

Submitted to: British Columbia Ministry of Environment & Climate Change Strategy

Director, Extended Producer Responsibility Programs

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At a Glance



"what did you do with your last phone?"

consumer diversion from landfill (96%)

REUSE & RECYCLE (43%)

Nearly half of respondents chose forms of reuse or recycling for their previous device. Top methods included: giving away device; recycling, as a deliberate choice; return or trade-in to carrier; repurposing the device (e.g. using it as an alarm clock); and selling the device.

STORED AWAY (53%)

Respondents who reported storing their last device.

other (3%)

Respondents who were unsure, and devices that cannot be accounted for.

trash (1%)

Respondents who put their last device in the trash.

drop-off locations across British Columbia

+ postage paid mail-back



were aware that cell phones can be recycled

were aware of any cell phone recycling programs



recovery

36,630 devices recovered in 2019*

1,216,073

devices recovered since 2005*

* RMC + OTHER MEMBER INITIATIVES AS OF DEC 31, 2019 ** DUE TO ROUNDING, CHARTS MAY NOT ADD UP TO 100%



1. Executive Summary

Products within plan

Mobile devices that were primarily manufactured to connect to a cellular or paging network.

Program website

Recycle My Cell – www.recyclemycell.ca

Recycling Regulation Reference	Summary (5-bullet maximum)
Part 2, section 8(2)(a) Public Education Materials and Strategies Refer to Section 3 for details.	 Joint BC steward initiatives (including Recyclepedia, BC Recycles website, events, and BC Recycling pamphlet). Outreach to depots and local governments. Events, including sponsorship of events (Coast Waste Management Association conference), implementation of Recycle My Cell Earth Month Challenge. Continued use of Google and Facebook ads, social media presence, press releases highlighting latest developments regarding RMC.
Part 2, section 8(2)(b) Collection System and Facilities Refer to Section 4 for details.	 In 2019, there were 265 permanent drop-off locations (23 of 29 Regional Districts) as of December 31st. Net decrease of 15 locations. 231 carrier return-to-retail; 34 RMC branded (third-party and depots). Participating locations included in the RMC database collect all devices regardless of make, model or condition in order to provide consumers with the convenience that they seek. RMC offers a free mail-back option which allows any consumer with access to Canada Post services the ability to return their devices.
Part 2, section 8(2)(c) Product Environmental Impact Reduction, Reusability and Recyclability Refer to Section 5 for details.	 The trend toward multi-functional devices which eliminate the need for multiple individual devices has continued within the wireless industry. Program members use certified third-party processors to manage their materials. Product Management – auditor review of processor standards and data to verify accuracy.
Part 2, section 8(2)(d) Pollution Prevention Hierarchy and Product / Component Management Refer to Section 6 for details.	 Of the volume of cellular devices audited, 79% were sent for reuse and 21% were sent for recycling. While it is understood that reuse is the preferred method for dealing with recovered product, in the case of wireless devices, the amount of product that can be refurbished for reuse is dependent on many factors that are not controllable. These factors include the condition of the phone at time of recovery and the technology that is required for its use. Carriers encourage reuse of devices through initiatives such as trade-in and upgrade programs.
Part 2, section 8(2)(e) Product Sold and Collected and Recovery Rate	 Product sold – 249,730 (estimated) Product collected (all initiatives) – 36,630(estimated).
Refer to Section 7 for details.	

Recycling Regulation Reference	Summary (5-bullet maximum)
Part 2, section 8(2)(e.1)	Not applicable to Recycle My Cell.
Part 2, section 8(2)(f)	Not applicable to Recycle My Cell.
Summary of Deposits, Refunds, Revenues and Expenses	

Comparison of Key Performance Targets							
Part 2 s	Part 2 section 8(2)(g); See full list of targets in Plan Performance						
Priority Stewardship Plan Targets (as agreed with ministry file lead)	Performance (2019 Results)	Strategies for Improvement					
Increase awareness of cell phone recycling nationally to 80% by 2015.	Awareness of cell phone recycling: 81% nationally; 83% in BC. Awareness of cell phone recycling programs: 41% nationally; 49% in BC. Refer to Section 9 for details.	CWTA will: continue to use the strategies outlined in this Annual Report, including working with BC Stewards on joint initiatives. increase the number of third-party locations in the collection network. outreach to municipalities and regional districts.					
100% customer satisfaction with the Recycle My Cell program (nationally).	79%* of those who recycled their device reported being satisfied with the experience. *awarding a score of 5 (as the minimum) out of 7. National data.	 CWTA will continue: to identify multiple methods by which a consumer may recycle their device (drop-off locations and mail-back). to incorporate additional mechanisms (i.e. depot) into its collection network. to work with its members and participating organize actions to ensure that identified issues are addressed. 					

2. Overview

The Canadian wireless telecommunications industry, under the auspices of the Canadian Wireless Telecommunications Association's (CWTA) Recycling Committee, operates Recycle My Cell (RMC), a free national cellular phone recycling program. The members of CWTA include, among others, wireless service providers, wireless handset manufacturers and processors.

Recycle My Cell has served as the cell phone recycling stewardship program in British Columbia since its formal regulatory approval in the province on November 10, 2009.

This report has been prepared by CWTA and is submitted on behalf of the following stewards:

- Bell (including The Source and Virgin Mobile);
- Freedom Mobile; and
- Rogers Communications (including FIDO and Rogers Wireless).¹

Samsung Electronics Canada Inc. participated voluntarily in Recycle My Cell.

3. Public Education Materials and Strategies

RMC continues to work within the province to increase program awareness and usage.

Consumer Engagement²

2019 Recycle My Cell Earth Month Challenge

The Recycle My Cell Earth Month Challenge was launched in 2017. The Challenge allows schools throughout Canada to register for an opportunity to win up to \$1,000. In 2019, British Columbia had 21 schools register, with Sun Peaks Education Society being crowned the provincial winner for British Columbia.

CWTA partnered with RCBC to ensure that successful outreach with BC schools occurred.

2019 Product of the Month Contest

CWTA collaborated with Regional Recycling to host a Product of The Month Contest. The goal of the Product of the Month Contest was to educate consumers on cell phones; how they are recycled, where they can be recycled, the benefits of recycling them, and more.

The contest ran from November 1, 2019 to December 14, 2019 and was promoted using traditional media such as posters and depot interactions, as well as social media.

Participants had the chance to win one of three \$500 gift cards in a random draw. There were 457 devices entered for this contest from all 8 Regional Recycling depots in British Columbia.

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¹ See Appendix A for program specifics for member initiatives.

² See Appendix B for Samples.

Social media

CWTA maintains a Facebook page and a Twitter account for the promotion of the Recycle My Cell program. RMC's Facebook page is used to provide timely information, promote cell phone recycling in general, as well as support various events in which RMC is a participant. CWTA also engages consumers via its @recyclemycell Twitter account.

In 2019, RMC's Facebook Page had 16,164 "Likes" (compared to 10,475 in 2018) and Twitter Account had 603 followers (compared to 570 in 2018).

RMC website

CWTA maintains a mobile friendly website (www.recyclemycell.ca and www.recyclemoncell.ca) that serves as a central hub for the program. The website is routinely updated to ensure accuracy. The site continues to provide information including drop-off locations, steps to remove personal information from devices prior to recycling them, as well as a link to mail-back options.

In 2019, the RMC website had 134,325 pageviews and 48,453 sessions nationally, as reported by Google Analytics.³ There were 5,229 database searches for recycling locations in BC (based on defined criteria entered at time of search).

Designated email address and toll-free number
 Consumers with additional questions about the program are encouraged to contact RMC representatives: via email (info@recyclemycell.ca / info@recyclemoncell.ca) or via a toll-free number (1-888-797-1740).

Paid advertising

The majority of CWTA's advertising efforts continue to focus on alternate advertising methods, such as Google and Facebook ads. These options offer a more targeted approach to providing information to those searching for it on-line.

Google (internet searches) are identified as one of the most popular ways that consumers will seek out additional information concerning cell phone recycling.

Stakeholder Engagement⁴

Stakeholder relations

CWTA continues to be an active participant within the Stewardship Agencies of BC (SABC), including serving on various work groups.

This joint initiative of the BC Stewards provides information to BC residents concerning all approved programs within the province through vehicles like BCrecycles.ca, the RCBC Recyclepedia and app, as well as British Columbia's Recycling Pamphlet.

SABC also works with BC Product Stewardship Council on areas of common interest.

³ Pageviews is the total number of pages viewed. A session (aka visits) is the period of time a user is actively engaged with the website. A single session can contain multiple screen or page views.

⁴ See Appendix C for Samples.

• Targeted Mail-out

CWTA developed targeted mail-outs, which included maps showing accessibility of locations, which were sent to Regional Districts to inform them of the program, and to encourage their participation.

• Targeted stakeholder outreach

CWTA sponsored the Coast Waste Management Association (CWMA) Annual Conference in Victoria, and participated in the organized stakeholder roundtable meetings.

Recycle My Cell branded program

Third-party locations, such as municipal waste depots, not-for-profit organizations, and other parties not affiliated with current RMC members, are encouraged to serve as drop-off locations simply by registering with CWTA.

There are currently 34 RMC branded drop-off locations in BC; the majority of these are depots. This is a net increase of 6 RMC branded locations.

• Promotional materials

CWTA continues to provide RMC promotional materials (brochures, table cards, and posters) to third-party locations (municipal and community sites that wish to support the Recycle My Cell recovery program, at dealer sites, and non-affiliated retailers that do not run their own program) wherever such materials may be requested.

Stakeholder promotion and third-party websites

Recycle My Cell continues to receive positive support within the province from relevant waste management stakeholders (including RCBC and various third-party locations). RMC information is included on their websites where feasible. In addition, third party locations are also offered a digital copy of the RMC logo and poster, as well as a short news bulletin about their involvement in the program.

