms.



For Sale at the Recycling Depot

- Compost bins - \$25 each + tax
- Rain barrels - \$30 each + tax
- Extra Garbage Tags - \$2 each
- Garbage Disposal Vouchers - \$5 for Richmond residents and value is up to \$25 at the Vancouver Landfill



Free Recycling Supplies Available at the Recycling Depot

- Food Scraps Kitchen Containers
- Grey Glass Recycling Bins
- Blue Boxes
- Yellow Mixed Paper Recycling Bags
- Indoor Collection Bags
- Green Can Decals

Welcome to the Richmond Recycling Depot!

You'll be amazed by how much you can take – for free – to the Richmond Recycling Depot.

Use the map below to see where to take your items once you arrive at the Recycling Depot. The icons are colour-coded to match the signs at the Depot and help you quickly find your way.

There are always attendants available to help you and to safely handle hazardous recyclable items.



For a virtual tour, visit
richmond.ca/depot



Welcome!

MATERIALS ACCEPTED

- ✓ Aerosol & spiral wound cans
- ✓ Aluminium materials
- ✓ Appliances
- ✓ Baby car seats/booster seats
- ✓ Batteries (lead acid car batteries)
- ✓ Batteries (small household batteries less than 5 kg)
- ✓ Books
- ✓ Butane cylinders
- ✓ Cellphones (including batteries)
- ✓ Cooking oil & animal fat
- ✓ Corrugated cardboard (flattened, clean corrugated boxes)
- ✓ Electronics
- ✓ Exercise & hobby machines
- ✓ Fire extinguishers
- ✓ Flammable aerosols
- ✓ Flammable liquids
- ✓ Flexible plastic packaging, plastic bags & plastic overwrap
- ✓ Flower pots (paper & plastic pots/trays)
- ✓ Gasoline (in approved ULC containers)
- ✓ Glass bottles/jars (clear & coloured)
- ✓ Lights
- ✓ Lighting fixtures
- ✓ Magazines
- ✓ Metal items
- ✓ Mixed paper
- ✓ Motor oil & antifreeze
- ✓ Newspaper
- ✓ Paints (household paints)
- ✓ Paint aerosols
- ✓ Pesticides (domestic pesticides)
- ✓ Plastic containers
- NEW!** ✓ Plastic recycling bags
- ✓ Polystyrene foam (e.g., Styrofoam) packaging
- ✓ Power tools
- ✓ Propane tanks
- ✓ Sewing, knitting & textile machines
- ✓ Smoke & carbon monoxide alarms
- NEW!** ✓ Thermostats
- ✓ Tin & aluminium cans
- ✓ Tires (passenger & light-duty trucks only)
- ✓ Upholstered furniture
- ✓ Yard & garden trimmings

All materials must be sorted into different containers at the Recycling Depot. Please visit richmond.ca/depot for more information.



3.6

Large Item Pick Up Program

Richmond's Large Item Pick Up program provides a convenient curbside collection service for up to six large household items per year, including mattresses, furniture and appliances. This program is designed to make it more convenient for residents to dispose of large household items and to help reduce illegal dumping. As well, through this program, large household items that can be recycled will be diverted from the landfill.

The Large Item Pick Up program is provided to residents in single-family homes as well as townhomes and multi-family complexes with the City's Garbage Cart and/or Blue Box program.

This service makes it easier for residents who do not have access to a vehicle to dispose of large items.

HOW THE PROGRAM WORKS

- 1** To schedule collection of up to six items per year, residents can contact the City's service provider, Sierra Waste Services at 604-270-4722 or schedule online at richmond.ca/largeitem.
- 2** Sierra Waste Services will contact you to provide a pick-up date and confirmation number.
- 3** On your scheduled pick-up date only, place items at the curb, or for multi-family complexes, in the area designated by the strata or property manager, before 7:30 a.m. or no earlier than 8:00 p.m. the night before.

