



City of Richmond

Report to Committee

TO POT - MAY 24 2012

To: Public Works and Transportation Committee

Date: April 25, 2012

From: Tom Stewart, ASCT.
Director, Public Works Operations

File: 10-6370-01/2012-Vol
01

Re: **Report 2011: Recycling and Solid Waste Management - Together We're Making Change Happen**

Staff Recommendation

That the "2011 Recycling and Solid Waste Management - Together We're Making Change Happen" annual report be endorsed and made available to the community through the City's website and other communication medium.

Tom Stewart, ASCT.
Director, Public Works Operations
(604-233-3301)

Att. 1

FOR ORIGINATING DEPARTMENT USE ONLY			
ROUTED TO:	CONCURRENCE		CONCURRENCE OF GENERAL MANAGER
Sustainability	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
REVIEWED BY TAG	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	REVIEWED BY CAO
			YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

Staff Report

Origin

The City has established a waste diversion target of 70% by 2015, aspiring to 80% by 2020 in accordance with the regional Integrated Solid Waste and Resource Management Plan (ISWRMP). In addition, Council has established the Solid Waste Strategic Program as a key aspect of the corporate Sustainability Framework, with the overarching goal of a “Recycling Smart City, where excellence in recycling and solid waste management is continuously pursued to ensure waste generation is minimized and reuse, recycling and material recovery opportunities are maximized and accessible for the community”. The 70% waste diversion target is a key target within the Sustainability Framework and is one of ten sustainability targets that has been adopted by Council.

In order to track progress and report back to the community with an annual outlook on our programs, the *Report 2011: Recycling and Solid Waste Management – Together We're Making Change Happen* is presented (**Attachment 1**). This report highlights Richmond's comprehensive programs to support residential recycling, public spaces recycling, litter control and responsible waste management, as well as related partner programs to facilitate safe disposal of special waste items and recycling through take-back programs.

Analysis

The City offers a progressive suite of recycling services and educational outreach programs to make recycling easy and convenient for residents, while at the same time, promoting waste reduction and reuse opportunities. Through these programs, residents in single-family homes are now recycling 55% of their waste, up 5% over prior years. Collectively, all residents, including those in single-family, townhouses and apartments are recycling 50% of their waste. As highlighted in the City's 2011 progress report, the City's efforts have ensured that despite population growth, our overall waste disposal is decreasing, i.e. since 2009, the population has increased from 193,505 to 199,141 residents; yet garbage disposed has decreased from 68,300 tonnes to 61,100 tonnes over the same period.

The *Report 2011: Recycling & Solid Waste Management – Together We're Making Change Happen* highlights key accomplishments including:

- Development of the Solid Waste Strategic Program as a component of the City's Corporate Sustainability Framework.
- A public spaces recycling pilot program, “Go!Recycle” – At Home or on the Go, Recycle! in the Steveston Business District, Garry Point Park, Hugh Boyd Park and Steveston Community Centre areas.
- A pilot food scraps recycling program for townhomes, i.e. the “Green Cart” program.
- Expanded collection services at the City's Recycling Depot.
- Increased recycling rates for residents in single-family homes, i.e. to 55%.

Proposed Communication

Subject to Council approval, the *Report 2011: Recycling and Solid Waste Management* will be posted on the City's website and made available through various communication tools including social media channels and as part of community outreach initiatives.

Report Overview

The 2011 report contains five chapters that summarize outcomes and accomplishments in current waste management and recycling services, public education/community outreach programs, and partnership programs. The report highlights Richmond's outlook for future initiatives and includes a comprehensive tips and resources section. The report content includes useful information such as what recycled materials are used for as new resources, tips for residents and did you know facts to facilitate understanding of the importance of waste diversion and increased participation in recycling programs.

A summary overview of each chapter follows.

Chapter 1: Annual Outlook – Let's get to 70% Diversion is an overview of the accomplishments towards the City's goals and new programs implemented in 2011. The Annual Outlook also provides the context for the need to divert waste and the related policies and strategies in place to support achieving these goals. This overview features the importance of Richmond's sustainability initiatives and provides linkages to how recycling and solid waste management support these objectives. As well, the Annual Outlook provides a brief summary of the new initiatives and service targets for the upcoming year.

Chapter 2: Programs and Services – Delivering Excellence in Recycling and Waste Management describes the City's comprehensive recycling and waste reduction initiatives and highlights how each program contributes to overall diversion targets and sustainability goals. Details on the quantities collected through programs such as Blue Box, Blue Cart, the Recycling Depot, Yard Trimmings Drop Off, Green Can, the Green Cart Pilot Project and the Go!Recycle program are provided. This section also includes helpful information on tipping fee trends, materials which are banned or prohibited from disposal and measures the City takes to promote recycling space in commercial and multi-family buildings.

Chapter 3: Outreach and Customer Service – Supporting Awareness and Education presents the City's commitment to support waste reduction and reuse by providing residents information and education through workshops and displays. Our extensive public education and community outreach initiatives aim to raise awareness and foster sustainable behaviours where recycling and waste reduction practices become a way of life. Free workshops on composting, waste reduction, eco-cleaning, reuse and more are offered throughout the year, as are outreach displays at various events. City staff partner with the Richmond School District to engage both high school and elementary school students to promote sustainable stewardship behaviours. City staff members mentor the High School Green Teams by hosting information-sharing meetings and coordinating Green Team volunteers at community events.

Chapter 4: Working in Partnership – To Improve Waste Management provides an overview of the City of Richmond’s many partners in the community and the region. Working together, the City and its partners strive to raise awareness of safe disposal drop-off options for hazardous materials that are banned or prohibited from landfills, and to promote waste reduction and recycling efforts. This section also describes product categories under existing take-back programs and associated stewardship agencies as well as products being considered for expanded recycling.

Chapter 5: Tips and Resources – provides a comprehensive guide to recycling. This chapter includes specific information on how and what to recycle in the City’s Blue Box, Blue Cart and Green Can Programs. There is information on how to compost at home, the items accepted for recycling at Richmond’s Recycling Depot, what to do with many household items ranging from flower pots to recyclable mattresses and box-springs. The resources section also includes information on what to do with special waste items and banned materials, including recycling and disposal options through take-back programs. There is also contact information and locations for Richmond services and community partners involved in stewardship programs.

Moving Forward

As the City continues to grow and expand our services to further advance toward 70% waste diversion, key focus areas going forward include:

- Enhance and expand recycling opportunities through options such as an Eco-Centre.
- Expand public spaces recycling, i.e. at City facilities, events and other streetscapes.
- Explore initiatives to increase recycling in multi-family, mixed use and potentially the commercial sector.
- Expand food scraps recycling for residents in multi-family developments.
- Expand communications to increase participation in existing and emerging recycling programs.
- Continue involvement in regional planning and implementation efforts for the ISWRMP.

Financial Impact

None.

Conclusion

Through the *Report 2011: Recycling and Solid Waste Management – Together We’re Making Change Happen* annual report, The City is providing its residents with a progress report of the many recycling and waste management programs and activities delivered in the community. The report also serves as a comprehensive resource and guide that supports recycling, reuse and reduction activities throughout the year. By tracking progress towards its goals for waste diversion and reporting this to the community, the City is demonstrating Richmond’s commitment to responsive services, responsible government and accessible information and communication.

April 25, 2012

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A handwritten signature in dark ink, appearing to read 'S. Bycraft', with a stylized flourish at the end.

Suzanne Bycraft
Manager, Fleet & Environmental Programs
(604-233-3338)

City of Richmond

REPORT 2011

RECYCLING AND SOLID WASTE MANAGEMENT



TOWARDS 70% DIVERSION — TOGETHER, WE'RE MAKING CHANGE HAPPEN

Let's trim our waste

CNCL - 222

**LET'S
TRIM
OUR
WASTE!**

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**TOGETHER,
WE'RE GOING
TO REACH
OUR GOAL**

ANNUAL OUTLOOK

LET'S GET TO 70% DIVERSION!

TOGETHER, WE'RE MAKING CHANGE HAPPEN

In Richmond, we take pride in our community, strive to protect the environment and work together towards improving our City for future generations. Residents demonstrate this community culture in multiple ways, ranging from volunteering to recycling and responsible waste management. The City of Richmond supports residents through programs and services, and together we're making change happen.

Over the past 10 years, Richmond has consistently tracked a trend towards increasing recycling. Richmond's Council recognizes the importance of these steps towards waste diversion and the importance of achieving the City's vision to be a sustainable community. To help support this trend, Richmond's Council has consistently approved new programs such as public spaces recycling and Green Can food scraps recycling. Programs like these make it easy to increase recycling at home and when on the go in the community. Equally important is the trend towards reduced waste overall. Richmond's goal is to divert waste by 70% in 2015, aspiring to 80% by 2020, and this will be achieved through a combination of increased recycling and reduced waste being generated. It is notable that the amount of waste going to landfill in 2011 was *lower* than 2010 and recycling was at about the same level. This indicates an important new step in Richmond's waste management — an overall reduction of waste being disposed.

Reducing waste is critical for advancing overall sustainability. It preserves resources and supports long-term supply. It also helps reduce greenhouse gas emissions and decrease climate change impacts. In addition, responsible waste management helps ensure that toxic materials are managed appropriately to protect the health and safety of people and the natural environment.

Richmond recognizes the importance of supporting residents in their efforts to use less and recycle more and has incorporated solid waste as priority goal in the City's Sustainability Framework. The Framework sets a solid waste goal to be a "Recycling Smart City" where excellence in recycling and solid waste management is continuously pursued to ensure waste generation is minimized and reuse, recycling and material recovery opportunities are maximized and accessible for the community.

The Framework embeds the 70% community-wide waste diversion target and includes a commitment to develop a corporate waste reduction target to help the City measure how, as a business, its own actions are contributing to the larger community target. The corporate target will also help the City reduce its own resource consumption, corporate carbon footprint and operational expenditures.



THREE EASY STEPS

Richmond can achieve its targets with the help of community commitment to these three easy steps to reduce waste:

1 REDUCE

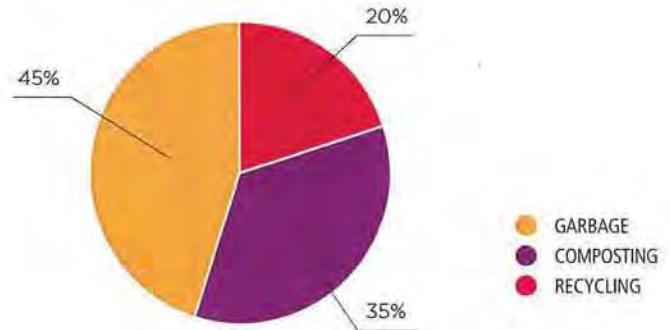
BE CHOOSY WHEN YOU SHOP — SELECT PRODUCTS WITH MINIMAL OR NO PACKAGING AND ITEMS THAT CAN BE RECYCLED.

2 REUSE

DONATE BEFORE YOU DISPOSE — CONSIDER DONATING OR SELLING GENTLY USED PRODUCTS. SEE TIPS AND RESOURCES FOR A LIST OF SERVICES AVAILABLE TO MAKE IT EASY TO REUSE PRODUCTS.

3 RECYCLE

RAMP UP RECYCLING — EXPAND YOUR RECYCLING TO INCLUDE FOOD SCRAPS AND OTHER RECYCLABLE MATERIALS ACCEPTED THROUGH RICHMOND'S COLLECTION SERVICES, RECYCLING DEPOT AND TAKE BACK PROGRAMS.

SINGLE-FAMILY WASTE DIVERSION 2011: 55%

The City's programs and services combined with community commitment to recycling are evident. Richmond's overall residential recycling is at 50%, significantly higher than the national average of 30%. The rate of recycling for single-family is even higher at 55%. In 2011, the City implemented key initiatives such as the Green Cart Pilot Project for townhomes and the region's first private/public organization partnership for public spaces recycling. The City's pilot public spaces recycling program helped to reduce waste disposed in the pilot area by 35%. The number of beverage containers found in the waste stream was reduced by 27%. Building on the successful introduction of food scraps recycling through the Green Can program in 2010, there is also an increase in the total recycled tonnage coming from Green Can use in 2011.

Looking ahead to 2012 through to 2015, Richmond will be working with residents to achieve the additional 20% reduction needed to reach its target of 70% diversion.

This involves making full use of the existing services by encouraging residents to be consistent about recycling when they are at home or in the community. While food scraps recycling is increasing, the Green Can is still a relatively new service and there is room to expand the use of this program in single-family homes, as well as the potential for Green Cart service to townhomes and other multi-family residents. Other enhanced services to divert waste include a centralized recycling facility such as an Eco-Centre and more options to recycle in public spaces. There are also opportunities to partner with product stewards to bring expanded recycling services to the community. Richmond works with these stewardship partners to promote more industry take back programs where product stewardship partners in the community accept products such as hazardous waste for recycling or proper disposal.

RICHMOND'S SUSTAINABILITY FRAMEWORK

Richmond's Sustainability Framework is designed to bring together the City's individual components of sustainability into a unified and coherent program, including the Solid Waste Strategic Program. The Framework captures the multiple actions at various levels throughout the organization to provide a 'one-stop' overview of the City's activities as they relate to achieving sustainability. It also serves to collate and develop performance-based targets and establish an overall system for measuring and reporting progress across the many objectives of sustainability. By having the targets clearly defined in one place, the City will be able to maximize opportunities for collective and multi-objective based action.

On January 25, 2010, Council adopted the conceptual structure for the Sustainability Framework which identified nine goal areas that span across the full breadth of sustainability, and on April 26, 2010, Council adopted the City's Corporate Sustainability Policy – the first major component of the Sustainability Framework. This Policy provides an overall vision of sustainability and establishes overarching sustainability principles to help guide City decision-making and activities. Since 2010, the City has been developing strategic action programs and targets for meeting its sustainability goals. To date, the City has developed 10 sustainability targets. These include the 70% diversion target by 2015 as well as a 33% greenhouse gas emission reduction target by 2020 and a 10% community-wide energy use reduction by 2020.



