



To:	Public Works and Transportation Committee	Date:	June 24, 2013
From:	Tom Stewart, ASCT. Director, Public Works Operations	File:	10-6370-01/2013-Vol 01
Re:	2012 Update: Recycling and Solid Waste Management – Proposed Increased Service Levels		

Staff Recommendation

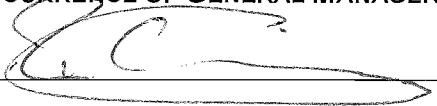


1. That the annual *Report 2012: Recycling and Solid Waste Management – Expanding Services to Achieve Our Goals* be endorsed and made available to the community through the City's website and other communication medium.
2. That dry-cell batteries (up to 5 kgs) and cell phones be added to the scope of materials accepted at the City's Recycling Depot and that the Chief Administrator Officer and General Manager, Engineering and Public Works be authorized to negotiate and execute an agreement with Call2Recycle Canada, Inc. on the terms and conditions set out in the report from the Director, Public Works Operations dated June 24, 2013, including specifically that the City grant an indemnity to Call2Recycle Canada, Inc. for any losses they may suffer in connection with the agreement.
3. That used books be added to the scope of materials accepted at the City's Recycling Depot and that the Chief Administrator Officer and General Manager, Engineering and Public Works be authorized to negotiate and execute an agreement with Discover Books Ltd. on the terms and conditions set out in the report from the Director, Public Works Operations dated June 24, 2013.
4. That polystyrene foam (Styrofoam) be added to the scope of materials accepted at the City's Recycling Depot.

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

Att. 1

June 24, 2013

- 2 -

REPORT CONCURRENCE			
ROUTED TO: Law		CONCURRENCE <input checked="checked" type="checkbox"/>	CONCURRENCE OF GENERAL MANAGER 
REVIEWED BY DIRECTORS	INITIALS: 	REVIEWED BY CAO	INITIALS: 

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). The City offers a number of waste reduction and recycling programs to the community in working toward these targets. To track progress on these programs and report back to the community, the annual *Report 2012: Recycling and Solid Waste Management – Expanding Services to Achieve Our Goals* is presented (**Attachment 1**). This report highlights Richmond's comprehensive programs and results achieved in 2012, as well as provides insights into upcoming initiatives.

Further, the City is continually reviewing opportunities to expand our services through new initiatives such as product stewardship programs and through growth in recycling commodity markets. To that end, this report outlines items for Council's consideration which could be added to the scope of materials accepted at the City Recycling Depot.

Analysis

Report 2012 Overview

As highlighted in *Report 2012* Chapters 1 – 3, key recycling and solid waste management actions centered on establishing foundational elements for expanding organics recycling services (i.e. the Green Cart program), including to multi-family town home residences, in 2013. Expanding the scope of materials accepted at the Recycling Depot and enhancing recycling in public spaces and at public events was another focus area. Continued community engagement to promote recycling through workshops, displays, theatrical productions at elementary schools, the REaDY Summit, and youth involvement via the Green Ambassador volunteer program was another important aspect to the activities undertaken during 2012.

Key results included 61% waste diversion from single-family residences with over 9,300 tonnes of traditional recyclables collected through the Blue Box and Blue Cart programs and over 15,000 tonnes of yard trimmings and food scraps collected through curbside and drop off programs. These and other results are described in more detail in *Report 2012*.

An overview of planned and future considerations, such as continued expansion of organics service to high-rise, multi-family residences, expanded recycling of demolition waste and options to encourage increased recycling through disincentives on garbage disposal (such as transitioning to bi-weekly collection service and/or pay-as-you-throw pricing incentives), is discussed in Chapter 4 – Towards Our Goals.

Chapter 5 is included as a handy reference guide for residents and outlines specific locations and details on where and how to dispose of a wide variety of household items. It also includes detailed information on the wide variety of materials accepted in the City's various recycling programs.

As part of sharing the results of our progress in 2012, staff recommends that the annual *Report 2012: Recycling and Solid Waste Management – Expanding Services to Achieve Our Goals* be posted on the City's website and made available through various communications tools including social media channels and as part of other community outreach initiatives.

Expanded Services at Recycling Depot

As part of the ongoing review in making recycling services more convenient and accessible for residents, the City regularly evaluates new stewardship programs and monitors growth in recycling commodity markets with a view toward expanding the range of materials accepted.

In relation to the Recycling Depot, the City has been in contact with the product steward representative for used consumer batteries and cell phones, with an offer for the City to collect these materials where compensation is provided by the steward. In addition, Discover Books has requested that the City consider installing a used book container at the Recycling Depot. In each case, an agreement would be entered into and the key terms are highlighted below. In addition to these items, staff are also recommending that polystyrene foam (i.e. Styrofoam) also be added as a material accepted at the Recycling Depot on an ongoing basis. These materials can be handled/managed within existing staff resources allocated to the Recycling Depot.

Consumer Batteries and Cell Phones – are captured under Schedule 3, Electronic and Electrical Product Category, of the BC Environmental Management Act - Recycling Regulation. Materials collected under this program include dry-cell batteries weighing less than 5 kg each (including nickel cadmium, nickel metal hydride, lithium ion, nickel zinc, small sealed lead, single-use batteries – like alkaline) and all types of cell phones with or without the cell phone battery (but not cell phone chargers). Batteries and cell phones are recycled and used to create other types of materials, including new batteries and stainless steel products.

Call2Recycle Canada, Inc. is an approved steward for this program and has offered the City to act as a collection site. Key details of the agreement include:

- The City accepts the materials at no charge from consumers in accordance with required collection standards and guidelines. The City invoices Call2Recycle Canada, Inc. (on a quarterly basis) a material handling fee of \$0.38 per kilogram of materials received (approximately \$100/drum) plus shipping costs. Materials are shipped to Toxco Waste Management in Trail, B.C.;
- The City is responsible for costs associated with managing contaminants above 5% by weight;
- The agreement term is one year, with automatic renewals in successive one year terms unless terminated by either party. The agreement may be terminated upon 90 days written notice by either party, or in 60 days in cases where any breaches to the agreement have not been remedied by either party;
- The City must maintain minimum insurance coverages.

- The City has title to the collected materials until they are shipped to Call2Recycle Canada Inc.
- Each party grants the other party an indemnity from liability associated with negligent acts/omissions or wilful misconduct in the performance of duties under the agreement. These indemnifications survive the expiration, termination or cancellation of the agreement.

Recommendation: It is recommended that dry-cell batteries and cell phones be added to the scope of materials accepted at the City's Recycling Depot and that the City enter into an agreement with Call2Recycle Canada, Inc. in respect to these materials. The effective date will coincide with agreement execution and timeframe requirements for operational site set up, i.e. expected within two to three months of Council approval.

Book Bin – Discover Books Ltd. has requested to place one of their bins at the Recycling Depot to collect used books. Discover Books Ltd. works with schools, libraries and charity organizations to promote various reading programs. They will sell and reuse books, and recycle those that are in poor condition or are damaged. In making the service available at the Recycling Depot, this would allow the City to enhance convenient recycling services for residents, contribute toward increased waste diversion, and promote education through reuse and recycling of books.

To accommodate this service, the City can enter into a partnering agreement with Discover Books Ltd. which would allow placement of the bin on City land at no cost to Discover Books Ltd. In accordance with the *Community Charter*, this partnering arrangement must first be advertised before the City is able to allow Discover Books Ltd. to use City land (i.e. Recycling Depot) for free. Key details of the agreement include:

- Discover Books Ltd. provides the collection container/book bin, transports and empties the contents on a weekly basis, cleans the area around the book bin and maintains the book bin in a presentable manner (free of graffiti or rust).
- Discover Books Ltd. takes responsibility for handling/management of all books and provides records and statistics to the City including items such as tonnage, books re-used, recycled or disposed, and the names of approved organizations receiving books.
- No fees will be paid by Discover Books Ltd. to the City for the placement of bins on City land. Similarly, no fees will be paid by the City for the service provided by Discover Books Ltd.
- Discover Books Ltd. grants indemnity to the City of Richmond for its errors, omissions or acts and maintains insurance satisfactory to the City and naming the City as an additional insured.
- Agreement term is one year, with automatic renewals unless terminated by either party. The agreement can be terminated upon 10 days prior written notice by either party.

Recommendation: It is recommended that used books be added to the scope of materials accepted at the City's Recycling Depot and that the City enter into a partnering agreement with Discover Books Ltd. The effective date will coincide with agreement execution and timeframe requirements for operational site set up, i.e. expected within two to three months of Council approval.

Polystyrene Foam (Styrofoam) – The City has, for the last several years, offered temporary (approximately one month duration) collection of polystyrene foam (Styrofoam) to coincide with the Christmas season. Until this time, collection has been limited due to the lack of sufficient, suitable recycling markets for this material. Given improvements in the local market capacity, staff is recommending that polystyrene foam be added as an item accepted on an on-going basis at the City's Recycling Depot.

Items that would be accepted under this program include: white Styrofoam blocks and bagged packing peanuts, electronics packing (i.e. foam sheets), foam food containers (cleaned clam shells, meat trays, plates, egg cartons). All Styrofoam must be clean and free of contaminants. Expanding foam, coloured foam, foam insulation, painted foam, etc. are not accepted. The Styrofoam is repurposed into consumer items such as picture frames, crown mouldings, paving stones and parking lot curbing.

A large (40–50 cubic yard) bin would be installed at the Recycling Depot for residents to deposit foam materials. Acceptable quantities would be limited to coincide with operational capacity issues (approximately one cubic yard per person per day). The bin would be transported by a contracted service provider to suitable recycler/s in the region. Total costs vary based on volumes received for bin transportation and recycling charges. Transportation charges are approximately \$175/per pick up/drop off. Recycling charges are approximately \$100 per container. Based on an estimate of one container emptied twice weekly, total annual costs would be approximately \$28,600, plus applicable taxes. Costs in 2013 are estimated at approximately \$9,500 based on a September implementation timeline, and will be accommodated with the 2013 Sanitation and Recycling Utility budget. Appropriate amounts will be included in the 2014 and future budgets to coincide with service level requirements.

Recommendation: It is recommended that polystyrene foam be added to the scope of materials accepted at the City's Recycling Depot. The effective date will coincide with requirements for operational site set up, i.e. expected in September, 2013.

New and Future Planned Initiatives

Two new key initiatives were introduced in 2013 – the Green Cart and Large Item Pick Up programs – which both launched on June 3rd. Early indications are that the Green Cart program is making significant progress toward our 70% waste diversion goal. A significant number of residents are also taking advantage of the Large Item Pick Up program, an indication of how well received this new level of service has been. Further details will be provided under a separate report once further data and trending is better established.

In addition, the City is continuously reviewing options for new programs and initiatives to maximize diversion as we strive toward 70% waste diversion by 2015. As outlined in *Report*

2012 Chapter 4 (pages 38 and 39), the City is looking at opportunities to leverage and/or modify existing programs as well as consider new initiatives to drive further reduction. Key highlights include:

- Recycling Depot service expansion to an Eco Centre model, where maximum convenience is provided to the public by being able to deliver a much broader range of materials to this conveniently located facility, i.e. 'one stop dropping'.
- Expansion of organics collection to multi-family and, potentially, commercial properties. A pilot program based on a centralized collection model will be proposed to help formulate options for full scale implementation of organics collection from high-rise, multi-family dwellings.
- Garbage collection service level review where provision of carts for garbage collection and a review of service levels will be evaluated. This review will include consideration of bi-weekly garbage collection and/or pay-as-you-throw financial incentives as tools to drive further reduction in garbage disposal, while also serving to promote increased recycling and waste diversion.
- Review opportunities to expand the range of materials collected in residential recycling programs as a result of the new stewardship program for packaging and printed paper (i.e. Multi-Material B.C.)

Information on these programs will be presented to Council for consideration as they are developed.

Financial Impact

The addition of consumer batteries and cell phones will result in revenues to the City of \$0.38 per kg or approximately \$100 per drum. Total revenues will depend on quantities of material received, but are estimated to be less than \$5,000 annually.