Paid advertising

CWTA used Municipal Information Network as a mechanism to inform municipalities of the program.

Media Engagement⁵

Press releases

CWTA develops and distributes both targeted and national press releases to coincide with activities RMC participates in. For example, an announcement regarding the 10 year anniversary of the Recycle My Cell Program was made in 2019.

Editorial content and subject matter expertise

CWTA responds to all requests for interviews or supplemental information as it relates to cell phone recycling or reuse.

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⁵ See Appendix D for Samples.

Member Engagement⁶

- Promotional materials and websites
 Participating carriers continue to have marketing plans in place that support their various initiatives, including those for trade-in or upgrades.
- Staff training
 Carriers continue to foster program awareness internally with their staff so that they are able to provide accurate information to their customers.

4. Collection System and Facilities

4.1 Drop-off locations

In 2019, there were 265 permanent drop-off locations (in 23 of 29 Regional Districts) across British Columbia. This is a net decrease of 15 location over 2019.

Return-to-retail continues to be the primary model for collection drop-off sites. It is felt that the most effective method for cell phone recovery is simply dropping off an existing device(s) when a new one is purchased. However, there was also positive growth in the number of depots interested in supporting the program.



4.2 Mail-back

In instances where a drop-off location is

not available, RMC offers a mail-back option which allows any consumer in the province – with access to Canada Post service – the ability to conveniently and easily return their devices and accessories at no cost to themselves.

5. Product Environmental Impact Reduction, Reusability and Recyclability

5.1 Handset manufacturers and improving product life cycle management

Handset manufacturers continue their efforts to eliminate or to reduce the environmental impacts of a product throughout its life cycle.

Handset manufacturers work to design devices that continue to meet consumer expectations. Consumers, through their shopping habits, have made it clear that they are interested in increased functionality that gives them the ability to substitute one device for many.

⁶ See Appendix E for Samples.

⁷ See Appendix F for list of locations.

The multi-functionality of devices allows consumers to purchase only one item that provides multiple services in addition to the one the device is primarily used for – for instance the ability to access the internet, play music and take photos with a smartphone – that relieves the need to manufacture individual devices. These devices also tend to be smaller and more efficient than their individual counterparts.

Handset manufacturers are aware of the impacts the manufacturing process can have on the environment and, in the process of product development and manufacturing, have innovated to find ways to mitigate this impact and reduce waste overall. Many processes encourage circular thinking in order to optimize the use of resources. By working to ensure that resources can be reused by recovering, reusing and recycling after the product's lifespan, manufacturers are also decreasing a reliance on raw materials.

Sustainability has become an integral part of the handset manufacturing process because sustainability has shown to make good business sense.

5.2 Processor members and certifications

All of the processors involved with the RMC program in BC hold multiple certifications, including ISO, R2 and/or verification under Electronic Products Recycling Association's (EPRA) Recycling Vendor Qualification Program (RVQP).

6. Pollution Prevention Hierarchy and Product / Component Management

Section 7.2 identifies the volume of cellular devices collected through the RMC programs as 36,630 devices. Of the volume of cellular devices audited, 78% were sent for reuse and 22% were sent for recycling.⁸

Devices that have been identified for reuse are not audited; components that have a market or value are not likely to end up in landfill. In scope for the audit are devices that have been identified for "recycle".

Recycled devices that were audited flowed through processors that hold valid certifications: 87% of devices flowed through processors that have been verified to the RQP, and the remaining 13% flowed through processors that have been certified to the R2 standard.

Reuse: While it is understood that reuse is the preferred method for dealing with recovered product, in the case of wireless devices the amount of product that can be reused is dependent on many factors that are not controllable. These factors include the condition of the phone at time of recovery and the technology that is required for its use. As such, to reintroduce phones into the market that do not meet those criteria or that are not supported on technology in a given market do more harm than good. For this reason, phones that do not meet reuse criteria will continue to be sent for responsible recycling.

Devices that are deemed reusable have their data wiped and are sold via auction to third-parties. These phones may be commingled with devices collected via non-program participants.

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⁸ This represents all devices recovered in BC.

Carriers do encourage the reuse of devices through initiatives such as trade-in and upgrade programs. In 2019, some carriers implemented programs that allow consumers to pay less money upfront when they sign a contract and agree to return their device at the end of their term, or pay a predetermined fee to keep the handset. This new business model ensures that devices are returned to the carrier.

In addition, many carriers also have specific plans and incentives for consumers that already have devices and "bring" them when they switch their service provider. These "Bring Your Own Device" programs encourage consumers to reuse devices they already own.

Recycle: Devices destined for recycling are handled based on the general practices of the primary processor. In all instances the batteries are removed from the device and the remaining material is either further dismantled, or shredded in entirety (minus the backing), before being sent to approved downstream processors.

Once the material reaches its downstream processor it can either be separated further into its various components and consolidated with other like materials and sent further downstream, or sent in its original shredded state to be smelted.

The material from RMC participating programs may be commingled with other non-program materials. Commingling of materials occurs often in order to gain efficiencies for shipping purposes, and to ensure viable and competitive pricing for materials. This is a standard business practice employed by processors.

In order to validate data concerning end-fate of materials, the RQP and ERS must be used in conjunction with processor "mass balancing" to bring reliance. The mass balance exercise identifies the amount of material received by the processors and the resulting materials and their subsequent downstream processors. Information for the mass balance reporting is provided directly by the processors.

As noted, devices have value whether they are sent for reuse and sold as working devices, or shredded and sold for precious metal recovery. Each stream has legitimate and robust markets for the materials and processors have a monetary incentive to ensure that the material ends up where it is intended to.

In 2019, processors used to recycle RMC materials were either directly contracted RQP-verified primary processors, or R2 certified processors contracted by third-party vendors.

Table 1: RQP-verified primary processors

Material / Component	% of Material Stream	Recycling Process Description - Processor A	Disposition ⁹
Metal Dusts ¹⁰	2.16%	Dust from the plant is gathered by dust machines. Dust pucks made from dust created within plant is sent downstream for precious metal recovery. This process is not exclusive to dust from cell phones.	Refining
Other (Mixed Metals)	97.84%	Phones destined for recycling are shredded and sent downstream for precious metal recovery.	Refining
	100.00%		

Material / Component	% of Material Stream	Recycling Process Description - Processor B	Disposition
Copper Bearing Material	6.06%	Material from cell phones and accessories is aggregated, shredded or sent down stream for copper recovery. The specific process will depend on which downstream processor is used. (Not exclusive to cell phones, may include some accessories.)	Processing
HG Circuit Boards	93.94%	Circuit boards are manually separated from cell phones and shipped for further processing (shredding or smelting). The specific process will depend on which downstream processor is used.	Refining
	100%		

Table 1 identifies the components and the processing end-fates for the 87% (of the 21% of material destined for recycling) sent to RQP-verified primary processors. ¹¹ This material has been audited. The remaining 13% (of the 21% of material destined for recycling) was sent to an R2 primary processor.

The percent of material stream presented above is based on Mass Balance reports for RMC material handled at a national level. For the purposes of clarity, the third-party audit cannot confirm that material specifically recovered via RMC was sent to the various processing end-fates. Once the material is separated and/or shredded it can no longer be tracked as belonging specifically to RMC. While it is possible to confirm the volumes that were received, and to trace the volumes of material that were sent to their respective downstream processors as an aggregate, it is not possible to attribute specific volumes to a respective program.

Based on data provided by the primary processor all elements of suggest that the commingled RMC material is dealt with in the manner that is identified.

⁹ The disposition description comes from RQP-approved downstream flow documents.

¹⁰ The volume of metal dusts that is attributable to cell phones cannot be separated from the full total, however regardless of where the dust originates from (i.e. material type), it is all dealt with using the same industry approved processes.

¹¹ See Appendix G for a chart identifying acceptable processes and end-fates.

Table 2: RQP-verified primary processors

(% of compo	Component (% of component sold/transferred for processing that is treated under each processing pathway) Processor A						
	Transfer to direct processor in BC	Transfer to direct processor elsewhere in North America	Transfer to direct processor outside North America	Multi-step processing in BC	Multi-step processing elsewhere in North America	Multi-step processing outside North America	
Dust					100%		
Other						100%	

Component (% of component sold/transferred for processing that is treated under each processing pathway) Processor B							
	Transfer to direct processor in BC	Transfer to direct processor elsewhere in North America	Transfer to direct processor outside North America	Multi-step processing in BC	Multi-step processing elsewhere in North America	Multi-step processing outside North America	
Copper Bearing Material					100%		
HG Circuit Boards					100%		

Table 2 identifies the components and the verified processing pathway for the primary processors.

Based on data provided by the primary processors, all elements suggest that the commingled RMC material is dealt with in the manner that is identified.

Table 3: RQP-verified primary processors

Estimated Conformance Levels – Processor A and B ¹						
	Reuse	Recycle	Recycle: Metal Recovery	Landfill	Other Waste Disposal	
Metal Dusts			100%			
Copper Bearing Material			100%			
HG Circuit Boards			100%			
Mixed Metals			100%			

Table 3 identifies the estimated conformance levels for the primary processors.

Note:

¹ All material collected via RMC is commingled with other similar material types before being sent to secondary processing streams. It is impossible to verify the exact contents of material streams at this point; therefore the conformance levels are estimations. However, based on data provided by

- the primary processors, all elements of the RQP audit process suggest that the commingled RMC material is dealt with in the manner that is identified.
- Some of the material (aluminum, plastic, and steel) captured in 'other' may be recycled before metal recovery occurs.

Since RMC material is commingled at the primary processors, and not tracked independently, the estimated conformance level is based on CWTA's understanding of the various processes employed by each primary processor and their downstream processors.

