

# British Columbia Alarms Program Annual Report

June 28, 2019

**Submitted by:**

Product Care Association of Canada



[productcare.org](http://productcare.org)

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## 1. Executive Summary

The BC Smoke and Carbon Monoxide (CO) Program (“Program”) began on October 1, 2011. AlarmRecycle is operated by Product Care Association of Canada (“Product Care”) pursuant to the requirements of the *British Columbia Recycling Regulation* (BC Reg 449/2004 as amended) (“Regulation”) under the Province’s *Environmental Management Act*, as well as the BC Smoke and Carbon Monoxide Alarm Stewardship Plan, approved by the BC Ministry of Environment and Climate Change (BCMoECC) on August 17, 2011 (“Program Plan”). As per the terms of the Program Plan, collection targets for 2013 through 2017 were established in 2013 as an amendment to the Program Plan (“Amendment”). Product Care submitted an amended program plan on August 15, 2016, which is under review by the BCMoECC.

This annual report provides the information required pursuant to section 8(2) of the Regulation covering the period from January 1 to December 31, 2018.

<b>Products within plan</b>	Residential-use smoke and carbon monoxide (CO) alarms
<b>Program website</b>	<a href="http://www.productcare.org">www.productcare.org</a>

Program performance details required under s.8(2) of the Regulation are summarized in the chart below.

<b>Recycling Regulation Reference</b>	<b>Topic</b>	<b>Summary</b>
Part 2, Section 8(2)(a)	<b>Public Education Materials and Strategies</b>	<ul style="list-style-type: none"><li>Consumer awareness survey conducted in December 2018 revealed 42% of BC residents were aware of a program to recycle smoke and CO alarms.</li></ul>

Recycling Regulation Reference	Topic	Summary
		<ul style="list-style-type: none"> <li>• Two websites (productcare.org / regeneration.ca) provide detailed information about the Program for members and service partners.</li> <li>• Point of sale and point of return materials available for free upon request.</li> <li>• Advertised through digital campaign, including Google display ads and targeted blog posts.</li> <li>• Published print ads in 2018 municipal waste and recycling calendars and newspaper.</li> <li>• Participated in numerous community events (e.g. Party for the Planet, Vancouver Pride Festival, etc.)</li> <li>• Collaborated through RCBC's Hotline and Recyclepedia and the SABC Recycling Handbook to provide consumer-facing information about the program.</li> <li>• Focused on community partnerships and collection during Fire Prevention Week.</li> </ul>
Part 2, Section 8(2)(b)	<b>Collection System and Facilities</b>	<ul style="list-style-type: none"> <li>• At the end of 2018, the collection system included 201 contracted collection sites, including 72 return-to-retail locations, 21 local government facilities, 2 fire departments and 106 private recycling depots.</li> </ul>
Part 2, Section 8(2)(c)	<b>Product Environmental Impact Reduction, Reusability and Recyclability</b>	<ul style="list-style-type: none"> <li>• Ionization foil stamping technology ensures less waste produced and less precious metals used in this stage of the manufacturing process.</li> <li>• Amount of materials in alarms continue to decrease while the use of recyclable materials in packaging increase.</li> <li>• There is a general trend in the industry to move from 9 volt to 3 volt alarms reducing the</li> </ul>

<b>Recycling Regulation Reference</b>	<b>Topic</b>	<b>Summary</b>
		<p>number of batteries required for product operation.</p> <ul style="list-style-type: none"> <li>Some manufacturers are looking into implementing best practice environmental standards from one region across all products sold to different countries.</li> </ul>
Part 2, Section 8(2)(d)	<b>Pollution Prevention Hierarchy and Product / Component Management</b>	<ul style="list-style-type: none"> <li>The plastic and metal components (copper, aluminum, ferrous, etc.) are separated and recycled.</li> <li>For alarms with radioactive components, the radioactive component (Am-241 foil) is shipped for final disposal at a licensed radioactive waste facility.</li> </ul>
Part 2, Section 8(2)(e)	<b>Product Sold and Collected and Recovery Rate</b>	<ul style="list-style-type: none"> <li>As per the approved Program Plan, due to the limited number of manufacturers in the sector, aggregated sales data is not made publicly available to protect confidential market share information.</li> <li>Between January 1 and December 31, 2018, the Program collected approximately 96,073 units.</li> </ul>
Part 2, Section 8(2)(e.1)		<ul style="list-style-type: none"> <li>Table 4 lists units collected by Regional District.</li> </ul>
Part 2, Section 8(2)(f)	<b>Summary of Deposits, Refunds, Revenues and Expenses</b>	<ul style="list-style-type: none"> <li>See Appendix E for the Program's Independent Financial 2018 Audit report.</li> </ul>

The Program Plan sets out a number of key performance targets for the Program. The following chart summarizes the Program's performance in 2018

and strategies for improvement going forward, where applicable. The program did not envision operating under the current program plan in 2018. Accordingly, the plan does not provide performance targets for 2018. Given the new program plan submitted in 2016 had not been approved as of the end of 2018, this annual report references performance targets from 2016, with the exception of units collected which reports against 2017 collection targets set in 2013 as an amendment to the Program Plan.

### Key Program Measures and Performance

2018 Key Program Measures and Performance	
Part 2 section 8(2)(g)	
2018 Performance	Strategies for Improvement
Approximately 96,073 units collected (2017 collection target of 28,078 units based on 5% annual increase from 2012 baseline of 22,000 units, as per collection targets set in 2013.)	n/a
As part of SABC, AlarmRecycle continued to work with other stewardship organizations (e.g. LightRecycle and PaintRecycle) in outreach to stakeholders. In addition, AlarmRecycle engaged RCBC for hotline and Recyclepedia services.	AlarmRecycle will continue to reach out to community groups and work with other stewardship programs, where synergies exist.
Based on an accessibility study conducted in 2017, 99.3% of the population has access to a collection site according to SABC's standard. No accessibility study was conducted in 2018, but the program had a net increase of 4 collection sites during the year.	n/a

## 2. Program Outline

The BC Smoke and Carbon Monoxide (CO) Alarm Program (“Program”) began on October 1, 2011. The Program is operated by Product Care Association of Canada (“PCA”) pursuant to the requirements of the *British Columbia Recycling Regulation* (BC Reg 449/2004 as amended) (“Regulation”) under the Province’s *Environmental Management Act*, as well as the BC Smoke and Carbon Monoxide Alarm Stewardship Plan, approved by the BC Ministry of Environment and Climate Change Strategy (BCMoeCCS) on August 17, 2011 (“Program Plan”). Product Care submitted a revised Plan to the Ministry on August 15, 2016, currently under review with the Ministry. In the interim, the Program continues to operate pursuant to the terms of the 2011-2016 Plan. This annual report provides information required pursuant to section 8(2) of the Regulation covering the period from January 1 to December 31, 2018.

Program members include manufacturers, brand owners, distributors, first importers and retailers. In 2018, there were 59 Program members. For a complete list of Program members registered as of December 31, 2018, see Appendix A.

Products that are recycled through the Program include:

- Smoke alarms designed for residential-use as defined by the CAN/ULC-S531 standard.<sup>1</sup>
- Carbon monoxide (CO) alarms designed for residential use, as defined by the CAN/CSA 6.19 standard.

By the end of 2018, the Program had developed a collection network of 201 permanent year-round collection sites. The Program does not directly own or manage collection sites, but rather contracts with all collection locations. Collection sites include fire safety organizations, fire halls, private bottle depots, not-for-profit recycling organizations, retailers, and local government facilities.

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<sup>1</sup> Underwriters Laboratory of Canada (ULC) Standards develops and publishes standards and specifications for specific product types, including those having a bearing on fire safety. Fire alarms installed in dwelling units must conform to the CAN/ULC-S531-02 standard.

The Program's website is a consumer-facing portal where the public can obtain information about the Program, including what products are accepted in the Program, where to find the nearest collection site, promotional materials and membership information. Further details on education and outreach efforts are outlined in Section 3 of this report.

The Program, pursuant to the terms in its approved Program Plan, established a collection rate target increase of 5% per annum with the 2012 collection volume of 22,000 units as a baseline. Approximately 96,073 alarm units were collected, exceeding the 2017 collection target of 28,078 by 67,995 units or 342% (see Table 5).

### **3. Public Education Materials and Strategies**

In 2018, Product Care implemented a number of different methods to raise consumer awareness of the Program in British Columbia, in accordance with regulatory requirements. This section provides details regarding communication and public education efforts in 2018.