LARGE ITEM PICK UP PROGRAM



✓ ACCEPTED

- ✓ Appliances (e.g., stove, dishwasher, washer and/or dryer, hot water tank, refrigerator, freezer, microwave)
- ✓ Barbecues (remove lava rock briquettes and/or propane tank)
- ✓ Bed frames
- ✓ Electric lawnmowers
- ✓ Exercise equipment (treadmill, elliptical, stationary bike, stair climber, weight set)
- ✓ Furniture (e.g., couch, coffee table, chair, desk, dresser, TV stand, cabinet, table, hutch, crib, high chair, entertainment centre)
- ✓ Headboards
- ✓ Mattresses or boxsprings
- ✓ Outdoor furniture (chair, patio table, patio umbrella)
- ✓ Small household goods, provided they are boxed or bundled and are a reasonable size (one box or bundle is equal to one of the resident's six allotted items)
- ✓ Tires (car and light duty truck)

! PREPARATION REQUIREMENTS

- ! Wrap mattresses in plastic and seal with tape to prevent them from getting wet. Cover boxsprings and upholstered furniture with tarps or plastic to keep them dry. Tarps will be left behind for reuse.
- ! Confirm mattresses, boxsprings and upholstered furniture are free of bedbugs to ensure they are accepted for recycling at the facility.
- ! Remove latch/door from freezers, refrigerators or any other container equipped with a door, latch or locking device.

✗ NOT ACCEPTED

- ✗ Car bodies or parts
- ✗ Carpets
- ✗ Construction and demolition waste (drywall)
- ✗ Gas lawnmowers*
- ✗ Hazardous waste
- ✗ Home renovation items (sinks, flooring, doors, windows)
- ✗ Lumber
- ✗ Mattresses/boxsprings and upholstered furniture that are wet or infested with bed bugs or vermin
- ✗ Propane tanks*
- ✗ Tree stumps

*Take to Richmond Recycling Depot

Not sure where to recycle an item? Use the Recycling Wizard tool on the free Richmond Recycling app to find out where to recycle your item.



3.7

Public Spaces Programs

Maintaining a litter-free community and encouraging recycling in parks and other public spaces is an essential part of responsible and sustainable waste management. Not only does this help to keep the City a beautiful place to live and visit, it also helps to reduce the amount of plastic and other garbage going into oceans and other waterways.

The City has three primary services to support recycling and a litter-free community: Public Spaces services, Litter Collection services and Special Event Recycling.

Because building community pride and increasing responsible behaviours involves working together with the community, the City also works with volunteers through the Partners for Beautification program and community clean-up events.

PUBLIC SPACES SERVICES

The City of Richmond has recycling and garbage bins located throughout the community in public spaces that include parks and business districts. Recycling and garbage bins are serviced or inspected over 7,300 times each week.

The City's bins include instructional bin labels to help inform people about how to sort items correctly. Many of the recycling bins feature images that complement the surrounding scenery, and others feature custom artwork by local artists. To further improve capacity and operational efficiency, the City also has large, in-ground garbage collection bins in high-traffic areas.



LITTER COLLECTION SERVICES

Maintaining a litter-free city is a key focus area to ensure residents can enjoy clean parks and public spaces. The City of Richmond has made efforts to ensure that there are garbage bins, and in many cases recycling options, in public spaces throughout the city.

In addition, City crews work seven days a week to collect litter from parks, school grounds, roadsides, sidewalks and boulevards.

They inspect or service garbage and recycling from litter and recycling receptacles in the community 31,756 times every month. Crews also assist with removing graffiti from City garbage bins, and they collect illegally-dumped materials found on City property and provide safe disposal and recycling of these items.

The extensive work to maintain public spaces and collect litter may go unnoticed, particularly because it is done well and regularly. Richmond residents enjoy the benefits, but may not realize the extent of work involved in maintaining a clean and livable city.

SPECIAL EVENT RECYCLING

Recycling stations are recommended for special event bookings taking place in Richmond. For some events, the City hosts recycling stations with assistance from Green Ambassador volunteers. This involves setting up recycling stations and having recycling volunteers at the event to advise people on how to recycle.

The City also supports events by providing organizers with recycling bins and garbage carts at no charge, as well as complimentary collection services. This makes it easy for event organizers to keep the venue clean and recyclables out of the landfill.

In addition, the City participates in community clean-up events each year.





3.8

Outreach and Customer Service

Richmond's successful outreach and customer service programs are designed to help turn information and education into action.

By working with children and youth through school programs and the Green Ambassadors, Richmond creates a learning environment where students gain a better understanding about recycling and sustainable waste management, and then apply their skills as volunteers and through school activities. The City is also offering more virtual outreach opportunities.

Providing outreach, customer support services and information materials also assists residents by increasing their understanding of how to recycle correctly along with new tools and services to promote recycling at home and on the go.