7. Product Sold and Collected and Recovery Rate

7.1 Product sold

For the purpose of annual reports, "Product Sold" is the estimated number of all mobile devices attributed to CWTA manufacturer members¹² that are *distributed* into BC by identified stewards. Data collected for CWTA does not track inter-store (nation-wide) transfers, or what happens to unsold products, etc. Estimates are included where actual data is not available.

In 2019, a total of 249,730 devices were reported as having been distributed into BC. This total includes devices sent directly into a province and devices sent to distribution centres:

- 232,548 are estimated to have been directly distributed to locations within the province that were affiliated participating carrier locations. This includes the carrier's corporate stores, sales directly to a customer (Web and phone), as well as third-party retailers.
- 17,182 are estimated to have been shipped into BC from distribution centres for various thirdparty retailers. It is difficult to determine an actual quantity for this category since the thirdparty does not provide that information to the carrier.

It is important to note that this quantity does not reflect the actual quantity that was sold to an end user, or that might become available for collection in the future.

7.2 Volume of cellular devices collected

Devices collected by members

RMC data represents the results of consumer facing recovery initiatives that collect devices that are considered to be at the end of their useful life, as well as devices collected through trade-in or upgrade programs. These devices are collected via return-to-retail and participating third-party locations.

RMC members' also recover devices that are returned to them for a variety of reasons including buyer's remorse or damage; this data is captured under the category of "Other Member Initiatives".

In 2019, participating RMC members collected 36,630 devices.

¹² Data provided in this report is exclusive to product distributed by manufacturers that are members of CWTA, and as such is a subset of the total devices that are distributed in to the province. Data concerning devices made by OEMs that <u>are not members</u> of CWTA are not included in this report. (It is expected that this data may be reported by other proponents.)

This data is reported to by a third-party that has been secured for the purpose of aggregating information provided to it by carriers; this is done in order to maintain confidentiality.

The volume of cellular devices "collected" is the estimated sum total of all Program Products collected by a permanent collection facility.

Quantification of Product Collected is based on:

- Reports generated by the Processors/Consolidation Centres and potentially Reverse Logistics
 Centres/Warehouses Collection Facilities during the Reporting Period and include delineation of
 products by province of origin to the carriers or CWTA directly for some parts of the program.
 - These reports are generated from their individual inventory programs for the Reporting Period.
 - Consolidated values for each product category are reported by quantity and end fate (whether reused or recycled) per product type.
- Internal carrier collection programs (e.g., trade-ins, warranty repairs, etc.).

Products Collected from unknown origin are accounted for using either an estimate based on products returned that are of known origin, or attributed to the province in which the Carrier is headquartered. In the instance where amount is estimated the following process is used:

- The amount of material collected from known origins is determined for each province. An
 aggregate total is also determined for Canada. Based on this information, the percentage of
 product recovered specifically from BC is determined. For example, if 12 devices were recovered
 from BC and a total of 100 devices were collected nationally, the percentage coming from BC
 would equal 12%.
- The amount of material collected from unknown origin (where boxes are received at Processors/Consolidation Centres without a unique identifying number, or those collected via mail-back) are aggregated into a total quantity received. The known percentage (in this case 12%) would then be attributed to the aggregate of unknown origin to determine the estimate of what may have originated from BC.

RMC data represents the results of consumer facing recovery initiatives that collect devices that are considered to be at the end of their useful life, as well as devices collected through Trade-in or Upgrade programs. These devices are collected via return-to-retail and participating third-party locations.

Programs included in this category in 2019 were:

- Bell (includes Virgin Mobile):
 - o Bell Blue Box
 - Bell Trade-in Program
- Freedom Mobile:
 - o Freedom Mobile Trade-in
- Fido:
 - o FidoTRADE
- Rogers:
 - o Rogers Recycling Program (Formerly Phones for Food)
 - o Rogers Trade Up Program
- The Source:
 - The Source Trade-up Program

In addition, phones collected through RMC third-party locations are also accounted for here.

An estimated allocation has been made for each Regional District; where data is provided as a breakdown it is included.¹³

Devices collected by other programs

There are many not for profit organizations across the country that actively encourage Canadians to donate unwanted mobile devices in order to generate funds from recycling and reusing the devices. In addition, there are also 'for profit' ventures that collect phones by providing incentive – either directly to consumers or to their collectors – to do so. Data from these initiatives is not available.

7.3 Recovery rate

Reporting on a recovery rate is not applicable per the currently approved product stewardship plan.

8. Summary of Deposits, Refunds, Revenues and Expenditures

This section is not applicable to Recycle My Cell.

9. Plan Performance

9.1 Targets

Plan Target	2019 Results	Strategies for Improvement
Increase awareness of cell phone recycling nationally to 80% by 2015	Awareness of cell phone recycling: 81% nationally; 83% in BC. 14 Awareness of cell phone recycling programs: 41% nationally; 49% in BC. 15 BC continues to trend higher than national in terms of cell phone recycling awareness.	CWTA will: continue to use the strategies outlined in this Annual Report, including working with BC Stewards on joint initiatives. increase the number of third-party locations in the collection network. outreach to municipalities and RDs.
100% customer satisfaction with the Recycle My Cell program (nationally)	79%* of those who recycled their device reported being satisfied with the experience. *awarding a score of 5 (as the minimum) out of 7. National data.	 CWTA will continue: to identify multiple methods by which a consumer may recycle their device (drop-off locations and mail-back). to incorporate additional mechanisms (i.e. depot) into its collection network. to work with its members and participating organizations to ensure that identified issues are addressed.

The performance indicators and targets noted above are not included in the audit.

¹³ See Appendix H for estimated recovery in Regional Districts.

¹⁴ Respondents were asked if they were aware that cell phones could be recycled.

¹⁵ In keeping with previous years, respondents were asked if they were aware of any specific recycling programs.

9.2 Consumer Awareness

Annual Recycling Study 2019

CWTA has commissioned an Annual National Cell Phone Recycling Study (Study) since 2009. The purpose of this market research survey is to gauge behaviours, attitudes and public awareness related to cell phone recycling and old mobile devices.

The methodology of the study, at the direction of the CWTA, was transitioned in 2018 to a full online survey (with telephone only in PEI), while previous waves were mixed mode, half online and half by RDD dual frame (land- and cell lines) telephone sample. The sample size remains large, at 3,000 respondents nationally, and 300 in British Columbia.

Recycling in General

96% of BC respondents support or somewhat support cell phone recycling.

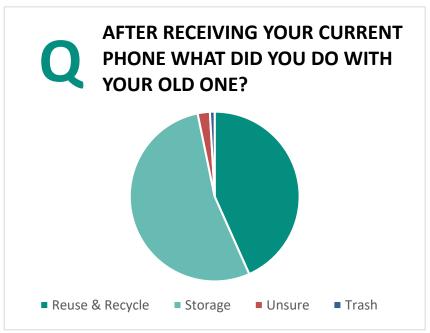
This year, the survey asked all respondents what products, materials, or other items come to mind when they think about recycling. The top responses included traditional, everyday recyclables such as paper/newspapers (26%), plastic/plastic bottles (26%), and glass (15%). Electronics (and batteries) as a whole were mentioned by 2% of respondents.¹⁶

Consumer Diversion from Landfill as a Model for Consumer Behaviour

Many consumers participate in reuse and recycling activities without being consciously aware of this behaviour.

The term "recycling" is complicated and often misunderstood. Cell phones are *sold* or *traded-in*, and even when used for a new purpose by the consumer or given to someone else, are not considered to be reused.

Consumers don't necessarily recognize certain behaviours as recycling, especially when they



aren't specifically identified as such. Because consumers don't necessarily see how these activities fit their definition of recycling, they don't see cell phones as part of the traditional recycling equation.

Using Consumer Diversion from Landfill (CDL) to explain consumer behaviours related to end-of-life management of cell phones helps identify the various ways that unwanted devices are dealt with. In this instance, end-of-life simply refers to a consumer no longer actively using the device in question for its intended use.

CDL can be separated into two main categories: Storage, and Reuse & Recycle.

¹⁶ National numbers. Question: [Open-ended] When you think about recycling, what products, materials, or items come to mind?

Storage:

In BC, 53% of survey respondents reported storing their last device upon receiving their current one.

When asked if they had <u>any</u> cell phones in storage, 75% of BC respondents reported that they did. On average, they reported storing 2devices.

Reuse & Recycle:

Nearly half (43%) of respondents chose forms of reuse or recycling for their previous device. Top methods included: giving away device (13%); return or trade-in to carrier (8%); recycling, as a deliberate choice (5%); returning to a retailer (5%); selling the device (5%); using it for other purposes, e.g. alarm clock (3%); and donate to charity (2%).

Overall, very few British Columbians reported throwing their previous wireless device in the garbage (1%). The Study shows 96% of British Columbians diverted their last device from landfills, while 3% could not recall what happened to their previous device.

Consumer Perception & Awareness

BC respondents report a high level of awareness that cell phones can be recycled (83%). Forty-nine (49%) of respondents reported being aware of a recycling program for cell phones. When asked if they had heard of the Recycle My Cell program specifically, 11% of those aware of programs reported they had.

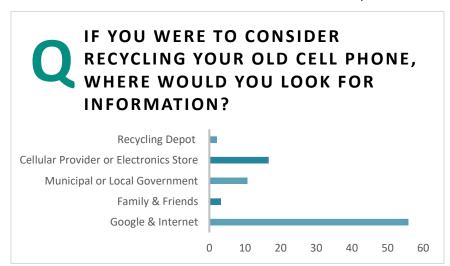
Interestingly, when asked if they were aware that most cell phone carriers have trade-in or programs that allow them to upgrade their cell phone, 79% of British Columbians respondents reported that they were. Of those who were aware of such programs, 83 % reported being aware that cell phones received through trade-in and upgrade programs were recycled or reused.