#### **Program Awareness**

In November 2018, an online survey representative of British Columbia's adult population was conducted among 1,002 residents. The survey revealed that 42% of residents are aware that they can recycle alarms in the province. Manufacturers recommend that alarms be replaced every 10 years, and those who live in multi-family residential properties typically do not dispose of old alarms themselves, but rather have these products removed by property managers and professional service providers. The awareness levels reported are reflective of the long lifespan of these products and the fact that consumers interact with the product on a very infrequent basis.

#### **Website**

ReGeneration.ca (Product Care's former consumer website replaced by ProductCare.org in January 2019) included the following content for the Program:

- Recycling locator (a searchable map displaying locations of all British Columbia



alarm recycling locations – see Appendix)

- Recycling locations' hours of operations and contact information
- The alarm program's accepted and non-accepted products
- Consumer videos showing the product management approach for alarms
- A fillable form for ordering promotional materials like rack cards and posters
- Information about the environmental benefits of alarm stewardship

An estimated 165,662 unique visitors accessed *ReGeneration.ca* during the 2018 calendar year. The British Columbia section (including sub-sections for accepted products, EHF information) received 61,480 total page views. There were a total of 15,530 searches for Product Care recycling locations using the ReGeneration recycling locator.

## **Program Hotline**

Product Care continued to operate a toll-free hotline (1-888-772-9772) where consumers obtained information about the Program.

The Program also participated in the Recycling Council of British Columbia (RCBC) recycling hotline service (1 800 667 4321 or 604 RECYCLE). Consumers were able to contact RCBC operators during business hours and obtain information about return options for alarm products. Information about alarm recycling was also provided on the RCBC smart phone app and website. In total, these three platforms received a combined total of 486 inquiries about alarm products in 2018.

## **Print Advertising**

The Program continued to promote the Program through a variety of print medium throughout the province:

- A half page ad was published in *Green Space* magazine, targeting the Program's pick up system for commercial volumes. 12,500 copies of these publications were distributed
- A half page print ad was published in Vancouver's *Pride Guide*, targeting younger generations. 12,000 copies of this guide were distributed in the Lower Mainland.

- Print ads focusing on general consumer education for BC programs including alarms, were published in municipal calendars for Chilliwack, Invermere, Mission, Penticton, Powell River and Peace River. An estimated 13,000 calendars were distributed throughout the six areas.

See Appendix B for examples of all print advertising activities.

## Digital Advertising

All digital campaigns listed below reached the entire province.

1. **Google Search Advertising Campaign:** March to December, 2018  
A search advertising campaign served alarm recycling ads to provincial residents based on an extensive list of relevant keyword searches. British Columbia's ads collectively generated 2,393 impressions and 144 clicks.
2. **Gated Facebook Content Strategy:** British Columbia-specific content, available only to provincial residents, focused on alarms recycling, special waste and the recycling community in general. Twitter was also used to communicate general program information to Product Care's 1,330 followers.
3. **Targeted blog posts:** More than 30 blog posts were targeted at relevant audience members including, but not limited to, homeowners, female heads of households, and environmentally-inclined individuals in British Columbia. Topics included specific information on alarms recycling, "do it yourself" ("DIY") content, renovation tips, and sustainability best practices. All posts included a call-to-action to find a recycling location or interact with the brand on social media. Collectively, these posts received 62,141 views in 2018.

See Appendix B for examples of all digital advertising activities.

## Community Events and Partnerships

Product Care educated members of the public about the Program and safe alarm recycling at several community events in BC, including:

- Party for the Planet (City of Surrey): April 14
- Burnaby Environmental Festival: May 27
- Vancouver Landfill Open House: June 1
- Vancouver Pride Festival: August 5
- Vancouver Mural Festival: August 11

At these events, knowledgeable staff interacted with thousands of event attendees through a direct engagement program including trivia, giveaways, branded print materials, and other activities.

Product Care also sponsored Science World's BC Green Games; a digital eco-storytelling contest for schools throughout British Columbia. As part of the sponsorship, Science World's "On the Road" team visited schools across the province educating more than 36,000 students on BC stewardship programs, including alarm recycling. In addition, the BC Green Games website listed Product Care as a sponsor with a description of its various recycling programs.

### **Point of Sale (PoS) and Point of Return (PoR) Materials**

In 2018, Product Care distributed both PoS and PoR materials upon request by retailers and recycling locations. The following materials were available for order through an online form:

- Rack cards
- Posters

Signage for recycling locations was also made available throughout the year, free of charge, for participating recycling locations. See Appendix B for examples.

## **4. Collection System and Facilities**

The Program works with existing collection sites across BC where end users can return their smoke and CO alarms. There is no charge for consumers to drop-off these products. Product Care does not directly own or manage any collection sites, but rather contracts with all collection sites. At the end of 2018, the collection system was comprised of 201 contracted advertised collection sites, including 72 return-to-retail locations, 21 local government facilities, 2 fire departments and 106 private recycling depots. Five collection sites were added and one collection site was removed during 2018. The one collection site that closed was located in Nanaimo where other collection sites exist, resulting in no

impact to accessibility levels for the program. Table 1 below provides a breakdown of the different types of collection sites reported in 2017 and 2018. Appendix C provides a complete list of collection sites as of December 31, 2018. Appendix D lists the number of collection sites in each regional district.

**Table 1: Collection Site by Type (2017 and 2018)**

Collection Site Type	2017 <sup>2</sup>	2018
Retailers	73	72
Local government	15	21
Recycling depots	107	106
Fire departments	2	2
<b>Total</b>	<b>197</b>	<b>201</b>

The Program supplements the collection system with a Large Volume Generator (LVG) program. The LVG program provides free pick-up service from any entity that generates large volumes of smoke and CO alarms (i.e., more than 40). In 2018, 56 entities were registered as LVGs with the Program, including fire safety organizations, electrical distributors, local government facilities and others.

## **5. Product Environmental Impact Reduction, Reusability and Recyclability**

### **Reduce and Redesign**

While the principal purpose of smoke and CO alarms is to ensure safety, the industry continues to make efforts to reduce the environmental impact of their products. Ionization foil stamping technology ensures less waste and precious metals are produced in this stage of the manufacturing process. The amount of plastic and other materials in a typical smoke alarm continue to decrease while the use of recyclable materials in product packaging increase. For example, some manufacturers now create alarms with 75% to 80% recyclable

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<sup>2</sup> The 2017 annual report underreported the number of collection sites by one retail site.

materials. Finally, there is a continued trend in the industry away from 9 volt to 3 volt alarms to reduce the number of batteries required for product operation.

Manufacturers regularly review the design of their products for functionality, sustainability and impact on the environment, ensuring compliance with environmental requirements. In addition, some manufacturers are looking into implementing best practice environmental standards from one region across all products sold to different countries, rather than just implementing the standards in the country that mandates them. An example of a best practice environmental standard is the RoHS (Restriction of Hazardous Substances) initiative in Europe, which restricts the use of certain hazardous materials found in electrical and electronic products.

### **Reuse and Repair**

Given the requirement that new smoke and CO alarms be certified for safety purposes and the absolute importance that program products function properly in the case of an emergency, the repair or reuse of returned products or product components is not considered viable.

### **Recycle, Recover and Dispose**

It is the Program's intention to recycle as many components of returned products as possible, subject to economic conditions, such as fluctuations in demand and commodity prices.

## **6. Pollution Prevention Hierarchy and Product / Component Management**

The following is based on information provided by the Program's downstream processors, where available, or based on the understanding of the service agreement with the downstream processors.

There are generally three types of common smoke alarms; ionization, photoelectric and combination ionization/photoelectric. Alarms that use the ionization technology have a radioactive source within the detector to ionize the air and produce a small electric current. When smoke enters the detector

chamber, the current is interrupted, which causes the alarm to sound. The radioactive element used is most commonly Americium-241 (Am-241), which emits alpha radiation (or alpha particles). The source of radioactivity is quite small. Photoelectric alarms aim a light source into a sensing chamber at an angle away from the sensor. Smoke enters the chamber, reflecting light onto the light sensor; triggering the alarm. Combination ionization & photoelectric alarms use both sensing technologies in parallel.

The boxes of collected units are received at Product Care's facility. At the facility, they are sorted, which involves counting the number of alarms and removing batteries as well as any non-program products.<sup>3</sup>

At the downstream processors' facilities prior to dismantling, each smoke alarm is sorted by type, and inventoried by a trained technician. According to information obtained from end fate surveys completed by the downstream processors, the plastic and metal components are separated and sent for recycling and the Am-241 foil is shipped for final disposal at a licensed radioactive waste facility. Table 2 provides a summary of the management of all alarm sub-components, according to information provided by the Program's downstream processor.