Encouraging increased recycling with existing services is essential to successfully achieving reduction targets. At the same time, Richmond is also looking at building on the success of its services:

- GOAL** Enhance and expand recycling opportunities through options such as an Eco-Centre and expanded public spaces recycling
- GOAL** Expand initiatives to increase recycling in multi-family, mixed use and potentially commercial sector
- GOAL** Expand food scraps recycling to residents in multi-family developments
- GOAL** Expand communications to increase participation in existing and emerging recycling programs
- GOAL** Involvement in regional planning and implementation efforts for ISWRMP

WASTE GOING TO LANDFILL: SINGLE FAMILY AND TOWNHOUSES THROUGH CITY OF RICHMOND COLLECTION SERVICES



With half of waste generated by residents already being diverted from landfill, Richmond is now working with residents to increase recycling of yard trimmings and food scraps, expand use of take back programs and apply other waste reduction measures to achieve an additional 20% diversion.

Let's get to 70% waste diversion together, by trimming our waste through recycling, reduced consumption and reuse of products.

TOWARDS OUR GOALS

Together, the City and Richmond's community can achieve our goal for responsible and effective waste management and we'll establish a legacy that will benefit our community today and in the future.

2011 ACCOMPLISHMENTS

In this 2011 report, Richmond's continued progress in recycling and waste management is highlighted through progress charts on overall recycling program usage, diversion rates showing the amount of waste going to landfill and through recycling programs, and the multiple opportunities, programs and resources available to further support success in reducing waste in Richmond. There is also a comprehensive tips and resources section that provides a convenient guide for recycling throughout the year.

The following are some of the key accomplishments in 2011:

- 1 Developed** Strategic Framework for Solid Waste and Recycling Program
See Annual Outlook, page 4.
- 2 Conducted** a successful Public Spaces Recycling Pilot Program – "Go! Recycle" At Home or On the Go, Recycle!
See Public Spaces Recycling, page 24.
- 3 Implemented** Green Cart Pilot Program
See Green Cart Pilot Program, page 19.
- 4 Enhanced** Environmental Outreach Program
See Outreach and Customer Service, page 27.
- 5 Expanded** Collection Service at City's Recycling Depot to accept small appliances for recycling.
See Recycling Depot Program, page 14.
- 6 Responded** to more than 8,400 service requests relating to garbage and recycling via the Environmental Programs Information Line.
See Customer Service, page 29.
- 7 Implemented** dedicated service for litter and recycling collection to ensure the Canada Line and No. 3 Road remain attractive and appealing gateways to the city.
See Customer Service, page 29.
- 8 Distributed** over 172 compost bins, 10,574 Garbage Tags, and 668 Garbage Disposal Vouchers out of the City's Recycling Depot.
See Recycling Depot Services, page 14.
- 9 Collected** over 3,994 loads of litter from City parks, school grounds and streetscapes. Serviced more than 4,552 containers and approximately 1,687 acres of parkland and City spaces each week, with services to high-profile areas being provided 7 days per week.
See Litter Collection Services, page 22.
- 10 Conducted** a "Clean Up Your Act Make Richmond Sparkle" contest that challenges schools to be litter-free. Awards for "Always Sparkle" and "Sparkle" were given to Whiteside and Spul'u'kwuks Elementary schools who were judged to have the best litter-free performance by the City's litter staff.
See Outreach and Customer Service, page 29.
- 11 Promoted** City, regional and partner recycling service options, including the weRecycle mobile app for quick access to recycling and take back locations, and reuse and sharing sites to help reduce waste.
See Working In Partnership, page 33.



THANK YOU

Our thanks and appreciation go to Richmond residents for recycling and reducing waste in our community.

Every time you make the choice to recycle, you're helping us achieve our goal to be a Recycling Smart City. We value the steps being taken by residents to take responsibility for recycling and make it a way of life. As a City, we will continue to support your commitment to trim our waste by delivering programs that are convenient and easy to use.

We encourage all residents to make full use of the many recycling programs and services available. By making a few changes and keeping recyclable materials out of the garbage, we will achieve our objective to divert another 20% of waste from the landfill.

Together, we can build on our success as we make change happen and turn waste into resources.

Let's Trim Our Waste!

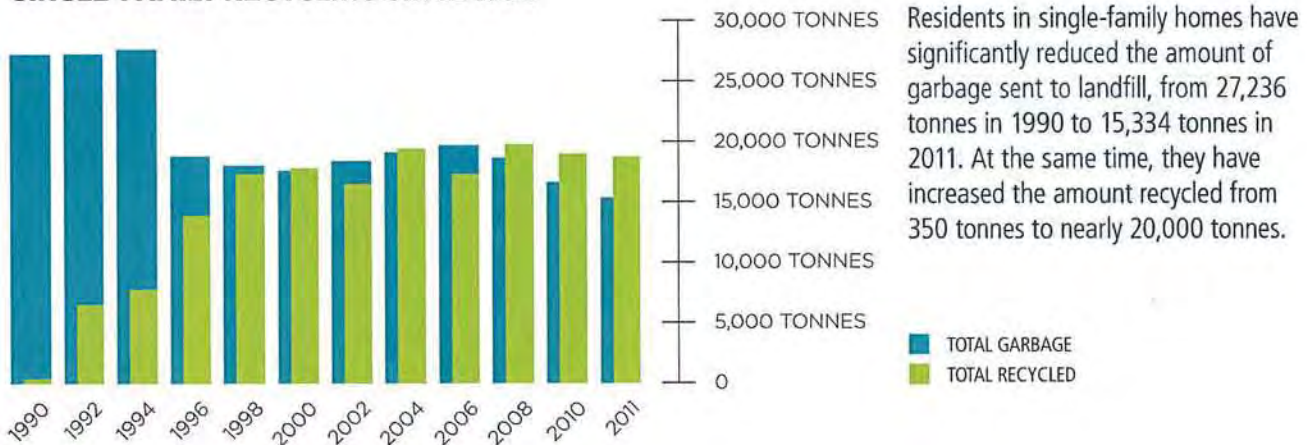
**IT'S EASIER
THAN EVER TO
MAKE CHANGE
HAPPEN!**

PROGRAMS AND SERVICES

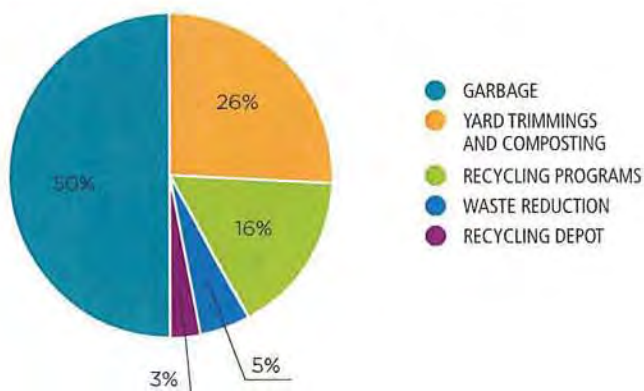
DELIVERING EXCELLENCE IN RECYCLING AND WASTE MANAGEMENT

Richmond residents care about their community and are making recycling a way of life. By taking advantage of Richmond's comprehensive recycling and waste management services, collectively residents are consistently recycling half of their waste. Even with continued population growth, there is a downward trend in the amount of waste going into landfills, which indicates that residents are both recycling more and using less. This partnership approach to recycling and waste management is a formula for long-term success as Richmond works towards its goal to divert 70% of its waste from landfill by 2015.

SINGLE-FAMILY RECYCLING SINCE 1990



RICHMOND RESIDENTIAL RECYCLING



All residents, including those in townhomes and multi-family residences, are collectively recycling 50% of total residential waste through the many programs and services offered by the City, including our Recycling Depot, waste reduction education programs, recycling programs, and yard and composting programs.



RESIDENTIAL RECYCLING PROGRAMS

With weekly collection services, drop off programs, public spaces recycling and community take back programs, it's easy and convenient to recycle in Richmond. Richmond offers residents a range of services to support recycling at home and on the go.

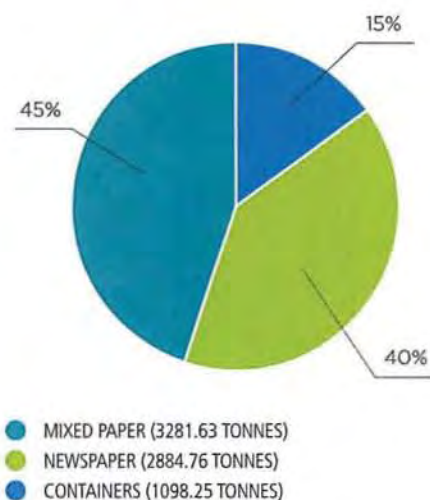
BLUE BOX RECYCLING PROGRAM

The Blue Box Recycling Program provides convenient collection services in the community. Residents in single-family homes and some townhome complexes use City-provided blue boxes, blue bags and yellow bags to recycle newspaper, paper products and cardboard along with tin, aluminium, and glass food and rigid plastic containers (♻️♻️♻️♻️). Nearly 40,000 residential units are serviced with weekly collection under this program.

In 2011, more than 7,200 tonnes of materials were recycled in the Blue Box program. Of this, 45% was mixed paper, 40% was newspaper and 15% was co-mingled containers.

Items that can be recycled through this program are listed in the Tips and Resources section of this publication and at www.richmond.ca/recycle.

BLUE BOX RECYCLING MIX



BLUE CART RECYCLING PROGRAM

People who live in multi-family complexes can recycle the same products as residents who use the Blue Box program through the City's Blue Cart Recycling Program. The City provides recycling carts for a mini recycling depot at each complex, which are generally located in the garbage enclosure or other convenient location. This service is currently available to over 27,000 multi-family units, and the City has information tools such as Blue Cart decals, posters and brochures that are offered to stratas and property managers to help raise awareness and increase participation.

In 2011, nearly 2,400 tonnes of materials were recycled through the Blue Cart Recycling Program.

For a detailed list of items that can be recycled through the Blue Cart recycling program see the Tips and Resources section or visit www.richmond.ca/recycle.



TIP FOR RESIDENTS

Residents can pick up a complimentary blue box and yellow and blue bag supplies at the Richmond Recycling Depot and City Hall, or order them online at www.richmond.ca/recycle.

Residents in multi-family complexes with Blue Cart service can pick up an indoor collection bag at Richmond Recycling Depot or order a bag online at www.richmond.ca/recycle.



2,400 TONNES

+



7,200 TONNES

=

**9,600 TONNES
RECYCLED PER YEAR**



TURNING WASTE INTO RESOURCES








FROM WASTE...	INTO RESOURCES!
ALUMINIUM CANS	New cans, foil, pie plates, window frames and automotive components
TIN CANS	New tin cans, cutlery, appliances and razor blades
NEWSPRINT	New newspapers, newspaper inserts, flyers and telephone directories as well as tissue paper, paper towels, egg cartons, cereal boxes and shoe boxes
GLASS CONTAINERS	New glass containers, fiberglass insulation, kitchen tiles, reflective paint and aggregate for construction projects
CARDBOARD	New glass containers, fiberglass insulation, kitchen tiles, reflective paint and aggregate for construction projects
PLASTIC CONTAINERS	<ul style="list-style-type: none"> ♻️ : Bottles, clothing and carpet ♻️ : Picnic tables, drainage pipes and oil bottles ♻️ : Bags, trash cans and paneling ♻️ : Flower pots and pallets

DID YOU KNOW?

It takes 100 years for a tin can and 500 years for an aluminium can to breakdown in a landfill and the energy saved from recycling an aluminium can could run your television for three hours. But it only takes 60 days for an aluminium can to be recycled, refilled and back on the shelves.

PLASTIC RECYCLING GUIDE

The following table outlines the types of recycling symbols used for plastics.

CODE	DESCRIPTION	TYPICAL PRODUCTS	RECYCLED PRODUCTS
 PETE	POLYETHYLENE TEREPHTHALATE Clear and tough with the ability to contain carbon dioxide. Most commonly recycled plastic in North America.	<ul style="list-style-type: none"> • Soft drink bottles • Peanut butter jars • Liquor bottles 	<ul style="list-style-type: none"> • Pullover sweatshirts • Pillow stuffing • Carpet backing
 HDPE	HIGH DENSITY POLYETHYLENE Excellent protective qualities and very strong. Second most recycled plastic in North America.	<ul style="list-style-type: none"> • Milk or juice jugs • Motor oils • Shampoo or bleach bottles 	<ul style="list-style-type: none"> • Plastic lumber • Blue boxes & compost bins • Consumer bottles
 V	POLYVINYL CHLORIDE Clear. Extensive use in construction industry. NOT ACCEPTED	<ul style="list-style-type: none"> • Wrapping for meat • Water bottles • Siding, doors, frames 	<ul style="list-style-type: none"> • Drainage pipes • Cable insulation
 LDPE	LOW DENSITY POLYETHYLENE Flexible and strong. Most commonly used in flexible plastic film. Note: The City of Richmond accepts hard plastic LDPE. The City does not accept soft plastics such as plastic film or grocery bags.	<ul style="list-style-type: none"> • Bread bags • Milk pouches • Grocery bags 	<ul style="list-style-type: none"> • Plastic lumber (playgrounds) • Compost bins
 PP	POLYPROPYLENE Strong with a high melting point. Good for packaging 'hot-filled' products.	<ul style="list-style-type: none"> • Syrup and ketchup bottles • Appliance parts • Luggage 	<ul style="list-style-type: none"> • Ice scrapers • Industrial packing cases • Automotive battery cases
 PS	POLYSTYRENE Clear, can be 'foamed' and provides excellent insulation and protection. NOT ACCEPTED	<ul style="list-style-type: none"> • Foam cups • Compact disk cases • Filler in concrete forms 	<ul style="list-style-type: none"> • Cassette & CD cases • Office accessories
 OTHER	OTHER Includes other resins, composites and laminates. NOT ACCEPTED	<ul style="list-style-type: none"> • Safety glasses • Automotive tail lights 	<ul style="list-style-type: none"> • Picnic tables • Outdoor signs



DID YOU KNOW?

It takes one million years for a plastic bottle to breakdown in a landfill, yet four, 2-litre plastic bottles can be recycled into one t-shirt, filling for a ski jacket and two ball caps.



TIP FOR RESIDENTS

Residents can purchase compost bins, extra Garbage Tags and Garbage Disposal Vouchers at the Richmond Recycling Depot. Garbage Disposal Vouchers that cost \$5 for Richmond residents are worth \$20 at the Vancouver Landfill.

Rain barrels and compost bins are also available for purchase at the Recycling Depot.