Information Search

Cell phone "recycling" is not an everyday occurrence, as are other types of recycling, so it does not form a habit in the day-to-day life of a consumer. In order to better understand consumer behaviour,

respondents were also asked where they would look for information if they were to consider recycling their cell phone.

56% of British Columbians would search the Internet (including referring to Social Media), while 16% would refer to their cellular service provider or an electronics retailer, as well as contacting municipal or local governments (11%).



As noted in Section 3, RMC utilizes both Google and Facebook ads, as well as stakeholder relationships and outreach, to facilitate the information gathering processes that a consumer will undergo when they are ready to recycle their device.

10. Conclusion

CWTA and its members remain committed to the RMC program and its growth within the province.

RMC members continue to make enhancements to their programs in order to increase usage amongst consumers and to minimize the impact of their product at the end-of-life.

CWTA believes that working together – with BC Ministry of Environment & Climate Change Strategy, BC residents and other stakeholders – will ensure continued success.

Appendix A

Program Specifics for Member Initiatives

Steward	Program	Location	Devices Accepted	Consumer Incentive
	Bell: Blue Box	Accepted at any Bell Aliant or Bell store, The Source locations, Virgin Mobile stores and participating dealer locations. Mail-back label available on website.	All mobile devices as defined by this program from any manufacturer or carrier. Generally \$0-value devices.	Net proceeds from the program to support Canadian mental health initiatives.
Bell	Bell: Bell Trade-in Program	Accepted at any Bell Aliant or Bell store, Virgin Mobile stores and participating dealer locations.	All mobile devices as defined by this program from any manufacturer or carrier.	Trade-in value to customer.
	The Source: The Source Trade-up Program	Accepted at all participating locations.	All mobile devices as defined by this program from any manufacturer or carrier.	Trade-in value to customer.
	Virgin Mobile: Recycle Me	Accepted at all participating locations, or via mail-in.	All mobile devices as defined by this program from any manufacturer or carrier.	Net proceeds from the program to support Canadian mental health
	Virgin Mobile: Trade-in Program	Accepted at all participating locations.	Generally \$0-value devices. All mobile devices as defined by this program from any manufacturer or carrier.	initiatives. Trade-in value to customer.
Freedom Mobile	Freedom Mobile Trade-in	Accepted at all participating locations.	All mobile devices as defined by this program from any manufacturer or carrier.	Trade-in value to customer.
	Fido: FidoTRADE	Accepted at all participating locations.	All mobile devices as defined by this program from any manufacturer or carrier.	Trade-in value to customer.
Rogers	Rogers Recycling Program	Accepted at all participating locations.	All mobile devices as defined by this program from any manufacturer or carrier. Generally \$0-value devices.	
	Rogers: Trade Up Program	Accepted at all participating locations.	All mobile devices as defined by this program from any manufacturer or carrier.	Trade-in value to customer.

Appendix B

Consumer Engagement

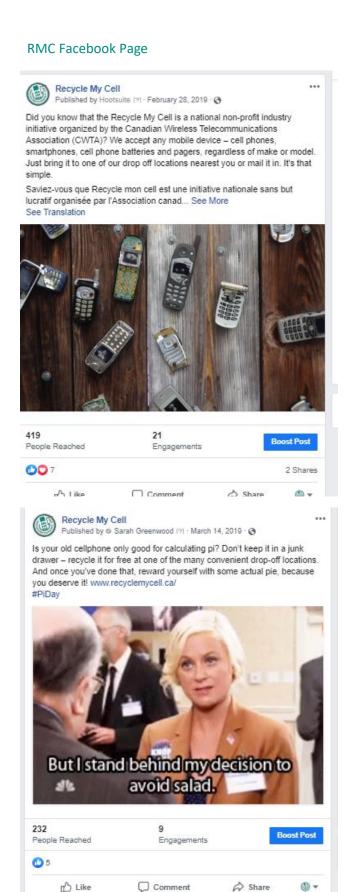
2019 Recycle My Cell Earth Month Challenge Facebook & Twitter Posts

RMC Twitter Page











RECYCLEMYCELL.CA

Earth Month Challenge Registration | Recycle My Cell

Earth Month Challenge Registration Earth Month Challenge Registration...

EARTH MONTH

4 452



Recycle My Cell

Published by @ Sarah Greenwood [7] - April 1, 2019 - 3

The Recycle My Cell Challenge officially begins today, but registration is still open for FIVE more days! Help your school make a difference this Earth Month and get recycling! #EarthMonth #EdChat #BCEd Recycling Council of British Columbia



CBC.CA

B.C recycling council challenges residents to turn in old phones | CBC News



Paid Advertising

Google Ad

About 4,440,000 results (0.60 seconds)

recyclemycell.ca - Recycle Your Cell

Ad www.recyclemycell.ca/ ▼ +1 888-797-1740

Recycle My Cell - Canada's National free mobile phone recycling program

Any condition accepted · Any brand accepted

Types: Pagers, Smartphones, Chargers, Mobile accessories

Drop-off Locations Delete Your Information

Contact Us FAQs



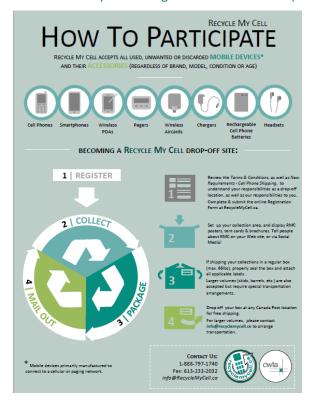
Appendix C

Stakeholder Engagement

Outreach – Regional Districts and Local Government (via CWMA Conference)



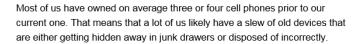
Outreach – Depots & Large Volume Collectors (via CWMA Conference)



Outreach - Promotional Materials (Digital Poster and template of news bulletin offered to RMC Branded locations)



[INSERT Town/Organization name] now part of the Recycle My Cell program





The [INSERT Town/Community/Org name] has joined Recycle My Cell, Canada's free cell phone recycling program, making it easy to dispose of your old devices responsibly. A drop off box is located at [INSERT location], where old wireless devices and their accessories will be accepted, regardless of brand or condition. After your device is received, it is sent to a processor where it can be refurbished or broken down and recycled.

"Thinking green doesn't need to be complicated, and keeping old cell phones out of our landfills couldn't be easier," says Bernard Lord, president & CEO of the Canadian Wireless Telecommunications Association. "I encourage all Canadians to take a few moments to reflect on some of the simple things they can do to help protect the environment for future generations."

Help [INSERT Town/City/Community] go green by dropping off your old cell phones! Accepted items include: cell phones, smartphones, wireless PDAs and pagers (as well as their batteries and accessories). For more information on the program, visit www.RecycleMyCell.ca.

Paid Advertising – Municipal Information Network

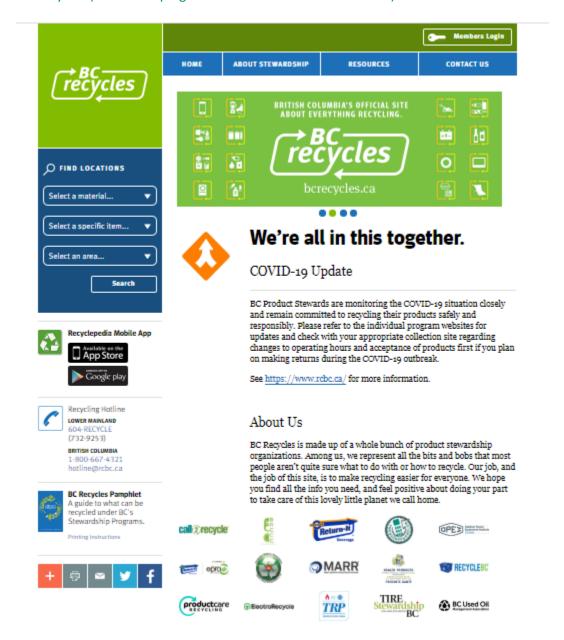


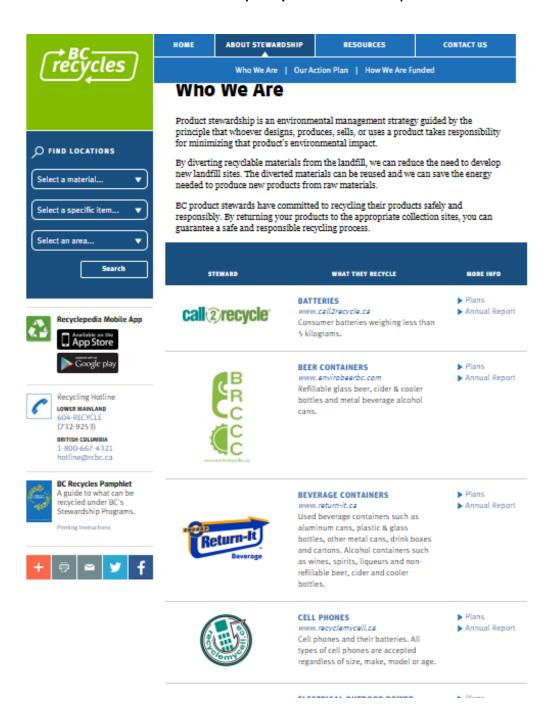


Paid Advertising – Municipal Leader



BC Recycles (Stewardship Agencies of British Columbia website)





BC Stewards Pamphlet





RCBC Social Media



000

1-888-797-1740 | info@recyclemycell.ca | 🕥 @recyclemycell | 🌎 Recycle My Cell

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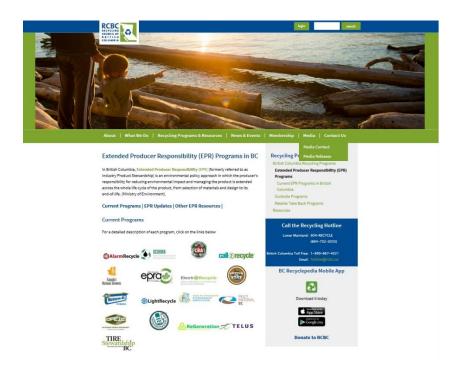


Tomorrow's THE LAST DAY to register for the @RecycleMyCell #EarthDay Challenge! You can win up to \$1000 for your school's green initiatives while ensuring old cell phones are properly recycled! http://ow.ly/fK0z30o71cE #bced #Recycle





RCBC Recyclepedia





What can I do with my old cell phone?