Costs associated with accepting polystyrene foam are based on \$175 per container service (dump and return) and \$100 per load. Total annual costs will vary based on the volume of material received, but are estimated to be approximately \$30,000. Costs in 2013, based on a September, 2013 start-up are estimated at \$9,500 and will be accommodated within the existing Sanitation and Recycling Utility Budget. Required allocations will be included in the 2014 and future Sanitation and Recycling Utility budget submissions to reflect total annual costs.

Conclusion

The City offers a wide range of recycling and solid waste management services to the community as part of responsible environmental stewardship and contributing toward regional waste diversion targets. Program performance and the year's highlights are captured in *Report 2012: Recycling and Solid Waste Management – Expanding Services to Achieve Our Goals*. *Report 2012* also provides one-stop information on program details and drop off locations for convenient disposal of many common household items. To promote the results of our residents'

efforts in recycling and waste diversion, it is recommended that *Report 2012* be made available to the community through the City's website and other communications medium.

To provide further opportunities as part of expanding our recycling efforts, it is recommended that additional materials be added to the scope of materials accepted at the City's Recycling Depot including consumer batteries and cell phones; used books and polystyrene foam (Styrofoam).

A handwritten signature in black ink, appearing to read 'S. Bycraft', with a long horizontal flourish extending to the right.

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



EXPANDING SERVICES TO ACHIEVE OUR GOALS

Let's trim our waste!





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2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

ANNUAL OUTLOOK

EXPANDED AND ENHANCED SERVICES

TOGETHER, WE'RE MAKING CHANGE HAPPEN

The City's proactive approach to deliver new and enhanced services makes it easy and convenient to recycle in Richmond.

As a member municipality in the Metro Vancouver region, the City of Richmond is committed to actions in the regional *Integrated Solid Waste and Resource Management Plan (ISWRMP)* concerning waste reduction, reuse and recycling. The ISWRMP contains a number of strategies designed to meet regional waste diversion goals of 70% by 2015, aspiring to 80% diversion by 2020. These include garbage disposal bans on many materials that can be recycled, such as yard trimmings, paper products, tin and aluminium cans and rigid plastic containers with codes ♻️♻️♻️♻️. To help residents comply with these bans, the City is continually reviewing and expanding its services to ensure residents have convenient access to recycling programs. During 2012, the City spent considerable effort evaluating strategies to help residents comply with the upcoming 2015 disposal ban on food scraps/organics. To that end, City Council approved expansion of food scraps/organics collection service to more than 11,000 townhome residential units to commence in June 2013. In addition, Council approved provision of Green Carts to residents in single-family homes to promote greater recycling of food scraps in secure containers. The new Green Cart program is an enhanced service with customized cart sizes, no weight limits thanks to automated lifting devices on collection trucks, wheels for easy manoeuvring of carts, and attached lids. Collection of materials from Green Carts starts in June 2013. In 2013, City Council will consider options for providing food scraps/organics collection service for residents in multi-level multi-family developments, as well as incentives for yard trimmings drop-off.

A review of opportunities for increased recycling, waste diversion and litter prevention contributed to the development of the new Large Item Pick Up program, which was approved by Council in 2012 and starts in June 2013. This new curbside collection service provides residents in single-family homes and townhomes who receive City garbage collection and/or Blue Box service with curbside collection of up to four large household items each year.

The City also expanded the materials accepted at the Recycling Depot, located at 5555 Lynas Lane to include exercise and hobby machines, light bulbs, sewing/knitting and textile machines and power tools. This helps our residents have greater access to one-stop 'dropping' for disposing of hard-to-recycle items. The City continues to look at opportunities to accept other materials at its Recycling Depot. Items being considered in 2013 include batteries, Styrofoam and books.

To increase recycling while on the go, the City's successful Go!Recycle public spaces recycling program demonstrated that conveniently placed recycling bins in public spaces can help to decrease garbage by 35%. Go!Recycle bins have been rolled out to City facilities to increase access to recycling and are in Steveston Village and Hugh Boyd Park. In 2013, these recycling containers will be expanded to new sites in various streetscapes, parks, trails, and other areas as existing containers require replacement.

CITY OF RICHMOND

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

As part of continuing to promote recycling in public spaces, in 2012 the City worked with its student Green Ambassadors to set up recycling at 16 different events. Green Ambassador volunteers contributed nearly 4,000 hours to help support recycling at these events. The City Green Ambassador program has grown to 200 (up from 128 in 2011). This important community engagement program helps to promote environmental stewardship with youth by involving them in grassroots recycling efforts. In 2013, the City is working to launch an "Event Recycling Guide" which will provide waste/recycling guidelines to event organizers, as well as make containers available for loaning out to promote recycling at public events as part of public spaces recycling.

Through the City's many waste reduction, re-use and recycling programs, residents in single-family homes are now diverting 61% of household waste from landfills. With increased emphasis on food scraps recycling and through its continued partnerships with producers, the City is expecting recycling rates to increase even higher, and in 2013, the City will be evaluating opportunities to expand the range of materials that can be collected through the Blue Box and Blue Cart recycling programs.

In summary, in 2012 Richmond moved forward with significant improvements to its recycling and waste management programs. These programs are integral to achieving the City's vision for sustainability and its key goal to be a "Recycling Smart City." Over the past 20 years, the City has seen tremendous success with its waste diversion through recycling and sustainable waste management. Richmond will continue to capitalize on its successful programs by exploring new options for expanding programs to reduce and recycle, and by leveraging opportunities through new partnerships and outreach in the community. The City's commitment to delivering excellence in recycling services is the foundation for Richmond and its residents to achieve the City's goal to divert 70% of its waste from disposal by 2015.

**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.

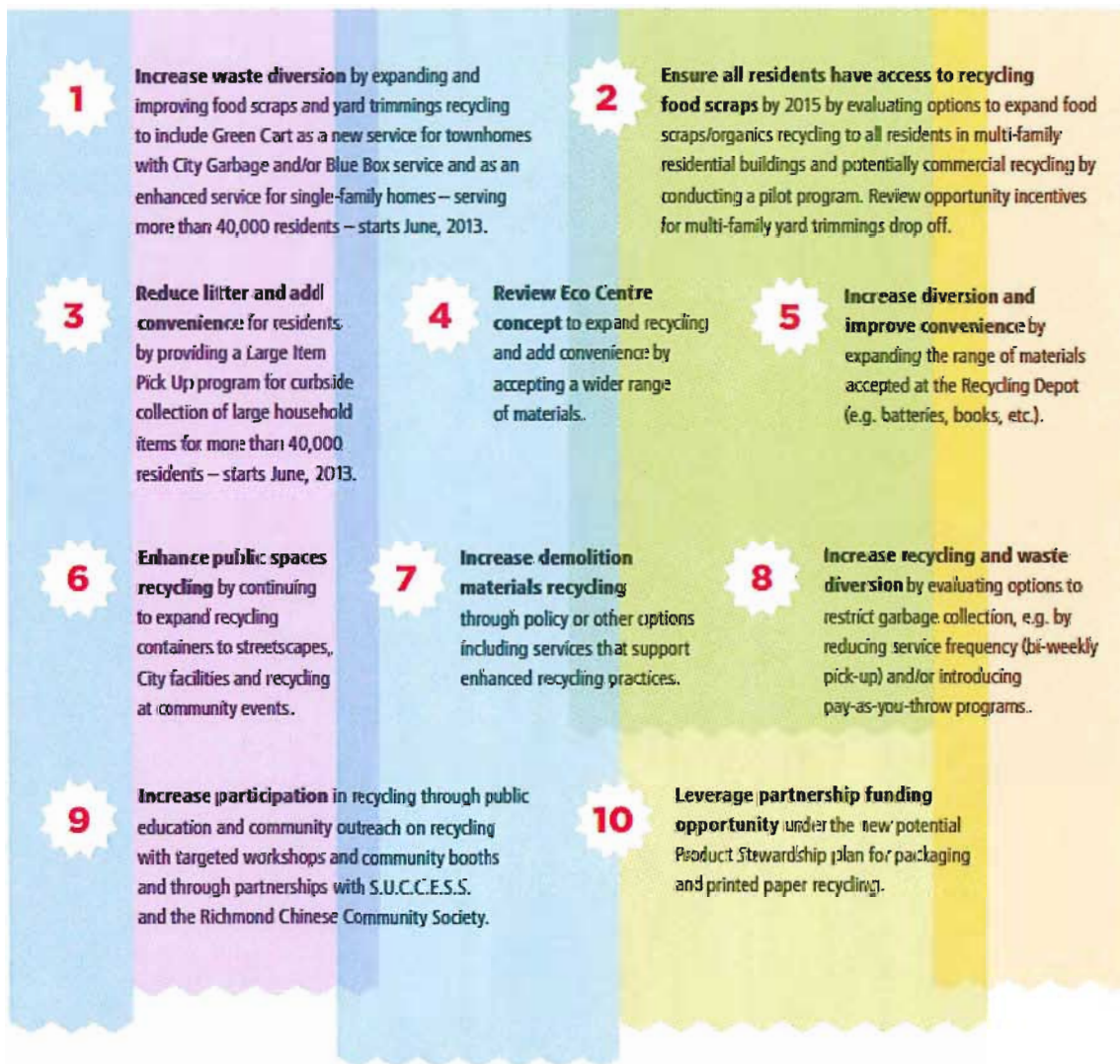
3 RECYCLE

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.

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

OUR GOALS

Richmond's overall goals are to be a Recycling Smart City and divert 70% of its waste from disposal by 2015. To support these goals, Richmond is focused on providing convenient recycling programs and services and working in partnership with the community to increase recycling and achieve waste reduction targets. As part of continuous improvement, Richmond has established objectives to build on its success in 2013, and details on the next steps to achieve these goals are summarized in Towards our Goals on page 35.



Attachment 1 (Cont'd)

CITY OF RICHMOND

OUR TOP ACCOMPLISHMENTS IN 2012

The following are some of the key accomplishments in 2012:

GREEN CART PROGRAM EXPANSION

Completed assessment of Green Cart Pilot Program, which resulted in excellent insights and information used to create expanded Green Cart program recommendations. Project successes included diverting 22% of food scraps and organics during the pilot period – excellent waste diversion! This led to Council approval to expand service to approximately 11,000 townhomes and enhance service to single-family homes by providing a Green Cart and kitchen container in 2013.

LITTER MANAGEMENT

Serviced nearly 4,500 containers and approximately 1,687 acres of parkland and City spaces each week, with services to high-profile areas being provided seven days per week.

LARGE ITEM PICK UP PROGRAM

Obtained Council approval to introduce a new Large Item Pick Up program in 2013 to provide curbside collection of large household items for more than 40,000 residents.

COMMUNICATION

Implemented new Recycling Communications campaign "Let's trim our waste!" to support the City's sustainability target to be a "Recycling Smart City" and achieve the City's goal to divert 70% of our waste by 2015.

RECYCLING DEPOT COLLECTION

Expanded collection service at the City's Recycling Depot to accept exercise and hobby machines (e.g. treadmills, elliptical/cross trainers, cycling machines), lights (e.g. halogen and incandescent, light emitting diode (LED), high intensity discharge (HID) and other mercury containing lamps, sewing, knitting and textile machines, and power tools (e.g. grinders, jigsaws, trimmers, heat guns, etc.).

CUSTOMER SERVICE

Responded to more than 7,100 service requests related to garbage and recycling via the Environmental Programs Information Line. Sold more than 196 compost bins, 9,700 Garbage Tags and 407 Garbage Disposal Vouchers out of the City's Recycling Depot and other City facilities.

GREEN AMBASSADORS

Engaged 200 high school students as Green Ambassadors who volunteered more than 3,690 hours, including assistance at 16 events.

COMMUNITY OUTREACH

Enhanced Public Education and Community Outreach with focused programming on recycling, composting and waste reduction workshops and community event booths.

PUBLIC SPACES RECYCLING

Expanded Go!Recycle public spaces recycling program following review and assessment of pilot program. Installed 68 containers in 13 City facilities. Pilot program successes included increased recycling and reduced overall waste generation, with a 41% decrease in recyclable containers in the garbage at Steveston Village and a 39% reduction in overall waste in the pilot areas. The successful "Go!Recycle" branding will be a key identifier going forward.