**Table 2: Product / Component Management <sup>4</sup>**

Type of Alarm	Sub-component	Recycled	Storage at a licensed long-term storage facility
<b>Radioactive Alarms</b>	Radioactive Cells		100%
	Plastic	100%	
	Metal	100%	
<b>Photovoltaic (non-radioactive alarms)</b>	Plastic	100%	
	Metal	100%	

<sup>3</sup> Some of the alarms collected in 2018 were not shipped for processing until the subsequent year. Statements regarding the end fate of alarms are in reference to materials processed in 2018 only. In 2018, no batteries were sent for processing as there was insufficient volumes accumulated for a shipment.

<sup>4</sup> Based on information provided in end fate surveys completed by the Program's primary processors.

## 7. Product Sold and Collected and Recovery Rate

### Products Sold

The BC smoke and CO alarm market is primarily served by three brand owners. Given the small number of manufacturers of these products selling into the BC market, the Ministry of Environment and Climate Change Strategy has given approval that aggregated sales data reported by program members not be made publicly available, as is done with other stewardship programs.

### Collection Volumes

Smoke and CO alarms are collected at collection sites in boxes, cardboard gaylord boxes or mega-bags, depending on the volume the collection site expects to receive. Between January 1 and December 31, 2018, the Program collected approximately 96,073 units, as detailed in Table 3 below.

The number of alarms collected in small containers (boxes and totes) and mega-bags was estimated by multiplying the number of small containers and mega-bags collected during the year by a conversion factor of 42 alarms per small container and 983 alarms per mega-bag. The conversion factors were calculated by averaging the sorted values of more than 1,500 small collection containers and 15 mega-bags, which were collected in 2018 and counted at the time of sorting and consolidation at Product Care's facility.

**Table 3: Units Collected, January 1 – December 31, 2018**

Container Type	# of Containers Collected	Approximate # of Alarms Collected
Small Containers	2,030	85,260
Mega Bags	11	10,813
<b>Total</b>	<b>2,041</b>	<b>96,073</b>

### Units Collected by Regional District

Table 4 illustrates the approximate number of smoke and CO alarms collected from each of the Province's Regional Districts between January 1 and December 31, 2018.

**Table 4: Total Smoke and CO Alarms Collected by Regional District, 2018**

<b>Regional District</b>	<b># Small Containers<sup>5</sup></b>	<b># Mega Bags<sup>6</sup></b>	<b># of Smoke &amp; CO Alarms</b>
Alberni-Clayoquot	6	0	252
Bulkley-Nechako	2	0	84
Capital	184	0	7728
Cariboo	5	0	210
Central Coast	0	0	0
Central Kootenay	13	0	546
Central Okanagan	128	0	5376
Columbia-Shuswap	3	0	126
Comox Valley	21	0	882
Cowichan Valley	19	0	798
East Kootenay	12	0	504
Fraser-Fort George	16	0	672
Fraser Valley	112	7	11585
Kitimat-Stikine	1	0	42
Kootenay Boundary	12	0	504
Metro Vancouver	1294	4	58280
Mount Waddington	0	0	0
Nanaimo	55	0	2310
North Okanagan	40	0	1680
Northern Rockies	0	0	0
Okanagan-Similkameen	28	0	1176
Peace River	1	0	42
Powell River	3	0	126
Skeena-Queen Charlotte	0	0	0
Squamish-Lillooet	33	0	1386
Strathcona	22	0	924
Sunshine Coast	1	0	42
Thompson-Nicola	19	0	798
<b>Total</b>	<b>2030</b>	<b>11</b>	<b>96,073</b>

<sup>5</sup> Conversion factor used: 42 units per small container.

<sup>6</sup> Conversion factor used: 983 units per mega-bag



Product Care submitted AlarmRecycle's collection rate targets to the Ministry of Environment on April 1, 2013 in accordance with its commitment under the approved Program Plan. In the submission, PCA committed to a 5% annual increase in the number of program products collected over the 2012 baseline of 22,000 units up to 2017. The Program collected approximately 96,073 units in 2018, exceeding the 2017 collection target of 28,078 units by 67,995 units. Table 5 summarizes the submitted collection rate targets and units collected annually from 2013 to 2018.

**Table 5: AlarmRecycle Collection Rate Targets and Collection Rates**

<b>Year</b>	<b>2012 (Baseline)<sup>7</sup></b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>Units Collected Target</b>	22,000	23,100	24,255	25,468	26,741	28,078	28,078
<b>Units Collected by the Program</b>		32,460	44,253	66,481	89,309	104,339	96,073

### **Recovery Rate**

Given the unique nature of the smoke and CO alarm market in BC, the Program cannot report out on recovery rate as a performance measure. Recovery rate compares the amount of materials collected to the amount of material sold during the same time period. Collection and sales data are typically published alongside the recovery rate in order to substantiate a percentage based recovery rate. In the case of smoke and CO alarms, given the small number of companies selling these products into the BC market, providing this data would permit competitors to estimate the sales data of individual companies, which is confidential business information.

## **8. Revenues and Expenditures**

The Program is funded by membership fees, known as environmental handling fees (EHFs), remitted to PCA by its members based on the volume of sales of

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<sup>7</sup> Baseline defined in the Program's Plan amendment of April 2013.

smoke and CO alarms in British Columbia. PCA sets the EHF rates. In some cases, retailers recover the fees from consumers as a separate visible EHF. Program revenues are applied to the operation of the Program, including administration, education, collection, transport, recycling and disposal of collected products, as well as a reserve fund. Table 6 illustrates the EHF for Program products effective since October 1, 2011.

**Table 6: Environmental Handling Fees as of October 1, 2011**

Unit Type	EHF
Smoke Alarms and Combination Smoke/CO Alarms	\$1.20
Carbon Monoxide (CO) Alarms	\$0.60

Table 7 shows the Program revenues and expenditures for 2018. Additionally, a copy of the independent financial audit of the Program's revenues and expenses can be found in Appendix E.

**Table 7: 2017 Program Revenue and Expenditures**

	Amount
Total Revenues	\$ 714,225
Total Expenses	\$ 482,517

## 9. Plan Performance

Table 8 summarizes the Program's key performance measures for 2018, as committed to in the Program Plan and the collection rate target submission to the Ministry of Environment dated April 1, 2013, along with actual performance values and strategies for improving performance in 2019.

**Table 8: 2018 Key Program Measures and Performance**

<b>2017 Key Program Measures and Performance</b>	
Part 2 section 8(2)(g)	
<b>2017 Performance</b>	<b>Strategies for Improvement</b>
Approximately 96,073 units collected. (2017 collection target of 28,078 units based on 5% annual increase from 2012 baseline of 22,000 units)	n/a
As part of SABC, the Program worked with other stewardship organizations (e.g. LightRecycle and PaintRecycle) to conduct stakeholder outreach. In addition, the Program engaged RCBC for hotline and Recyclepedia services.	The Program will continue to reach out to community groups and work with other stewardship programs, where synergies exist.
The program did not conduct a formal accessibility study in 2018. However, the program increased the net number of collection sites by 4 from 2017 to 201 in 2018. The program's accessibility study conducted in 2017 showed that 99.3% of the population has access to a collection site according to SABC's standard.	n/a