RECYCLING DEPOT PROGRAM

The Recycling Depot is conveniently located at 5555 Lynas Lane and is open from 9:00 a.m. – 6:15 p.m., Wednesday to Sunday. This facility accepts a wide range of materials including cardboard, yard and garden trimmings, mixed paper, newspapers and now also accepts fluorescent lights and cooking oil. The facility also accepts large appliances (e.g. fridges, stoves, washing machines) metal items (bike frames, barbecues, lawn mowers), glass bottles, jars, tin and aluminium cans, paints, pesticides and solvents.

RECYCLING DEPOT SERVICES

The Recycling Depot is owned and operated by the City of Richmond, with two full-time staff and additional staff support in the summer months to manage increased recycling volumes. Staff on site are available to answer questions and provide assistance with unloading awkward or heavy items. The Recycling Depot is a Provincial Product Stewardship (Take Back) collection site for small appliances, paints, solvents, flammable liquids, pesticides and fluorescent lamps. For more information on Product Stewardship, see the Working in Partnership section.



2009

USED COOKING OIL
AND ANIMAL FAT



2010

COMPACT FLUORESCENT LAMPS
(CFLs) INCLUDING FLUORESCENT
LIGHTS AND TUBES



2011

SMALL APPLIANCES

RECENT ADDITIONS TO THE RECYCLING DEPOT DROP OFF PROGRAM

In 2011, Richmond expanded its drop off program to include free drop off of small electrical and battery-operated appliances. This includes more than 120 different types of appliance products, such as unwanted old or broken vacuum cleaners, toasters, microwaves, electrical toothbrushes and a host of other electrical appliances.

For a full list of items that can be recycled at the Recycling Depot, please see Tips and Resources.

2011 Customer Service Highlights
In 2011, the Recycling Depot distributed:

172
COMPOST BINS

10,574
GARBAGE TAGS

668 GARBAGE
DISPOSAL VOUCHERS

RECYCLING DEPOT — MATERIALS AND AMOUNTS COLLECTED

2011 RECYCLING DEPOT COLLECTION	
COLLECTED THROUGH TAKE BACK PROGRAM	AMOUNT RECYCLED
Paint	278,208 equivalent litres
Aerosols	2,625 equivalent litres
Solvents & Pesticides	12,960 equivalent litres
Small Appliances (Started October 2011)	10 tonnes
Compact Fluorescent Lamps (CFLs) Recycling	
CFLs	40 boxes
4' tubes	289 boxes
8' tubes	51 boxes

DEPOT RECYCLING: BREAKDOWN OF MATERIALS COLLECTED IN 2011

In 2011, 1,782.58 tonnes of paper, metal and containers were collected at the Recycling Depot. Yard trimmings are also collected at the Recycling Depot, see Yard Trimmings Drop-Off Programs on page 17 for more information.

TURNING WASTE INTO RESOURCES

FROM WASTE...	INTO RESOURCES!
ELECTRONICS LIKE COMPUTERS, PRINTERS AND TELEVISIONS	Raw materials for new electronic products
SMALL APPLIANCES	Materials like glass, plastic, metal and aluminium are separated and sold as new commodities for new products
BATTERIES	Materials like metals are separated and used for new batteries and stainless steel
PAINTS	Reused through Paint Exchange Program, reprocessed into paint and coating products, raw material in recycled concrete and Portland cement

MAGAZINES: 62.59
 PLASTICS: 34.39
 TIN CANS: 32.56
 GLASS: 21.32
 ALUMINUM: 13.18

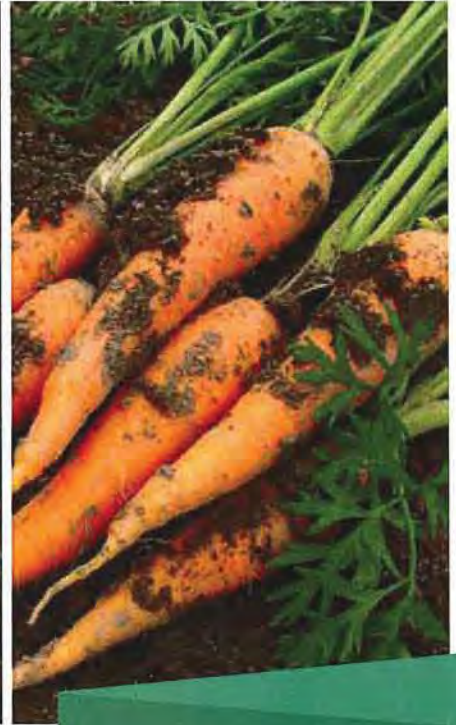
SCRAP METAL: 885.56

MIXED PAPER: 337.84

CARDBOARD: 225.17

NEWSPRINT: 169.97

TOTAL TONNAGE: 1782.58



COMPOSTING PROGRAMS

Composting is a simple and organic process that can reduce household waste by up to 40%—significantly reducing the amount of waste that goes to the landfill. Fruit and vegetable peelings, along with grass, leaves and other yard trimmings can be added to a compost bin. In addition, composted matter produces a very nutrient-rich soil to keep lawns and gardens healthy.

BACKYARD COMPOST BIN DISTRIBUTION PROGRAM

The City of Richmond supports composting by providing free composting workshops from January to November, which include information on backyard and worm composting and how to harvest compost. The City offers compost bins for sale at the Recycling Depot for \$25.00 each. Backyard composting is the most effective way to dispose of fruit and vegetable peelings, eggshells, coffee grounds, filters, tea bags and yard trimming materials. Since this program started in 1992, over 10,200 compost bins have been distributed, resulting in annual waste reduction of over 3,000 tonnes.

Additional tips and information on composting are provided in the Tips and Resources section and at www.richmond.ca/recycle.

COMPOST DEMONSTRATION PROJECT

To help residents learn about backyard composting, the City offers a Compost Demonstration area in the Terra Nova Rural Park Centre located at 2631 Westminster Highway just west of No.1 Road. It is open from dawn to dusk year-round, and residents are encouraged to take a self-guided tour to learn about different types of compost bins and the benefits of composting.

DID YOU KNOW?

The Compost Hotline at 604-736-2250 offers tips and advice on how to compost and use the nutrient-rich soil for home gardens. Compost from yard trimmings drop off programs and through the Green Can collection is sold for use in the agricultural industry.

Composting is a great way to turn waste into a valuable resource. The composting cycle takes food scraps and yard trimmings and turns them into nutrient-rich soil. Richmond residents are generating their own compost to enrich their garden soil. With over 10,200 bins sold, home composting helps to divert more than 3,000 tonnes of green materials from the garbage disposal system each year.

YARD TRIMMINGS DROP-OFF PROGRAMS

ECO-WASTE INDUSTRIES

The City offers residents the option to drop off unlimited quantities of yard and garden trimmings for free at Ecowaste Industries located at 15111 Triangle Road. Proof of Richmond residency is required.

Visit ecowaste.com or call 604-277-1410 for hours of operation and directions.

RECYCLING DEPOT

Residents may drop off limited quantities of yard and garden trimmings (up to 1 cubic yard) at the City's Recycling Depot. A fee of \$20 applies for each additional cubic yard. Commercial operators may also use the Recycling Depot for dropping off of trimmings for a fee of \$20 per each cubic yard. The Recycling Depot is conveniently located at 5555 Lynas Lane and is open from 9:00 a.m. – 6:15 p.m., Wednesday to Sunday.

For a detailed list of all items that can be recycled at the Depot, please refer to the Tips and Resources section.

DROP OFF TONNAGE 2011

In 2011, 2,750.94 tonnes of yard trimming were collected at the Recycling Depot and through the Ecowaste drop off program.



Through the Green Can program, over 9,900 tonnes of food scraps and yard trimmings were collected in 2011, and total garbage volumes collected from single-family homes went down by nearly 1,300 tonnes.

GREEN CAN PROGRAM

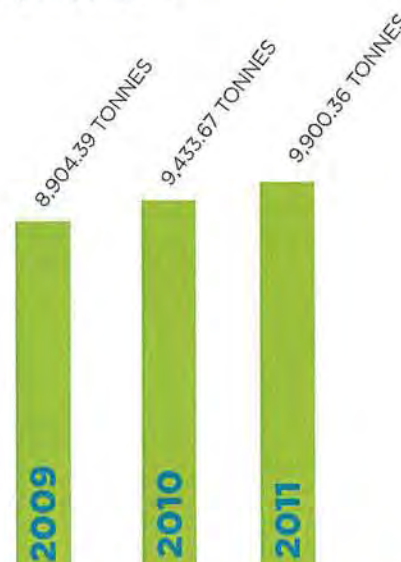
Food scraps and yard trimmings represent about 40% of household waste, and Richmond residents have multiple options to turn these materials into a valuable resource. The Green Can program for single-family homes and the recent Green Cart Pilot Project make it easy and convenient to recycle food scraps and yard trimmings.

Richmond's Green Can program for single-family residences is a convenient service to divert organics such as food scraps and yard trimmings from the landfill. Food scraps are one of the remaining recyclable items still found in garbage, and they will likely become a banned item in future as these materials are a valuable recycling resource. By changing habits to shift food scraps from garbage into the Green Can, residents are helping to achieve our goal to divert waste by 70% by 2015. When combined, food scraps and yard trimmings represent approximately 40% of generated waste, and when recycled, these materials are composted into valuable nutrients for soil.

Through the City's Green Can program, residents can recycle fruit and vegetable scraps, coffee and tea grounds, meat, bones and other food scraps, pizza boxes, lawn and yard trimmings. Residents use 80 L or smaller containers with Green Can decals provided by the City, as well as paper yard waste bags for yard trimmings. Residents can place unlimited amounts of Green Cans, paper yard waste bags or tied bundles for collection each week. There is a 20 kg (44 lbs) weight limit, and no plastic is permitted as it affects the quality of the compost. The materials collected are delivered to Fraser Richmond Soil and Fibre where they are composted to produce a nutrient-rich soil product.

YARD TRIMMINGS AND FOOD SCRAPS RECYCLING 2011

Yard trimmings and food scraps recycling is steadily increasing since the introduction of the food scraps recycling program.



EMPOWERING ORGANICS

WHERE RICHMOND'S FOOD SCRAPS AND YARD TRIMMINGS ARE SENT FOR COMPOSTING



Harvest Power's new anaerobic digester under construction.

Richmond sends its yard trimmings and food scraps to Fraser Richmond Soil and Fibre, a composting facility off No. 8 Road owned and operated by Harvest Power. The company is constructing an Energy Garden, also known as an anaerobic digester, that uses naturally occurring microorganisms to turn approximately 27,000 tonnes of organic materials – yard trimmings and food scraps – into biogas, which is then converted into electricity and heat. The Energy Garden is completely enclosed and uses negative airflow and biofilters to minimize odours. After two weeks in the digester, the organic materials are removed, further composted, and returned to local farms and gardens for soil revitalization. Construction of the Energy Garden is expected to be complete by fall of 2012.

GREEN CART PILOT PROGRAM

Richmond is exploring options to expand recycling programs to include more townhomes and other multi-family complexes. The Green Cart Pilot Project implemented in 2011 is an important step towards offering recycling collection for yard trimmings and food scraps. This nine-month food scraps collection pilot program was delivered to approximately 3,200 townhome units (75 complexes). The program focused on bin types and service options to provide this enhanced recycling to townhomes and included feedback from residents on what works best.

Selected residents were able to recycle kitchen food scraps as well as yard and garden trimmings. As part of the program evaluation, a survey and an online discussion forum were introduced exclusively for participating townhomes to use during this pilot. The online forum was used to ask questions, share experiences and find information and tips about using Green Carts.

The results and evaluations from the pilot program are now being used to develop recommendations for implementing a Green Cart program for townhomes and other multi-family residences in Richmond.

GREEN CART PILOT PROGRAM

Yard trimmings and food scraps recycling is steadily increasing since the introduction of the food scraps recycling program.

11.29 kg AVERAGE COLLECTED
PER MONTH, PER TOWNHOUSE

GREEN CART HAS COLLECTED **323** TONNES
OVER NINE MONTHS!

DID YOU KNOW?

With half of waste generated by residents already being diverted from landfill, Richmond is now working with residents to increase recycling of yard trimmings and food scraps, expanded use of take back programs and other waste reduction measures to achieve an additional 20% diversion.



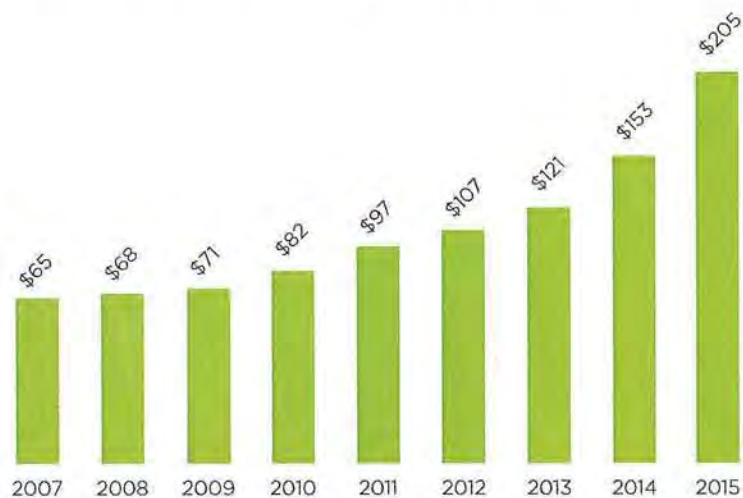
9,900 TONNES



323 TONNES



**10,223 TONNES
OF FOOD SCRAPS
& YARD TRIMMINGS
DIVERTED FROM
LANDFILL!**

TIPPING FEES, CURRENT AND PROJECTED, PER TONNE

Tipping fees have increased by almost 50% since 2007, and are expected to rise to more than \$200/tonne by 2015.

RESPONSIBLE WASTE MANAGEMENT

Landfill space is filling up quickly and Richmond's population is expected to grow to 282,000 by 2041, which continues to put pressure on limited facilities and the need for responsible waste management. In addition, disposing of garbage is becoming much more expensive. Tipping fees are expected to increase to over \$200/tonne by 2015. With these considerable increases in cost, the importance of trimming our waste to achieve 70% waste reduction by 2015 is becoming critical for our environment and for cost management.

Keeping waste down and diverting recyclable materials is one way to achieve waste management goals. Richmond also encourages waste reduction through user-pay initiatives such as a maximum number of garbage containers collected each week (e.g. two-can limit for single-family homes) along with manufacturer return programs for items such as electronics, tires, beverage containers and many other items. There are bans at the landfill that help to divert recyclable and hazardous materials, and Richmond works with residents, business and industry to promote recycling and take back programs. Through these programs and efforts, Richmond is trimming its waste and working towards its goal to see 70% of all waste being diverted from the landfill by 2015.