STUDENT ENGAGEMENT

Collaborated with the Richmond School Board and the David Suzuki Foundation to host the City's first annual Richmond Earth Day Youth Summit (REaDY Summit) to increase awareness on environmental sustainability among youth. Engaged students and staff in "My School Sparkles" contest to address littering, vandalism, and graffiti and promote opportunities to keep the community sparkling clean, with awards going to Bridge and McNeely elementary schools.



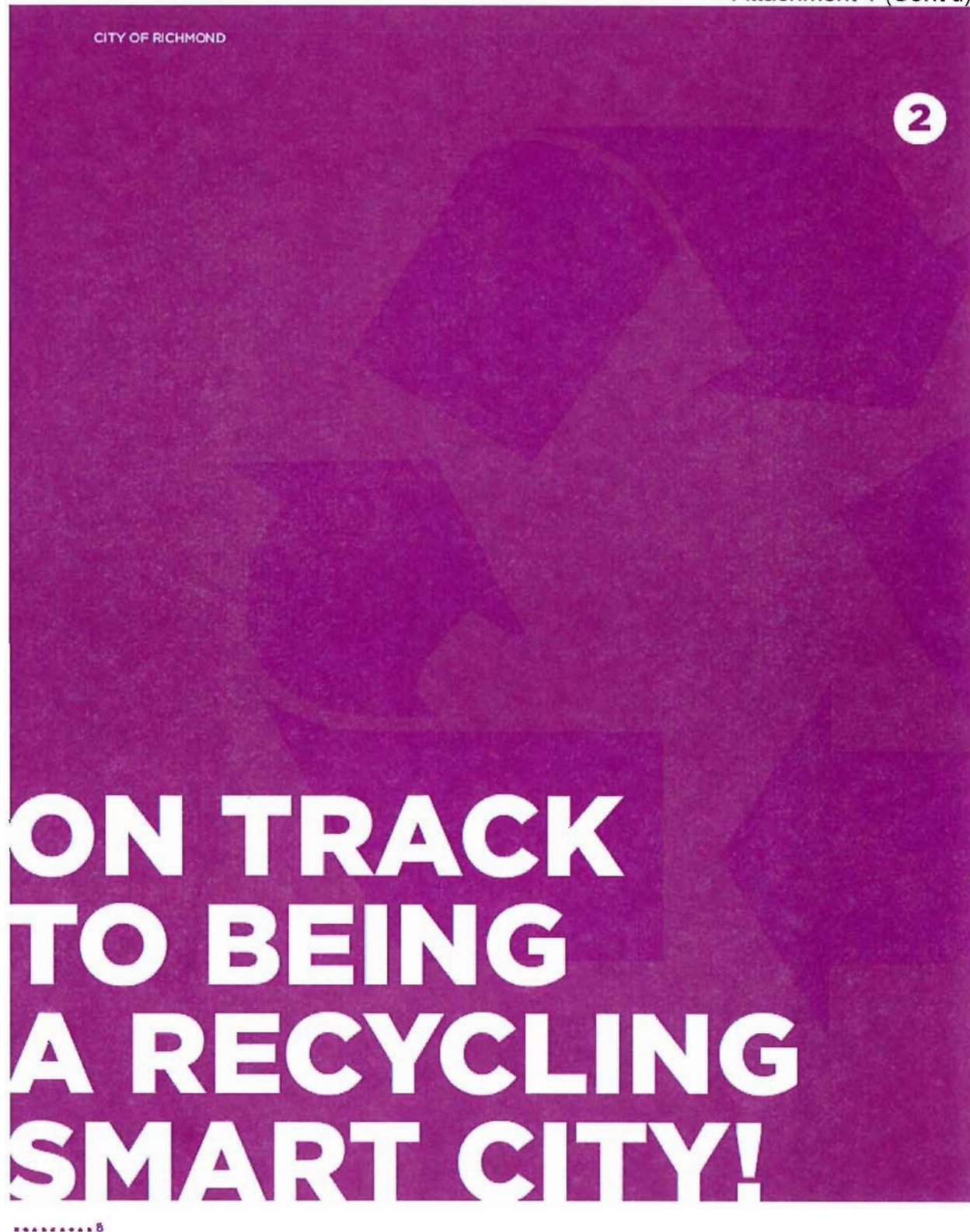
THANK YOU RICHMOND RESIDENTS

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

Richmond continues to move toward its targets for recycling and waste diversion thanks to the recycling done by residents. Residents in single-family homes have demonstrated tremendous leadership in recycling by maximizing their Blue Box and Green Can recycling services, and their efforts are noted in the 61% waste diversion achieved in 2012.

Richmond residents also contribute directly to the improvement and expansion of services by participating in pilot projects and sharing input on services in the community. In 2012, special thanks go to the residents who participated in the Green Cart Pilot Project and to residents who shared input on Green Cans. We learned some important details about food scraps recycling requirements during the pilot program and from residents who use Green Can. In response we developed a new Green Cart program tailored to residents that was approved by Council to start in June 2013. This includes custom cart sizes, attached lids, wheels and semi-automated collection to eliminate weight limits and improve manoeuvrability, and a complimentary kitchen container for convenient transfer of food scraps to the Green Cart.

We value and appreciate our residents as our primary partner in achieving our goal to be a Recycling Smart City with 70% of our waste diverted from the landfill. Thank you for recycling, for reducing waste and for sharing ideas and input for continuous improvement.



PROGRAMS AND SERVICES

EXPANDING SERVICES TO MAKE RECYCLING EASY AND CONVENIENT

Richmond residents have consistently demonstrated a commitment to recycling and have successfully diverted more than half of their waste. Richmond is expanding the opportunities for residents to recycle by creating new and enhanced programs for recycling at home and when on the go in the community. As new programs become available, residents are encouraged to expand their personal recycling to include food scraps and large household items. Residents can also drop off a growing list of recyclable items at the City's Recycling Depot and other drop-off facilities.

Working in partnership with residents, product stewardship groups and businesses is essential to long-term success in sustainable waste management. By maximizing use of recycling services, Richmond residents can divert 70% of the community's waste from the landfill by 2015.



Residents in single-family homes are continuing to improve their recycling and are now diverting approximately 61% of their waste.

Attachment 1 (Cont'd)



RICHMOND RECYCLING AND WASTE MANAGEMENT

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

BLUE BOX

Weekly curbside collection for recycling paper and newsprint, glass, rigid plastic containers coded ♻️♻️♻️♻️, and tin and aluminium containers. This program is provided to more than 40,200 residential units in single-family homes and townhomes. For details on this program, see page 42.

BLUE CART

Weekly recycling collection for paper and newsprint, glass, rigid plastic containers coded ♻️♻️♻️♻️, and tin and aluminium containers. This program is provided to more than 28,100 multi-family units. For details on this program, see page 43.

GREEN CAN / GREEN CART*

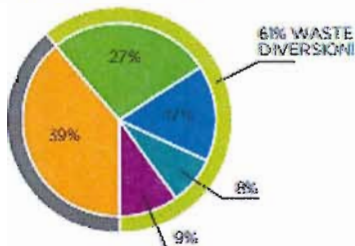
Curbside collection for recycling foods scraps and yard trimmings. These programs are provided to residents in single-family homes and some townhomes. For details on this program, see page 44.

*New and enhanced Green Cart program to launch in June 2013.

RECYCLING DEPOT

Drop-off service for products ranging from yard trimmings and household items, to hazardous materials and take-back program products. This service is available to all residents and in limited quantities for commercial operators. The Depot also sells compost bins, rain barrels, Garbage Tags, and Garbage Disposal Vouchers for use at the Vancouver Landfill. For details on this program, see page 48.

Attachment 1 (Cont'd)

**SINGLE-FAMILY RECYCLING**

- FOOD SCRAPS / YARD TRIMMINGS (10,548.67 TONNES)
- BLUE BOX (5,322.91 TONNES)
- RECYCLING DEPOT (3,142.95 TONNES)
- HOME COMPOSTING & YARD TRIMMINGS DROP OFF (3,616.25 TONNES)
- GARBAGE (15,059.83 TONNES)

Residents in single-family homes recycled or reduced nearly 24,000 tonnes in 2012, or nearly 61% of total estimated waste generated through a number of recycling and waste reduction opportunities, including curbside and Recycling Depot collection, as well as composting programs.

GO! RECYCLE PUBLIC SPACES AND EVENT RECYCLING

Recycling bins in the community make it easy to recycle on the go, such as in parks, at community centres, in the Steveston business district and at the Canada Line stations and Richmond central bus stop.

COMPOSTING

Support for residential composting through the sale of compost bins, a composting garden and related workshops. These services are available to all residents. For more information visit www.richmond.ca/recycle.

CURBSIDE GARBAGE COLLECTION

Curbside collection of garbage, not including banned items such as hazardous waste and materials that can be recycled. This service is available to residents in single-family homes and some townhomes. *New Large Item Pick Up program for curbside collection of up to four large household items to launch in June 2013.

EXTRA GARBAGE DISPOSAL

Garbage disposal tags and vouchers for the Vancouver Landfill provide options for residents when they need to dispose of additional garbage or large items.

COMMUNITY AND SCHOOL ENGAGEMENT

Through partnerships with students, teachers and the School District, Richmond sponsors educational shows, awareness programs and volunteer opportunities to increase understanding of recycling and the benefits of reducing waste.

DID YOU KNOW?

Plastic takes one million years to break down in a landfill, whereas recycled plastic can be used to make bottles, clothing, carpet, picnic tables, drainage pipes, bags, trash cans, paneling flower pots and pallets.



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.

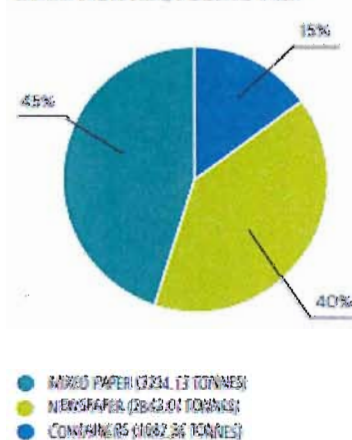
BLUE BOX RECYCLING PROGRAM

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 (♻️♻️♻️). More than 40,200 residential units are serviced with weekly collection under this program.

In 2012, more than 7,100 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 is generally located in the garbage enclosure or other convenient location. This service is currently available to over 28,100 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 2012, nearly 2,200 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.



Attachment 1 (Cont'd)

CITY OF RICHMOND



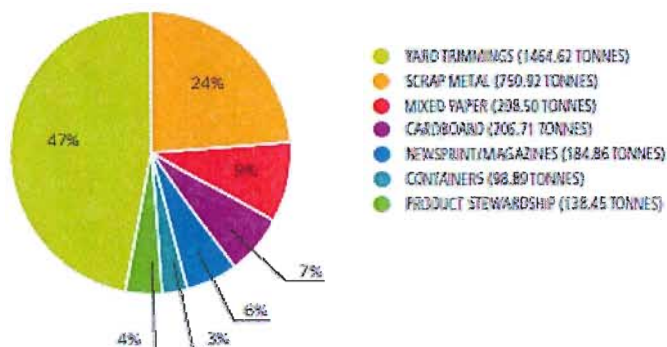
RECYCLING DEPOT PROGRAM

The Recycling Depot is located at 5555 Lynas Lane and is open from 9:00 a.m. – 6:15 p.m., Wednesday to Sunday for drop off of a broad range of materials. The Depot also sells compost bins, rain barrels, Garbage Tags and Garbage Disposal Vouchers. The Recycling Depot is a Product Stewardship (Take Back) collection site for small appliances, paints, solvents, flammable liquids, pesticides and fluorescent lamps.

RECYCLING DEPOT SERVICES

This facility accepts a wide range of materials including cardboard, yard and garden trimmings, mixed paper, newspapers and now also accepts lighting fixtures, fluorescent lights and cooking oil. The facility also accepts large appliances (e.g. fridges, stoves, washing machines), metal items (e.g. bike frames, barbecues, lawn mowers), glass bottles, jars, tin and aluminium cans, paints, pesticides and solvents. For a detailed list of items see pages 48 - 50. 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.