## Appendix A: 2018 Program Members

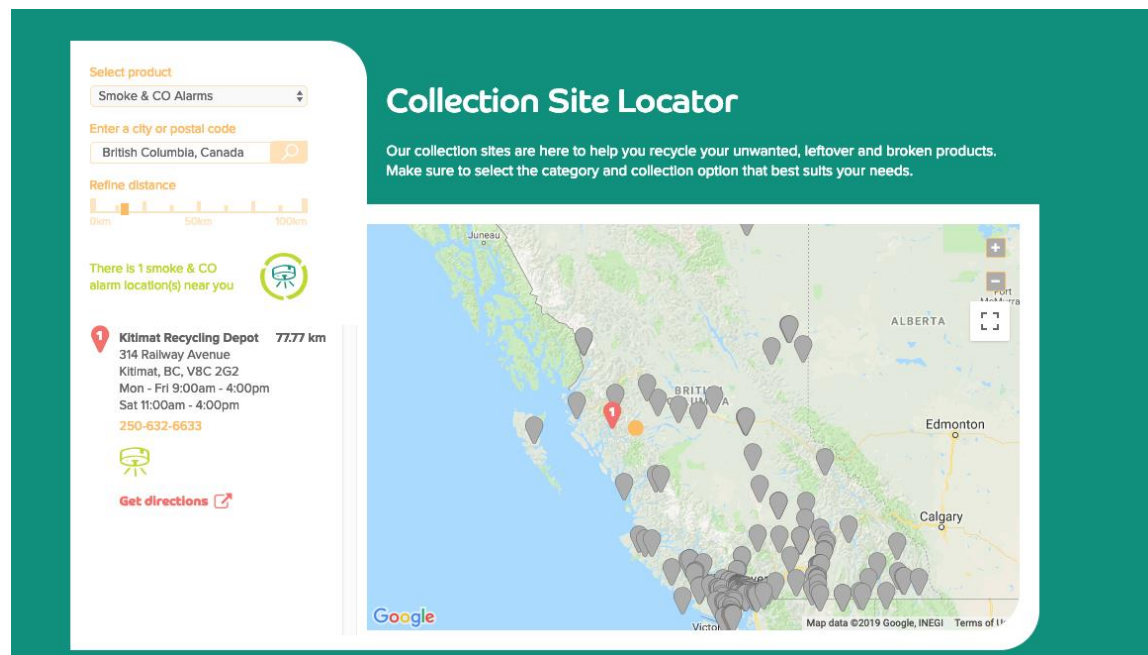
Member Name
0797222 BC LTD DBA Pine Lighting
7594828 Canada inc. (o/a Ace Canada)
Acklands - Grainger Inc.
ACME FIRE AND SAFETY CO LTD.
Amazon.com.ca, Inc.
AMELECO ELECTRIC INC.
Assa Industrial Ltd
Bed Bath & Beyond Canada L.P.
Best Buy Canada Ltd.
Bright Ideas Maple Ridge Lighting Inc.
Canadian Tire Corporation, Limited
CASCADE BATH & LIGHTING LTD.
Cathelle Inc.
Corporate Express Canada, Inc.
Costco Wholesale Canada Ltd.
EUROLINE LIGHTING AND PLUMBING INC.
Farley Manufacturing Inc
Federated Co-operatives Limited
First Alert (Canada) Inc.
Gescan, Division of Sonepar Canada Inc.
Guillevin International Co.
HD Supply Canada Inc.
Home Depot of Canada Inc.
Home Hardware Stores Limited
Illuminations Lighting Solutions Ltd.
Indigo Books and Music Inc.
KERRISDALE LUMBER CO. LTD.
Kidde Canada Inc.
Lite-scape Lighting Inc.
Loblaws Inc.
London Drugs Limited
Lowe's Companies Canada, ULC
Mill Bay Pharmacy Ltd
Mircom Distribution (BC) Inc

Member Name
National Fire Equipment Limited
Nedco (West) a division of REXEL CANADA ELECTRICAL INC.
Nest Labs, Inc.
Orgill Canada Hardlines ULC
Pacific Coast Fire Equipment (1976) Ltd.
Peavey Industries LP
Renegade Electric Supply LTD
Robertson Electric Wholesale British Columbia Limited
RONA Inc.
Rona Revy Inc (BC Alarms)
Royal City Fire Supplies Ltd.
ROYAL LIGHTING & ELECTRICAL SUPPLY LTD.
Sakura Distributors Inc.
Save More Lighting Ltd.
Serva-Lite Sales Ltd.
Shoppers Drug Mart Inc.
Slegg Construction Materials Ltd.
Slegg Limited Partnership
Staples Canada Inc.
The Rick
Troy Life & Fire Safety Ltd.
Wal-Mart Canada Corp.
West Point Lighting Ltd
Westburne West (A Division of Rexel Canada Electrical Inc.)
Westcraft Lighting Ltd

## Appendix B: Communication and Public Outreach Materials

### Recycling Locator tool

Below is a snapshot of the recycling locator tools found at regeneration.ca.



## PoR/PoS brochures

**Did you know that your smoke and carbon monoxide alarm expires every 5-10 years?**

Protect your family and the environment. Visit [ReGeneration.ca](http://ReGeneration.ca) to find out more information and where the closest drop-off location is to you!

**Accepted products:**

- ✓ Smoke Alarms
- ✓ Carbon Monoxide (CO) Alarms
- ✓ Combination Smoke/CO Alarms

**Not Accepted Products:**

- ✗ Thermostats
- ✗ Alarm keypads
- ✗ Physically damaged smoke alarms
- ✗ Smoke/CO detector units designed for use in a building-wide system

**AlarmRecycle**  
BC's only smoke and carbon monoxide alarm recycling program

**ReGeneration**  
Special Needs Recycling for Businesses

## PoR/PoS poster

**Yes, you can recycle your old smoke & carbon monoxide alarms**

and with over 180 collection sites across the province, there's no excuse not to.

**Accepted products:**

- Smoke alarms
- Carbon Monoxide (CO) alarms
- Combination Smoke/CO alarms

**Not accepted products:**

- Thermostats
- Alarm keypads
- Physically damaged smoke alarms
- Smoke/CO detector units designed for use in a building-wide system

Visit [ReGeneration.ca](http://ReGeneration.ca) to find a collection site near you or call 604-732-9253 or 1-800-667-4321 toll-free

**AlarmRecycle**

## Recycling Location Signage



**AlarmRecycle**



### SMOKE ALARMS:

- Accepted products include all residential-use stand-alone\* smoke alarms powered by a battery and/or wired to a building's electrical system.
- Common types include ionization, photoelectric and combination ionization/photoelectric smoke alarms.
- Smoke alarms perform both a smoke detection and alarm sounding function.

### CARBON MONOXIDE (CO) ALARMS:

- Program products are stand-alone CO alarms, which perform both a CO detection and alarm sounding function.

### COMBINATION SMOKE & CO ALARMS:

- A stand-alone unit that performs both detection and alarm functions and combines the technology of a smoke alarm and a CO alarm.

### NOT ACCEPTED

- The program does not accept devices that perform only the detection function and not the alarm function, e.g. a smoke and/or CO detector unit connected to a building-wide monitoring or alarm system.
- These types of units are typically installed in commercial buildings and are outside the scope of this program.

\*Not part of a hardwired building system





## Website Blog posts

### 5 ECO-FRIENDLY TIPS FOR HOMEOWNERS

July 30th, 2018 / [Blog](#)



Becoming a homeowner for the first time is very exciting— It's a huge ...

[READ MORE](#)

### 4 ECO-FRIENDLY WAYS TO JOIN THE CIRCULAR ECONOMY

### 4 WAYS TO FEEL CLOSER TO NATURE THIS EARTH DAY

April 13th, 2018 / [Blog](#)



No matter which part of Canada you call home, there's no better time ...

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[FIND A COLLECTION SITE](#)



### 4 ECO-FRIENDLY WAYS TO JOIN THE CIRCULAR ECONOMY

October 15th, 2018 / [Blog](#)

[< Back to News](#)

October 15-21 is [Waste Reduction Week in Canada](#), and this year, the week is focused on the circular economy. A "circular" economic model is one where resources are designed and used in a way that maximises their lifespan. This is opposed to a traditional linear model, which means we make something, use it, and then dispose of it.

Moving towards a circular economy is good for the planet because, put simply, these economies use fewer resources. Raw materials are only extracted when they're really needed, are reused to the extent of their lifespan, and less waste is produced as a result. The model is inspired by nature and encourages sharing between others, trading, swapping, and repairing existing items wherever possible instead of creating new things from scratch. To get you feeling inspired, here are some easy ways to make your every day life more circular, less

## Social Media Posts



It's [#FirePreventionWeek](#), so check your smoke alarms! Recycle your expired or broken alarms for free through our program in BC: [ow.ly/kgBf50jkECN](https://ow.ly/kgBf50jkECN)



10:30 AM - 7 Oct 2018

## Google Search Ad

[Recycle Your Smoke Alarm | Find A Drop-Off Site Near You](#) ⓘ

[www.regeneration.ca/smoke-alarms](https://www.regeneration.ca/smoke-alarms)

Smoke alarms contain radiation + shouldn't be thrown out. Here's how to recycle them 200 Locations in BC. Many Products Accepted. Free to Drop-Off. Open to Everyone.

## Green Space Print Advertisements



**Have large quantities of paint, lights or smoke alarms for recycling?**

Product Care offers a first-of-its-kind recycling program for paint, paint aerosols, lights, lighting fixtures, ballasts, smoke alarms, and carbon monoxide alarms. Drop them off at a designated collection site for **FREE**, or contact us for more details on our **FREE** large volume pick up service.