The Environmental Programs Information Line staff assist customers on the phone, via email and at community events to answer questions, assist with requests relating to garbage and recycling, and provide guidance on where to find additional information and resources. Richmond staff also assist customers directly at the Recycling Depot, and through its outreach programs in the community.

At the Recycling Depot, staff provide assistance with where and how to recycle using its drop-off options, answer questions about City programs and services, and sell products such as compost bins and rain barrels as well as Garbage Tags and Garbage Disposal Vouchers. Through outreach, Richmond goes into the community to connect with residents to share information and respond to questions.



Zero Heroes school shows teach students about the importance of reducing waste and recycling properly and inspire them to become zero waste superheroes.

SEARCH & TIPS TOOLS

Richmond offers the Recycling Wizard to help residents search for where to recycle household items. The Recycling Wizard is available online at richmond.ca/recyclesearch and in the Richmond Recycling app, free from the Apple and Android app stores.

COMMUNITY WORKSHOPS

Richmond's free community workshops provide education and tips that support recycling and waste reduction techniques. A summary of workshops is provided below.

For information on the workshops, call the Environmental Programs Information Line at 604-276-4010, email garbageandrecycling@richmond.ca, or visit the Community Outreach section at richmond.ca/recycle.

RICHMOND GREEN AMBASSADORS

Richmond's Green Ambassadors are dedicated high school students who participate in monthly symposiums to learn about environmental sustainability and apply what they have learned as volunteers at City events and activities. These energetic and environmentally conscious individuals also manage green initiatives in their schools.

STUDENT OUTREACH

Richmond sponsors programs, contests and other activities for local students to raise awareness about the importance of reducing waste and how to recycle correctly. These activities inspire them to feel that taking care of the planet is fun.

TYPE OF WORKSHOP	DESCRIPTION
Recycling Workshops	Learn how to reduce reliance on single-use items and sort household recyclables properly to reduce contamination. Understand the recycling process and the importance recycling has for the environment, including the impact of marine plastic and other hot topics in solid waste management.
Richmond Recycling Depot Tours	Interactive tour of the Richmond Recycling Depot designed to teach residents about the drop-off options available and materials accepted for recycling.



TIPS TO RECYCLE AND REDUCE WASTE

4.0

Tips and Resources

In Richmond, we care about our community, and we are working together with residents and local organizations to reduce waste and promote a circular economy. These Tips and Resources highlight the City's community partners, and provide a guide for how to deal with hazardous waste and other items not accepted in curbside and centralized recycling programs.

With the help of community resources and partnerships, Richmond residents have access to easy and convenient drop-off services and programs to support recycling, safe disposal and waste reduction. This section includes contact information and locations for Richmond services and community partners involved in take-back collection through product stewardship programs. Together, these Tips and Resources help to support maximum recycling and reduce the amount waste going to the landfill.



4.1

Community Resources and Partnerships

ECOWASTE INDUSTRIES

The City offers residents the option to drop off unlimited quantities of yard and garden trimmings for free at Ecowaste Industries. Proof of Richmond residency is required.

Ecowaste Industries:

15111 Williams Road
604-277-1410
ecowaste.com

COMPOST HOTLINE

The Compost Hotline is a community program operated by City Farmer that provides support and tips for best practices in home composting.

Compost Hotline:

604-736-2250
composthotline@telus.net

RICHMOND SHARES

Richmond Shares is a non-profit organization that facilitates the exchange of gently used items.

Richmond Shares: richmondshares.bc.ca

METRO VANCOUVER RECYCLES

Metro Vancouver Recycles helps you find options for recycling products and get helpful links to online services.

Metro Vancouver Recycling Directory:

metrovancoverrecycles.org

RECYCLING COUNCIL OF BRITISH COLUMBIA (RCBC)

RCBC provides information and resources to support recycling in the community.