DEPOT RECYCLING: BREAKDOWN OF MATERIALS COLLECTED IN 2012



TOTAL TONNAGE = 3,142.95

In 2012, 3,142.95 tonnes of recyclable materials were collected at the Recycling Depot. This includes yard trimmings, scrap metal, mixed paper products and rigid plastic containers. For more information on drop-off programs for yard trimmings, see page 17.

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

DEPOT RECYCLING: MATERIALS AND AMOUNTS COLLECTED THROUGH TAKE BACK PROGRAMS



PAINT
239,328 EQUIVALENT LITRES



AEROSOLS
2,275 EQUIVALENT LITRES



SOLVENTS & PESTICIDES
11,232 EQUIVALENT LITRES



SMALL APPLIANCES
(STARTED OCTOBER 2011)
45.67 TONNES



CFLS
65 BOXES



4' TUBES
288 BOXES
8' TUBES
52 BOXES

FOR SALE AT THE RECYCLING DEPOT

Residents can purchase the following items from the Depot:

- Compost bins - \$25 each
- Rain barrels - \$20 each and \$16 water diverter device
- Extra Garbage Tags - \$2 each
- Garbage Disposal Vouchers - \$5 each for Richmond residents and value is \$20 at the Vancouver Landfill

NEW IN 2012

In 2012, Richmond expanded its free drop-off program to include:

- Exercise and hobby machines (e.g. treadmills, cycling machines);
- Lights and lighting fixtures (e.g. halogen and incandescent, light emitting diode (LED), high intensity discharge (HID) and other mercury containing lamps);
- Sewing, knitting and textile machines; and
- Power tools (e.g. grinders, jigsaws, trimmers, heat guns, etc)

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



TIP FOR RESIDENTS

fats, oils and grease should never be disposed down sinks, drains or garburators as the material hardens and builds up on the inside of sewage lines, causing blockages. This can lead to breaks and sewage spills or overflows. Recycle food scraps and grease in your Green Car/ Cart, and take used cooking oils and liquid fats in a sealed container to the Recycling Depot (5555 Lynas Lane, open Wednesday to Sunday from 9:00 a.m. to 6:15 p.m.) for free disposal.

Attachment 1 (Cont'd)

CITY OF RICHMOND



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 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, more than 10,470 compost bins have been distributed, resulting in annual waste reduction of more than 3,600 tonnes.

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

COMPOST DEMONSTRATION GARDEN

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 is supplemented by workshops. Residents are encouraged to take a self-guided tour to learn about different types of compost bins and the benefits of composting.



TIP FOR RESIDENTS

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

Richmond residents are generating their own compost to enrich their garden soil. With over 10,470 bins sold, home composting helps to divert more than 3,600 tonnes of organic materials from the garbage disposal system each year.

YARD TRIMMINGS DROP-OFF PROGRAMS

ECOWASTE 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 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 on page 48.

DID YOU KNOW?

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 used in the landscaping industry.

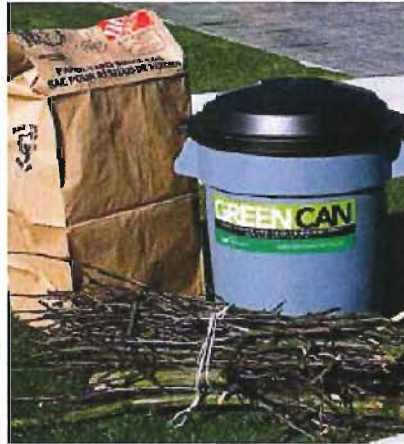
DROP OFF TONNAGE 2012

In 2012, more than 5,300 tonnes of yard trimmings were collected at the Recycling Depot and through the Ecowaste residential and commercial drop-off service.



Attachment 1 (Cont'd)

CITY OF RICHMOND



GREEN CAN AND GREEN CART RECYCLING PROGRAMS

Through Richmond's Green Can and Pilot Green Cart programs, more than 10,500 tonnes of food scraps and yard trimmings were collected in 2012, and total garbage volumes collected from single-family homes went down by nearly 400 tonnes. Food scraps and yard trimmings represent about 40% of household waste, and about 20% of the total waste going to landfills. Recycling these materials will take Richmond closer toward its goal to divert 70% of its waste from the landfill.

GREEN CAN AND GREEN CART

Food scraps and yard trimmings recycling represent a major opportunity to increase recycling and help turn waste into a valuable resource through composting to produce nutrient-rich soil. Richmond residents in single-family homes have had curbside collection of food scraps and yard trimmings through the Green Can program since 2010, and their annual recycling using their Green Can has consistently increased.

DID YOU KNOW?

With over 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 increase diversion.

TIPPING FEES, CURRENT AND PROJECTED, PER TONNE



Recycling food scraps and yard trimmings is becoming increasingly important as the cost of tipping fees at the landfill continue to rise. Regional tipping fees are expected to increase to more than \$150/tonne in 2017 – more than double the cost since 2007.

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

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 PILOT PROJECT
COLLECTED NEARLY **400** TONNES
IN 2012!

GREEN CART PILOT PROJECT

Recognizing the need to expand this recycling service to townhomes, the City of Richmond launched a Green Cart Pilot Project to determine program options for delivering food scraps and yard trimmings recycling as a new service to townhome residents. The pilot project was launched in 2011, and in 2012 a full review and assessment of the project was completed to assist with the development of recommendations for an expanded program that would include townhomes. Green Cart collection service continued for the pilot group in 2012, with a total of nearly 400 tonnes of recycling collected from only those in the pilot group, or an estimated 22% of townhomes total waste. A review of this pilot project led to a Council-approved program to expand yard trimmings and food scraps recycling to all townhomes with City garbage and/or Blue Box services.



CITY OF RICHMOND



RICHMOND LAUNCHES NEW GREEN CART PROGRAM

Building on the successful Green Can program and input from the Green Cart pilot project, in 2012, Richmond Council approved a new, expanded Green Cart program to start in June 2013.

2012: ASSESSING OPTIONS FOR RICHMOND'S NEW GREEN CART PROGRAM

Richmond completed a full review and assessment of the outcomes and experiences from the Green Cart pilot project. The project resulted in an average of 11.29 kg of Green Cart recycling collection per townhome per month. As well, residents in the project shared their input on how a new Green Cart program could be developed for other townhomes. Residents who shared their input on the pilot program provided positive feedback and 78% indicated their garbage was reduced by 50 – 70%, and 84% indicated they were placing their carts out for weekly collection. As well, the pilot program helped to divert about 22% of the total estimated townhome waste being generated.

In their feedback, residents involved in the pilot program noted cart sizes were too big for the limited space at townhome complexes and that it would be helpful to have a bin for the kitchen to transfer food scraps to the carts. The study also determined that sturdy bins with attached lids would be an added deterrent to rodents or other wildlife.

DEVELOPING RICHMOND'S NEW GREEN CART PROGRAM

Richmond has developed an enhanced Green Cart service to make it easier and more convenient to recycle food scraps and yard trimmings. This enhanced program starts in June 2013, is designed based on input from residents and addresses concerns about the Green Can program, such as weight restrictions, preferences for wheels and the need for attached lids. The Green Cart program is an enhanced service for single-family residents, and is a new service to more than 11,000 townhome units with the City's garbage collection and/or Blue Box service. By expanding this recycling service, Richmond is supporting residents in food scraps recycling well ahead of the anticipated ban on food scraps disposal scheduled for 2015.

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS



ACHIEVING AN ENHANCED LEVEL OF SERVICE

- Residents are able to select a preferred cart size
- Green Carts are easier to use thanks to:
 - Wheels that make it easy for residents to move
 - Attached and secure lids
 - Sturdy and rodent/animal resistant design
- Larger cart capacity helps reduce the need for purchasing paper yard waste bags
- There will be no weight limits (within cart capacity limitations) for Green Carts due to the use of automated tippers for collection. Green Carts are easy for collectors to spot, which reduces the chance of missed collection
- Complimentary kitchen containers and information kits on the new program will be provided to residents as part of the new program implementation



TIP FOR RESIDENTS

Green Cans can continue to be used for excess food scraps and yard trimmings, and paper yard waste bags and tied bundles of yard trimmings are also accepted. (The 20 kg (44 lb) limit will continue to apply to Green Cans, yard waste bags and tied bundles.)

CART SIZE OPTIONS - SINGLE-FAMILY HOMES AND TOWNHOMES

SINGLE-FAMILY

EXTRA LARGE
360 litresLARGE
240 litresMEDIUM
120 litresSMALL
80 litres

STANDARD

TOWNHOMES

SMALL
80 litresCOMPACT
46.5 litres

STANDARD

The Green Cart program will serve more than 40,000 homes ~ 60% of all Richmond residents ~ to provide convenient access to yard trimmings and food scraps recycling.

CITY OF RICHMOND



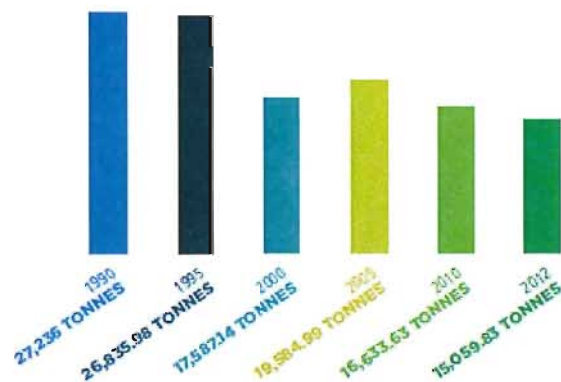
GARBAGE COLLECTION SERVICES

Weekly curbside collection of garbage provides residents with a convenient service for waste disposal. The new Large Item Pick Up program approved by Council provides an enhanced level of service.

GARBAGE COLLECTION

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 each. Certain items, such as hazardous waste materials and those items that can be recycled, are prohibited from garbage bins (see the chart on page 46 for more information on prohibited items).

GARBAGE DISPOSAL OVER THE YEARS



As conscientious recyclers, residents have drastically reduced the amount of garbage disposed since 1990.

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

**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-Mattresses Inc. in Langley (604-856-8383), MattressRecycling.ca in Burnaby (604-973-0183) or Canadian Mattress Recycling Inc. in Delta (604-777-0324). (Please call for information on pick up charges and recycling rates.)

Or call and request a pick up through the City's Large Item Pick Up program.

CURBSIDE COLLECTION FOR LARGE HOUSEHOLD ITEMS

As part of its review of services and goals for continuous improvement, Richmond identified an opportunity to add a new Large Item Pick Up program to make it more convenient for residents to recycle large household items. In 2012, Richmond reviewed program requirements and contract options and developed the new Large Item Pick Up program for up to four large items per year starting in June 2013. This program will be provided to residents in single-family homes and townhomes with the City's garbage collection and/or Blue Box program. This curbside collection service makes it easier for residents who do not have access to a vehicle to dispose of large items. Residents will be able to contact the City's service provider to arrange for collection of up to four large items per year. All four large items can be picked up at the same time, or in varying bundles for a total of four items. Collection will be on resident's garbage/recycling collection day.

Items accepted in this program include furniture, appliances and small household goods. Restrictions will apply to items that can be reasonably handled from curbside. If residents have more than four large items to dispose, they can purchase a Garbage Disposal Voucher for \$5 from any City facility and use the voucher to dispose of up to \$20 worth of garbage items at the Vancouver Landfill.

For more information on the new program, see Tips and Resources or visit www.richmond.ca/recycle.

**TIP FOR RESIDENTS**

Richmond Residents may purchase a Garbage Disposal Voucher for \$5 at all City facilities and these vouchers are good for \$20 at the Vancouver Landfill. There is a limit of one per household per year.

Attachment 1 (Cont'd)

CITY OF RICHMOND

**LITTER COLLECTION SERVICES**

Maintaining a litter-free city is a key focus area to ensure residents can enjoy clean parks and public spaces. The City of Richmond has made efforts to ensure that there are garbage 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 empty garbage and recycling 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?