The CWTA's Recycle My Cell program is a province-wide, end-of-life recycling program for cell phones and accessories, available to all consumers and businesses in British Columbia. As of November 2009, you can drop off any of the regulated products at designated collection sites and be assured they will be recycled responsibly. Drop-off locations will accept cell phones, smartphones, wireless PDAs, batteries and pagers, as well as cords and accessories - regardless of brand or condition.

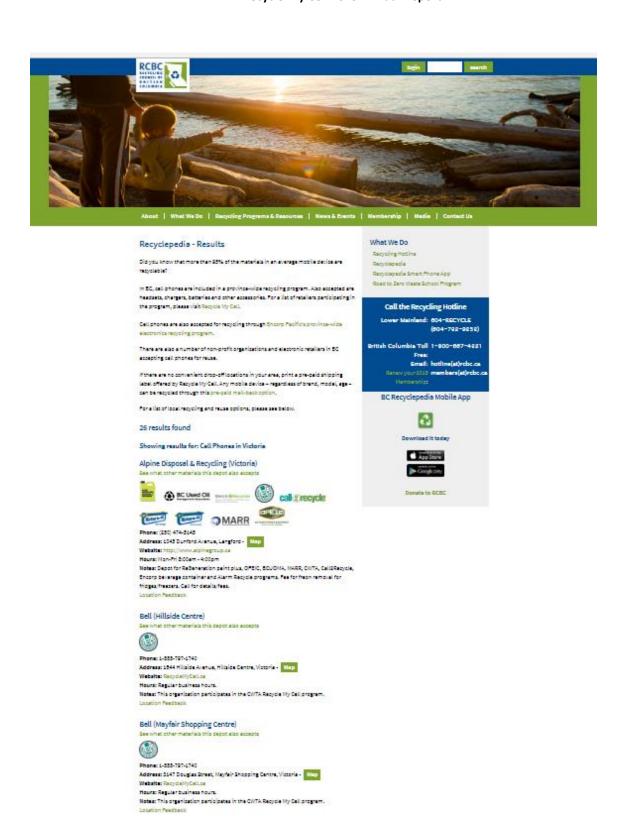


Visit the Recycle My Cell website or the RCBC Recyclepedia to find the nearest drop-off location for you old cell phone.

Back to Main FAQ's page



Join the Recycling Minute Email List



Appendix D

Media Engagement

10th Anniversary Press Release - CWTA

Recycle My Cell celebrates 10th anniversary, nears 7 million recovered devices

OTTAWA – June 26, 2019 – Recycle My Cell, a free cell phone recycling program run by the Canadian Wireless Telecommunications Association (CWTA) that has diverted millions of devices from landfills, is celebrating its 10th anniversary this week.

To mark the occasion, the CWTA released a new report today showing that increased awareness among consumers continues to bolster recycling across the nation. The CWTA says that 431,943 devices were recovered via the Recycle My Cell program in 2018, bringing the grand total of recycled or reused cell phones over the past decade to 6,985,325.

"The numbers clearly show consumers are interested in doing the right thing," said Robert Ghiz, President and CEO of the CWTA. "We're thrilled to have played such a significant part in encouraging more and more Canadians to recycle or reuse their old devices rather than throwing them in the trash or stuffing them in a drawer. Positive progress has been made over the past decade, and we're optimistic that trend will continue moving forward."

There are a few easy steps Canadians should follow when recycling an old device:

- Take the time to transfer your photos, your contacts and your calendars over from your old phone.
- Once you've done that, visit Recycle My Cell's bilingual website www.RecycleMyCell.ca or www.Recyclemoncell.ca –to get answers on how to erase personal information from your phone.
- While you're on the site, check to see where the nearest drop-off location is.
- · Head on over and recycle your old device!

"Responsibly dealing with old cell phones is a very simple process and we hope Canadians will continue doing their part to make a positive and lasting impact on the environment," added Ghiz. "With more than 2,800 drop-off locations across the country, there are plenty of options for people no matter where they live to properly dispose of their unused devices."

Other findings from the 2018 Understanding Cell Phone Recycling Behaviours survey include:

- An overwhelming majority of Canadians (97%) support or somewhat support cell phone
 recycling programs in some form. Over 80% of Canadians are aware cell phones can be
 recycled and would consider recycling their cell phones if they knew where to recycle them.
- 51% of Canadians chose a form of either recycling or reuse for a previous device in 2018.
- 68% of Canadians say they have cell phones in their possession that they are not using and are being stored, compared to 33% who say they don't.
- Nearly 9 in 10 (90%) Canadians personally have one cell phone that they actively use, while 9% actively use two cell phones, 1% use three cell phones and 0.4% use four cell phones or more.

The 2018 Understanding Cell phone Recycling Behaviours survey, commissioned by the Canadian Wireless Telecommunications Association, was completed by Nanos Research from December 2 to 19, 2018. The survey was conducted online among 3,000 Canadians with a personal cell phone. Participants in PEI were interviewed by telephone. The margin of error for the survey is ±1.8 percentage points, 19 times out of 20.

Canadian Cell Phone Recycling Facts

- 431,943 wireless devices were recovered in 2018; of this, 304,027 were reused and 127,916 were recycled.
- 6,985,325 wireless devices have been recovered since 2009.
- 2,665 drop-off locations across Canada.

Host a Recycle My Cell Drop-off Location Year-Round

Municipalities, recycling depots, businesses and community organizations across the country can support the Recycle My Cell program by hosting a drop-off location year-round. Registration is quick and easy, and pre-paid shipping and promotional materials are provided at no cost. For more information, please visit www.recyclemycell.ca/host-a-drop-off-location/ or contact info@RecycleMyCell.ca.

About Recycle My Cell

Recycle My Cell is Canada's national recycling program for mobile phones and accessories. The bilingual website – www.RecycleMyCell.ca or www.RecycleMyCell.ca or www.Recyclemoncell.ca – allows consumers to simply enter their location to find the drop-off locations closest to them where their devices will be accepted, regardless of brand or condition. The free program is run by the Canadian Wireless Telecommunications Association (CWTA), in conjunction with cell phone carriers, handset manufacturers and approved processors, who have come together to raise awareness about the importance of cell phone recycling.

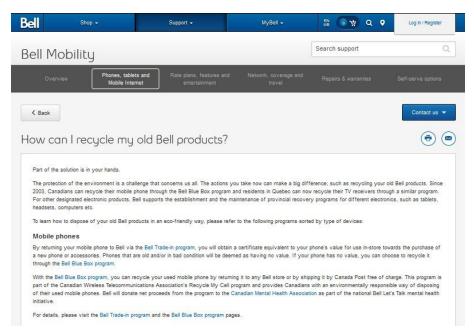
About CWTA

The Canadian Wireless Telecommunications Association (CWTA) is the authority on wireless issues, developments and trends in Canada. It represents companies that provide services and products across the wireless sector. Representing the industry before all levels of government and various regulatory agencies, CWTA actively promotes the industry with the goal of ensuring continued growth of the wireless sector in Canada. CWTA administers a number of initiatives on behalf of its members, including corporate social responsibility programs and the national common short codes program.

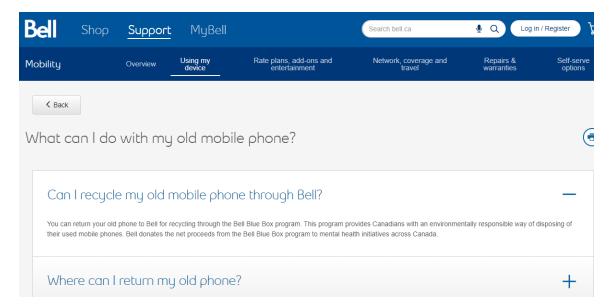
Appendix E

Member Engagement

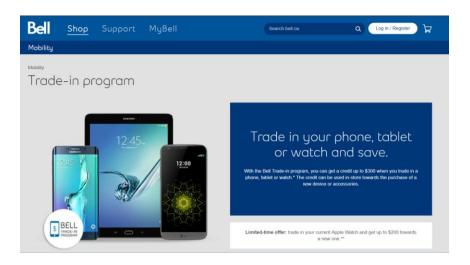
Bell

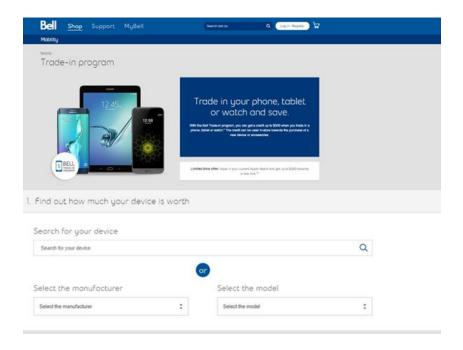


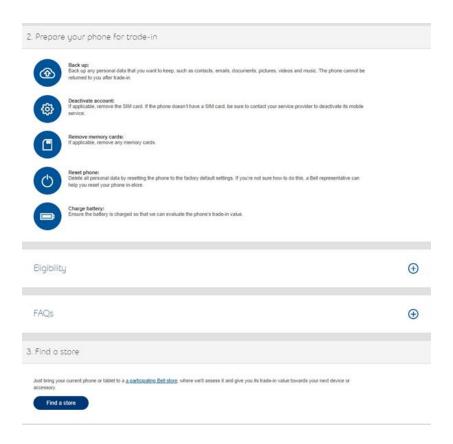
Bell: Bell blue box



Bell: Bell Trade-in







The Source: The Source Trade-up



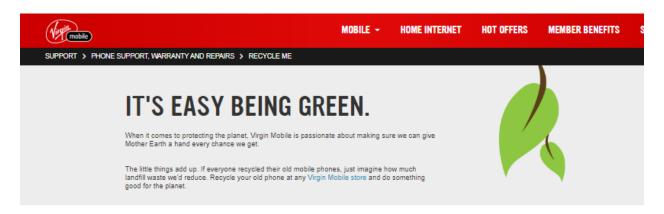
Trade in and get new tech

Bring your current device to any The Source store and we'll give you a Gift Card equal to the current trade-in value—worth up to \$850. Your Gift Card can be used in-store towards your new phone, or just about any other tech including laptops, smart home or headphones. Find the new tech you want today!