For details, restrictions, and a full list of accepted products, visit [productcare.org](http://productcare.org).



## Vancouver Pride Guide Print ad



**Recycle with pride!**

Recycle your paint, lights, and smoke alarms for free across BC. Find your nearest location at [ReGeneration.ca/pride](http://ReGeneration.ca/pride)



## Municipal Calendar Print Advertisement



Keep BC beautiful with our  
free to use, easy to find  
recycling programs



Paint



Alarms



HHW



Lights

Find your nearest drop-off  
location at [ReGeneration.ca](https://www.regeneration.ca)



## Appendix C: List of 2018 Program Collection Sites

Collection Site Name	City	Regional District
7 Mile Landfill and Recycling	Port McNeil	Mt. Waddington
Abbotsford Bottle Depot	Abbotsford	Fraser Valley
Abbotsford Community Services Recycling	Abbotsford	Fraser Valley
Agassiz Bottle Depot Ltd	Agassiz	Fraser Valley
Aldergrove Bottle Depot	Aldergrove	Metro Vancouver
Alpine Disposal & Recycling	Langford	Capital
Augusta Recyclers Ltd.	Powell River	Powell River
Barriere Return-It	Barriere	Thompson Nicola
Bella Bella Eco Depot	Bella Bella	Central Coast
Bella Coola Recycling	Bella Coola	Central Coast
Biggar Bottle Depot	Port Coquitlam	Metro Vancouver
Bill's Bottle Depot	Salmon Arm	Columbia-Shuswap
Bings Creek Solid Waste Management Complex	North Cowichan	Cowichan Valley
Border Town Recycling Group	Stewart	Kitimat-Stikine
Boucherie Self Storage & Bottle Depot	West Kelowna	Central Okanagan
Burns Lake Return-It	Burns Lake	Bulkley-Nechako
Campbell Mountain Landfill	Penticton	Okanagan Similkameen
Campbell River Waste Management Centre	Campbell River	Strathcona
Canadian Tire #437 Campbell River	Campbell River	Strathcona
Canadian Tire #438 Williams Lake	Williams Lake	Cariboo
Capital City and Sidney Fire Equipment	Sidney	Capital
Carney's Waste Systems – Squamish	Squamish	Squamish Lillooet
Century Hardware Ltd.	100 Mile House	Cariboo



Collection Site Name	City	Regional District
Chasers Bottle Depot	Vernon	North Okanagan
Chetwynd Recycling and Bottle Depot	Chetwynd	Peace River
Chilliwack Bottle Depot	Chilliwack	Fraser Valley
CM Recycling Ltd (formerly Cariboo Metal Recycling)	Quesnel	Cariboo
Columbia DB Dease / Columbia Bottle Ent Ltd.	Kelowna	Central Okanagan
Columbia DB St Paul / WB 120 LTD	Kelowna	Central Okanagan
Comox Valley Waste Management Centre	Cumberland	Comox Valley
Coquitlam Return-It Depot	Coquitlam	Metro Vancouver
Coquitlam Transfer Station	Coquitlam	Metro Vancouver
Courtenay Return-It Depot	Courtenay	Comox Valley
Cranbrook Bottle Depot	Cranbrook	East Kootenay
Curt Garland Community Support Centre / The Governing Council of the Salvation Army in Canada	Prince George	Fraser Fort George
D&G Recycling (Tsawwassen Bottle Depot)	Delta	Metro Vancouver
D.C. Recycling & Bottle Depot	Dawson Creek	Peace River
District of Clearwater	Clearwater	Thompson-Nicola
East Hasting Bottle Depot	Burnaby	Metro Vancouver
Eco-Depot Recycling	Fort St. John	Peace River
Enderby Return-It Recycling Depot	Enderby	North Okanagan
Fernie Bottle Depot	Fernie	East Kootenay
Fleetwood Bottle Return Depot	Surrey	Metro Vancouver
Fraser Lake Bottle Depot	Fraser Lake	Bulkley-Nechako
FSJ Bottle Drop	Fort St. John	Peace River
Gabriola Island Recycling	Gabriola Island	Nanaimo
Galiano Island Recycling Resources	Galino Island	Capital
General Grants Sahali	Kamloops	Thompson Nicola
Gibsons Recycling Depot	Gibsons	Sunshine Coast

Collection Site Name	City	Regional District
Go Green Depot & Recycling	Vancouver	Metro Vancouver
Gold Trail Recycling Ltd.	100 Mile House	Cariboo
Grand Forks Bottle Depot	Grand Forks	Kootenay Boundary
Home Hardware Grand Forks	Grand Forks	Kootenay Boundary
Happy Stan's Recycling Services Ltd.	Port Coquitlam	Metro Vancouver
Hartland Landfill Recycling Depot	Victoria	Capital
Heiltsuk Environmental Bella Bella Eco-Depot	Bella Bella	Central Coast
Home Hardware Cranbrook	Cranbrook	East Kootenay
Home Hardware Merritt	Merritt	Thompson-Nicola
Home Hardware Revelstoke	Revelstoke	Columbia-Shuswap
Houston Bottle Depot	Houston	Bulkley-Nechako
Interior Freight & Bottle	Vernon	North Okanagan
Invermere Fire Department	Invermere	East Kootenay
Island Return It Recycling - CAMPBELL RIVER	Campbell River	Strathcona
Island Return It Recycling - DUNCAN	Duncan	Cowichan Valley
Island Return It Recycling - ESQUIMALT	Esquimalt	Capital
Island Return It Recycling - SIDNEY	Sidney	Capital
Island Return-It South Cowichan	Cobble Hill	Cowichan Valley
Island Solid Waste Management	Port Clements	Skeena-Queen Charlotte
J&C Bottle Depot	Penticton	Okanagan Similkameen
Joe's Bottle Depot	Vancouver	Metro Vancouver
Junction Bottle Depot	Ladysmith	Cowichan Valley
Kamloops Fire Rescue	Kamloops	Thompson-Nicola
Kaslo Building Supplies	Kaslo	Central Kootenay
Keremeos Landfill	Keremeos	Okanagan Similkameen
KUTE-Kitimat Recycling Depot	Kitimat	Kitimat-Stikine
Ladner Bottle Depot	Delta	Metro Vancouver

Collection Site Name	City	Regional District
Langley Bottle Depot	Langley	Metro Vancouver
London Drugs #10	Vancouver	Metro Vancouver
London Drugs #11	Richmond	Metro Vancouver
London Drugs #12	Kelowna	Central Okanagan
London Drugs #14	Victoria	Capital
London Drugs #15	Coquitlam	Metro Vancouver
London Drugs #16	Abbotsford	Fraser Valley
London Drugs #17	Delta	Metro Vancouver
London Drugs #18	Langley	Metro Vancouver
London Drugs #19	Vancouver	Metro Vancouver
London Drugs #2	Vancouver	Metro Vancouver
London Drugs #25	Burnaby	Metro Vancouver
London Drugs #28	Vancouver	Metro Vancouver
London Drugs #29	Victoria	Capital
London Drugs #3	New Westminster	Metro Vancouver
London Drugs #35	Kamloops	Thompson-Nicola
London Drugs #36	Nanaimo	Nanaimo
London Drugs #37	Delta	Metro Vancouver
London Drugs #39	Vernon	North Okanagan
London Drugs #4	Vancouver	Metro Vancouver
London Drugs #41	Chilliwack	Fraser Valley
London Drugs #42	South Surrey	Metro Vancouver
London Drugs #44	West Vancouver	Metro Vancouver
London Drugs #46	Victoria	Capital
London Drugs #47	Maple Ridge	Metro Vancouver
London Drugs #5	North Vancouver	Metro Vancouver
London Drugs #50	Vancouver	Metro Vancouver
London Drugs #51	Prince George	Fraser-Fort George