Thanks to the new Go!Recycle bins in public spaces such as Steveston Village, in parks and at City facilities, about 35% of waste at these locations is now being recycled instead of going into the garbage.

4,000 LOADS OF LITTER & RECYCLABLES COLLECTED
FROM APPROXIMATELY **4,500** CITY LITTER & RECYCLING RECEPTACLES

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.

DID YOU KNOW?

The City's "Partners for Beautification Program" invites community participation in adoption initiatives for streets and other stewardship programs. Visit www.richmond.ca/parks for more information.

Attachment 1 (Cont'd)

CITY OF RICHMOND



GO! RECYCLE PUBLIC SPACES RECYCLING



Richmond's new public spaces recycling program is approved for continued growth following a review and assessment of its highly successful Go!Recycle pilot project to increase the number of recycling bins available throughout the community. With these recycling bins in place, residents and visitors make positive choices to recycle beverage containers and other materials thanks to the convenient bin locations.

Following a full review of the pilot program, Council accepted the pilot program as the model to be used to expand public spaces recycling in a graduated manner to City facilities, at City events, and to other City properties, including streetscapes, open spaces and parks. As part of the public spaces recycling program expansion in 2012, the containers and promotional branding/signage were used to expand recycling services to the community at City facilities. A total of 68 containers were installed in 13 City facilities to ensure easy access to recycling services by residents when participating in activities at these facilities, as well as to demonstrate responsible recycling and waste management leadership. As well, Richmond worked with volunteers and community partners to set-up recycling at more than 30 events. A total of 3,891 Green Ambassador hours were recorded in 2011/12 school year involving more than 200 Green Ambassadors.

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.

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EVENT RECYCLING PROGRAM IN DEVELOPMENT

With the success of the Go! Recycle program in public spaces, Richmond identified an opportunity to improve recycling by providing a program that supports recycling stations at events.

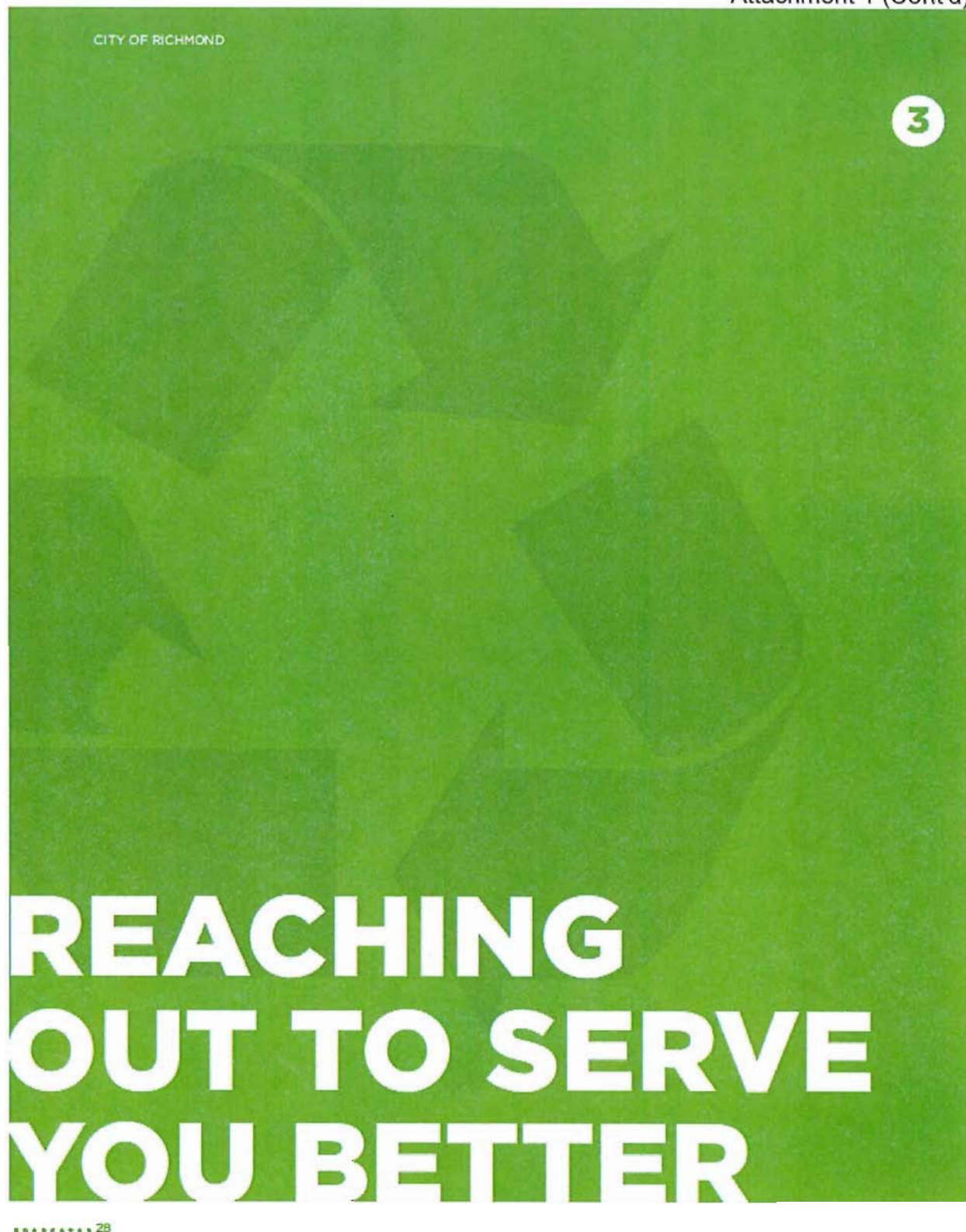
As part of its event management and venue requirements, event organizers are responsible for recycling and waste management during events, including litter pick-up and ensuring there are adequate facilities to collect recycling and garbage. The City of Richmond is exploring options to provide services to support these requirements, including the potential use of short-term rentals of garbage and recycling bins, signage and collection services. As well, the City is in the process of developing an Event Recycling Guide that will assist event organizers with assessing their recycling requirements and the operational aspects of setting up recycling stations.

By providing convenient resources, such as bin rentals and a "how to" guide for event recycling, the City's objective is to make it easy for event organizers to keep the venue clean and recyclables out of the landfill. Common materials generated at events such as bottles and cans, paper, cardboard, plastic containers with code ♻️ are banned from the garbage and must be recycled. Recycling at events helps turn waste into resources and supports Richmond's goal to divert 70% of waste from landfills by 2015.



TIP FOR EVENT ORGANIZERS

Recruit volunteers to manage the recycling stations to ensure proper disposal of waste and recyclables. Ideally, staff all recycling stations at all times. If this is not possible, assign a "floater" to check each area periodically.



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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.



Reached more than 4,300 people,
supported 3,890 student volunteer
hours, and engaged thousands
of residents.



CUSTOMER SERVICE

Richmond is focused on delivering exceptional customer service and offers a number of tools to respond to customer needs and priorities.

The Environmental Programs Information Line staff assisted customers on more than 7,100 calls in 2012, answering questions, assisting with requests relating to garbage and recycling and providing guidance on where to go for additional information and resources. Richmond also assists customers directly at the Recycling Depot, and through its outreach programs in the community.

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

2012 Customer Service Highlights:

196 COMPOST
BINS SOLD

7,100 CUSTOMER
SERVICE CALLS

9,700
GARBAGE TAGS

407 GARBAGE
DISPOSAL VOUCHERS

Richmond has extended its community outreach to include information displays at shopping centres and community centres. With the launch of the new Green Cart program, these new displays provided residents with more detailed information and an opportunity to view new carts to help with selecting their preferred cart size. These information displays also offer proactive communication opportunities to share information and provide tips to increase recycling and reduce waste.

NEW IN 2012!

WEBSITE UPDATES

The City recently updated its website, including improved navigation for information on recycling and waste management. Richmond also expanded its social media use via Richmond's Facebook page to provide timely updates and links to resources.

RE-COLLECT APP

In addition to its website updates and social posts, Richmond offers a free app that provides regular reminders about recycling and garbage collection days for residents in single family homes. Residents can set up how they want to receive reminders, which are available by email, text message, Twitter or a phone call. The tool is simple and easy to use. Please visit www.richmond.ca/recycle to sign up.

ENHANCED COMMUNICATIONS

Along with its commitment to continuous improvement of programs and services, the City has expanded and enhanced its communication and information materials to increase awareness of the importance of recycling as well as how to maximize all of the City's recycling and waste management programs. With its new "Let's trim our waste!" campaign, the City has expanded its information materials including new brochures on its various services, and Chinese translation of these materials. These expanded materials also include a number of targeted communications to raise awareness about the new Green Cart and Large Item Pick Up programs. As well, the City has developed new information displays to support community outreach and has created new recycling guides in both English and Chinese, with tips and resources on how to recycle in Richmond.

CITY OF RICHMOND



GREAT CANADIAN SHORELINE CLEAN-UP

Jointly led by the Vancouver Aquarium and World Wildlife Foundation, the Great Canadian Shoreline Clean-Up focuses on educating and empowering people to make a difference through community clean-up events. As part of this initiative, Environmental Programs partnered with Parks to support 10 community clean-up events on the City's waterfront involving 300 volunteers. The groups leading these activities include the Gulf of Georgia Cannery, WorkSafe BC, Richmond Chinese Evangelical Free Church, Richmond Capstan Alliance Church, Buddha's Light International Association, Iglesia Ni Cristo Church of Christ, Seafair Minor Hockey, the Rotaract Club of Richmond, Ricoh Canada, and Richmond's Green Ambassadors.

SCHOOL PARTNERSHIPS

In 2012 the City hosted *Clean-Up Your Act* shows at eight different schools. The show, which promotes sparkling clean communities through responsible actions to avoid littering, graffiti and vandalism, reached 865 elementary school students and 35 teachers. These schools participated in the "Make Richmond Sparkle" contest, which evaluates those schools most improved and those with the least amount of litter. Winners in 2012 were Bridge and McNeely Elementary Schools. Congratulations to these students for modeling community leadership in making their school grounds sparkle.

Zero Heroes is a school production delivered on behalf of the City to teach youth about recycling and solid waste reduction. Approximately 3,456 elementary students and 140 teachers were treated to this DreamRider production in 2012, which promotes environmental stewardship in a fun and engaging interactive theatrical presentation.

RICHMOND HOSTS FIRST ANNUAL EARTH DAY SUMMIT

Richmond staff collaborated with the Richmond School Board and the David Suzuki Foundation to support High School Green Teams in hosting the City's first annual summit called "Richmond Earth Day Youth Summit" (REaDY Summit) at Steveston/London High School.

The summit was successful in increasing awareness of environmental sustainability, fostering continual interest in recycling and reducing waste, and raising awareness on sustainability issues identified by local youth. Approximately 20 workshops ranging from recycling and waste reduction to a climate change showdown and energy and water conservation were offered. The Green Ambassadors spent approximately 2,000 hours to support this successful outreach initiative. Over 360 delegates attended, including 100 Richmond Green Ambassadors from eight Richmond high schools.

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS



CHRISTMAS TREE RECYCLING

The City hosted its annual Christmas Tree Recycling service at Garry Point. Thanks to the participation of residents who brought their trees in for recycling, Richmond collected and chipped 13,600 kilograms of chips and sent them to Harvest Power for composting.

COMMUNITY WORKSHOPS

Richmond's free community workshops provide education and tips that support recycling and waste reduction techniques. The following is a summary of workshops that focus on helping residents towards the City's goal for 70% waste diversion.

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.

COMMUNITY WORKSHOPS	
Backyard and Worm Composting Held seven times	Whether a novice or an experienced compost creator, participants learn how to effectively convert organic food and yard waste into an organic soil conditioner.
Second Hand to First Rate Held twice	Turn second hand items into amazing treasures. Participants learn party ideas, how to make great kids and decorating items and tricks and tips to dress from head to toe all for under \$30.
Harvest Compost Held twice	Participants learn some simple compost harvesting techniques and how to use compost to increase the health of soil and plants. A composting expert also provides assessment of finished composting samples provided by participants.
Eco-cleaning Held twice	Homemade household cleaners work well, save money and are less harmful to people, animals and the environment. With a few easy steps, participants learn to make and use eco-friendly cleaners. Eco-cleaning reduces the use of toxic household items and the course includes tips on how to recycle and safely dispose of these harmful materials.