Here's how you can prepare for a quick and easy trade:

- You must be 18 or older, and be the legal owner of the device you're trading in-you may be asked to present a valid form of photo I.D. to prove your age
- 2. Back up your contacts, photos, apps, files, music, info, etc., so you don't lose them
- 3. Perform a factory reset to ensure that none of your personal files are left on the device
- Disable iCloud and Find My Phone features-if you don't disconnect these services, your device will be reimbursed at \$0
- Please bring your device's battery and/or charging cable, as it may impact the trade-in value of your device
- 6. Once you trade your device in, it is final-you will not be able to get the device back once the trade in is complete

Virgin Mobile: Virgin Mobile Recycle



WHAT SHOULD I DO BEFORE RECYCLING MY OLD PHONE?

Before you send your phone off for recycling, here's a few things you'll need to do:

- Cancel your mobile service and pay your final bill in full or transfer your mobile service to your new phone. You can use the free Cell Phone Data Eraser by Recycle My Cell to help clear your data.
- · Erase any personal information from your device, including text messages, contacts and personal files.
- Remove your SIM Card (if there's one).

WHERE CAN I RETURN MY OLD PHONE?

You have 2 options to recycle your old phone in an environmentally safe way and get one step closer to a cleaner world:

- 1. Visit a Virgin Mobile Store
- No matter what brand or company your phone is from, you can head to any Virgin Mobile store and drop it off with a Virgin Mobile sales rep. You can also return accessories like headsets, chargers and old batteries.
- 2. Mail it in (It's free!)

You can send your old mobile phone, batteries and accessories by Canada Post free of charge. Here's how to do it.

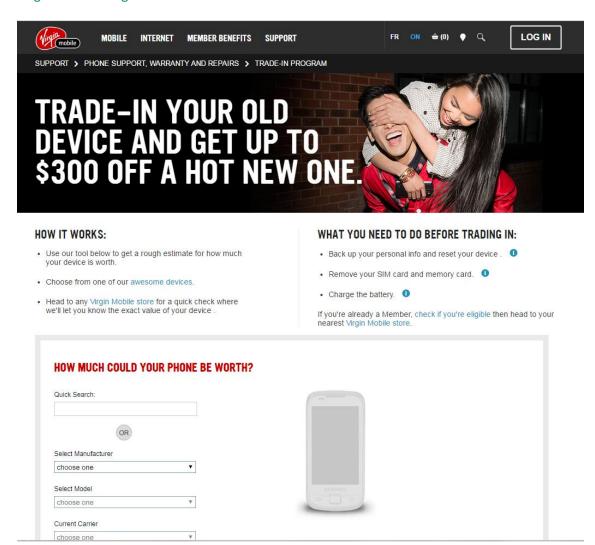
WHAT HAPPENS TO RECYCLED PHONES?



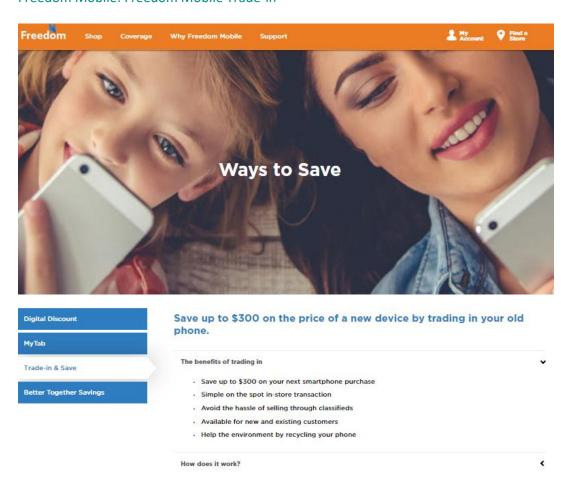
First we delete all data from donated phones. We then proceed to refurbish the phones that are still usable. The remaining phones and accessories are recycled according to Canadian regulations.

Our recycling program donates net proceeds from recycled funds to mental health initiatives across Canada.

Virgin Mobile: Virgin Mobile Trade-in



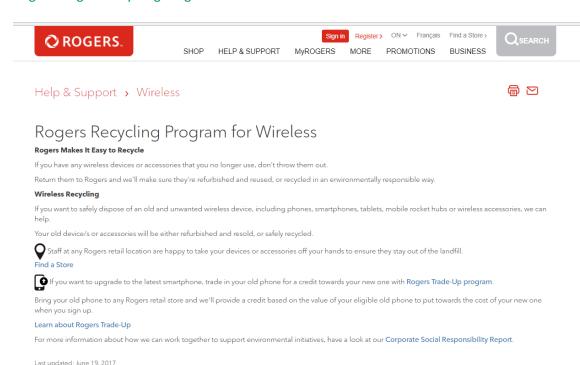
Freedom Mobile: Freedom Mobile Trade-in



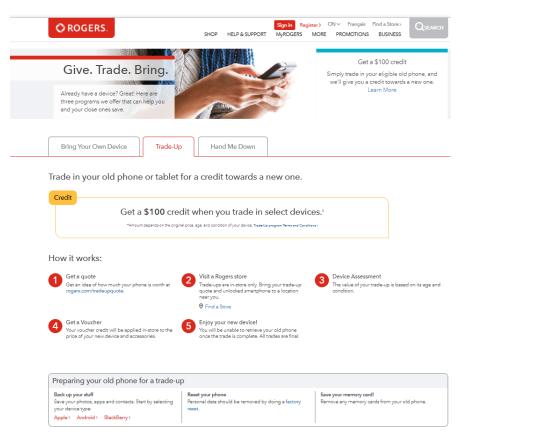




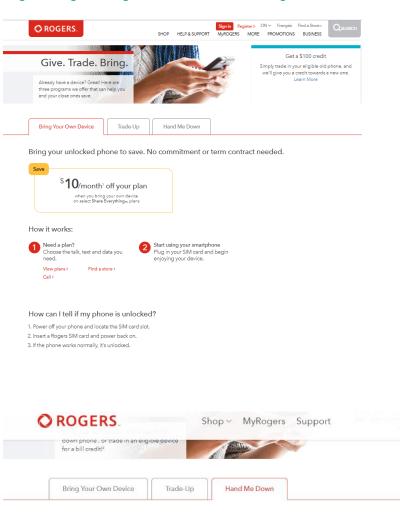
Rogers: Rogers Recycling Program



Rogers: Rogers Trade-Up



Rogers: Rogers Bring Your Own Device and Rogers Hand Me Down



Give your old phone to a friend or family member and help them save.



How it works:



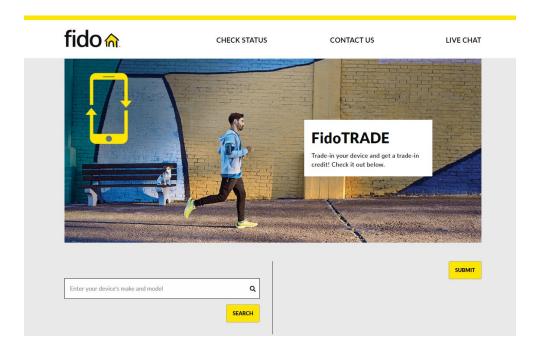




Q

(+) SEE FULL DETAILS

Fido: FidoTrade



BlackBerry KEY2 What's your device's Value? Does the device power up to the home screen and is a factory reset able to be performed? ① Yes No Is the LCD/Touchscreen non-functioning, have dark spots, blemishes or is the glass broken or cracked? ① Yes No Have all accounts been removed or turned off? For Example: Find My iPhone, iPad or Mac, Google, Find My Mobile, and Firmware Passwords or Locks for Laptops. ① Yes No BlackBerry Blackberry Key2 Canada Device's Trade-in value: \$40.00 Quote for this device in Good Condition. To get a final quote, answer the questions and select GET A QUOTE. GET A QUOTE	fido 🏫	CHECK STATUS	CONTACT US	LIVE CHA
Does the device power up to the home screen and is a factory reset able to be performed? ① Yes No Is the LCD/Touchscreen non-functioning, have dark spots, blemishes or is the glass broken or cracked? ① Yes No Have all accounts been removed or turned off? For Example: Find My iPhone, iPad or Mac, Google, Find My Mobile, and Firmware Passwords or Locks for Laptops. ①	BLACKBERRY KI	EY2		
	Does the device power up to the home so performed? ① Yes O No Is the LCD/Touchscreen non-functioning broken or cracked? ① Yes O No Have all accounts been removed or turne Mac, Google, Find My Mobile, and Firmw	reen and is a factory reset able to be have dark spots, blemishes or is the glass d off? For Example: Find My iPhone, iPad or	\$4 Quote for this device To get a final quote, a select GET A QUOTE	0.00 in Good Condition. nswer the questions and

ב: ש - ^

Appendix F

List of Drop-off Locations in British Columbia (as of December 31)