Collection Site Name	City	Regional District
London Drugs #52	Richmond	Metro Vancouver
London Drugs #53	Vancouver	Metro Vancouver
London Drugs #54	Victoria	Capital
London Drugs #55	Mission	Fraser Valley
London Drugs #56	Burnaby	Metro Vancouver
London Drugs #6	Burnaby	Metro Vancouver
London Drugs #61	Gibsons	Sunshine Coast
London Drugs #67	Courtenay	Comox Valley
London Drugs #7	Vancouver	Metro Vancouver
London Drugs #70	Penticton	Okanagan Similkameen
London Drugs #71	Burnaby	Metro Vancouver
London Drugs #72	Nanaimo	Nanaimo
London Drugs #73	Campbell River	Strathcona
London Drugs #74	Vancouver	Metro Vancouver
London Drugs #75	Surrey	Metro Vancouver
London Drugs #76	Westbank	Central Okanagan
London Drugs #77	Duncan	Cowichan Valley
London Drugs #78	Vancouver	Metro Vancouver
London Drugs #8	Surrey	Metro Vancouver
London Drugs #80	Squamish	Squamish Lillooet
London Drugs #81	Surrey	Metro Vancouver
London Drugs #82	Vancouver	Metro Vancouver
London Drugs #85	Abbotsford	Fraser Valley
London Drugs #9	Surrey	Metro Vancouver
Lone Butte Supply	100 Mile House	Cariboo
Lougheed Return-It Depot	Coquitlam	Metro Vancouver
Make/Do (formerly New Life Furniture and Recycling)	Creston	Central Kootenay
Mayne Island Recycling Society	Mayne Island	Capital
Meade Creek Recycling Drop-Off Depot	Lake Cowichan	Cowichan Valley

Collection Site Name	City	Regional District
Mission Recycling Depot	Mission	Fraser Valley
Nelson Home Hardware Building Centre	Nelson	Central Kootenay
New & Nearly New	Kimberley	East Kootenay
Newton Bottle Depot	Surrey	Metro Vancouver
North Shore Bottle Depot	North Vancouver	Metro Vancouver
North Van Bottle Depot	North Vancouver	Metro Vancouver
Oak Bay Recycling Depot	Victoria	Capital
Okanagan Falls Landfill	Okanagan Falls	Okanagan Similkameen
Oliver Sanitary Landfill	Oliver	Okanagan Similkameen
Osoyoos Bottle Depot	Osoyoos	Okanagan Similkameen
Ouellette Bros. Building Supplies Ltd	Fort St James	Bulkley Nechako
Panorama Village Return-It	Surrey	Metro Vancouver
Parksville Bottle & Recycling Depot	Parksville	Nanaimo
Parksville Home Hardware	Parksville	Nanaimo
Peerless Road Recycling Depot	Ladysmith	Cowichan Valley
Pender Island Recycling Society	Pender Island	Capital
PG Recycling (formerly BBK Bottle Depot)	Prince George	Fraser-Fort George
Planet Earth Recycling Ltd.	West Kelowna	Central Okanagan
Port Alberni Recycling Depot (Sun Coast Waste Services)	Port Alberni	Alberni-Clayoquot
Port Hardy Return-it	Port Hardy	Mount Waddington
Powell Street Return-It Bottle Depot	Vancouver	Metro Vancouver
Princeton Return-It Depot	Princeton	Okanagan Similkameen
Quality Glass Ltd.	Ashcroft	Thompson-Nicola

Collection Site Name	City	Regional District
Queensborough Landing Return-It	New Westminster	Metro Vancouver
Recycle-It Resource Recovery	Fort St John	Peace River
Regional Recycling Abbotsford	Abbotsford	Fraser Valley
Regional Recycling Burnaby	Burnaby	Metro Vancouver
Regional Recycling Cloverdale	Surrey	Metro Vancouver
Regional Recycling - Hayes (Nanaimo)	Nanaimo	Nanaimo
Regional Recycling - Old Victoria (Nanaimo)	Nanaimo	Nanaimo
Regional Recycling Prince Rupert	Prince Rupert	Skeena-Queen Charlotte
Regional Recycling Richmond	Richmond	Metro Vancouver
Regional Recycling Vancouver	Vancouver	Metro Vancouver
Regional Recycling Whistler	Whistler	Squamish Lillooet
Ridge Meadows Recycling Society	Maple Ridge	Metro Vancouver
RONA (Alert Bay)	Alert Bay	Mount Waddington
RONA (Penticton)	Penticton	Okanagan Similkameen
RONA Home Centre (Hope)	Hope	Fraser Valley
Salt Spring Island Recycling Depot	Saltspring Island	Capital
Salvation Army Langley	Langley	Metro Vancouver
Sardis Bottle Depot	Chilliwack	Fraser Valley
Scotch Creek Bottle Depot	Scotch Creek	Columbia-Shuswap
Scott Road Bottle Depot	Surrey	Metro Vancouver
Semiahmoo Bottle Depot	Surrey	Metro Vancouver
Home Hardware Shepherds	Armstrong	North Okanagan
Home Hardware Smithers	Smithers	Bulkley-Nechako
Home Hardware Sooke	Sooke	Capital
South Van Bottle Depot	Vancouver	Metro Vancouver
Steveston Return-It Depot	Richmond	Metro Vancouver

Collection Site Name	City	Regional District
Summerland Sanitary Landfill	Summerland	Okanagan Similkameen
The Battery Doctors	Kelowna	Central Okanagan
The City of New Westminster Recycling	New Westminster	Metro Vancouver
The Hut Bottle Depot	Princeton	Okanagan Similkameen
Thornhill Fire Department	Terrace	Kitimat-Stikine
Thorsen Creek Recycling Depot	Bella Coola	Central Coast
Trail Bay Hardware	Sechelt	Sunshine Coast
Trail Bottle Depot	Trail	Kootenay Boundary
Ucluelet Bottle Depot	Ucluelet	Alberni-Clayoquot
Valemount Recycling Centre	Valemount	Fraser-Fort George
Venture Training Vernon	Vernon	North Okanagan
Village of Gold River	Gold River	Strathcona
Village of Montrose	Montrose	Kootenay Boundary
Walnut Grove Bottle Depot	Langley	Metro Vancouver
Wesbrook Community Centre	Vancouver	Metro Vancouver
Westcoast Hardware	Port Alberni	Alberni-Clayoquot
White Rock Return-it Depot	Surrey	Metro Vancouver
Wide Sky Disposal	Fort Nelson	Northern Rockies
Willowbrook Recycling Depot	Langley	Metro Vancouver

## Appendix D: Breakdown of Collection Sites by Regional District

Regional District	# of Collection Sites
Alberni-Clayoquot	3
Bulkley-Nechako	5
Capital	15
Cariboo	5
Central Coast	3
Central Kootenay	4
Central Okanagan	8
Columbia-Shuswap	3
Comox Valley	3
Cowichan Valley	7
East Kootenay	5
Fraser-Fort George	4
Fraser Valley	13
Kitimat-Stikine	4
Kootenay Boundary	3
Metro Vancouver	63
Mount Waddington	3
Nanaimo	7
North Okanagan	6
Northern Rockies	1
Okanagan-Similkameen	9
Peace River	5
Powell River	1
Skeena-Queen Charlotte	2
Squamish Lillooet	4
Strathcona	5
Sunshine Coast	3
Thompson-Nicola	7
<b>Total</b>	<b>201</b>

## **Appendix E: 2018 Audited Financial Statements**

**PRODUCT CARE ASSOCIATION OF CANADA  
BC SMOKE AND CARBON MONOXIDE  
(CO) ALARMS PROGRAM**

**STATEMENT OF REVENUES AND EXPENSES**

**31 DECEMBER 2018**

**PRODUCT CARE ASSOCIATION OF CANADA  
BC SMOKE AND CARBON MONOXIDE (CO) ALARMS PROGRAM  
Statement of Revenues and Expenses  
For the year ended 31 December 2018**

**Contents**

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**ROLFE, BENSON LLP**

CHARTERED PROFESSIONAL ACCOUNTANTS

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## INDEPENDENT AUDITORS' REPORT

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To: BC Ministry of Environment,

### **Report on the Audit of the Statement of Revenues and Expenses**

#### **Opinion**

As required by the British Columbia Environmental Management Act, Recycling Regulation 8(2)(f)(ii), we have audited the Statement of Revenues and Expenses of the BC Smoke and Carbon Monoxide (CO) Alarms Program (the "Statement") as reported by Product Care Association of Canada (the "Association") for the year ended 31 December 2018 and a summary of significant accounting policies and other explanatory information.

In our opinion, the Statement presents fairly, in all material respects, the revenues and expenses of the BC Smoke and Carbon Monoxide (CO) Alarms Program for the year ended 31 December 2018 in accordance with Canadian accounting standards for not-for-profit organizations.

#### **Basis for Opinion**

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the Auditors' Responsibilities section of our report. We are independent of the Association in accordance with the ethical requirements that are relevant to our audit of the Statement in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### **Other Matter - Restriction on Distribution and Use**

This report is prepared on the direction of Product Care Association of Canada's management and the BC Ministry of Environment. As a result, the report may not be suitable for another purpose. Our report is intended solely for Product Care Association of Canada's management and the BC Ministry of Environment and should not be distributed to other parties.