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TOWARDS OUR GOALS

NEXT STEPS FOR SUSTAINABLE WASTE MANAGEMENT

The national trend towards sustainable waste management is driving innovation, policy changes and new partnerships at a national, provincial, regional and local level. The National Zero Waste Council is exploring options to engage Canadians to re-think waste. This includes influencing industry and producers and changing consumer behaviours. At a regional level, the City has endorsed the *Integrated Solid Waste and Resource Management Plan* as a foundation for future waste management. And in our community, Richmond is expanding and improving recycling services and residents are using these services to divert waste.

Together, we are making change happen today, as well as looking towards the future. There are increasing opportunities for innovation, such as leveraging waste as a resource as well as policies that engage industry and producers to minimize waste and facilitate recycling. As individuals, we can work together to share personal responsibility to reduce and recycle waste.

These measures will create a platform that supports Richmond's vision for a sustainable future as a Recycling Smart City.



Our goal is 70% diversion
by 2015.



STRATEGIES FOR 70% DIVERSION BY 2015

To achieve its goals, Richmond is focused on maximizing use of existing recycling services, expanding recycling services to new customer groups, and reducing waste at the source through reduced packaging and consumption.

Over the next three years, Richmond needs to divert additional waste to achieve its goal for 70% diversion. Residents in single-family homes are already diverting 61% of their waste as they were among the first to receive a range of recycling services. Richmond has continued to expand services to other customer groups, such as residents in townhomes and multi-family complexes, and is exploring options to support recycling in the business and industrial/commercial sectors.

Richmond's plan for enhancing and expanding recycling and waste management services includes established deliverables for 2013 and a work plan for 2014 and 2015 that includes exploring new service options, addressing changes in policy and legislative requirements and enhancing existing programs to accommodate increased recycling.

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

**NEW IN 2013****IMPLEMENTATION OF NEW GREEN CART PROGRAM – JUNE 2013**

Richmond's new Green Cart program is an enhanced service for residents and single-family homes and a new service to townhomes with the City's garbage collection and/or Blue Box service. By expanding the service to townhomes, Richmond is reaching more than 11,000 new homes with this recycling collection service and ensuring residents have access to food scraps recycling well in advance of the anticipated disposal ban on food scraps in 2015.

The program builds on the success of Green Can recycling and addresses challenges with the existing program to make it even easier and more convenient to recycle food scraps and yard trimmings. The program offers a range of cart sizes that residents can select based on their recycling needs. The larger carts have wheels, making them easy to move, there are no weight limits thanks to automated lifts on the trucks and they come with attached lids. As well, the large size reduces the need for purchasing extra paper yard waste bags. Residents can continue to use their Green Cans, paper yard waste bags and bundled yard trimmings to supplement their Green Cart when needed, such as during spring and fall clean up.

IMPLEMENTATION OF NEW LARGE ITEM PICK UP PROGRAM – JUNE 2013

Starting in June, Richmond's new Large Item Pick Up program will provide a convenient curbside collection service for up to four large household items per year, including mattresses, furniture and appliances. This new service is available to single-family homes and townhomes with City garbage collection and/or Blue Box recycling service.

The Large Item Pick Up program adds convenience for residents, particularly those who do not have large vehicles to dispose of items. It is also anticipated that this new program will support recycling of many large household items that would otherwise go to the landfill, and will help to reduce problems with illegal dumping in the community.

COMMUNITY AWARENESS AND EDUCATION

Richmond will continue to encourage recycling at home and on the go in the community by providing information and educational outreach. The City's recycling promotion campaign, "Let's trim our waste!" is designed to increase understanding of why recycling and waste reduction is important, raise awareness about the various recycling programs and services available from the City and its partners in the community, and provide instructions on how to use recycling services effectively to reduce and divert waste.

The communications involve a mix of tactics ranging from direct communication to residents and outreach programs through event booths and workshops, to general information sharing through advertising in both English and Chinese newspapers. Richmond is also expanding its public relations through increased partnerships in the community, such as the Richmond School District, S.U.C.C.E.S.S. and other local organizations who work directly with cultural and interest groups in the community.

CITY OF RICHMOND

With City recycling programs in place for the majority of residents, Richmond has significantly cut its waste going to landfill and the new and enhanced programs being implemented in 2013 will further extend resident recycling of food scraps, yard trimmings and large household items. Achieving 70% diversion involves more than maximizing existing services – it will take expanded programs and a shared commitment by residents, businesses, and commercial and industrial sectors working together to divert waste.

OTHER PLANNED INITIATIVES AND FUTURE CONSIDERATIONS

Richmond is exploring options to reach new customer groups, leverage existing programs in new ways and create new programs that serve the community with consideration to budget, resources and feasibility for implementation. There are a number of significant recycling/waste management initiatives that are active, planned or marked as a potential future consideration that are designed to expand the reach of recycling programs and align with emerging requirements and legislation affecting waste management.

EXPANDING SERVICES

Eco Centres

Eco Centres are an initiative under the *Integrated Solid Waste and Resource Management Plan* to provide a one-stop centre for a multitude of recycling services. Staff are working with Metro Vancouver to review the issue of equity for communities that host regional transfer stations where Metro Vancouver intends to provide enhanced recycling services versus those municipalities who provide recycling services independently at municipally-owned recycling depot sites.

As part of a future consideration for this type of service, Richmond is exploring options that include a possible expansion of the City's existing Recycling Depot into a larger facility that accepts a much broader range of materials and offers additional services (re-use centre, education facility, etc.).

Review of New/Expanded Programs for Recycling Depot

Staff continually review the range of services at the Recycling Depot to consider whether new products may be added. For example, residential light fixtures and exercise equipment were recently added to the range of materials accepted. Other items being considered include books, Styrofoam and batteries.

Review of Organics Collection Options for Multi-family and Commercial

In accordance with Council direction, staff are reviewing options to develop a pilot project to collect food scraps and yard trimmings from multi-family buildings, residential/commercial mixed use, and commercial businesses. Centralized collection is envisioned as likely the most practical approach. The results of the pilot project would be used to help formulate collection models and approaches for the multi-family and commercial business sectors.

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

**Potential Expansion of Municipal Recycling Services**

With a goal to increase the types of materials that can be conveniently recycled in Richmond, staff will review opportunities to expand the range of materials collected in the City's Blue Box, multi-family and Recycling Depot programs. This expansion of materials is determined in part by the availability of recycling facilities and partners who accept these materials as well as implications related to recycling additional packaging materials under the new stewardship program for packaging and printed paper, scheduled to commence in May 2014.

Introduce Carts for Curbside Garbage Collection

Information from the Green Cart program expansion will be used to evaluate the potential for introducing City-provided carts for garbage collection and options to encourage greater recycling.

ALIGNMENT WITH EMERGING REQUIREMENTS AND LEGISLATION**Packaging and Printed Paper/Multi-material BC (MMBC) Stewardship Plan**

There is currently work underway at the provincial level that would result in industry assuming responsibility for packaging and printed paper recycling collection. Richmond is evaluating how this change would impact the City's Blue Box, multi-family and Recycling Depot programs and how the City can leverage this program to enhance service to residents.

Demolition Materials Recycling

Metro Vancouver has developed a model bylaw for review and potential implementation by municipalities to require recycling/solid waste management plans for new construction/demolitions. The intention is to require recycling and appropriate disposal of waste generated through demolition activities. Staff plan to review the model bylaw for potential implementation in Richmond.

Garbage Collection Service Level Review

Staff will review existing service levels for garbage collection, e.g. weekly collection versus bi-weekly collection or pay-as-you-throw costing incentives. Changes in the frequency of garbage collection have been implemented in other municipalities with a goal to improve recycling participation levels. The review is focused on ensuring effective waste management and customer service while facilitating and encouraging recycling.



2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

TIPS AND RESOURCES

EASY STEPS TO INCREASE RECYCLING AND REDUCE WASTE

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 collection through product stewardship programs. Together these tips and resources help to support maximum recycling with minimum contamination in the waste going to the landfill.



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

Attachment 1 (Cont'd)

CITY OF RICHMOND

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 *2013 Recycling and Garbage Collection Schedule* is available 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
	Blue Bag	Yellow Bag	Yellow Bag or bundled	Blue Box
WHAT IS ACCEPTED	<ul style="list-style-type: none"> ✓ Newspaper ✓ Non-glossy flyers and inserts 	<ul style="list-style-type: none"> ✓ 100% fibre paper ✓ Glossy paper ✓ Junk mail ✓ Magazines & catalogues ✓ Paper and cereal 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 <p>Note: Oversized/excessive amounts can be dropped off at the City Recycling Depot</p>	<ul style="list-style-type: none"> ✓ Glass food & beverage containers ✓ Plastic bottles ✓ Aluminium food & beverage cans, foil and plates ✓ Tin cans ✓ 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 Bag; 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"> • Remove lids • Rinse clean • Remove labels • Flatten
WHEN SORTING, DO NOT INCLUDE	<ul style="list-style-type: none"> ✗ Other types of paper ✗ String ✗ Plastic or paper bags 	<ul style="list-style-type: none"> ✗ Bathroom or tissue paper ✗ Carbon paper ✗ Drink boxes ✗ Metallic gift wrap ✗ Milk cartons ✗ Paper clips ✗ Paper towels ✗ 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 ✗ Milk cartons ✗ Other plastics (plastic film and grocery bags) ✗ Styrofoam

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.


Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

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 generally affect the collection; however, Christmas Day may delay collection by one day if it falls on a weekday.



	NEWSPRINT	PAPER PRODUCTS	CORRUGATED CARDBOARD	CONTAINERS
WHAT IS ACCEPTED	<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 <p><i>Note: Oversized/excessive amounts can be dropped off at the City Recycling Depot</i></p>	<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 Cart	Place in Paper Products Blue Cart <ul style="list-style-type: none"> • Remove all food scraps • Remove plastic liners • Remove metal attachments • Flatten 	Place in Paper Products Blue 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 Containers Blue Cart <ul style="list-style-type: none"> • Rinse clean • Remove lids • Remove labels • Flatten
WHEN SORTING, DO NOT INCLUDE	<ul style="list-style-type: none"> ✗ Other types of paper ✗ String ✗ Plastic or paper bags 	<ul style="list-style-type: none"> ✗ Bathroom and tissue paper ✗ Carbon paper ✗ Drink boxes ✗ Metallic gift wrap ✗ Milk cartons ✗ Paper clips ✗ Paper towels ✗ 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 ✗ Milk cartons ✗ Other plastics (plastic film and grocery bags) ✗ Styrofoam

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 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.

Attachment 1 (Cont'd)

CITY OF RICHMOND

FOUR EASY STEPS
FOR USING YOUR
GREEN CART

- 1** Collect food scraps in your kitchen container.
- 2** Empty materials from your kitchen container into your Green Cart.
- 3** Place yard trimmings into Green Cart along with your food scraps. (Extra yard trimmings can go in large paper bags or additional labeled Green Cans). Please note that plastic bags including compostable/biodegradable plastic bags are NOT accepted.
- 4** Place your Green Cart at the curb along with unlimited paper yard trimmings bags and/or Green Cans, Blue Box and garbage by 7:30 a.m. on your regular collection day.

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.

GREEN CART

The Green Cart program starting in June 2013 makes it easy and convenient to recycle food scraps and yard trimmings. The new Green Carts are an enhanced service for residents in single-family homes and it's a new recycling service for townhomes with City garbage collection and/or Blue Box service.

Green Carts make it easier to recycle with great new benefits for residents, including no weight limits, wheels make them easy to move, secured lids help with odour and pest management and custom sizes.