Program/Location N	Name	Community	Regional District
Bell	The Source	100 Mile House	Cariboo
Gold Trail Recycling Ltd.	Gold Trail Recycling Ltd.	100 Mile House	Cariboo
Abbotsford Mission Recycling Program	Abbotsford Mission Recycling Program	Abbotsford	Fraser Valley
Bell	Bell	Abbotsford	Fraser Valley
Bell	The Source	Abbotsford	Fraser Valley
Bell	Virgin Mobile	Abbotsford	Fraser Valley
Freedom Mobile	Freedom Mobile	Abbotsford	Fraser Valley
Freedom Mobile	Freedom Mobile	Abbotsford	Fraser Valley
Regional Recycling	Regional Recycling	Abbotsford	Fraser Valley
Rogers	Rogers	Abbotsford	Fraser Valley
Bell	Bell	Burnaby	Metro Vancouver
Bell	Bell	Burnaby	Metro Vancouver
Bell	The Source	Burnaby	Metro Vancouver
Bell	Virgin Mobile	Burnaby	Metro Vancouver
Bell	Bell	Burnaby	Metro Vancouver
Bell	Bell	Burnaby	Metro Vancouver
Bell	Virgin Mobile	Burnaby	Metro Vancouver
Bell	Bell	Burnaby	Metro Vancouver
Freedom Mobile	Freedom Mobile	Burnaby	Metro Vancouver
Freedom Mobile	Freedom Mobile	Burnaby	Metro Vancouver
Freedom Mobile	Freedom Mobile	Burnaby	Metro Vancouver
Freedom Mobile	Freedom Mobile	Burnaby	Metro Vancouver
Freedom Mobile	Freedom Mobile	Burnaby	Metro Vancouver
Freedom Mobile	Freedom Mobile	Burnaby	Metro Vancouver
Freedom Mobile	Freedom Mobile	Burnaby	Metro Vancouver
Regional Recycling	Regional Recycling	Burnaby	Metro Vancouver
Rogers	Fido	Burnaby	Metro Vancouver
Rogers	Rogers	Burnaby	Metro Vancouver
Rogers	Fido	Burnaby	Metro Vancouver
Rogers	Fido	Burnaby	Metro Vancouver
Rogers	Rogers	Burnaby	Metro Vancouver
Rogers	Rogers	Burnaby	Metro Vancouver
Rogers	Fido	Burnaby	Metro Vancouver
Rogers	Rogers	Burnaby	Metro Vancouver
Bell	The Source	Campbell River	Strathcona

Bell	Bell	Capilano 5	Metro Vancouver
Bell	Virgin Mobile	Capilano 5	Metro Vancouver
Bell	The Source	Castlegar	central Kootney
Bell	The Source	Chilliwack	Fraser Valley
Bell	Virgin Mobile	Chilliwack	Fraser Valley
Bell	Bell	Chilliwack	Fraser Valley
Bell	Bell	Chilliwack	Fraser Valley
City of Colwood	City of Colwood	Colwood	Capital
Bell	Bell	Coquitlam	Metro Vancouver
Bell	Virgin Mobile	Coquitlam	Metro Vancouver
Freedom Mobile	Freedom Mobile	Coquitlam	Metro Vancouver
Rogers	Fido	Coquitlam	Metro Vancouver
Rogers	Rogers	Coquitlam	Metro Vancouver
Bell	The Source	Cranbrook	East Kootenay
Bell	Bell	Cranbrook	East Kootenay
Rogers	Rogers	Cranbrook	East Kootenay
Bell	The Source	Creston	Central Kootenay
Bell	The Source	Dawson Creek	Peace river
		Delta	
Bell	The Source		Metro Vancouver
Bell Cat Call Barrain	Bell Cat Call Barrain	Delta	Metro Vancouver
Get Cell Repair	Get Cell Repair	Delta	Metro Vancouver
Bell	The Source	Duncan	Cowichan Valley
Enderby Return-It Recycling Depot	Enderby Return-It Recycling Depot	Enderby	North Okanagan
Bell	The Source	Fernie	East Kootenay
Bell	Bell	Fort St. John	Peace river
Bell	Bell	Fort St. John	Peace river
Bell	The Source	Fort St. John	Peace river
Gibsons Recycling	Gibsons Recycling Depot	Gibsons	Sunshine Coast
Depot			
Bell	The Source	Golden	Columbia-Shuswap
Bell	The Source	Invermere	East Kootenay
Bell	Bell	Kamloops	Thompson-Nicola
Bell	The Source	Kamloops	Thompson-Nicola
Bell	Virgin Mobile	Kamloops	Thompson-Nicola
Bell	Bell	Kamloops	Thompson-Nicola
Bell	The Source	Kamloops	Thompson-Nicola
Freedom Mobile	Freedom Mobile	Kamloops	Thompson-Nicola
Bell	Bell	Kelowna	Central Okanagan
Bell	The Source	Kelowna	Central Okanagan
Bell	Virgin Mobile	Kelowna	Central Okanagan
Bell	Bell	Kelowna	Central Okanagan
Freedom Mobile	Freedom Mobile	Kelowna	Central Okanagan

Freedom Mobile	Freedom Mobile	Kelowna	Central Okanagan
Freedom Mobile	Freedom Mobile	kelowna	Central Okanagan
Bell	The Source	Kitimat	Kitimat-Stikine
Bell	Bell	Langford	Capital
Bell	Virgin Mobile	Langford	Capital
Bell	Bell	Langley	Metro Vancouver
Bell	The Source	Langley	Metro Vancouver
Bell	Virgin Mobile	Langley	Metro Vancouver
Freedom Mobile	Freedom Mobile	Langley	Metro Vancouver
Rogers	Fido	Langley	Metro Vancouver
Rogers	Rogers	Langley	Metro Vancouver
Bell	Bell	Maple Ridge	Metro Vancouver
Bell	The Source	Maple Ridge	Metro Vancouver
Freedom Mobile	Freedom Mobile	Maple Ridge	Metro Vancouver
Haney Bottle Depot	Haney Bottle Depot	Maple Ridge	Metro Vancouver
Bell	The Source	Merritt	Thompson-Nicola
Abbotsford Mission Recycling Program	Abbotsford Mission Recycling Program	Mission	Fraser Valley
Bell	The Source	Mission	Fraser Valley
Bell	Bell	Nanaimo	Nanaimo
Bell	Bell	Nanaimo	Nanaimo
Bell	The Source	Nanaimo	Nanaimo
Bell	Virgin Mobile	Nanaimo	Nanaimo
Blackapple Cellular	Blackapple Cellular	Nanaimo	Nanaimo
Freedom Mobile	Freedom Mobile	Nanaimo	Nanaimo
Freedom Mobile	Freedom Mobile	Nanaimo	Nanaimo
Regional Recycling	Regional Recycling	Nanaimo	Nanaimo
Regional Recycling	Regional Recycling	Nanaimo	Nanaimo
Bell	Bell	Nelson	Central Kootenay
Bell	The Source	Nelson	Central Kootenay
Bell	The Source	New Westminster	Metro Vancouver
Bell	Virgin Mobile	New Westminster	Metro Vancouver
Bell	Bell	New Westminster	Metro Vancouver
Freedom Mobile	Freedom Mobile	New Westminster	Metro Vancouver
Freedom Mobile	Freedom Mobile	New Westminster	Metro Vancouver
Mobile Zone Communication Inc	Mobile Zone Communication	New Westminster	Metro Vancouver
Queensborough Landing Return - It Ltd.	Queensborough Landing Return-It	New Westminster	Metro Vancouver
Bell	The Source	North Vancouver	Metro Vancouver
Bell	Bell	North Vancouver	Metro Vancouver
Bell	Virgin Moblie	North Vancouver	Metro Vancouver

Freedom Mobile	Freedom Mobile	North Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	North Vancouver	Metro Vancouver
Rogers	Rogers	North Vancouver	Metro Vancouver
Bell	The Source	Oliver	Okanagan-Similkameen
T2 Market Ltd.	T2 Market Ltd.	Oliver	Okanagan-Similkameen
Bell	The Source	Osoyoos	Okanagan-Similkameen
Bell	The Source	Parksville	Nanaimo
Freedom Mobile	Freedom Mobile	Penticton	Okanagan-Similkameen
Bell	The Source	Penticton	Okanagan-Similkameen
Bell	Virgin Mobile	Penticton	Okanagan-Similkameen
Bell	Bell	Penticton	Okanagan-Similkameen
Bell	Bell	Pitt Meadows	Metro Vancouver
Bell	The Source	Powell River	qathet
Sunshine Disposal	Sunshine Disposal and Recycling	Powell River	qathet
and Recycling			
Bell	Bell	Prince George	Fraser-Fort George
Bell	The Source	Prince George	Fraser-Fort George
Bell	Virgin Mobile	Prince George	Fraser-Fort George
Freedom Mobile	Freedom Mobile	Prince George	Fraser-Fort George
Bell	The Source	Prince Rupert	North Coast
Freedom Mobile	Freedom Mobile	Prince Rupert	North Coast
	The Source	QUESNEL	Cariboo
Bell	The Source	Revelstoke	Columbia-Shuswap
Bell	Bell	Richmond	Metro Vancouver
Bell	Virgin Mobile	Richmond	Metro Vancouver
Bell	Bell	Richmond	Metro Vancouver
Bell	The Source	Richmond	Metro Vancouver
Bell	Virgin Mobile	Richmond	Metro Vancouver
Bell	Bell	Richmond	Metro Vancouver
Freedom Mobile	Freedom Mobile	Richmond	Metro Vancouver
Freedom Mobile	Freedom Mobile	Richmond	Metro Vancouver
Freedom Mobile	Freedom Mobile	Richmond	Metro Vancouver
Freedom Mobile	Freedom Mobile	Richmond	Metro Vancouver
Regional Recycling	Regional Recycling	Richmond	Metro Vancouver
Rogers	Rogers	Richmond	Metro Vancouver
Rogers	Fido	Richmond	Metro Vancouver
Bell	Virgin Mobile	Saanich	Capital
Bell	Bell	Saanich	Capital
Bell	Bell	Saanich	Capital
Bell	The Source	Salmon Arm	Columbia-Shuswap
Bell	The Source	Sechelt	Sunshine Coast
Village of Silverton	Village of Silverton	Silverton	central Kootney