#### **Responsibilities of Management and Those Charged with Governance for the Statement**

Management is responsible for the preparation and fair presentation of the Statement in accordance with Canadian accounting standards for not-for-profit organizations and for such internal control as management determines is necessary to enable the preparation of Statement that is free from material misstatement, whether due to fraud or error.



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## **INDEPENDENT AUDITORS' REPORT - continued**

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In preparing the Statement, management is responsible for assessing the Association's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Association or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Association's financial reporting process.

### **Auditors' Responsibilities**

Our objectives are to obtain reasonable assurance about whether the Statement as a whole is free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of this Statement.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the Statement, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Association's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Association's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the Statement or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Association to cease to continue as a going concern.



**ROLFE, BENSON LLP**

CHARTERED PROFESSIONAL ACCOUNTANTS

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## INDEPENDENT AUDITORS' REPORT - continued

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- Evaluate the overall presentation, structure and content of the Statement, including the disclosures, and whether the Statement represents the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

*Rolfe, Benson LLP*

CHARTERED PROFESSIONAL ACCOUNTANTS

Vancouver, Canada  
4 April 2019

---

**PRODUCT CARE ASSOCIATION OF CANADA**  
**BC SMOKE AND CARBON MONOXIDE (CO) ALARMS PROGRAM**  
**Statement of Revenues and Expenses**  
**For the year ended 31 December 2018**

	2018	2017
<b>Revenues</b>	<b>\$ 714,225</b>	<b>\$ 699,275</b>
<b>Program expenses</b>		
Processing	303,094	292,988
Collection	68,304	84,756
Transportation	42,681	32,893
Administration (Note 2(c))	42,104	42,587
Communications	26,334	52,741
	<u>482,517</u>	<u>505,965</u>
<b>Excess of revenues over expenses for the year</b>	<b>\$ 231,708</b>	<b>\$ 193,310</b>

**Commitment (Note 3)**

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**PRODUCT CARE ASSOCIATION OF CANADA**  
**BC SMOKE AND CARBON MONOXIDE (CO) ALARMS PROGRAM**  
**Notes to the Statement of Revenues and Expenses**  
**For the year ended 31 December 2018**

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**1. Basis of Presentation**

The Statement of Revenues and Expenses (the "Statement") only includes the revenues and expenses related to the BC Smoke and Carbon Monoxide (CO) Alarms Program (the "Program"), a segment of the operations of Product Care Association of Canada (the "Association").

**2. Summary of Significant Accounting Policies**

The Statement is prepared in accordance with Canadian accounting standards for not-for-profit organizations. The significant policies are detailed as follows:

**(a) Revenue Recognition**

Environmental Handling Fees are received from members of the Association making sales of designated program materials within the province of British Columbia. The Association recognizes these fees as revenue when received or receivable if the amount to be received can be reasonably estimated and collection is reasonably assured. Environmental Handling Fees revenues are recognized as individual members report and remit them as required by the Association's membership agreement which is at the end of the month following the reporting period that the designated program materials were sold by the member.

**(b) Use of Estimates**

The preparation of financial statements in accordance with Canadian accounting standards for not-for-profit organizations requires management to make estimates and assumptions that affect the reported amounts of revenues and expenses and disclosure of contingencies included in the Statement. Accounts subject to estimates include revenue accruals, expense accruals, overhead allocation and processing commitments. Actual results could differ from those estimates.

**(c) General and Administrative Expenses - Overhead Allocation**

A portion of the total general and administrative expenses of the Association, net of expense recoveries, has been allocated to the Program. The allocation of general and administrative expenses to the Program is determined using the percentage of program specific operating expenses as compared to total operating expenses for all the Association's programs. Included in administration expense is \$30,021 (2017 - \$27,733) of overhead expense which has been allocated to the Program.

**3. Processing Commitment**

At year end, the Association had unprocessed program materials on hand related to the Program with an estimated cost to process, transport and recycle of \$173,778 (2017 - \$150,518) which will be incurred in 2019.

## **Appendix F: 2018 Independent Non–Financial Audit**

**PRODUCT CARE ASSOCIATION OF CANADA**

**BC SMOKE AND CARBON MONOXIDE (CO)  
ALARMS PROGRAM**

**INDEPENDENT REASONABLE  
ASSURANCE REPORT**

**31 DECEMBER 2018**



**ROLFE, BENSON LLP**

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## INDEPENDENT REASONABLE ASSURANCE REPORT

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To the Directors of  
Product Care Association of Canada,

### **Assurance Level and Selected Information**

We have been engaged by Product Care Association of Canada (the “Association”) to perform a reasonable assurance engagement in respect of the following information (the “Selected Information”) detailed in Appendix 1, and also included within the Association’s Annual Report for the BC Smoke and Carbon Monoxide (CO) Alarms (“AlarmRecycle”) Program to the British Columbia Ministry of Environment and Climate Change Strategy for the year ended 31 December 2018:

- Section 4 - Collection System and Facilities and Appendix C - the location of collection facilities, and any changes in the number and location of collection facilities from the previous report in accordance with Section 8(2)(b) of BC Regulation 449/2004 (the “Recycling Regulation”);
- Section 6 - Pollution Prevention Hierarchy and Product/Component Management - the description of how the recovered product was managed in accordance with the pollution prevention hierarchy under Section 8(2)(d) of the Recycling Regulation;
- Section 7 - Product Collected - the description of how total amounts of the producer’s product collected has been calculated in accordance with Section 8(2)(e) of the Recycling Regulation; and
- Section 9 - Plan Performance – the description of performance for the year in relation to targets in the approved stewardship plan under Section 8(2)(b), (d) and (e) of the Recycling Regulation.

Our reasonable assurance engagement does not constitute a legal determination on the Association’s compliance with Sections 8(2)(b), (d) and (e) of the Recycling Regulation.



**Responsibilities**

Preparation and fair presentation of the Selected Information in accordance with the evaluation criteria as listed in Appendix 1 is the responsibility of the Association's management. Management is also responsible for such internal control as management determines is necessary to enable the preparation of the Selected Information such that it is free from material misstatement. Furthermore management is responsible for preparation of suitable evaluation criteria in accordance with the Recycling Regulation Guidance - Third Party Assurance for Non-Financial Information in Annual Reports - 2018 Reporting Year dated October 2018 as specified by the Director under section 8(2)(h) of the Recycling Regulation of the Province of British Columbia.

Our responsibility is to express an opinion on the Selected Information based on the procedures we have performed and the evidence we have obtained.

**Evaluation Criteria**

The evaluation criteria presented in Appendix 1 are an integral part of the Selected Information and address the relevance, completeness, reliability, neutrality and understandability of the Selected Information.

**Applicable Quality Control Requirements**

We apply Canadian Standard on Quality Control 1 and, accordingly, maintain a comprehensive system of quality control, including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

**Scope of the Reasonable Assurance Engagement**

We carried out our reasonable assurance engagement in accordance with the International Standard on Assurance Engagements 3000 (ISAE 3000) published by the International Federation of Accountants. This Standard requires that we comply with independence requirements and plan and perform the engagement to obtain reasonable assurance about whether the Selected Information is free of material misstatement.

A reasonable assurance engagement includes examining, on a test basis, evidence supporting the amounts and disclosures within the Selected Information. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement in the Selected Information due to omissions, misrepresentations and errors. In making those risk assessments, we consider internal control relevant to the entity's preparation and fair presentation of the Selected Information in order to design assurance procedures that are appropriate in the circumstances, but not for the purpose of expressing a conclusion on the effectiveness of the entity's internal control. A reasonable assurance engagement also includes assessing the evaluation criteria used and significant estimates made by management, as well as evaluating the overall presentation of the Selected Information. The main elements of our work were:

- Gain an understanding of the data collection, monitoring and reporting processes through inquiries of management;
- Testing the processes, documents and records on a sample basis;
- Re-calculating quantitative data on a sample basis as it pertains to the Selected Information; and
- Evaluation the presentation of the Selected Information in the Annual Report.



We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion.

### **Inherent Limitations**

Non-financial performance information is subject to more inherent limitations than financial information, given the characteristics of the Selected Information and the methods used for determining and calculating such information. Qualitative interpretations of relevance, materiality and the accuracy of data are subject to individual assumptions and judgments. Furthermore, the nature and methods used to determine such information, as well the evaluation criteria and the precision thereof, may change over time. It is important to read our report in the context of the evaluation criteria.