Recycling Hotline

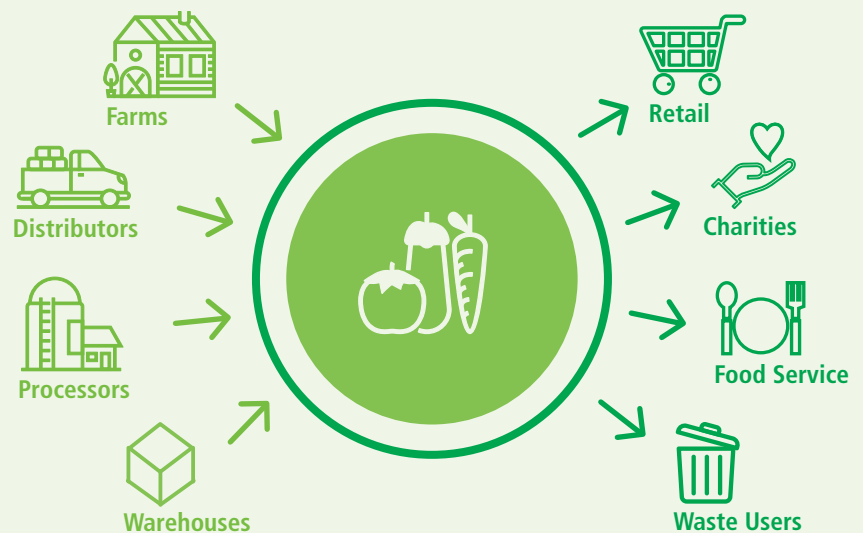
Monday to Friday, 9 a.m. to 4 p.m.
604-RECYCLE (604-732-9253)
hotline@rcbc.bc.ca

CITY OF RICHMOND FOOD RECOVERY NETWORK

Partnering with FoodMesh, this program safely and easily diverts surplus food by bringing together local food businesses with charities and farmers.

Richmond Food Recovery Network:

foodmesh.ca/services-regional/richmond





4.2

Banned and Hazardous Materials

Careless handling of hazardous products can cause serious injury as well as damage to the environment. Hazardous products that are dumped in sewers or green spaces can injure livestock, wildlife and plant life. Careful and often specialized disposal is essential for these materials.

There are certain materials that Metro Vancouver disposal facilities do not accept, either because there are already disposal programs set up for these items or because they are hazardous to waste collection workers, the public and the environment.

At disposal sites, garbage loads are inspected for banned and prohibited materials. Loads that arrive at the disposal sites containing prohibited materials are assessed a \$69 minimum surcharge, plus the cost of removal, clean-up or remediation. Loads containing banned materials are assessed a 50% tipping fee surcharge.

For a list of drop-off locations, use the City's Recycling Wizard available on the Richmond Recycling app and at richmond.ca/recyclesearch, or call the RCBC Recycling Hotline at 604-732-9253.



BANNED HAZARDOUS AND OPERATIONAL IMPACT MATERIALS



- × Agricultural waste
- × Asbestos
- × Automobile bodies and parts
- × Barrels, drums, pails or large (205 litre or greater) liquid containers, full or empty
- × Biomedical waste
- × Dead animals
- × Gypsum
- × Hazardous waste
- × Inert fill material, including soil, sod, gravel, concrete and asphalt exceeding 0.5 cubic metres per load
- × Liquids or sludge
- × Refuse that is on fire, smouldering, flammable or explosive
- × Wire and cable exceeding 1% of load

BANNED MATERIALS THAT ARE RECYCLABLE WITH CITY SERVICES



- × Beverage containers
- × Containers made of glass, metal or banned recycled plastic ♻️♻️♻️♻️
- × Corrugated cardboard
- × Electronics
- × Expanded polystyrene packaging
- × Food waste
- × Green waste
- × Mattresses
- × Motor oil & antifreeze
- × Propane tanks
- × Recyclable paper
- × Tires (passenger & light-duty truck only)

For a complete list of banned materials, please visit metrovancover.org/services/solid-waste/recycling-programs/disposal-ban

4.3

Recycling and Disposal Directory

Many common hazardous household and automotive products must be recycled or disposed through special depots. Disposal sites and take-back collection options for hazardous, banned and other materials are listed on the following pages.

Please note that this information is provided as a reference for your convenience; however, it is not guaranteed. Please call first to confirm that the site is still open to accept these take-back products and to check hours of operation.



ANTIFREEZE AND EMPTY CONTAINERS

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Jiffy Lube 10991 No. 4 Road	604-448-0142
List of accepted items: bcusedoil.com or 604-732-9253.	



APPLIANCES – SMALL

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Best Buy 700-5300 No. 3 Road	604-273-7335
Ironwood Bottle & Return-It Depot 110-11020 Horseshoe Way	604-275-0585
OK Bottle Depot 145-5751 Cedarbridge Way	604-244-0008
Regional Recycling 13300 Vulcan Way	1-855-701-7171
List of accepted items: electrorecycle.ca or 604-732-9253.	