Village of Slocan	The Village of Slocan	Slocan	central Kootney
Bell	The Source	Smithers	Bulkley-Nechako
Bell	The Source	Sooke Capital	
District of Sparwood	District of Sparwood	Sparwood	East Kootenay
District of Sparwood	District of Sparwood	Sparwood	East Kootenay
Bell	The Source	Summerland	Okanagan-Similkameen
Bell	Bell	Surrey	Metro Vancouver
Bell	Virgin Mobile	Surrey	Metro Vancouver
Bell	The Source	Surrey	Metro Vancouver
Bell	Bell	Surrey	Metro Vancouver
Bell	Virgin Mobile	Surrey	Metro Vancouver
Bell	Bell	Surrey	Metro Vancouver
Bell	Bell	Surrey	Metro Vancouver
Bell	Bell	Surrey	Metro Vancouver
Bell	Bell	Surrey	Metro Vancouver
Digi-Tech Computing	Digi-Tech Computing	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Mobile	Freedom Mobile	Surrey	Metro Vancouver
Freedom Wireless	Freedom Wireless Ltd.	Surrey	Metro Vancouver
Ltd.			
Newton Bottle Depot	Newton Bottle Depot	Surrey	Metro Vancouver
Regional Recycling	Regional Recycling	Surrey	Metro Vancouver
Rogers	Fido	Surrey	Metro Vancouver
Rogers	Rogers	Surrey	Metro Vancouver
Semiahmoo Bottle	Semiahmoo Bottle Depot	Surrey	Metro Vancouver
Depot Bell	Bell	Surrey	Metro Vancouver
Bell	The Source	Terrace	Kitimat Stikine
Bell	The Source	Trail	Kootenay Boundary
Bell	Bell	Tsawwassen	Metro Vancouver
Freedom Mobile	Freedom Mobile	Tsawwassen	Metro Vancouver
Rogers	Rogers	Tsawwassen	Metro Vancouver
Rogers	Fido	Tsawwassen	Metro Vancouver
Bell	Virgin Mobile	Vancouver	Metro Vancouver
Bell	Bell	Vancouver	Metro Vancouver
חבנו ה	DEII	vancouver	ivieti o valitouvei

Bell	Bell	Vancouser	Motro Vancouver
_		Vancouver	Metro Vancouver
Bell	The Source	Vancouver	Metro Vancouver
Bell	Virgin Mobile	Vancouver	Metro Vancouver
Bell	Bell	Vancouver	Metro Vancouver
Bell	Virgin Mobile	Vancouver	Metro Vancouver
Bell	Bell	Vancouver	Metro Vancouver
Bell	Virgin Mobile	Vancouver	Metro Vancouver
Bell	Bell	Vancouver	Metro Vancouver
Bell	Bell	Vancouver	Metro Vancouver
City of Vancouver		Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Freedom Mobile	Freedom Mobile	Vancouver	Metro Vancouver
Get Cell Repair	Get Cell Repair	Vancouver	Metro Vancouver
PC Galore	PC Galore Consignment Ltd.	Vancouver	Metro Vancouver
Consignment Ltd.			
Regional Recycling	Regional Recycling	Vancouver	Metro Vancouver
Rogers	Rogers	Vancouver	Metro Vancouver
Rogers	Rogers	Vancouver	Metro Vancouver
Rogers	Fido	Vancouver	Metro Vancouver
Rogers	Fido	Vancouver	Metro Vancouver
Rogers	Rogers	Vancouver	Metro Vancouver
Rogers	Fido	Vancouver	Metro Vancouver
Rogers	Rogers	Vancouver	Metro Vancouver
Rogers	Rogers	Vancouver	Metro Vancouver
Rogers	Fido	Vancouver	Metro Vancouver
Rogers	Rogers	Vancouver	Metro Vancouver
Rogers	Fido	Vancouver	Metro Vancouver
Bell	Bell	Vernon	North Okanagan
Bell	The Source	Vernon	North Okanagan
Freedom Mobile	Freedom Mobile	Vernon	North Okanagan
Alpine Recycling	Alpine Recycling	Victoria	Capital
Bell	Bell	Victoria	Capital
			<u> </u>

Bell	The Source	Victoria	Capital
Bell	Virgin Mobile	Victoria	Capital
Bell	The Source	Victoria	Capital
Bell	Bell	Victoria	Capital
Bell	Virgin Mobile	Victoria	Capital
Bell	Bell	Victoria	Capital
Bell	The Source	Victoria	Capital
Bell	Virgin Mobile	Victoria	Capital
Freedom Mobile	Freedom Mobile	Victoria	Capital
Freedom Mobile	Freedom Mobile	Victoria	Capital
Freedom Mobile	Freedom Mobile	Victoria	Capital
Freedom Mobile	Freedom Mobile	Victoria	Capital
Freedom Mobile	Freedom Mobile	Victoria	Capital
Freedom Mobile	Freedom Mobile	Victoria	Capital
Rogers	Rogers	Victoria	Capital
Rogers	Rogers	Victoria	Capital
Rogers	Fido	Victoria	Capital
Rogers	Fido	Victoria	Capital
Rogers	Rogers	Victoria	Capital
Rogers	Rogers	Victoria	Capital
Rogers	Rogers	Victoria	Capital
Rogers	Fido	Victoria	Capital
Rogers	Rogers	Victoria	Capital
Rogers	Fido	Victoria	Capital
Bell	The Source	West Vancouver	Metro Vancouver
Rogers	Fido	West Vancouver	Metro Vancouver
Regional Recycling	Regional Recycling	Whistler	Squamish-Lillooet

Number of Locations in Regional Districts (as of December 31)

Regional District	Locations in 2018	Locations in 2019	Variance
Alberni-Clayoquot	1	0	-1
Bulkley-Nechako	3	1	-2
Capital	30	33	3
Cariboo	3	3	0
Central Coast	0	0	0
Central Kootenay	5	6	1
Central Okanagan	5	7	2
Columbia-Shuswap	3	3	0
Comox Valley	0	0	0
Cowichan Valley	1	1	0
East Kootenay	7	7	0
Fraser Valley	15	14	-1
Fraser-Fort George	5	4	-1
Greater/Metro Vancouver	150	142	-8
Kitimat-Stikine	3	2	-1
Kootenay Boundary	2	1	-1
Mount Waddington	1	0	-1
Nanaimo	11	10	-1
North Okanagan	4	4	0
Northern Rockies	0	0	0
Okanagan-Similkameen	8	8	0
Peace River	5	4	-1
Powell River	2	2	0
Skeena-Queen Charlotte	2	2	0
Squamish-Lillooet	3	1	-2
Stikine Region	0	0	0
Strathcona	1	1	0
Sunshine Coast	2	2	0
Thompson-Nicola	8	7	-1
Provincial Total	280	265	-15

Appendix G

Material Disposition Hierarchy, and Acceptable Processes and Points of Final Disposition

			spositi ierarcl			ſ	-		Proces al Disp		า	
		Material Recovery Required	Energy recovery Permitted	Other disposition Permitted	Manual dismantling and material separation	Mechanical material separation	Extraction / purification / refinement	Smelting to reclaim metal	EFW Incineration (use of material as an energy	Landfill	Hazardous Waste Landfill	Export to a non-OECD/EU country for processing
	EOLE	*			✓	✓	×	×	×	×	×	×
Electronic Scrap	Components (hard drives, chips, etc.)	*			✓	✓	✓	✓	*	×	*	*
tron	Wires / Cables	*			✓	✓	✓	√	×	×	×	×
Elect	Circuit Boards	*			\checkmark	✓	✓	✓	×	×	×	×
	Metal / plastic laminates	*			\checkmark	✓	✓	✓	*	×	×	*
	Metal	*							×	×	×	×
snop	Mixed Metals	*							×	×	×	×
Non Hazardous	Metal dusts (bag house)	*							×	*	×	×
ТНа	Non-leaded Glass	*						×	×	*	×	×
Nor	Plastic		*	*				×			×	✓
	Mixed Plastics		*	*				×			×	✓

In accordance with the Disposition Hierarchy material recovery is always preferential over other disposition methods for all materials but only required where indicated with an '*.

Where the use of the material for energy recovery, or other disposition methods is permitted, they are indicated with an '*.

Process/application not permitted under the ERS	*
Process/application is permitted under the ERS & subject to on-site audit	✓
Process/application is permitted under the ERS & subject to document review and verification	

Appendix H

Known Product Recovered in Each Regional District

Regional District	Amount Recovered
Bulkley-Nechako	0
Capital	2,747
Cariboo	9
Central Kootenay	11
Central Okanagan	1,253
Columbia-Shuswap	34
Cowichan Valley	75
East Kootenay	153
Fraser Valley	4,654
Fraser-Fort George	316
Greater/Metro Vancouver	19,051
Kitimat-Stikine	0
Kootenay Boundary	0
Nanaimo	1,358
North Okanagan	667
Okanagan-Similkameen	350
Peace River	19
Powell River	135
Skeena-Queen Charlotte	0
Squamish-Lillooet	178
Strathcona	214
Sunshine Coast	0
Thompson-Nicola	715
UNKNOWN**	4,691
Provincial Total	36,630

[&]quot;Unknown" includes devices received via mail-back (1,553) and instances where RD was not able to be traced (3,079) for which Regional District is unknown.