DID YOU KNOW?

Richmond Residents may purchase a Garbage Disposal Voucher for \$5.00 at all City facilities and these vouchers are good for \$20.00 at the Vancouver Landfill. There is a limit of one per household per year.

CURBSIDE COLLECTION SERVICES

The City of Richmond provides weekly garbage collection services for all single-family homes and some townhome developments. In providing these services, the City has aimed to strike a realistic balance between meeting its recycling goals while enabling residents to have reasonable means to dispose of garbage by implementing a two-can limit each week for curbside collection. Additional garbage cans may be put out, but each extra container or bag must display a tag that can be purchased at City facilities for \$2.00. Certain items, such as hazardous waste materials and those items that can be recycled, are prohibited from garbage bins.

DEALING WITH HAZARDOUS WASTE

The 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 kill or injure livestock, wildlife and plant life. Careful and often specialized disposal is essential for these materials.

Many common hazardous household and automotive products must be recycled or disposed through special depots.

Please visit www.richmond.ca/recycle for more information.

BANNED AND PROHIBITED 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. In 2010, recyclable mattresses and box springs were banned from landfill and it is anticipated that food scraps will soon be added to these bans as food scrap recycling programs expand in municipalities in the Metro Vancouver region.

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 \$50 minimum surcharge, plus the cost of removal, clean-up or remediation. Loads containing banned materials are assessed a 50% tipping fee surcharge.

DID YOU KNOW?

Used mattresses are sometimes being illegally dumped in the community, and most of these mattresses could easily be recycled. Residents can take them to Recyc-Mattress Inc. in Langley (604-856-8383), Pacific Mattress Recycling Inc. in Burnaby (604-973-0183) or Canadian Mattress Recycling Inc. on Annacis Island (604-777-0324). (Please call for information on pick up charges and recycling rates.)


BANNED/PROHIBITED FROM LANDFILL

EXAMPLES OF MATERIALS

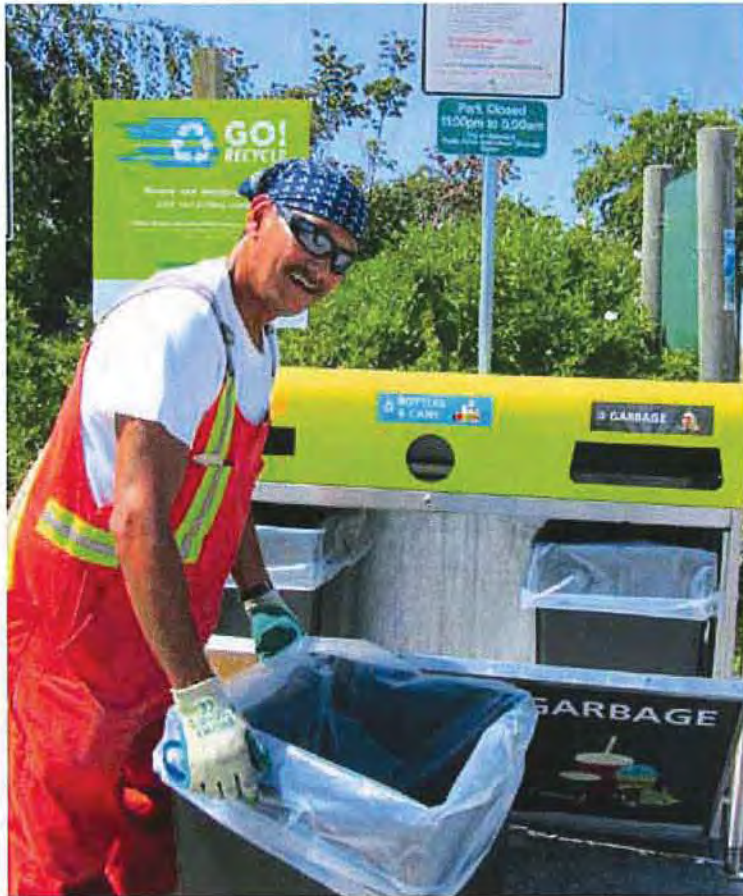
Please refer to the Tips and Resources section for ways to safely dispose of these materials or call RCBC at 604-RECYCLE (732-9253).

- | | | |
|---|--|---|
| • Asbestos | • Gypsum | • Oil containers, oil filters, paint products, solvents and flammable liquids |
| • Automobile bodies and parts | • Hazardous waste | • Metal household or commercial appliances |
| • Batteries | • Inert fill materials including soil, sod, gravel, concrete and asphalt in quantities exceeding 0.5 cubic metres per load | • Pesticide products |
| • Barrels or drums in excess of 205 litres (45 gallons) | • Lead acid batteries | • Pharmaceuticals |
| • Clean or treated wood exceeding 2.5 metres in length | • Liquids and sludge | • Propane tanks |
| • Electronics and electrical products (limited) | • Recyclable Mattresses | • Thermostats |
| • Fluorescent lights | | • Tires |

BANNED MATERIALS THAT CAN BE RECYCLED

- | | | |
|-----------------------------|--|------------------------------|
| • Corrugated cardboard | • Containers made of glass, metal or banned recycled plastic  | • Mattresses and box springs |
| • Recyclable paper | • Beverage containers (all except milk cartons) | |
| • Yard and garden trimmings | | |

For a list of Banned and Prohibited Materials, please visit www.metrovancouver.org/services/solidwaste/disposal/Pages/bannedmaterials.aspx



LITTER COLLECTION SERVICES

Maintaining a litter-free city is a challenge given the number of people using public spaces in Richmond. The City of Richmond has made efforts to ensure that there are garbage cans, 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 also empty garbage from approximately 4,500 City litter and recycling receptacles in the community each week, and assist with removing graffiti from City garbage cans. As well, they collect illegally-dumped materials found on City property and provide safe disposal and recycling of these items. Together, these measures help to support a safe and appealing community.

DID YOU KNOW?

Richmond collects over 3,994 loads of litter and recycling, manages more than 4,552 containers in public areas and provides services to keep approximately 1,687 acres of parkland and City spaces clean and litter free each week, with services to high-profile areas being provided 7 days per week.

Recycling is most successful when it's simple and convenient. For commercial buildings and multi-family complexes, recycling can be made easier by design. Richmond has developed guidelines to help ensure commercial buildings and multi-family complexes are designed with accessible, centralized and well-organized recycling facilities. Meeting these standards helps Richmond take recycling to a new level by creating new opportunities to trim our waste and turn recyclable materials into resources.

COMMERCIAL BUILDING GUIDELINES

Effective garbage and recycling management at commercial buildings is most successful when these facilities are integrated into the design and operations of the building or site. To support this, the City of Richmond has developed commercial building guidelines that are outlined in the City of Richmond Design Considerations for Commercial Properties Recycling and Garbage. These guidelines assist designers and developers of commercial buildings in three key areas:

- the design of storage facilities for garbage and recycling;
- selection of containers for garbage and recycling; and
- planning of access for both tenants and collection service providers.

These guidelines help commercial property owners by giving general advice for meeting City regulations and suggesting goals for effective garbage and recycling programs. This information is provided as a resource and should be used with, not in place of, all applicable building codes, City standards and other relevant legislation.

For more information, visit www.richmond.ca/recycle.

MULTI-FAMILY BUILDING GUIDELINES

All multi-family residential and mixed-use buildings in Richmond require adequate storage for garbage and recycling, and these storage areas must meet Building Code Regulations. At the same time, garbage and recycling collection at multi-family and mixed-use buildings is an area where there is potential for future expansion and improvement.

As an important foundation, the City of Richmond has developed Multi-family Building Guidelines to help support consistent standards at all buildings. The guidelines include information such as basic service requirements, container access for residents and collection, and maximum container size. The information is provided as a convenient source of information, and property owners are responsible for ensuring they meet all applicable building codes, City standards and other relevant legislation.

For more information, visit www.richmond.ca/recycle.

AT HOME OR ON THE GO, RECYCLE!



PUBLIC SPACES RECYCLING

With Richmond's new public spaces recycling program, there are a growing number of recycling bins throughout the community to make it easy and convenient to recycle while on the go.

Richmond's newest public spaces program started with a pilot project in 2011 that reduced the number of beverage containers found in the waste stream by 27%. As well, there was a 25% decline in recyclable non-beverage containers and a 35% reduction in waste going to the landfill overall. This successful project involved a partnership between the City of Richmond, the Canadian Beverage Association, Encorp Pacific (Canada) and Nestlé Waters Canada. Through the project, 81 new garbage and recycling receptacles were strategically installed, with instructional signage as part of the educational component, in the Steveston main business district and waterfront, Steveston Community Centre, Garry Point Park and Hugh Boyd Sports Field. Nestlé Waters Canada and other industry partners funded the purchase of the receptacles, various communication materials and the waste assessment study to gauge the success and effectiveness of the program. Richmond undertook container installation, servicing and maintenance. In addition, the City initiated the development of a public spaces recycling campaign – Go! Recycle – with the tag line, "At Home or On the Go, Recycle!" The promotional aspect of this program was a key success factor in generating awareness to the program and public spaces recycling.

Richmond also has public spaces recycling at the Canada Line and main Richmond central bus stop on No. 3 Road using solar-powered compactors with recycling bins attached.

Building on the success of these programs, Richmond is now developing an expanded program to extend public spaces recycling to include both indoor and outdoor locations, such as community facilities, parks and streetscapes. The program will be implemented in a graduated fashion.



SPECIAL EVENTS RECYCLING

Richmond hosts multiple events throughout the year and recycling at these events offers an ideal opportunity to reduce the amount of waste going to landfill. In 2011, Richmond worked with volunteers and community partners to offer recycling at more than 15 events. A total of 4,446 volunteer hours were recorded and approximately 41% of waste was diverted from landfill including food scraps recycling.

Approximately 288 Green Team high school student volunteers assisted with these recycling efforts by monitoring and educating event participants about the importance of recycling while ensuring materials were placed in proper receptacles.

Looking ahead to 2012, Richmond is developing an event recycling program that provides event organizers with access to portable recycling receptacles that the City will loan out for events in the community. Beverage containers and other recyclables are common at events and, as Richmond residents are making recycling a way of life, the City is working to make it easy and convenient for them to keep Richmond clean and keep recyclables out of the waste stream.



TIP FOR RESIDENTS

When you're out in the community or at an event in Richmond, look for Richmond's "Go! Recycle" bins to recycle your plastic and paper products. The opportunities to recycle while on the go will continue to grow as Richmond expands its public spaces recycling program.

BUILDING A LASTING LEGACY, TOGETHER!

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OUTREACH AND CUSTOMER SERVICE

SUPPORTING AWARENESS AND EDUCATION

Richmond residents have multiple opportunities to learn more about how to reduce, reuse and recycle thanks to the extensive public education and community outreach offered throughout the year. Richmond hosts free workshops, participates in community events and works with students to raise awareness about recycling. Participants benefit from new ideas and other tips on topics ranging from backyard composting to waste reduction tactics. The City also provides residents with multiple options to connect with staff to learn more about programs, services and the best way to manage waste. Together, Richmond and local residents are expanding their understanding of how to make Richmond a Recycling Smart City where recycling is a way of life.

2011 CUSTOMER SERVICE AND OUTREACH HIGHLIGHTS

65

WORKSHOPS

Held 65 workshops to support responsible waste management and sustainability initiatives at home.

REACHED **4,647** STUDENTS
AND **150** TEACHERS

Reached approximately 4,647 elementary school students and 150 teachers through school programs.

FUNDED **20** SHOWS

Funded 20 elementary school shows:
Zero Heroes and Clean Up Your Act.

2,900 STUDENT
VOLUNTEER HOURS

Engaged high school students in Green Team Program. Green Teams dedicated over 2,900 volunteer hours to support events and other community outreach

HOSTED **20**
INFORMATION BOOTHS

Hosted information booth at 20 community events.



COMMUNITY WORKSHOPS

Working together with Environmental Sustainability, the Environmental Programs division coordinated 68 workshops in 2011 on topics ranging from composting to creating water-wise gardening and reducing pesticide use. Community outreach included approximately 20 community events featuring activity booths and information on backyard composting, waste reduction and recycling.

2011 COMMUNITY OUTREACH WORKSHOPS/DISPLAYS

- A Sustainable Urban Forest
- Backyard and Worm Composting
- Beautiful Flower/Food Gardens without Pesticides
- Beautiful Gardens without Pesticides
- Container Gardening: As Local AS It Gets
- Edible Ornamentals
- Edible Wild
- Establishment and Management of Fruit Trees
- Garden Wisdom, Companion Planting
- Gardening with Native Plants
- Go Green and Save Your 'Green' Dollars
- Green Living - Christmas Celebration
- Green Living - Easter Celebration
- Green Living - Halloween Celebration
- Green Living - Thanksgiving Celebration
- Green Living - Easy On You and the Environment
- Green Living - Easy On You and the Environment Cantonese & Mandarin
- Grow The Most Food In The Small Space
- Growing, Using and Drying Herbs
- Harvesting Compost
- Invasive Plants And The Ecosystem
- Organic Fall Vegetable Gardening
- Organic Food Gardening
- Organic Salad Green Vegetable Gardening
- Organic Seasonal Vegetable Gardening
- Organic Spring Vegetable Gardening
- Organic Winter Vegetable Gardening
- Paper and Card Making
- Pest Management for Small Fruits
- Pest Management for Tree Fruits
- Pesticide Free Gardening
- Pesticide Free Gardening Cantonese/Mandarin
- Safe and Sensible Lawn Care
- Salmon Friendly-Gardening
- Seed Saving And Preserving Vegetables
- Seed Starting
- Tasty Trees - Home Grown Organic Fruit
- Understanding Fruit Tree Canopy Management
- Water Conservation - Why, How and Do
- Waterwise Gardening
- Garden Water Conservation and Mulching
- What Can I Plant Now
- Zero Mile Diet Garden
- Green Can Promotions at Capital Project Open House, Richmond Centre Earth Day Celebrations, Project WET, Science Jam, Public Works Open House, Steveston Salmon Festival and Ship to Shore.