You can combine your food scraps and yard trimmings together in the Green Cart. Any additional materials that won't fit into the cart can be placed in Green Cans, paper yard waste bags or tied bundles. Please note that Green Carts stay with the property. If residents move to another house in Richmond, they will have a Green Cart at that location. If there is no cart, please call 604-276-4010.

WHAT TO DO WITH GREEN CANS

- Continue to use existing Green Cans to recycle food scraps and yard trimmings. (Program restrictions apply such as weight limit, container size, clearly displayed decals, etc.)
- Remove the "Green Can" decal and use the container as a garbage can
- Bring Green Cans to the City's Recycling Depot at 5555 Lynas Lane (Wednesday to Sunday from 9:00 a.m. to 6:15 p.m.) during 2013 for reuse or recycling

	FOOD SCRAPS	YARD TRIMMINGS
WHAT IS ACCEPTED	<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/napkins/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
WHEN SORTING, DO NOT INCLUDE	<ul style="list-style-type: none"> ✗ Coffee cups ✗ Cork or Styrofoam cups, meat trays or takeout containers ✗ Grease or liquids ✗ Pet feces or kitty litter ✗ Plastic bags, biodegradable or compostable bags ✗ Plastic wraps 	<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

Ecowaste Industries

15111 Williams Road
Open Monday to Friday from 7:00 a.m. to 5:30 p.m.
(last load in at 5:30 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 per cubic yard.

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS



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 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 January to November. 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.

COMPOST HOTLINE

The Compost Hotline offers support and tips for best practices in home composting. It is operated by City Farmer, which has researched and promoted the best methods of urban composting since 1978.

Compost Hotline

Phone: 604-736-2250

Email: composthotline@telus.net

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.



Nitrogen Rich Green Materials:

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

Carbon Rich Brown Materials:

- DRY LEAVES
- SAWDUST
- STRAW
- SHREDDED NEWSPAPER CLIPPINGS

HOW TO COMPOST

- 1** USING A BACKYARD COMPOST BIN, 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.

Attachment 1 (Cont'd)

CITY OF RICHMOND

GARBAGE COLLECTION**CURBSIDE COLLECTION SERVICE****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 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 before 7:30 a.m. on collection day but no earlier than 8:00 p.m. the day before. Do not place receptacles or other items on the road.

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

Extra Item Disposal Options

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

\$2 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 at all City facilities. These vouchers are good for \$20 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.

The following items are **not** accepted in the garbage:

MATERIAL	HOW TO RECYCLE OR DISPOSE
X DEMOLITION WASTE	• Check Metro Vancouver's website at www.metrovancouver.org/buildsmart or call the RCBC Recycling hotline at 604-RECYCLE (732-9253).
X DIRT, ROCK, CONCRETE OR BRICKS	• Take to Ecowaste Industries. Visit ecowaste.com or call 604-277-1410 for accepted items & hours.
X DRYWALL	• 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.
X GARBAGE BEYOND THE TWO CAN LIMIT	• Purchase a \$2 Garbage Tag for City facilities and put on can or bag. See Extra Item Disposal Options.
X GARBAGE THAT IS TOO BIG OR MAY DAMAGE TRUCK	• Take garbage to the City of Vancouver Landfill at 5400 72nd Street, Delta. See Extra Item Disposal Options.
X HAZARDOUS WASTE	• Call RCBC Recycling Hotline at 604-RECYCLE or visit www.metrovancouverrecycles.org .
X PROVINCIAL PRODUCT STEWARDSHIP COLLECTION (TAKE-BACK) ITEMS	• Visit bcstewards.com or call 604-RECYCLE.
X RECYCLABLES (BLUE BOX & BLUE CART)	• Place in appropriate recycling receptacle unless it is contaminated by food or other waste.
X UNWRAPPED OR LOOSE GARBAGE	• Must be in garbage bag or can.
X YARD TRIMMINGS	<ul style="list-style-type: none"> • Place in Green Carts or paper yard waste bags. • 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 Cart section for restrictions and accepted materials on page 44.

LARGE ITEM PICK UP

CURBSIDE COLLECTION FOR LARGE HOUSEHOLD ITEMS

Starting in June 2013, your new Large Item Pick Up program will provide a convenient curbside collection service for up to four large household items per year, including mattresses, furniture and appliances. This new service is available to single-family homes and townhomes with City garbage collection and/or Blue Box recycling service.

HOW THE PROGRAM WORKS

- Residents contact the City's service provider, Sierra Waste Services Ltd Customer Service at 604-270-4722 to arrange for collection of up to four items per year. Residents can bundle these four items as follows:

- | | | | |
|---|---------------------------------------|---|---|
| 1 1 item picked up
4 separate times | 2 2 items picked up
2 times | 3 3 items picked up
1 time and 1 item
another time | 4 4 items picked up
all at once |
|---|---------------------------------------|---|---|

- The collection limit is four large items per year – there is no carry forward if residents do not use the service in a given year.
- Large items will be picked up on the same day as garbage/recycling. Residents must make arrangements for pick up by 5:00 p.m. on the Thursday prior to the following week's collection day.
- If the large item is a refrigerator, freezer, icebox or other container that is equipped with a latch or locking device, the door/latch must be removed and placed beside the large item for safety reasons.
- To help keep our neighbourhoods tidy, residents must remove any large items that were not collected by 9:00 p.m. on their scheduled collection day. Large items will not be collected if they are:
 - Tagged as being inappropriate or unacceptable, or
 - Not scheduled for pick-up by 5:00 p.m. on the Thursday prior to the collection day. Call 604-270-4722 to confirm the next collection day option.
- Residents can continue to purchase a Garbage Disposal Voucher for \$5 from any City facility and use the voucher to dispose of up to \$20 worth of garbage items at the Vancouver Landfill.

For more information visit www.richmond.ca/recycle or call Environmental Programs at 604-276-4010.

LIST OF ITEMS ACCEPTED

The following guide provides a list of examples of accepted items for pick up along with examples of what cannot be collected through this program due to safety concerns.


ACCEPTED	NOT ACCEPTED
<ul style="list-style-type: none"> ✓ Furniture (e.g. couches, coffee tables, chairs, desks, dressers, TV stands, cabinets, drawers, tables, hutches, cribs, high chairs, entertainment centers) ✓ Appliances (e.g. stoves, dishwashers, washers and/or dryers, hot water tanks, refrigerators, freezers, microwaves, coolers) ✓ Small household goods, which must be in boxes or bundled and are a reasonable size (one box or bundle is equal to one of the resident's four allotted items) ✓ Barbecues (remove lava rock briquettes and/or propane tank) ✓ Outdoor furniture (e.g. chairs, patio tables, patio umbrellas) ✓ Weight training equipment (e.g. treadmills, ellipticals, stationary bikes, stair masters, weight sets) ✓ Electric lawnmowers ✓ Mattresses (including headboard and frame) <p>Note: The item(s) must be able to be safely handled from curbside in order to qualify for collection</p>	<ul style="list-style-type: none"> ✗ Car bodies or parts ✗ Tree stumps ✗ Carpets ✗ Lumber, demolition or home renovation materials ✗ Hazardous waste ✗ Propane tanks ✗ Tires ✗ Gas mowers <p>Note: Items that contain any hazardous liquids such as gas, oil, etc. will not be accepted.</p>

Attachment 1 (Cont'd)

CITY OF RICHMOND

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 1 cubic yard of recyclables and 3 large appliances at the depot per day.

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

FOR SALE AT THE RECYCLING DEPOT

Residents can purchase the following items from the Depot:

- Compost bins - \$25 each
- Rain barrels - \$20 and \$16 for water diverter device
- Extra Garbage Tags - \$2 each
- Garbage Disposal Vouchers (cost is \$5 for Richmond residents and value is \$20 at the Vancouver Landfill)



	NEWSPAPER	MIXED PAPER	CORRUGATED CARDBOARD	MAGAZINES
WHAT IS ACCEPTED	<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
WHEN SORTING, 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 ✗ Plastic bags ✗ Tissue paper ✗ Waxed paper 	<ul style="list-style-type: none"> ✗ Plastic or waxed coated cardboard ✗ Styrofoam packaging material ✗ Unflattened boxes 	<ul style="list-style-type: none"> ✗ Drinking boxes ✗ Mixed paper ✗ Newspaper ✗ Paperback books ✗ Waxed paper

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS



	PLASTIC CONTAINERS	GLASS BOTTLES & JARS	ALUMINIUM & TIN CANS	COOKING OIL & ANIMAL FAT	YARD TRIMMINGS
WHAT IS ACCEPTED	<ul style="list-style-type: none"> ✓ Rigid plastic containers with coding ♻️ ✓ Beverage containers ✓ Dairy containers & milk jugs ✓ Detergent & shampoo bottles ✓ Food containers 	<ul style="list-style-type: none"> ✓ Glass bottles & food jars (clear & coloured) 	<ul style="list-style-type: none"> ✓ Aluminium foil ✓ Clean aluminium pie plates ✓ Food & beverage cans 	<ul style="list-style-type: none"> ✓ Cooking oil ✓ Animal fat or grease <p>Note: this program is limited to hydrogenated and non-hydrogenated food-based oils and fat only</p>	<ul style="list-style-type: none"> ✓ Branches & limbs ✓ Trees & shrubs ✓ Grass & leaves <p>Drop-off Limits & Charges Richmond residents can drop off one cubic yard free at the City's Recycling Depot. Charged \$20 per cubic yard if over limit. Commercial operators are charged \$20 per cubic yard.</p>
HOW TO RECYCLE	Place in Plastics Containers bin <ul style="list-style-type: none"> • Rinse • Remove lids or caps • Remove labels (if possible) • Flatten 	Place in Clear Glass or Coloured Glass bin <ul style="list-style-type: none"> • Rinse • Remove and discard caps 	Place in Tin & Aluminium Cans bin <ul style="list-style-type: none"> • Rinse • Remove labels • Flatten cans 	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Limbs/trunks up to 4 inches (10 cm) in diameter only • De-bag all material at the depot
WHEN SORTING, DO NOT INCLUDE	<ul style="list-style-type: none"> ✗ Aerosol cans ✗ Milk cartons ✗ Motor oil containers ✗ Other plastics ✗ Plastic bags ✗ Styrofoam ✗ Plastic film 	<ul style="list-style-type: none"> ✗ Aquariums ✗ Ceramics (plates/cups) ✗ Drinking glasses ✗ Fluorescent tubes ✗ Headlights ✗ Light bulbs ✗ Mirrors 	<ul style="list-style-type: none"> ✗ Aerosol cans ✗ Fuel cans ✗ Paint cans 	<ul style="list-style-type: none"> ✗ Vehicle oil or fluids 	<ul style="list-style-type: none"> ✗ Asphalt or concrete ✗ Soil and/or Dirt ✗ Large limbs ✗ Lumber or wood products ✗ Plastic bags ✗ Rocks or stones ✗ Sod ✗ Stumps

Attachment 1 (Cont'd)

CITY OF RICHMOND

DID YOU KNOW?

Four, 2-litre plastic bottles can be recycled into one t-shirt, filling for a ski jacket and two ball caps.