BABY CAR SEATS

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
\$ City of Vancouver Landfill 5400 72nd Street, Delta	604-873-7000
\$ Pacific Mobile Depots (third Saturday of every month) Britannia Community Centre, 1661 Napier Street, Vancouver Lord Byng Secondary School 3939 W 16th Avenue, Vancouver	604-718-5800
\$ Queensborough Landing Return-It Depot Unit A-409 Boyne Road, New Westminster	604-540-4467

Watch for the **blue** listings for items recyclable through the City of Richmond. See Programs and Services starting on page 28 to find out what is accepted through the City's collection and drop-off services.

Disposal Ban – Banned from the landfill and recyclable through retailers, stewardship or take-back programs

Disposal Ban – Banned from the landfill and recyclable through the City and other services

Not Banned – Recyclable through the City and other services

Not Banned – Recycling options are available

\$ **A fee is charged**



BATTERIES – AUTOMOTIVE

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Canadian Tire 35010 No 3 Road 11388 Steveston Highway	604-273-2939 604-271-6651
Kal Tire 2633 No. 5 Road	604-278-9181
Regional Recycling 13300 Vulcan Way	1-855-701-7171

Note: All retailers accept a used battery for each one purchased. Collection sites: recyclemybattery.ca



BATTERIES – HOUSEHOLD AND MOBILE PHONES

Batteries weighing 5 kg or less

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Best Buy 700-5300 No. 3 Road	604-273-7335
Costco 9151 Bridgeport Road	604-270-3647
Home Depot 2700 Sweden Way	604-303-9882
Kwantlen Student Association 8771 Lansdowne Road	604-599-2865
London Drugs 5971 No. 3 Road 3080-11666 Steveston Highway	604-448-4811 604-448-4852
Pharmasave 105-12420 No. 1 Road	604-232-0159
Regional Recycling 13300 Vulcan Way	1-855-701-7171
Rona (batteries only) 7111 Elmbridge Way	604-273-4606
Staples 8171 Ackroyd Road 110-2780 Sweden Way	604-270-9599 604-303-7850
The Source 1113- 6551 No. 3 Road	604-273-1475
Value Village 8240 Granville Ave	604-248-2285

Batteries accepted: call2recycle.ca or 1-888-224-9764.

Mobile phone drop-off sites: call2recycle.ca/locator.

All cellular/mobile phone stores accept used cellular/mobile phones for refurbishing or recycling.



BUTANE CYLINDERS

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010



CARBON MONOXIDE (CO), SMOKE AND COMBINATION SMOKE & CO ALARMS

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
London Drugs 5971 No. 3 Road 3080-11666 Steveston Highway	604-448-4811 604-448-4852
Regional Recycling 13300 Vulcan Way	1-855-701-7171
Rona 7111 Elmbridge Way	604-273-4606

Complete list of alarms accepted: productcare.org or 604-732-9253.



ELECTRONICS: Audio-visual equipment, computers, monitors, televisions, printers, fax machines, scanners, video games and accessories

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Best Buy 700-5300 No. 3 Road	604-273-7335
Blundell Return-It Centre 130-8180 No. 2 Road	
Ironwood Bottle & Return-It Depot 110-11020 Horseshoe Way	604-275-0585
OK Bottle Depot 145-5751 Cedarbridge Way	604-244-0008
Regional Recycling 13300 Vulcan Way	1-855-701-7171
Staples 8171 Ackroyd Road 110-2780 Sweden Way	604-270-9599 604-303-7850

Complete list of materials accepted: return-it.ca/electronics or 604-473-2400.



EXERCISE AND HOBBY MACHINES

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Regional Recycling 13300 Vulcan Way	1-855-701-7171

Complete list of materials accepted: return-it.ca/electronics or 604-473-2400.

**EYEGLASSES****DROP-OFF LOCATION**

Drop off at any local optometrist or eye care professional.

**FIRE EXTINGUISHERS****DROP-OFF LOCATION****PHONE**

Richmond Recycling Depot
5555 Lynas Lane

604-276-4010

 Vancouver Fire
22131 Fraserwood Way

604-232-3473

**FLAMMABLE LIQUIDS, PESTICIDES, SOLVENTS AND GASOLINE****DROP-OFF LOCATION****PHONE**

Richmond Recycling Depot
5555 Lynas Lane

604-276-4010

Regional Recycling
13300 Vulcan Way

1-855-701-7171

Complete list of accepted items: productcare.org or 604-732-9253.