Attend free Community Workshops hosted by the City of Richmond for tips and best practices in gardening, composting, waste reduction and recycling. For information on the workshops, email esoutreach@richmond.ca. To attend free workshops offered by the City visit richmond.ca/register or call 604-276-4300 and press "2" at the prompt (Monday to Friday from 8:30 a.m. to 5:30 p.m.) to register.

PARTNERSHIP PROGRAMS FOR CLEANER SCHOOLS

Working in partnership with the Richmond School District and individual schools, Richmond also engages students to promote waste reduction and recycling efforts. In 2011, City staff supported and facilitated the High School Green Teams by hosting monthly meetings to share information and provide updates on programs (including energy conservation, waste reduction, take-back programs) and by coordinating Green Team volunteers at community events and through presentations and information sharing initiatives. In 2011, the Green Teams dedicated over 2,900 volunteer hours to support outreach activities in Richmond.

Richmond also sponsored and coordinated two theatrical shows for elementary school students. These shows are fun and engaging, and inspire students to take action on reducing solid waste and increasing recycling, as well as teaching them about the hazards of littering, vandalism and graffiti. Ten of each show, for a total of 20 shows, were held at Richmond elementary schools in 2011.

Students also demonstrated leadership in being a litter-free and recycling smart city as part of the City's "Clean Up Your Act Make Richmond Sparkle" contest. The contest challenges schools to be litter-free. Awards for "Always Sparkle" and "Sparkle" were given to Whiteside and Spul'u'kwuks elementary schools who were judged to have the best litter-free performance by the City's litter staff.

ACTIVITY KITS

There are many activity kits and displays related to environmental awareness that are available for groups to use. From natural home and garden care to understanding your ecological footprint to learning more about recycling, these activity kits provide useful information in an easy-to-use format.

For a list of kits that are available go to www.richmond.ca/recycle. To request a kit please contact esoutreach@richmond.ca.

CUSTOMER SERVICE

Supporting residents in their recycling and waste management is integral to all services, but there are also resources specifically designed to provide residents with information and assistance. The Environmental Programs Information Line staff responded to more than 8,400 service requests relating garbage and recycling, and the City's website is updated regularly to provide information on changes to solid waste management that affect residents, as well as tips and other resources.

As a means to further support customer service, Richmond implemented dedicated service for litter and recycling collection to ensure the Canada Line and No. 3 Road remain attractive and appealing gateways to the city. By having a dedicated position to provide service in this area, Richmond's main corridor and streetscape has been maintained to high standards of cleanliness in relation to litter.



BUILDING PARTNERSHIPS FOR BETTER WASTE MANAGEMENT

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WORKING IN PARTNERSHIP

TO IMPROVE WASTE MANAGEMENT

Achieving waste reduction goals is a shared responsibility and in Richmond, much of our community's success is thanks to residents and the many organizations who partner with the City. These partners include the waste management industry, Metro Vancouver Regional District, collectors and other partners who support reuse and recycling. Together, we are making change happen and establishing responsible waste management practices by providing guidelines around what goes to landfill, offering options for recycling and take back programs and ensuring safe disposal of garbage like hazardous waste.

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METRO VANCOUVER

Metro Vancouver is the regional organization involved with waste management in the Lower Mainland. Richmond works with Metro Vancouver to achieve its goals to improve waste reduction, reuse and recycling.

Metro Vancouver establishes disposal sites, manages the transfer station network and sets disposal bans to encourage recycling. Metro Vancouver also developed the Integrated Solid Waste and Resource Management Plan in partnership with communities such as Richmond. Through partnership and shared commitment to responsible waste management, Richmond, Metro Vancouver and other municipalities in the region are striving to divert a minimum of 70% of waste from disposal sites by 2015. The Integrated Solid Waste and Resource Management Plan also includes an aspirational target of achieving 80% diversion by 2020. Remaining waste will be managed to recover the maximum amount of energy. The City of Richmond's Solid Waste and Recycling Regulation Bylaw 6803 mirrors the regional disposal bans and the City implements programs to raise awareness about these regional bans as well as other guidelines and requirements related to garbage collection and recycling services.

DID YOU KNOW?

Residents can use rcbc.bc.ca to find recycling drop off locations and disposal tips for more than 120,000 different products.



METRO VANCOUVER RECYCLES — REUSE AND RECYCLE IN THE REGION

A convenient web tool called Metro Vancouver Recycles makes it easy to connect with people who could use products you don't need, or to find options for recycling products that cannot be included in your curbside collection, visit metrovancoverrecycles.org.

There are also convenient links to online services if you want to sell or give away goods. The following are just a few examples in the Metro Vancouver region:

MetroVan Reuses

bc.reuses.com

Richmond Shares

richmondshares.bc.ca

weRecycle

iPhone app (available from iPhone App Store and at metrovancoverrecycles.org)

Metro Vancouver Recycling Directory

metrovancoverrecycles.org

COMPOST HOTLINE

Richmond encourages composting and connects residents to the Compost Hotline.

The Compost Hotline is a community program that provides additional support and tips for best practices in home composting. The Compost Hotline for the Metro Vancouver region is operated by City Farmer. City Farmer has researched and promoted the best methods of urban composting since 1978. In addition to the Compost Hotline, they maintain the Vancouver Compost Demonstration Garden.

Compost Hotline

Phone: 604-736-2250

Email: composthotline@telus.net



TIP FOR RESIDENTS

weRecycle is a free iPhone app that provides mobile access to Metro Vancouver Recycles database. All you do is enter a material and hit search to find the closest donation and recycling locations.

Visit metrovancoverrecycles.org to download the free app from the iPhone App Store.

Product stewardship is successful thanks to partnership. The program includes several stakeholders working together to ensure that products no longer being used by consumers are managed in an environmentally responsible manner. The key participants in these programs are the BC government, local governments, producers, retailers and consumers who bring their products to designated collection sites when they are at their end of life.



TIP FOR RESIDENTS

Many electronics products can be reused by others and there are convenient services to sell them or give them away. You can also give them to a number of organizations who accept donated equipment to redistribute in the community. Please contact these agencies in advance to ensure they will accept specific items for donation.

BC Electronics Material Exchange: bcmex.ca
Free Geek Vancouver: freegeekvancouver.org

RECYCLING COUNCIL OF BRITISH COLUMBIA (RCBC)

Richmond works with the Recycling Council of British Columbia (RCBC) to promote awareness and education about recycling. RCBC is a multi-sectoral, non-profit, membership driven organization that promotes the principles of zero waste through information services, the exchange of ideas and research. It is Canada's longest-serving recycling council.

RCBC also provides information and resources to support recycling in the community. They offer a Recycling Hotline that provides a free, province-wide live information service for recycling, pollution prevention, waste avoidance, safe disposal options and regulations. Their live Hotline Information Officers answer over 120,000 inquiries each year, providing information to B.C. residents from its comprehensive database containing over 120 product and service categories and 4,000 listings of businesses, services, organizations and programs, covering a wide range of topics.

Other resources include material exchange programs for residents and businesses, and an online tool and smart phone app to find recycling drop off locations, called the RCBC Recyclepedia at rcbc.bc.ca/recyclepedia.

RCBC COMMUNITY RESOURCES

Recycling Hotline

Monday to Friday, 9 a.m. to 4 p.m.

Phone: 604-RECYCLE (604-732-9253)

Email: hotline@rcbc.bc.ca

Smart Phone App: BC Recyclepedia App

(available at iPhone App Store and Android Market)

RCBC MATERIALS EXCHANGE PROGRAM (MEX)

The RCBC MEX program is a completely self-serve web-based program comprised of Residential Reuse Programs and the BC Industrial Materials Exchange (BC IMEX) and is available at bc.reuses.com.

DID YOU KNOW?

Bike tires can be recycled simply by dropping them off for free at a number of participating bike retailers across BC. The program includes all types of bike tires and tubes, except for tubular tires, which are attached to special rims by glue and are not commonly used anymore. This industry-led recycling program is funded by Tire Stewardship BC and you can locate the nearest drop-off location at tirestewardshipbc.ca/bike.php or call 1-866-759-0488.



PRODUCT STEWARDSHIP PROGRAMS

The City of Richmond works with local companies and organizations like Product Care and Encorp to support BC's Product Stewardship Programs.

These programs are often called take back programs or Extended Producer Responsibility (EPR) programs, and they are based on the principle that whoever designs, produces, sells or uses a product is also responsible for minimizing that product's environmental impact. The key participants in these programs are the BC government, local governments, producers, retailers and consumers who bring their products to designated collection sites when they are at their end of life. The cost of these programs is covered by consumers and producers,

sometimes in the form of a deposit or levy that is charged at the time of purchase. In the case of beverage containers, there are refunds available when they are returned at a collection site.

Take back programs are important as they expand the opportunities for recycling beyond the curbside collection services. There are many household items that can be recycled through businesses and organizations in the community who participate in BC's Product Stewardship Program. Many of these items are also considered hazardous waste, and they are restricted from garbage as they are not accepted at the landfill. The take back programs helps to ensure that these expired or end-of-life products will be disposed of safely, and recycled where possible.

PRODUCTS CURRENTLY INCLUDED IN THE PRODUCT STEWARDSHIP PROGRAM

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> • Paint products, flammable liquids, gasoline, pesticides and solvents • Beverage containers • Electronics and electrical products • Car batteries • Cell Phones | <ul style="list-style-type: none"> • Pharmaceutical • Motor oil, oil filters and empty oil containers • Vehicle tires • Compact fluorescent lamps (CFLs) including fluorescent tubes • Thermostats | <ul style="list-style-type: none"> • Small appliances • Lead acid batteries • Used oil and antifreeze • Carbon monoxide and smoke alarms |
|--|---|--|

PRODUCTS BEING CONSIDERED FOR EXPANDED RECYCLING THROUGH PRODUCT STEWARDSHIP

- Packages and printed paper program

For more information, visit bcstewards.ca

PRODUCT STEWARDSHIP PROGRAM CATEGORIES

The following categories highlight the products that can be returned to retailers and other community partners. For a list of drop off locations for each category, please see the Tips and Resources section.

TAKE BACK PROGRAMS	WHAT IS INCLUDED	STEWARDSHIP AGENCY
BEVERAGE CONTAINERS <div> <p>DID YOU KNOW? 100% of brewer packaging is either reusable or recyclable, and in addition to standard beer cans and bottles, brewers reuse or recycle their aluminium kegs and their secondary packaging including plastic shrink wrap, cardboard and wooden pallets.</p> </div>	Almost all types of beverage containers.	Encorp Pacific (Canada) Contact return-it.ca 1-800-330-9767 or 604-473-2400 encorp@encorpinc.com Note: Beverage containers like pop and juice cans and bottles can be recycled with the Blue Box or Blue Cart or can be dropped off at Richmond's Recycling Depot as part of the City's recycling services. Beverage containers can also be returned for a refund on the deposit at a number of Return-It Depots locations in Richmond.
ELECTRONICS	Televisions and computer and printer products such as desktop computers, display devices, portable (laptop) computers, desktop printers and fax machines and computer accessories like keyboards, pointing devices, track balls and mice.	Electronic Stewardship Association of BC (ESABC) with the help of BC's Product Care Association Contact return-it.ca/electronics 1-800-473-2411 cwisehart.esabc.ca
CELL PHONES	Mobile/wireless devices that connect to a cellular or paging network, including all cell phones, smart phones, wireless personal digital assistants (PDAs), external air cards and pagers, as well as cell phone batteries and accessories, including headsets and chargers.	Canadian Wireless Telecommunications Association Contact RecycleMyCell.ca 1-888-797-1740 info@recyclemycell.ca
BATTERIES	Household batteries.	Call2Recycle Contact call2recycle.ca 1-888-224-9764 info@call2recycle.ca
SMALL APPLIANCES "UNPLUGGED"	Kitchen countertop appliances (e.g. toasters, microwaves, coffee makers and food processors), electric bathroom scales, hair dryers, carpet cleaners, vacuum cleaners and portable fans.	Unplugged is a non-profit, province-wide, small electrical appliance recycling program in B.C. and the first of its kind in Canada through the Canadian Electrical Stewardship Association (CESA) with the help of BC's Product Care Association Contact unpluggedrecycling.ca 1-877-670-2372

DID YOU KNOW?

Lead acid (car) batteries are a hazardous waste product that require special handling for proper disposal. The Interstate Battery System of Canada, Inc (ISBC) and the Canadian Battery Association work together to support product stewardship for take back of car batteries.



TAKE BACK PROGRAMS	WHAT IS INCLUDED	STEWARDSHIP AGENCY
FLUORESCENT LIGHTS AND TUBES	Fluorescent lights accepted in this program include compact fluorescent lights (CFLs), and fluorescent tubes in sizes that are 8 feet or shorter (T5s, T8s or T12s).	Product Care and the Electrical Equipment Manufacturers Association of Canada (EEMAC) Contact lightrecycle.ca 604-592-2972 contact@productcare.org
TIRES	Car tires, truck tires and some agricultural and logger/skidder tires.	Tire Stewardship BC (TSBC) Contact tsbc.ca 1-866-759-0488
THERMOSTATS "SWITCH THE 'STAT"	Thermostats.	Heating, Refrigeration and Air Conditioning Institute of Canada in partnership with the Canadian Institute of Plumbing and Heating, and delivered by Summerhill Impact. Contact switchthestat.ca 416-922-2448 (ext 367) switchthestat@summerhillgroup.ca
USED OIL AND ANTIFREEZE	Motor oil, oil filters, empty oil containers, anti-freeze and used antifreeze containers.	BC Used Oil Management Association Contact usedoilrecycling.com/bc 604-703-1990 rdriedger@usedoilrecycling.ca
PAINTS, SOLVENTS, PESTICIDES AND GASOLINE	Interior/exterior latex, alkyd, enamel and oil-based, porch, floor and deck paints, stains, paint aerosols, varnishes and urethanes, primers and sealers, flammable liquids like paint thinner or camp fuels, gasoline, pesticides and solvents.	Product Care Contact productcare.org/BC-Paint-Program
MEDICATION	All expired or leftover prescription medication, non-prescription medication and mineral supplements.	The BC Medications Return Program is a product stewardship initiative funded by the pharmaceutical and consumer health products industries Contact medicationsreturn.ca 613-723-6282 info@medicationreturn.ca

DID YOU KNOW?

Recycled tires are used in products such as athletic tracks, playground safety surfaces, synthetic turf fields and roofing products.

A large, faint recycling symbol (three chasing arrows forming a triangle) is centered in the background of the page.