	PAINTS, SOLVENTS & PESTICIDES	LARGE METAL ITEMS	LARGE APPLIANCES	SMALL APPLIANCES	LIGHTS & LIGHTING FIXTURES
WHAT IS ACCEPTED	<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 barbecues ✓ 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 ✓ 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"> ✓ Fluorescent tubes (straight, curved, U, circular, square etc.) ✓ UV and germicidal lamps ✓ Incandescent and halogen bulbs ✓ Compact fluorescent lights (CFLs) ✓ Light emitting diodes (LEDs) ✓ Ultra High Performance (UHP) lamps (replacement projector lamps) ✓ High-intensity discharge lamps (HIDs)
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 	<ul style="list-style-type: none"> • Place in area marked Large Metal Items or bin • Remove non-metal attachments • Remove fuel tank • Drain out gasoline 	<ul style="list-style-type: none"> • Place in area marked Refrigerators & Freezers or Furnaces & Hot Water Tanks or Large Appliances • 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 <p>Note: Maximum limit for return at one time is a total of 16 tubes and 16 bulbs</p>
WHEN SORTING, DO NOT INCLUDE	<ul style="list-style-type: none"> ✗ Brushes, rags & rollers ✗ Caulking tubes ✗ Cosmetics, health & beauty ✗ Diesel, propane or butane ✗ Fertilizer ✗ Insect repellents, disinfectants & pet products ✗ Non-flammable glues & adhesives ✗ Products that are leaking or improperly sealed ✗ Products that can't be identified 	<ul style="list-style-type: none"> ✗ Computer monitors ✗ Helium tanks ✗ Propane & fuel tanks ✗ Televisions 	<ul style="list-style-type: none"> ✗ Large or small furniture (couches, sofas, mattresses, boxsprings) 	<ul style="list-style-type: none"> ✗ Appliances powered by gasoline ✗ Appliance de-icing for commercial/industrial use ✗ Appliances still containing food residue, liquids or vacuum bags 	<ul style="list-style-type: none"> ✗ Broken or punctured CFLs or fluorescent tubes

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

COMMUNITY RESOURCES AND PARTNERS

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 metrovanancouverrecycles.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:

weRecycle

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

MetroVan Reuses

bc.reuses.com

Metro Vancouver Recycling Directory

metrovanancouverrecycles.org

Richmond Shares

richmondshares.bc.ca

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

RCBC Recyclepedia at rcbc.bc.ca/recyclepedia

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



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

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 help to ensure that these expired or end-of-life products will be disposed of safely, and recycled where possible.

Attachment 1 (Cont'd)

CITY OF RICHMOND

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 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
BATTERIES	Household batteries	<p>Call2Recycle</p> <p>Contact call2recycle.ca 1-888-224-9764 info@call2recycle.ca</p> <p>Drop off site locator 1-877-273-2925</p>
BEVERAGE CONTAINERS	Almost all types of beverage containers	<p>Encorp Pacific (Canada)</p> <p>Contact return-it.ca/locations 1-800-330-9767 or 604-473-2400 encorp@encorpcan.com</p> <p>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.</p>
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	<p>Canadian Wireless Telecommunications Association</p> <p>Contact RecycleMyCell.ca 1-888-797-1740 info@recyclemycell.ca</p>
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	<p>Encorp Pacific (Canada)</p> <p>Contact return-it.ca/electronics 1-800-330-9767</p>

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2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS



TAKE BACK PROGRAMS	WHAT IS INCLUDED	STEWARDSHIP AGENCY
MEDICATION	All expired or leftover prescription medication, non-prescription medication and mineral supplements, anti-fungal and anti-bacterial creams	Health Products Stewardship Association Contact medicationsreturn.ca 613-723-7262 info@medicationsreturn.ca
PAINTS, SOLVENTS, PESTICIDES AND GASOLINE	Paints, solvents, pesticides and gasoline	Product Care Association Contact productcare.org/BC-Paint-Program
SMALL APPLIANCES AND POWER TOOLS	Kitchen countertop appliances (e.g. toasters, microwaves, coffee makers and food processors), electric bathroom scales, hair dryers, carpet cleaners, vacuum cleaners, portable fans, power tools, sewing and exercise machines	ElectroRecycle 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 electrorecycle.ca 1-800-667-4321
TIRES	Car tires, truck tires and some agricultural and logger/skidder tires	Tire Stewardship BC (TSBC) Contact tsbc.ca 1-866-759-0488
THERMOSTATS	Mercury-containing and electronic 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 232) icourt@summerhillgroup.ca
USED OIL AND ANTIFREEZE	Motor oil, oil filters, empty oil containers, antifreeze and used antifreeze containers	BC Used Oil Management Association Contact usedoilrecycling.com/bc 604-703-1990 rdriedger@usedoilrecycling.ca

DID YOU KNOW?

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

Attachment 1 (Cont'd)

CITY OF RICHMOND

HAZARDOUS WASTE AND OTHER DISPOSAL ITEMS

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

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

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

Many common hazardous household and automotive products must be recycled or disposed through special depots. Disposal sites and take back collection options for hazardous and banned materials are listed on the following pages. Please note that this information is provided as a reference for your convenience; however, it is not guaranteed. Please call first to confirm that the site is still open to accept these take-back products and to check hours of operation.

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


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).

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> × Asbestos × Automobile bodies and parts × Batteries × Barrels or drums in excess of 205 litres (45 gallons) × Clean or treated wood exceeding 2.5 metres in length × Electronics and electrical products (limited) × Fluorescent lights | <ul style="list-style-type: none"> × Gypsum × Hazardous waste × Inert fill materials including soil, sod, gravel, concrete and asphalt in quantities exceeding 0.5 cubic metres per load × Lead acid batteries × Liquids and sludge × Mattresses | <ul style="list-style-type: none"> × Oil containers, oil filters, paint products, solvents and flammable liquids × Household or commercial appliances × Pesticide products × Pharmaceuticals × Propane tanks × Thermostats × Tires |
|--|--|---|

BANNED MATERIALS THAT CAN BE RECYCLED

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> × Corrugated cardboard × Recyclable paper | <ul style="list-style-type: none"> × Containers made of glass, metal or banned recycled plastic  | <ul style="list-style-type: none"> × 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

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

**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	604-273-3922
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
Meltron 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	604-276-2820

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	110 - 11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Regional Recycling	13300 Vulcan Way	604-276-8270

For a complete list of small appliances accepted, visit electrorecycle.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	110 - 11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Ralph's Pick-n-Pull	12011 Mitchell Road	604-325-8323
Regional Recycling	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.

DB: Disposal ban | * A fee is charged

Please note: Drop-off locations may change without notice. Please call individual locations to confirm address and hours of operation.

Attachment 1 (Cont'd)

CITY OF RICHMOND

**AUTOMOTIVE BATTERIES DB**

DROP-OFF LOCATION	ADDRESS	PHONE
Canadian Tire	3500 No. 3 Road	604-273-2970
	11388 Steveston Highway	604-271-6651
Kal Tire (Richmond Centre)	6551 No. 3 Road	604-207-1203
Ralph's Pick-n-Pull	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

BABY CAR SEATS

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	102 - 5300 No. 3 Road	604-232-9772
Home Depot	2700 Sweden Way	604-303-7360
London Drugs	5971 No. 3 Road	604-448-4811
	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	604-270-9589
	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 call2recycle.ca/locator

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

DROP-OFF LOCATION	ADDRESS	PHONE
London Drugs	5971 No. 3 Road	604-448-4811
	3200 - 11666 Steveston Highway	604-448-4852

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 recyclemycell.ca/recycling-your-device 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.

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	110 - 11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Ralph's Pick-n-Pull	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.

DB: Disposal ban | * A fee is charged

Please note: Drop-off locations may change without notice. Please call individual locations to confirm address and hours of operation.

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

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.

**EXERCISE & HOBBY MACHINES^{DB}**

DROP-OFF LOCATION	ADDRESS	PHONE
City's Recycling Depot	5555 Lynas Lane	604-276-4010
Ironwood Bottle & Return-It Depot	110-11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Regional Recycling	13300 Vulcan Way	604-276-8270

EYEGLASSES

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

FIRE EXTINGUISHERS

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

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, Ladner	604-952-1220 604-940-9655

GYPHUM 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
(Maximum 1/2 sheet with a paid load of garbage)		
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

HYPODERMIC NEEDLES

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

LIGHTS & LIGHTING FIXTURES^{DB}

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	604-448-4811
	3200 - 11666 Steveston Highway	604-448-4852

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

DB: Disposal ban | * A fee is charged

Please note: Drop-off locations may change without notice. Please call individual locations to confirm address and hours of operation.

CITY OF RICHMOND

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.


**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 www.usedoilrecycling.com or call 604-RECYCLE.

MATTRESSES AND BOXSPRINGS ^{DB}

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

Richmond's Large Item Pick Up Program: Contact Sierra Waste at 604-270-4722. Please note some restrictions apply. See page 47.

DB: Disposal ban | * A fee is charged

Please note: Drop-off locations may change without notice. Please call individual locations to confirm address and hours of operation.

MEDICAL DEVICES & 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	110 - 11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Ralph's Pick-n-Pull	12011 Mitchell Road	604-325-8323
Regional Recycling	13300 Vulcan Way	604-276-8270

MILK CARTONS

DROP-OFF LOCATION	ADDRESS	PHONE
Ironwood Bottle & Return-It Depot	110 - 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

MUSICAL INSTRUMENTS ^{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	110 - 11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Ralph's Pick-n-Pull	12011 Mitchell Road	604-325-8323
Regional Recycling	13300 Vulcan Way	604-276-8270

Attachment 1 (Cont'd)

2012 REPORT • EXPANDING SERVICES TO ACHIEVE OUR GOALS

**PAINT & PAINT AEROSOL CONTAINERS ^{DB}**

DROP-OFF LOCATION	ADDRESS	PHONE
City's Recycling Depot	5555 Lynas Lane	604-276-4010
Rona	7111 Elmbirdge 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	5400 72nd Street, Delta	604-873-7000
Husky Autogas	9060 Bridgeport Road	604-278-0011
Richmond Husky Service *	8011 No. 3 Road	604-270-3822

PROPANE TANKS (SMALL) - DISPOSABLE (EMPTY)

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

DB: Disposal ban | * A fee is charged

Please note: Drop-off locations may change without notice. Please call individual locations to confirm address and hours of operation.

**OUTDOOR POWER EQUIPMENT ^{DB}**

DROP-OFF LOCATION	ADDRESS	PHONE
Regional Recycling	13300 Vulkan Way	604-276-8270

SEWING, KNITTING & TEXTILE MACHINES ^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
City's Recycling Depot	5555 Lynas Lane	604-276-4010
Ironwood Bottle & Return-It Depot	110 - 11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Regional Recycling	13300 Vulkan Way	604-276-8270

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.

Westcoast Plastic Recycling Inc	3 - 2480 Shell Road	604-247-1664
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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 Kingway, Burnaby	604-451-1206
	5524 Cambie Street, Vancouver	604-325-9966
Westcoast Plastic Recycling Inc	3 - 2480 Shell Road	604-247-1664

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.

Attachment 1 (Cont'd)

CITY OF RICHMOND

**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/dropoff.php or call 1-416-922-2448 ext 232.

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
Charix Tire	404 - 5940 No. 6 Road	604-276-2966
Costco Wholesale	9151 Bridgeport Road	604-270-3647
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 Milnor Boulevard	604-278-5171
P & P Tire and Auto Service	150 - 8531 Capstan Way	604-278-3777
Pedline Automotive Ltd.	1 - 11711 No. 5 Road	604-277-4269
Richmond Country Tire	11880 Machina 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 tsbc.ca or call 1-866-759-0488.

DB: Disposal ban | * A fee is charged

Please note: Drop-off locations may change without notice. Please call individual locations to confirm address and hours of operation.

**TIRES AND TUBES - BICYCLE**

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 tsbc.ca/bike.php or call 1-866-759-0488

TOOLS - POWER (ELECTRONIC & ELECTRICAL) ^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
City's Recycling Depot	5555 Lynas Lane	604-276-4010
Ironwood Bottle & Return-It Depot	110-11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Regional Recycling	13300 Vulcan Way	604-276-8270
Ralph's Pick-n-Pull	12011 Mitchell Road	604-325-8323

TOYS (ELECTRONIC & ELECTRICAL) INCLUDING VIDEO GAMING SYSTEMS & ACCESSORIES ^{DB}

DROP-OFF LOCATION	ADDRESS	PHONE
Best Buy	700 - 5300 No. 3 Road	604-273-7335
Future Shop	102 - 5300 No. 3 Road	604-232-9722
Ironwood Bottle & Return-It Depot	110-11020 Horseshoe Way	604-275-0585
OK Bottle Depot	8151 Capstan Way	604-244-0008
Ralph's Pick-n-Pull	12011 Mitchell Road	604-325-8323
Regional Recycling	13300 Vulcan Way	604-276-8270

NON HAZARDOUS MISCELLANEOUS ITEMS

Vancouver Landfill *	5400 72nd Street, Delta	604-873-7000
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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
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

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