GENERAL HAZARDOUS MATERIALS**DROP-OFF LOCATION****PHONE**

 Secure Energy
160-13511 Vulcan Way

604-214-7000

**GYPSON DRYWALL**

No other materials attached to or on drywall

DROP-OFF LOCATION**PHONE**

 City of Vancouver Landfill
5400 72nd Street, Delta

604-873-7000

 New West Gypsum Recycling
11871 Horseshoe Way

604-247-1664

Vancouver Transfer Station
(maximum 1/2 sheet with
a paid load of garbage)
377 W. Kent Avenue N., Vancouver

604-873-7000

**HYPODERMIC NEEDLES****DROP-OFF LOCATION**

Purchase a "Sharps Container" from a pharmacy and return the container to same pharmacy when full.
Complete list of drop-off locations:
healthsteward.ca/returning-medical-sharps.

**LIGHTS AND LIGHTING FIXTURES****DROP-OFF LOCATION****PHONE**

Richmond Recycling Depot
5555 Lynas Lane

604-276-4010

Canadian Tire (lights only)
11288 Steveston Highway

604-271-6651

Ironwood Return-It Depot
110-11020 Horseshoe Way

604-275-0585

OK Bottle Depot
7960 River Road

604-244-0008

Regional Recycling
13300 Vulcan Way

1-855-701-7171

Rona
7111 Elmbridge Way

604-273-4606

Accepted items: productcare.org or 604-732-9253.

**LUBRICATING OIL (USED), OIL FILTERS AND PLASTIC OIL CONTAINERS****DROP-OFF LOCATION****PHONE**

Richmond Recycling Depot
5555 Lynas Lane

604-276-4010

Accepted items: bcusedoil.com or 604-732-9253.


**MATTRESSES AND BOXSPRINGS****DROP-OFF LOCATION****PHONE**

 Canadian Mattress Recycling
1210 Cliveden Avenue, Delta

604-777-0324

 City of Vancouver Landfill
5400 72nd Street, Delta

604-873-7000

 Vancouver Transfer Station
377 W. Kent Avenue N.,
Vancouver

604-873-7000

Richmond's Large Item Pick Up Program: Contact
Sierra Waste at 604-270-4722. Some restrictions
apply. Program details: richmond.ca/largeitem.



MEDICAL DEVICES AND EQUIPMENT

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
OK Bottle Depot 145-5751 Cedarbridge Way	604-244-0008
Regional Recycling 13300 Vulcan Way	1-855-701-7171



MUSICAL INSTRUMENTS (ELECTRONIC)

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
OK Bottle Depot 145-5751 Cedarbridge Way	604-244-0008
Regional Recycling 13300 Vulcan Way	1-855-701-7171



PAINT AND PAINT AEROSOL CONTAINERS

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Ironwood Bottle & Return-It Depot 110-11020 Horseshoe Way	604-275-0585
Regional Recycling 13300 Vulcan Way	1-855-701-7171

Complete list items accepted: productcare.org or 604-732-9253.



PHARMACEUTICAL DROP-OFF LOCATION

All pharmacies accept leftover or outdated prescription drugs, non-prescription medications, herbal products, mineral supplements, vitamin supplements and throat lozenges for safe disposal.

For a list of pharmacies and/or drugs, medications, herbal products and mineral supplements accepted, visit healthsteward.ca/returning-medications/#drop-off-map or call 604-732-9253.

Note: Please do not wash these items down the drain or throw them in the garbage.



POLYSTYRENE FOAM (E.G., STYROFOAM) - MOLDED PACKAGING & FOOD CONTAINERS

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Ironwood Bottle & Return-It Depot 110-11020 Horseshoe Way	604-275-0585
London Drugs 5971 No. 3 Road 3080-11666 Steveston Highway	604-448-4811 604-448-4852
Queensborough Landing Return-it Depot Unit A-409 Boyne Road, New Westminster	604-540-4467



POLYSTYRENE FOAM (E.G., STYROFOAM) - PEANUTS/CHIPS

DROP-OFF LOCATION	PHONE
Packaging Depot 6360 Kingsway, Burnaby 5524 Cambie Street, Vancouver	604-451-1206 604-325-9966



PROPANE TANKS: Refillable & Disposable

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
City of Vancouver Landfill 5400 72nd Street, Delta	604-873-7000

Note: Free drop-off of up to four disposable tanks and two refillable tanks.