### **Conclusion**

In our opinion, the Selected Information within Product Care Association of Canada's Annual Report for the BC Smoke and Carbon Monoxide (CO) Alarms Program for the year ended 31 December 2018 presents fairly in accordance with the evaluation criteria, in all material respects:

- The location of collection facilities, and any changes in the number and location of collection facilities from the previous report in accordance with Section 8(2)(b) of the Recycling Regulation;
- The description of how the recovered product was managed in accordance with the pollution prevention hierarchy under Section 8(2)(d) of the Recycling Regulation;
- The description of how total amounts of the producer's product collected has been calculated in accordance with Section 8(2)(e) of the Recycling Regulation; and
- The description of performance for the year in relation to targets in the approved stewardship plan under Section 8(2)(b), (d) and (e) of the Recycling Regulation.

### **Emphasis of Matter**

Without qualifying our opinion, the following should be noted regarding the information contained in the Annual Report:

1. The Selected Information included in Section 6 - Pollution Prevention Hierarchy and Product/Component Management is determined based on supporting documentation and survey responses from the primary processors. Hazardous materials are not tracked on shipping manifests until radioactive alarms are broken into sub-components and the radioactive material is sent from the primary processors to a secondary storage facility. For one of the primary processors, this process is completed in the United States and falls under the US Environmental Protection Agency standards. No shipping documents have been reviewed to ensure these standards have been met. The second primary processor is located outside of B.C. Due to this, no B.C. hazardous waste manifests were available to verify the final disposition of these materials. As such, there is uncertainty surrounding the Selected Information contained in the Pollution Prevention Hierarchy section of Appendix 1.



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2. The amount of product sold and recovery rate was not included in the scope of the Selected Information. Given the small number of manufacturers of these products selling into the B.C. market, it was approved by the Ministry of Environment that aggregated sales data would not be made publicly available in the Annual Report. As the Association is not required to report sales data, the recovery rate has also been excluded from the scope of the Selected Information as sales data forms part of this calculation.

#### **Other Matter**

Our report has been prepared solely for the purposes of management's stewardship under the Recycling Regulation and is not intended to be and should not be used for any other purpose. Our duties in relation to this report are owed solely to the Association, and accordingly, we do not accept any responsibility for loss occasioned to any other party acting or refraining from acting based on this report.

*Rolfe, Benson LLP*

CHARTERED PROFESSIONAL ACCOUNTANTS

Vancouver, British Columbia  
24 June 2019

## Appendix 1

### Evaluation Criteria

#### Collection facilities

<b>Specific disclosures in the annual stewardship report from Section 4 - Collection System and Facilities for which evaluation criteria were developed</b>	
<b>Disclosure per Annual Report</b>	<b>Reference</b>
Total number of collection facilities – 201	Table 1: Collection Site by Type (2017 and 2018)  Appendix C – List of 2018 Program Collection Sites
Change in the number of collection facilities in 2018 – “5 collection sites added and 1 collection site was removed.”	

The following evaluation criteria were applied to the assessment of the location of collection facilities, and any changes in the number and location of collection facilities from the previous report in accordance with Section 8(2)(b) of the Recycling Regulation:

- “Collection facilities” are depots that have a signed contract with the Association for the collection of program materials during the reporting period: 1 January – 31 December 2018, a physical location that is available to collect program materials and the staff of the facility has an adequate understanding of the program.
- The Association maintains a listing of all collection facilities for the program, including the location of the collection facility, the total of which agrees to the number of collection facilities as disclosed in the Annual Report.
- Large volume end users (LVEU’s) are excluded from the number of collection facilities.
- The change in number of collection facilities is calculated by comparing the current number of collection facilities, a sum of all the collection facilities that have a signed contract within a given reporting year and those that closed within the same reporting year, to the number of collection facilities reported in the prior reporting year.

#### Pollution prevention hierarchy

<b>Specific disclosures in the annual stewardship report from Section 6 - Pollution Prevention Hierarchy and Product/Component Management for which evaluation criteria were developed</b>	
<b>Disclosure per Annual Report</b>	<b>Reference</b>
“The following is based on information provided by the Program’s downstream processors, where available, or based on the understanding of the service agreement with the downstream processors.”	
Alarm Type: Radioactive Alarms Sub-component: Radioactive cells End fate: 100% of product recovered stored at licensed long-term storage facility  Sub-component: Plastic End fate: 100% of product recovered recycled  Sub-component: Metal End fate: 100% of product recovered recycled	Table 2: Product / Component Management

<p>Alarm Type: Photovoltaic (non-radioactive alarms)  Sub-component: Plastic  End fate: 100% of product recovered recycled</p> <p>Sub-component: Metal  End fate: 100% of product recovered recycled</p> <p>“Some of the alarms collected in 2018 were not shipped for processing until the subsequent year. Statements regarding the end fate of alarms are in reference to materials processed in 2018 only.”</p> <p>“Based on information provided in end fate surveys completed by the Program’s primary processors.”</p>	
<p>“According to information obtained from end fate surveys completed by the downstream processors, the plastic and metal components are separated and sent for recycling and the Am-241 foil is shipped for final disposal at a licensed radioactive waste facility.”</p>	

The following evaluation criteria were applied to the assessment of how the recovered product is managed in accordance with the pollution prevention hierarchy in accordance with Section 8(2)(d) of the Recycling Regulation:

- The Association maintains a listing of all products shipped to the primary processors which is supported by shipping documents or processor invoices.
- One of the program’s primary processors provides documents indicating the amounts of Am-241 collected, the other processor provides documentation showing shipments of Am-241 to the downstream processor.
- The processors provide information on product management in an annual questionnaire.
- The Association performs periodic site inspections of the processors’ facilities. Site inspection criteria have been developed to confirm the responses in the questionnaire provided by the primary processor. Site inspections were performed for both primary processors in 2016. Following the initial site inspections in 2016, a site inspection was performed for one of the processors during 2018.

#### Product collected

Specific disclosures in the annual stewardship report from Section 7 - Product Collected for which evaluation criteria were developed	
Disclosure per Annual Report	Reference
# of alarms collected – in small containers 85,260	Table 3: Units Collected, January 1 – December 31, 2018
# of alarms collected – in mega bags 10,813	
“The number of alarms collected in small containers (boxes and totes) and mega-bags was estimated by multiplying the number of small containers and mega-bags collected during the year by a conversion factor of 42 alarms per small container and 983 alarms per mega-bag. The conversion factors were calculated by averaging the sorted values of more than 1,500 small collection containers and 15 mega-bags, which were collected in 2018 and counted at the time of sorting and consolidation at Product Care’s facility.”	

The following evaluation criteria were applied to the assessment of the description of how total amounts of the producer’s product collected has been calculated in accordance with Section 8(2)(e) of the Recycling Regulation:

- The Association maintains a listing of product collected by product category for the fiscal year which agrees to the amounts disclosed in the Annual Report.
- Each shipment of product collected is supported by documentation indicating the total number of small containers or mega bags collected and the type of program materials collected which has been agreed upon by the shipper, receiver and carrier.
- The calculation of the number of alarms in small containers is determined using the total number of small containers collected during the year and converting to units using the average number of units per boxes. The average number of units per box is determined by counting the contents of a sample of small containers received during the year.
- The number of alarms collected in mega bags is determined using the total number of mega bags collected during the year and converting to units using the average number of units per mega bag. The average number of units per mega bag is determined by counting the contents of a sample of mega bags received during the year.
- The Association is not required to present product sold or a recovery rate in the Annual Report. Given the small number of manufacturers of these products selling into the B.C. market, it was approved by the BC Ministry of Environment and Climate Change Strategy that aggregated sales data would not be made publicly available in the Annual Report.

#### **Performance targets**

<b>Specific disclosures in the annual stewardship report from Section 9 – Plan Performance for which evaluation criteria were developed</b>	
<b>Disclosure per Annual Report</b>	<b>Reference</b>
Target – units collected 2018 Assertion – Target exceeded: Approximately 96,073 units collected	Table 8: 2018 Key Program Measures and Performance

The following evaluation criteria were applied to the assessment of the description of performance for the year in relation to targets in the approved stewardship plan under Section 8(2)(b), (d) and (e) of the Recycling Regulation:

- All stewardship plan targets relating to Section 8(2)(b), (d) and (e) of the Recycling Regulation have been identified and reported on by management in the Annual Report.
- The description of progress against targets to date is supported by records of progress maintained by the Association.