**LET'S MAKE
RECYCLING A
WAY OF LIFE!**

TIPS AND RESOURCES

In Richmond, we care about our community, and we are working together to trim our waste. The City works with residents and community partners to make it easy and convenient to reuse and recycle at home and on the go. It's all about making recycling a way of life. This at-a-glance resource on the various types of recycling programs and services available through the City of Richmond is a valuable guide to support being recycling smart in Richmond. The Tips and Resources include highlights such as how and where to recycle, what to do with hazardous waste and where to find additional information.

Resources also include contact information and locations for Richmond services and community partners involved in take-back services through product stewardship programs. Together these tips and resources help to support maximum recycling with minimum contamination in the waste going to the landfill.

LET'S GET TO 70% BY MAXIMIZING OUR BLUE BOX AND BLUE CART RECYCLING!

BLUE BOX

In Richmond, recyclable materials from blue boxes, blue bags and yellow bags are collected from single-family homes and some townhome complexes on the same day that garbage is collected.

The residential Recycling and Garbage Schedule 2012 is available on the Internet at www.richmond.ca/recycle or call 604-276-4010 to request a copy. Recyclable materials are banned from the garbage.



	NEWSPRINT	PAPER PRODUCTS	CORRUGATED CARDBOARD	CONTAINERS
WHAT TO RECYCLE	<ul style="list-style-type: none"> Newspaper Non-glossy flyers and inserts 	<ul style="list-style-type: none"> 100% fibre paper Glossy paper Empty pizza boxes Junk mail Magazines & catalogues Office papers Paper boxes Paper egg cartons Window envelopes 	<ul style="list-style-type: none"> Small pieces of clean corrugated cardboard Clean corrugated cardboard boxes One bundle per week Oversized/excessive amounts can be dropped off at the City Recycling Depot 	<ul style="list-style-type: none"> Aluminium food & beverage cans, foil and plates Tin cans Glass food & beverage containers Rigid plastic containers with coding ♻️♻️♻️
HOW TO RECYCLE	Place items in Blue Bag	Place in Yellow Bag <ul style="list-style-type: none"> Remove all food scraps Remove plastic liners Remove metal attachments Flatten 	Set at curb with Blue Box <ul style="list-style-type: none"> Flatten and place in yellow bags; or Flatten and bundle, to 3 ft x 2 ft x 4 in (90 cm x 60 cm x 10 cm) 	Place in Blue Box <ul style="list-style-type: none"> Rinse clean Remove lids Remove labels Flatten
DO NOT INCLUDE	<ul style="list-style-type: none"> Other types of paper Strings Plastic or paper bags 	<ul style="list-style-type: none"> Bathroom tissue Carbon paper Drink boxes Metallic gift wrap Milk cartons Paper clips Paper towels Plastic bags Plastic tabs Tissue paper Waxed paper 	<ul style="list-style-type: none"> Plastic or wax coated cardboard Unflattened boxes 	<ul style="list-style-type: none"> Aerosol cans Containers with code ♻️♻️♻️ Ceramics (plates/cups) Drinking glasses Flower pots Fluorescent tubes Light bulbs Milk cartons Motor oil containers Other plastics (plastic film and grocery bags) Styrofoam Window glass

Set Out Time

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

Report a Missed Collection

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

How to Get a Blue Box, Blue Bag or Yellow Bag

There is no charge for new or replacement blue boxes, blue bags or yellow bags.

For additional boxes and bags call 604-276-4010, order them online at www.richmond.ca/recycle, or pick them up at the following locations:

City Recycling Depot

5555 Lynas Lane
Wednesday to Sunday (Closed on Mondays, Tuesdays & Statutory Holidays)
9:00 a.m. to 6:15 p.m.


City Hall

6911 No. 3 Road
Monday to Friday (Closed on Saturdays, Sundays & Statutory Holidays)
8:15 a.m. to 5:00 p.m.

BLUE CART

All vertically stacking multi-family dwellings and some townhome complexes have a recycling depot consisting of a number of blue recycling carts. They are generally located in the garbage room or other convenient location. For information about the recycling depot location in your building, contact your building manager or property manager.

The carts are emptied once a week. Statutory holidays do not affect the collection; Christmas Day may delay collection by one day if it falls on a weekday.



	NEWSPRINT	PAPER PRODUCTS	CORRUGATED CARDBOARD	CONTAINERS
WHAT TO RECYCLE	<ul style="list-style-type: none"> Newspaper Non-glossy flyers and inserts 	<ul style="list-style-type: none"> 100% fibre paper Glossy paper Empty pizza boxes Junk mail Magazines & catalogues Office papers Paper boxes Paper egg cartons Window envelopes 	<ul style="list-style-type: none"> Small pieces of clean corrugated cardboard Clean corrugated cardboard boxes Oversized/excessive amounts can be dropped off at the City Recycling Depot 	<ul style="list-style-type: none"> Aluminium food & beverage cans, foil and plates Tin cans Glass food & beverage containers Rigid plastic containers with coding ♻️♻️♻️
HOW TO RECYCLE	Place items in Newsprint Blue Recycling Cart	Place in Paper Products Blue Recycling Cart <ul style="list-style-type: none"> Remove all food scraps Remove plastic liners Remove metal attachments Flatten 	Place in Paper Products Blue Recycling Cart or place in onsite Corrugated Cardboard recycling container <ul style="list-style-type: none"> Flatten Cut to 1 ft x 1 ft (30 cm x 30 cm) 	Place in Blue Box <ul style="list-style-type: none"> Rinse clean Remove lids Remove labels Flatten
DO NOT INCLUDE	<ul style="list-style-type: none"> Other types of paper Strings Plastic or paper bags 	<ul style="list-style-type: none"> Bathroom tissue Carbon paper Drink boxes Metallic gift wrap Milk cartons Paper clips Paper towels Plastic bags Plastic tabs Tissue paper Waxed paper 	<ul style="list-style-type: none"> Plastic or wax coated cardboard Un-flattened boxes 	<ul style="list-style-type: none"> Aerosol cans Containers with code ♻️♻️♻️ Ceramics (plates/cups) Drinking glasses Flower pots Fluorescent tubes Light bulbs Milk cartons Motor oil containers Other plastics (plastic film and grocery bags) Styrofoam Window glass

Cart Emptying

Some carts are retrieved from their site, however, some are brought out to a collection area.

Carts brought out must be at the collection area before 7:30 a.m.

Report a Missed Collection

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

How to Get an Indoor Collection Bag for Blue Cart Recycling

There is no charge for new or replacement blue cart recycling bags. For additional bags call 604-276-4010, order them online at www.richmond.ca/recycle, or pick them up at the City Recycling Depot.

City Recycling Depot

5555 Lynas Lane
Wednesday to Sunday (Closed on Mondays, Tuesdays & Statutory Holidays)
9:00 a.m. to 6:15 p.m.

TURNING WASTE INTO RESOURCES!

Let's turn our food scraps and yard trimmings into nutrient-rich soil...

1 Food scraps + yard trimmings



Green Can or Green Cart

2

3 Composting facility



4 Composting soil



Use compost to grow food and for gardening

5



CYCLE BACK TO STEP 1!

GREEN CAN

Green Can food scraps and yard trimmings are collected weekly for single-family homes and some multi-family homes. Collection occurs on the same day garbage and Blue Box recycling is picked up.

There is no limit on the amount of food scraps and/or yard trimmings disposed. However, all food scraps and yard trimmings must be contained in:

- 80 litres or smaller garbage type container, must weigh less than 20 kg (44 lbs) when filled and affixed with Green Can decal; or
- Paper yard waste bags or secure tied bundles no more than 3 ft in length and 2 ft thick

	FOOD SCRAPS	YARD TRIMMINGS
WHAT TO RECYCLE	<ul style="list-style-type: none"> • Fruit • Breads, pasta, rice & noodles • Coffee grounds & filters • Table scraps & food scrapings • Meat, poultry, fish, shellfish & bones • Eggshells • Paper towels/napkin/plates • Pizza delivery boxes • Vegetables • Tea bags • Dairy products 	<ul style="list-style-type: none"> • Flowers • Grass clippings • Leaves • Other organic yard materials • Plants (living or dead/dried) • Plant trimmings • Tree & hedge prunings
HOW TO RECYCLE	<ul style="list-style-type: none"> • Collect food scraps in kitchen food scraps container • Empty kitchen food scraps container contents in Green Can 	<ul style="list-style-type: none"> • Set Green Cans, with Green Can decal facing the street, at the curb along with unlimited paper yard waste bags, tied bundles of yard trimmings by 7:30 a.m. on collection day.
DO NOT INCLUDE	<ul style="list-style-type: none"> • Cereal & cracker box liners • Chips & cookie bags • Coffee cups • Cork or Styrofoam cups, meat trays or takeout containers • Dental floss • Diapers & baby wipes • Grease or liquids • Makeup remover pads, cotton swabs & balls • Pet feces or kitty litter • Plastic bags, biodegradable or compostable bags • Plastic wraps • Takeout containers • Vacuum contents/bags 	<ul style="list-style-type: none"> • Diseased plants • Garden hoses or flower pots • Prunings over 4 inches (10 cm) in diameter • Rocks, dirt or sod • Wood products

Yard Trimmings Drop-off Locations

Richmond residents can drop off yard trimmings (see above for materials accepted) at the following locations, free of charge with proof of residency.

Charge will be applied to anyone deemed to be operating for commercial purposes.

Ecowaste Industries

15111 Williams Road
Open Monday to Friday from 7:00 a.m. to 6:00 p.m.
(last load in at 5:00 p.m.)
Visit ecowaste.com or call 604-277-1410 for detailed information.

City Recycling Depot

5555 Lynas Lane
Wednesday to Sunday (Closed on Mondays, Tuesdays & Statutory Holidays)
9:00 a.m. to 6:15 p.m.

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 \$20.00 per cubic yard.

HOME COMPOSTING

Home composting turns your food scraps and yard trimmings into nutrient-rich soil that can be spread on lawns and flowerbeds.

BACKYARD COMPOST BIN

"Garden Gourmet" compost bins are available to Richmond residents at the Recycling Depot for \$25.00 plus tax. The bin dimensions are 36 inches (90 cm) high, 22 inches (56 cm) wide and 22 inches (56 cm) deep. They are suitable for residential backyard composting of grass, leaves, vegetable trimmings, fruit trimmings and other miscellaneous organic garden trimmings.

COMPOSTING WORKSHOPS

To learn about composting, attend a Richmond composting workshop, which are held from March to September. Visit www.richmond.ca/register for workshop dates and locations or call Parks & Recreation at 604-276-4300 and press '2' from Monday to Friday between 8:30 a.m. to 5:30 p.m.

REGIONAL COMPOST HOTLINE

For composting questions, call the regional Compost Hotline at 604-736-2250.

COMPOST DEMONSTRATION GARDEN

A compost demonstration garden is located at 2631 Westminster Highway in the Terra Nova Rural Park. Composting demonstration units are on display for viewing year-round, from dawn to dusk.

THE "RECIPE":



Green Materials:

- PLANT TRIMMINGS
- FRUIT & VEGETABLE PEELINGS
- FRESH GRASS CLIPPINGS
- COFFEE GROUNDS & TEA LEAVES

Brown Materials:

- DRY LEAVES
- SAWDUST
- STRAW
- SHREDDED NEWSPAPER CLIPPINGS



1

START WITH A GOOD LAYER OF COARSE ORGANIC MATERIAL, SUCH AS STRAW, LEAVES OR PRUNING AT THE BOTTOM TO ALLOW AIR TO CIRCULATE.

2

ADD A GOOD LAYER OF NITROGEN-RICH GREEN MATERIAL FOLLOWED BY ONE LAYER OF CARBON-RICH BROWN MATERIAL, UNTIL THE BIN IS FULL.

3

COMPOST REQUIRES AIR. TURN AND STIR YOUR COMPOST WEEKLY SO THE ORGANISMS GET NECESSARY OXYGEN.

4

COMPOST REQUIRES MOISTURE. WATER YOUR COMPOST BIN FREQUENTLY, TO ENSURE IT STAYS AS MOIST AS A WRUNG-OUT SPONGE.


5

GIVE IT TIME - IN 12-18 MONTHS, MATERIAL AT THE BOTTOM AND MIDDLE OF THE BIN SHOULD BE COMPOSTED. USE THIS THROUGHOUT YOUR GARDEN. USE THE UN-COMPOSTED MATERIAL TO START A NEW BATCH. CHIPPING OR CHOPPING THE MATERIAL CAN INCREASE THE SPEED OF THE PROCESS. REGULAR AERATION IS KEY TO SUCCESSFUL COMPOSTING.

REACHING OUR GOAL IS EASIER THAN EVER WITH THE CITY RECYCLING DEPOT!

RECYCLING DEPOT

The City of Richmond Recycling Depot is located at 5555 Lynas Lane and is open from Wednesday through Sunday from 9:00 a.m. to 6:15 p.m. The depot accepts large appliances, large metal items and yard trimmings, as well as recyclables normally placed at curbside.

Residents are encouraged to use the curbside recyclables collection for rigid plastic codes , newsprint and mixed paper. Businesses are encouraged to subscribe to onsite collection services if a large quantity of recyclables is produced. Residents and small business operators can drop off only 1 cubic yard of recyclables and 3 large appliances at the depot per day.

In addition, the depot is a Provincial Product Stewardship (Take Back) Collection site for paint, solvents, flammable liquids, pesticides and small appliances.



	NEWSPAPER	MIXED PAPER	CORRUGATED CARDBOARD	MAGAZINES
WHAT TO RECYCLE	<ul style="list-style-type: none"> Newspaper Non-glossy flyers and inserts 	<ul style="list-style-type: none"> Cereal & paper boxes Envelopes Junk mail Non-glossy inserts Office papers Packaged food boxes Paper egg cartons Paperback books Telephone books 	<ul style="list-style-type: none"> Clean corrugated cardboard boxes Clean pizza boxes 	<ul style="list-style-type: none"> Glossy catalogues Glossy flyers Glossy magazines
HOW TO RECYCLE	Place in Newsprint bin <ul style="list-style-type: none"> Do not bag or bundle 	Place in Mixed Paper bin <ul style="list-style-type: none"> Remove all food scraps Remove plastic liners & tabs Remove metal attachments Flatten 	Place in Corrugated Cardboard bin <ul style="list-style-type: none"> Flatten Discard Styrofoam & plastic packaging 	Place in Magazine bin <ul style="list-style-type: none"> Remove plastic covers
DO NOT INCLUDE	<ul style="list-style-type: none"> Glossy paper Mixed paper products Paperback books Shopping bags Packing paper 	<ul style="list-style-type: none"> Bathroom tissue Corrugated cardboard Drink boxes Juice boxes Metallic gift wrap Milk cartons Paper towels Pizza boxes Plastic bags Tissue paper Waxed paper 	<ul style="list-style-type: none"> Plastic or waxed coated cardboard Styrofoam packaging material Un-flattened boxes 	<ul style="list-style-type: none"> Drinking boxes Mixed paper Newspaper Paperback books Pizza boxes Waxed paper

DID YOU KNOW?