OUTDOOR POWER EQUIPMENT

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Regional Recycling 13300 Vulcan Way	1-855-701-7171



SEWING, KNITTING & TEXTILE MACHINES

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Ironwood Bottle & Return-It Depot 110-11020 Horseshoe Way	604-275-0585
OK Bottle Depot 145-5751 Cedarbridge Way	604-244-0008
Regional Recycling 13300 Vulcan Way	1-855-701-7171



TELUS EQUIPMENT (RENTAL OR RETAIL) DROP-OFF LOCATION

All TELUS rental or retail equipment such as cordless/corded phones, Voice Over IP (VOIP) phones, Global Positioning System (GPS) equipment and video/telephone conference equipment can be returned via Canada Post. Call 604-310-2255 for more information.



THERMOSTATS

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Andrew Sheret Ltd. 4500 Vanguard Road	604-278-3766
Cape Construction (2001) Ltd. 633-5960 No. 6 Road	604-232-8608
Vancouver Zero Waste Centre (maximum 2) 8588 Yukon Street, Vancouver	604-873-7000

Drop-off locations: hrai.ca/public-drop-off-locations or 1-800-267-2231 ext 224.



TIRES – VEHICLES

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot (no rims) 5555 Lynas Lane	604-276-4010
Island City Automotive 180-5400 Minoru Blvd	604-273-4023
Canadian Tire (no rims) 3500 No. 3 Road 11388 Steveston Highway	604-273-2939 604-271-6651
Kal Tire 2633 No. 5 Road	604-278-9181
Metro Tires Ltd. 16160 River Road	604-321-9004
OK Tire (only 4 per household) 5831 Minoru Boulevard	604-278-5171
Redline Automotive Ltd. 1-11711 No. 5 Road	604-277-4269
Vancouver Landfill (Passenger/light truck, with/without rims, limit of 10) 5400 72nd Street, Delta	604-873-7000

Richmond's Large Item Pick Up Program: Contact Sierra Waste at 604-270-4722. Some restrictions apply. Program details: richmond.ca/largeitem.

Complete list of locations: tsbc.ca/recycle-your-tires/ or 1-866-759-0488.

All retail locations accept a used tire for a new one purchased.



TIRES AND TUBES – BICYCLES

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Cap's/Krusty's Bicycles 135-8460 Alexandra Road	604-270-2020
Village Bikes (small amounts) 3891 Moncton Street	604-274-3865

List of locations: tsbc.ca/bike.php or 1-866-759-0488.



TOOLS - POWER (ELECTRONIC & ELECTRICAL)

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Ironwood Bottle & Return-It Depot 110-11020 Horseshoe Way	604-275-0585
OK Bottle Depot 145-5751 Cedarbridge Way	604-244-0008
Regional Recycling 13300 Vulcan Way	1-855-701-7171
Richmond Return-It Depot 135-8171 Westminster Hwy	604-232-5555



TOYS (ELECTRONIC & ELECTRICAL) INCLUDING VIDEO GAMING SYSTEMS & ACCESSORIES


DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
Best Buy 700-5300 No. 3 Road	604-273-7335
Ironwood Bottle & Return-It Depot 110-11020 Horseshoe Way	604-275-0585
OK Bottle Depot 145-5751 Cedarbridge Way	604-244-0008
Regional Recycling 13300 Vulcan Way	1-855-701-7171



UPHOLSTERED FURNITURE (COUCHES, ARMCHAIRS, ETC)

DROP-OFF LOCATION	PHONE
Richmond Recycling Depot 5555 Lynas Lane	604-276-4010
 Canadian Mattress Recycling 140-715 Eaton Way, Delta	604-777-0314
 City of Vancouver Landfill 5400 72nd Street, Delta	604-873-7000

Richmond's Large Item Pick Up Program: Contact Sierra Waste at 604-270-4722. Some restrictions apply. Program details: richmond.ca/largeitem.



Our thanks go to Richmond residents who have helped us divert the majority of our household waste from the landfill through consistent recycling, as well as their continued efforts to reduce waste.

Together, we are making continuous improvements that support a circular economy and more sustainable waste management.



CITY OF RICHMOND

Environmental Programs Information Line:

604-276-4010

richmond.ca/recycle

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