Used cooking oil, animal fat and grease require proper disposal. It's important to make sure these products are not poured down the drain as this results in blockages in sewer lines. Instead, Richmond residents can drop off used cooking oil, animal fat and grease at the Recycling Depot at 5555 Lynas Lane for recycling.

The proper disposal of these products helps to prevent problems such as sewage back-ups and other operational impacts that affect the operation of the sewer system and its infrastructure. For more information on proper disposal of household products, visit www.richmond.ca/recycle.


**PLASTIC
CONTAINERS**
**GLASS
BOTTLES
& JARS**
**ALUMINIUM
& TIN CANS**
**COOKING OIL
& ANIMAL FAT**
**YARD
TRIMMINGS**
**WHAT TO
RECYCLE**

- Rigid plastic containers with coding
- Beverage containers
- Dairy containers & milk jugs
- Detergent & shampoo bottles
- Food containers

- Glass bottles & food jars (clear & coloured)

- Aluminium foil
- Clean aluminium pie plates
- Food & beverage cans

- Cooking oil
 - Animal fat or grease
- Note: this program is limited to hydrogenated and non-hydrogenated food-based oils and fat only

- Branches & limbs
- Trees & shrubs
- Grass & leaves

Drop-off Limits & Charges
Richmond residents can drop off one cubic yard free at the City's Recycling Depot. Charged \$20.00 per cubic yard if over limit. Commercial operators are charged \$20.00 per cubic yard

**HOW TO
RECYCLE****Place in Plastics
Containers bin**

- Rinse
- Remove lids or caps
- Remove labels (if possible)
- Flatten

**Place in Clear Glass
or Coloured Glass
bin**

- Rinse
- Remove and discard caps

**Place in Tin &
Aluminium Cans bin**

- Rinse
- Remove labels
- Flatten cans

- Bring cooking oil and animal fats/grease in food cans or other suitable containers
- Up to 2 x 5-litre containers are accepted

**Place in area marked
Trees & Shrubs or
Grass & Leaves bin**

- Limbs/trunks up to 4 inches (10 cm) in diameter only
- De-bag all material at the depot

**DO NOT
INCLUDE**

- Aerosol cans
- Flower pots
- Milk cartons
- Motor oil containers
- Other plastics
- Plastic bags
- Styrofoam
- Plastic film

- Aquariums
- Ceramics (plates/cups)
- Drinking glasses
- Fluorescent tubes
- Headlights
- Light bulbs
- Mirrors

- Aerosol cans
- Fuel cans
- Paint cans

- Vehicle oil or fluids

- Asphalt or concrete
- Soil and/or Dirt
- Large limbs
- Lumber or wood products
- Plastic bags
- Rocks or stones
- Sod
- Stumps





	PAINTS, SOLVENTS & PESTICIDES	LARGE METAL ITEMS	LARGE APPLIANCES	SMALL APPLIANCES	RESIDENTIAL FLUORESCENT LAMPS
WHAT TO RECYCLE	<ul style="list-style-type: none"> Domestic pesticides Max. size: 10 L / 2.6 gal Flammable aerosols Max. size: 660 g / 24 oz Flammable liquids Max. size: 10 L / 2.6 gal Gasoline Max. size: 25 L / 6.5 gal Household paints Max. size: 18.9 L / 4.9 gal, full or empty) Paint aerosols Max. size: 660 g / 24 oz, full or empty) 	<ul style="list-style-type: none"> Bike frames Clean 45 gal drums (one end open) Clean automotive parts Clean barbeques Lawn chairs Lawn mowers Sheet / scrap metal Steel coat hangers Steel or lead piping 	<ul style="list-style-type: none"> Dishwashers Fridges & freezers Furnaces Hot water tanks Metal microwaves Stoves Video cassette recorders/players Washing machines & dryers 	<ul style="list-style-type: none"> Kitchen countertop Personal care Floor cleaning Weight measurement Garment care Air treatment Time measurement Designated very small items 	<ul style="list-style-type: none"> Compact fluorescent lights (CFLs) Fluorescent tubes – T5s, T8s or T12s (8 ft or shorter) Maximum of 16 per return
HOW TO RECYCLE	<ul style="list-style-type: none"> In original containers bearing the "flammable" symbol In approved Underwriters Laboratories of Canada (ULC) containers In original containers showing skull & crossbones & Pest Control Product (PCP) numbers 	Place in area marked Large Metal Items or bin <ul style="list-style-type: none"> Remove non-metal attachments Remove fuel tank Drain out gasoline 	Place in area marked Refrigerators & Freezers or Furnaces & Hot Water Tanks or Large Appliances <ul style="list-style-type: none"> Remove door from fridges and leave freon systems complete 	<ul style="list-style-type: none"> Remove all food residue, liquids or vacuum bags 	<ul style="list-style-type: none"> Handle fluorescent lights carefully, wrap lights in paper or place them in original packaging
DO NOT INCLUDE	<ul style="list-style-type: none"> Brushes, rags & rollers Caulking tubes Cosmetics, health & beauty Diesel, propane or butane Fertilizer Helium tanks Insect repellents, disinfectants & pet products Non-flammable glues & adhesives Products that are leaking or improperly sealed Products that can't be identified Roof patch, tars & grease 	<ul style="list-style-type: none"> Computer monitors Helium tanks Paint cans Propane & fuel tanks Televisions 	<ul style="list-style-type: none"> Large or small furniture (couches, sofas, mattresses, boxsprings) 	<ul style="list-style-type: none"> Appliance not powered by electricity or batteries Large appliances (washers, dryers, dishwashers, ovens) Appliance de-icing for commercial/industrial use Built-in appliances (some microwaves, ceiling fans, central vacuums) Appliances with refrigerant (air conditioners, refrigerators, dehumidifiers) Appliances still containing food residue, liquids or vacuum bags 	<ul style="list-style-type: none"> Broken or punctured CFLs or fluorescent tubes Halogen lights Incandescent lights Light-emitting diode (LED) lights Commercial-use lights

GARBAGE

The City's garbage collectors will **not** pick up the following items:

MATERIAL	HOW TO RECYCLE OR DISPOSE
ANIMAL WASTE	<ul style="list-style-type: none"> Call the Recycling Council of BC (RCBC) Recycling Hotline at 604-RECYCLE (732-9253)
DEMOLITION WASTE	<ul style="list-style-type: none"> Check Metro Vancouver's website at www.metrovancouver.org/buildsmart or call the RCBC Recycling hotline at 604-RECYCLE.
DIRT, ROCK, CONCRETE OR BRICKS	<ul style="list-style-type: none"> Take to Ecowaste Industries. Visit ecowaste.com or call 604-277-1410 for accepted items & hours.
DRYWALL	<ul style="list-style-type: none"> Take to the Vancouver Landfill at 5400 72nd Street, Delta (Maximum 1/2 sheet with paid load of garbage) or Ecowaste Industries. Visit ecowaste.com or call 604-277-1410 for accepted items & hours.
GARBAGE BEYOND THE TWO CAN LIMIT	<ul style="list-style-type: none"> Purchase a \$2.00 Garbage Tag for City facilities and put on can or bag. See Extra Item Disposal Options.
GARBAGE THAT IS TOO BIG OR MAY DAMAGE TRUCK	<ul style="list-style-type: none"> Take garbage to the City of Vancouver Landfill at 5400 72nd Street, Delta. See Extra Item Disposal Options.
HAZARDOUS WASTE	<ul style="list-style-type: none"> Call RCBC Recycling Hotline at 604-RECYCLE or visit www.metrovancouverrecycles.org.
PROVINCIAL PRODUCT STEWARDSHIP COLLECTION (TAKE-BACK) ITEMS	<ul style="list-style-type: none"> Visit bcstewards.com or call 604-RECYCLE.
RECYCLABLES (BLUE BOX & BLUE CART)	<ul style="list-style-type: none"> Place in appropriate recycling receptacle unless it is contaminated by food or other waste.
UNWRAPPED OR LOOSE GARBAGE	<ul style="list-style-type: none"> Must be in garbage bag or can.
YARD TRIMMINGS	<ul style="list-style-type: none"> Single-family homes to place at curbside on garbage collection day. If one cubic yard or less, drop off at Recycling Depot. Unlimited amounts can be dropped off at Ecowaste Industries with proof of residency. Check Green Can section for restrictions and accepted materials.

Two Can Limit

Garbage is collected weekly for all single-family residents and some townhome complexes.

Garbage pickup in Richmond is limited to two containers (cans or bags) per week for each address or service. A \$2.00 tag is required for each additional container or equivalent.

How Big is a "Can"?

For the purposes of garbage pickup in Richmond, each of the following represents one can:

- A garbage can with lid
- Standard size: 19 inches x 22 inches (48 cm x 56 cm)
- Maximum size allowed: 24 inches x 32 inches (61 cm x 81 cm)
- An equivalent container should not exceed 3 cubic feet (100 L)

How Big is a Bag?

- Standard size: 24 inches x 36 inches (61 cm x 91 cm)
- Maximum size allowed: 30 inches x 48 inches (76 cm x 120 cm)
- An equivalent item should not exceed 3 feet x 2 feet (91 cm x 60 cm)

Preparing Garbage for Collection

Loose garbage must be securely packed in plastic bags. This includes ashes, kitty litter, disposal diapers, vacuum cleaner sweepings and other loose household garbage.

To reduce litter and damage by animals, place bags and other garbage in plastic cans wherever possible. Garbage must be packed in plastic bags and then placed in cans with secure lids. Loose plastic bags must not rip when lifted.

All garbage must be placed at curbside, within three feet of the curb, before 7:30 a.m. on collection day. 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

Purchase Garbage Tags or Garbage Disposal Vouchers to dispose of extra garbage.

\$2.00 Garbage Tags

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

Garbage Disposal Vouchers

Richmond residents may purchase a garbage disposal voucher for \$5.00 at all City facilities. These vouchers are good for \$20.00 at the Vancouver Landfill, and are valid anytime. They are limited to one per household. Visit www.richmond.ca/recycle for a list of City facilities selling Garbage Tags and Garbage Disposal Vouchers.

City of Vancouver Landfill

Location and Hours

Visit the City of Vancouver Landfill webpage at Vancouver.ca/engsvcs/solidwaste/landfill/index.htm or call 604-873-7000 for hours of operation and rates.

Report a Missed Collection

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



SPECIAL WASTE AND OTHER DISPOSAL ITEMS

Many common household and automotive products must be recycled or disposed through special depots or take back programs. Some are hazardous products that are banned from landfill as they can cause injury or death, or damage to the environment if not handled properly. As an example, hazardous products that are dumped in sewers or green spaces can kill or injure livestock, wildlife and plant life. For the safety of people and the environment, it's essential that we dispose of these materials carefully.

Other products can be recycled to turn waste into resources but they are not accepted in blue boxes due to their size or other factors that affect collection. It is easy and convenient for residents to drop off these products thanks to the City's Recycling Depot and the many community partners who accept these materials through the Product Stewardship Program.

The following is a list of disposal sites. 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.



TIP FOR RESIDENTS

To spot hazardous waste, look for the words Danger, Warning, or Caution on the product label, and any of the symbols shown above.

**ANTIFREEZE AND EMPTY CONTAINERS^{DB}**

DROP-OFF LOCATION	ADDRESS	PHONE
Richmond Audi	5680 Parkwood Way	604-279-9663
Canadian Tire	3500 No. 3 Road	604-273-2970
Certigard Petro-Canada	4011 Francis Road	604-277-3620
Cowell Motors Ltd. - Volkswagen	13611 Smallwood Place	604-273-3992
Esso Service	7991 No. 1 Road	604-277-1105
Jaguar Land Rover of Richmond	5660 Parkwood Way	604-273-6068
Lubeworld	10991 No. 4 Road	604-951-6662
Metron Auto Service Ltd.	104 - 8077 Alexandra Road	604-270-1668
Mr. Lube	9120 Westminster Highway	604-273-5823
Rainbow Auto Service	142 - 11788 River Road	604-276-2830

For a complete list of antifreeze or containers accepted, visit <http://usedoilrecycling.com/en/bc> or call 604-RECYCLE.

APPLIANCES - SMALL^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
City's Recycling Depot	5555 Lynas Lane	604-276-4010
Ironwood Bottle & Return-It Depot	11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Regional Recycling Richmond	13300 Vulcan Way	604-276-8270

For a complete list of small appliances accepted, visit unpluggedrecycling.ca or call 604-RECYCLE.

AUDIO VISUAL AND CONSUMER ELECTRONICS EQUIPMENT^{DB}, TELEPHONES & TELEPHONE ANSWERING SYSTEMS^{DB}, TELEVISIONS^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
Best Buy	700 - 5300 No. 3 Road	604-273-7335
Future Shop	102 - 5300 No. 3 Road	604-232-9772
Ironwood Bottle & Return-It Depot	11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Ralph's on Mitchell	12011 Mitchell Road	604-325-8323
Regional Recycling Richmond	13300 Vulcan Way	604-276-8270

For a complete list of audio visual & consumer equipment, telephones and telephone answering systems and television accepted, please visit return-it.ca/electronics or call 604-473-2400.

AUTOMOTIVE BATTERIES^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
Canadian Tire	3500 No. 3 Road	604-273-2939
	11388 Steveston Highway	604-271-6651
Kal Tire (Richmond Centre)	6551 No. 3 Road	604-207-1203
Ralph's on Mitchell	12011 Mitchell Road	604-325-8323
Regional Recycling *	13300 Vulcan Way	604-276-8270

Note: All retail locations accept a used car battery for each new one purchased. For a list of collection sites, please visit www.recyclemybattery.ca

DB: Disposal ban | * A fee is charged

**BABY CAR SEATS^{DB}**

DROP-OFF LOCATION	ADDRESS	PHONE
City of Vancouver Landfill *	5400 72nd Street, Delta	604-873-7000

BATTERIES AND MOBILE PHONES^{DB}

Weight of five kilograms or less.

DROP-OFF LOCATION	ADDRESS	PHONE
Batteries Included	319 - 5300 No. 3 Road	604-270-9989
Canadian Tire	11388 Steveston Highway	604-271-6651
Dr Battery	135 - 13900 Maycrest Way	604-273-8248
Future Shop	5300 No. 3 Road Unit 102	604-232-9772
Home Depot	2700 Sweden Way	604-303-7360
London Drugs	5971 No. 3 Road	604-482-4811
	3200 - 11666 Steveston Highway	604-448-4852
Pharmasave	116 - 10151 No. 3 Road	604-241-2898
Rona	7111 Elmbridge Way	604-273-4606
Staples	#1 - 6390 No. 3 Road	604-270-9599
	110 - 2780 Sweden Way	604-303-7850

For a complete list of batteries accepted, please visit call2recycle.ca or call 1-888-224-9764.

For a complete list of mobile phones drop off locations, visit recyclemycell.ca/dropoff.php

CARBON MONOXIDE (CO), SMOKE AND COMBINATION SMOKE AND CO ALARMS^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
Go Green Depot & Recycling	#7 - East 7th Avenue, Vancouver	604-874-0367
South Van Bottle Depot	34 East 69th Avenue, Vancouver	604-325-3370

For a complete list of alarms accepted, please visit productcare.org/Smoke-Alarms or call 604-RECYCLE.

CELLULAR/MOBILE PHONES^{DB}

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

To erase information from your device, including text messages, contacts and personal files, use Cell Phone Data Erasers by http://recellular.com/recycling/data_eraser/default.asp available for free.

Visit recyclemycell.ca or call 1-888-797-1740 for a list of collection sites. Pre-paid mail-back label to return cellular phone through Canada Post is available through recyclemycell.ca/labels.php.

Mobile phones are also accepted by all Call2Recycle locations, visit call2recycle.ca/locations.

COFFEE CUPS (PAPER OR SYTROFOAM)

DROP-OFF LOCATION	ADDRESS	PHONE
Household garbage		


**COMPUTERS^{DB}, COMPUTER MONITORS/
KEYBOARD/MICE & OTHER PERIPHERALS^{DB},
DESKTOP PRINTERS^{DB}, DESKTOP &
PORTABLE SCANNERS/FAX MACHINES
& COPYING EQUIPMENT^{DB}**

DROP-OFF LOCATION	ADDRESS	PHONE
Best Buy	700 - 5300 No. 3 Road	604-273-7335
Future Shop	102 - 5300 No. 3 Road	604-232-9772
Ironwood Bottle & Return-It Depot	11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Ralph's on Mitchell	12011 Mitchell Road	604-325-8323
Regional Recycling	13300 Vulcan Way	604-276-8270
Computers for Schools - computers only for reuse	206 - 6741 Cariboo Road, Burnaby	604-294-6886
Free Geek Vancouver - computers only for reuse	1820 Pandora Street, Vancouver	604-879-4335
London Drugs - computers only	5971 No. 3 Road	604-448-4811
	3200 - 11666 Steveston Highway	604-448-4852

To erase data from hard drive or physical destruction, please visit return-it.ca/electronics/recycling/datasecurity/website.

For a complete list of computers, computer monitors/keyboard/mice and other peripherals, printers, scanners, fax machine and copying equipment accepted, please visit return-it.ca/electronics/ or call 604-473-2400.

**COMPACT FLUORESCENT LIGHTS (CFLs)^{DB},
FLUORESCENT TUBES - RESIDENTIAL
USE ONLY^{DB}**

No PCB ballasts

DROP-OFF LOCATION	ADDRESS	PHONE
City's Recycling Depot	5555 Lynas Lane	604-276-4010
Canadian Tire	11388 Steveston Highway	604-271-6651
Home Depot	2700 Sweden Way	604-303-7360
London Drugs	5971 No. 3 Road	604-482-4811
	3200 - 11666 Steveston Highway	604-448-4852

For a complete list of fluorescent lamps accepted, please visit productcare.org/lights or call 604-RECYCLE.

EYEGLASSES

DROP-OFF LOCATION	ADDRESS	PHONE
Canadian National Institute for the Blind	5055 Yoyce Street, Vancouver	604-431-2121

FIRE EXTINGUISHERS

DROP-OFF LOCATION	ADDRESS	PHONE
Contact Recycling Council of BC at 604-RECYCLE for more information.		

GYPSUM DRYWALL^{DB}

No other materials attached to or on drywall

DROP-OFF LOCATION	ADDRESS	PHONE
City of Vancouver Landfill *	5400 72nd Street, Delta	604-873-7000
Ecowaste Industries Ltd. *	15111 Triangle Road	604-277-1410
Fairway Disposal *	11560 Twigg Place	604-327-7100
New West Gypsum Recycling *	38 Vulcan Street, New Westminster	604-534-9925

**FLAMMABLE LIQUIDS^{DB}, PESTICIDES^{DB},
SOLVENTS^{DB}, GASOLINE^{DB}**

(Gasoline must be in approved ULC container)

DROP-OFF LOCATION	ADDRESS	PHONE
City's Recycling Depot	5555 Lynas Lane	604-276-4010

For a complete list of flammable liquids, gasoline, pesticides and solvents accepted, please visit productcare.org/BC-Paint-Program or call 604-RECYCLE.

GENERAL HAZARDOUS MATERIALS

DROP-OFF LOCATION	ADDRESS	PHONE
Hazco Environmental *	160 - 13511 Vulcan Way	604-214-7000
Newalta Corporation *	#9 - 7483 Progress Way, Delta	604-940-1220

HYPODERMIC NEEDLES

Purchase a "Sharps Container" from a pharmacy and return the container to same pharmacy when full.

Visit bd.com/ca/safety/products/injection/sharps_disposal for more information.

**LUBRICATING (USED) OIL^{DB}, OIL FILTERS^{DB},
PLASTIC OIL CONTAINERS^{DB}**

DROP-OFF LOCATION	ADDRESS	PHONE
Acurus Automotive	140 - 4280 No. 3 Road	604-273-4141
Audi of Richmond	5680 Parkwood Way	604-279-9663
Canadian Tire	3500 No. 3 Road	604-273-2939
	11388 Steveston Highway	604-271-6651
Certigard Petro-Canada	4011 Francis Road	604-277-3620
Cowell Motors Ltd - Volkswagen	13611 Smallwood Place	604-273-3922
Esso Service Station (Blundell)	7991 No. 1 Road	604-277-1105
Jaguar Land Rover of Richmond	5660 Parkwood Way	604-273-6068
Lubeworld	10991 No. 4 Road	604-951-6662
Metron Auto Service Ltd.	104 - 8077 Alexandra Road	604-270-1668
Mr. Lube	9120 Westminster Highway	604-273-5823
OK Tire Service Centre	5831 Minoru Boulevard	604-278-5171
Rainbow Auto Service	142 - 11788 River Road	604-276-2820
Richmond Acura	4211 No. 3 Road	604-278-8999
Sky Auto Services	110 - 5791 Minoru Boulevard	604-233-1828

For a complete list of lubricating oil, oil filters and plastic oil containers accepted, visit usedoilrecycling.com or call 604-RECYCLE.

DB: Disposal ban | * A fee is charged

DID YOU KNOW?

The Product Stewardship Program helps with take back of many recyclable materials and is guided by the principle that whoever designs, produces, sells or uses a product takes responsibility for minimizing that product's environmental impact. The costs for recycling

these products are covered through environmental handling fees that are charged on the sale of products and through refundable deposits on items like beverage containers.

**MATTRESSES AND BOXSPRINGS ^{DB}**

DROP-OFF LOCATION	ADDRESS	PHONE
City of Vancouver Landfill*	5400 72nd Street, Delta	604-873-7000

MILK CARTONS

DROP-OFF LOCATION	ADDRESS	PHONE
City of Vancouver Landfill*	5400 72nd Street, Delta	604-873-7000
Ironwood Bottle & Return-It Depot	11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Blundell Return-It Centre	130 - 8180 No. 2 Road	604-274-1999
Richmond Return-It Bottle Depot	135 - 8171 Westminster Highway	604-232-5555
Steveston Bottle Depot	#2 - 12320 Trites Road	604-241-9177
Regional Recycling	13300 Vulcan Way	604-276-8270

PAINT & PAINT AEROSOL CONTAINERS ^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
City's Recycling Depot	5555 Lynas Lane	604-276-4010
Rona	7111 Elmbridge Way	604-273-4606

For a complete list of paint & paint aerosol containers accepted, please visit productcare.org/BC-Paint-Program or call 604-RECYCLE.

PHARMACEUTICAL ^{DB}

All pharmacies accepted left over 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 medicationsreturn.ca/british_columbia_en.php or call 604-RECYCLE.

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

PLASTIC SCRAP AND FLOWER POTS

DROP-OFF LOCATION	ADDRESS	PHONE
Westcoast Plastic Recycling Inc	#3 - 2480 Shell Road	604-247-1664

Example of items accepted include nursery pots/trays, shrink wrap, shopping bags, bubble wrap, strapping, etc. Visit westcoastplasticrecycling.com for a complete list of acceptable materials.

PROPANE TANKS - REFILLABLE (EMPTY)

DROP-OFF LOCATION	ADDRESS	PHONE
City of Vancouver Landfill (Maximum 1 unit)	5400 72nd Street, Delta	604-873-7000
Husky Autogas	9060 Bridgeport Road	604-278-0011
Steves Husky Service *	8011 No. 3 Road	604-270-3822

PROPANE TANKS (SMALL) - DISPOSABLE (EMPTY)

DROP-OFF LOCATION	ADDRESS	PHONE
City of Vancouver Landfill (Maximum 2 units)	5400 72nd Street, Delta	604-873-7000

STYROFOAM - MOLDED PACKAGING

DROP-OFF LOCATION	ADDRESS	PHONE
Mansonville Plastics (BC) Ltd	19402 56 Avenue, Surrey	604-534-8626

London Drugs customers can return the moulded packaging Styrofoam from their appliance, computer and accessories products to any London Drugs store with proof of purchase.

STYROFOAM CHIPS (PEANUTS)

DROP-OFF LOCATION	ADDRESS	PHONE
The UPS Store	185 - 9040 Blundell Road	604-231-9643
	186 - 8120 No. 2 Road	604-304-0077
Packaging Depot	6360 Kingsway, Burnaby	604-451-1206
	5524 Cambie Street, Vancouver	604-325-9966

TELUS EQUIPMENT (RENTAL OR RETAIL) ^{DB}

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 ^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
Andrew Sheret Ltd.	4500 Vanguard Road	604-278-3766

For a complete list of thermostats accepted, visit switchthestat.ca/eng/index.php or call 1-416-922-2448.

DB: Disposal ban | * A fee is charged

Working together with the City of Richmond, producers, retailers and residents can divert hazardous waste and other special disposal items from the landfill. Producers and retailers who support product stewardship and related take-back programs assist with recycling and proper disposal, and residents can use these programs to help turn waste into resources.



TIRES^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
A & D Workshop Inc	180 - 12871 Clarke Place	604-351-7696
Acurus Automotive Ltd.	140 - 4280 No. 3 Road	604-273-4141
Canadian Tire	3500 No. 3 Road	604-273-2939
	11388 Steveston Highway	604-271-6651
Chariot Tire	404 - 4940 No. 6 Road	604-276-2966
Costco Wholesale	9151 Bridgeport Road	604-270-3647
Country Tire	11831 Machrina Way	604-270-3333
Express Lube & Tune Centre	2840 No. 3 Road	604-278-1018
Fountain Tire	8971 Bridgeport Road	604-273-3751
Kal Tire	6551 No. 3 Road	604-207-1203
	2633 No. 5 Road	604-278-9181
Metro Tires Ltd.	12311 Mitchell Road	604-783-4435
Midway Tirecraft	170 - 2251 No. 5 Road	604-276-8558
OK Tire Store	5831 Minoru Blvd	604-278-5171
P & P Tire and Auto Service	150 - 8531 Captstan Way	604-278-3777
Redline Automotive Ltd.	#1 - 11711 No. 5 Road	604-277-4269
Richmond Country Tire	11880 Machrina Way	604-241-5555
Roadrunners Dial A Tire Ltd.	11386 Railway Avenue	604-274-8473
Shortstop Auto Service	11251 Bridgeport Road	604-244-0464
Signature Mazda	13800 Smallwood Place	604-278-3185
Vancouver Landfill (Passenger/light truck, with/ without rims limit of 10)	5400 72nd Street, Delta	604-873-7000

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

For a complete list of tires accepted, visit tirestewardshipbc.ca or call 1-866-759-0488.

TIRES AND TUBES - BICYCLE^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
Ace Cycles	3155 West Broadway, Vancouver	604-738-9818
Bike Doctor	137 West Broadway, Vancouver	604-873-2453
Cap's Bicycle Shop	434 East Columbia Street, New Westminster	604-524-3611
Dream Cycle	1010 Commercial Drive, Vancouver	604-253-3737
Kissing Crows Cyclery	4562 Main Street, Vancouver	604-872-5477
La Bicicletta Pro Shop	233 West Broadway, Vancouver	604-872-2424

For more information on the program, visit tirestewardshipbc.ca/bike.php or call 1-866-759-0488

NON HAZARDOUS MISCELLANEOUS ITEMS

Vancouver Landfill *	5400 72nd Street, Delta	604-873-7000
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For a list of items accepted and not accepted at Ecowaste, please visit ecowaste.com or call 604-277-1410.

DB: Disposal ban | * A fee is charged

ACKNOWLEDGEMENTS

The information and data for this report included input from a number of organizations working in solid waste management and recycling in the region. The City of Richmond thanks the following organizations for generously providing assistance, information, photographs, and data to support the development of this report:

Metro Vancouver
City of Vancouver
Encorp Pacific (Canada)
Tire Stewardship BC
BC Used Oil Management Association
Product Care Association
Recycling Council of British Columbia

CITY OF RICHMOND

Environmental Programs Information Line:
604-276-4010

www.richmond.ca/recycle

Printed on Arbor Plus Dull text and cover
which contains 30% post-consumer
recycled fibre and is tri-certified to FSC,
SFI and PEFC Standards.