



# LightRecycle 2014 Annual Report

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## 1 Executive Summary

This annual report has been prepared by Product Care Association (“PCA”) based on the requirements set in the BC Lamps and Lighting Equipment Stewardship Plan dated March 9, 2012 and approved by the BC Ministry of Environment on April 23, 2012 (“Program Plan”) and pursuant to the requirements of the Recycling Regulation B.C. Reg. 449/2004 (“Regulation”).

From July 1, 2010 to July 1, 2012, Product Care Association’s British Columbia LightRecycle Program (“Program”) included residential-use fluorescent lamps only. On July 1, 2012, the Program expanded to include “all electronic or electrical lighting equipment, parts and bulbs<sup>1</sup>” used in residential and non-residential applications, pursuant to the requirements of the Regulation. This report covers the period of January to December 2014.

Lamps, lighting fixtures and ballasts used in residential and non-residential applications are covered under PCA’s Program Plan. These products are broken down into thirteen categories:

<b>Product Categories</b>	<ol style="list-style-type: none"><li>1. Fluorescent/Induction/UV Tubes measuring <math>\leq</math> 2 feet</li><li>2. Fluorescent/Induction/UV Tubes measuring <math>&gt;</math> 2 feet and <math>\leq</math> 4 feet</li><li>3. Fluorescent/Induction/UV Tubes measuring <math>&gt;</math> 4 feet</li><li>4. Compact Fluorescent Lights (CFL)/ Screw-In Induction Lamps</li><li>5. Light Emitting Diodes (LED)</li><li>6. High Intensity Discharge (HID) and Other</li><li>7. Incandescent / Halogen</li><li>8. Miniature Bulb Package</li><li>9. Designated Small Fixtures / Decorative Light Strings</li><li>10. Fixture Category A</li><li>11. Fixture Category B</li><li>12. Large Outdoor Fixtures</li><li>13. Ballasts/Transformers (not integrated into lamps or fixtures)</li></ol>
<b>Program Website</b>	The BC LightRecycle website is <a href="http://www.lightrecycle.ca">www.lightrecycle.ca</a>

See the complete list of products covered under the Program Plan at [www.lightrecycle.ca/consumers/accepted-products](http://www.lightrecycle.ca/consumers/accepted-products).

Table 1 provides a summary of the Program regulatory requirements and Program components for 2014.

<sup>1</sup> Recycling Regulation B.C. Reg. 449/2004 Part 4, Schedule 3, Section 2 (1) (e)

Table 1: BC LightRecycle Program Summary of 2014 Components

Regulation Provision	Topic	Summary
Part 2, section 8(2)(a)	Public Education Materials and Strategies	<ul style="list-style-type: none"> <li>• Paid Advertising, Media &amp; Partnerships</li> <li>• Community Events &amp; Collateral</li> <li>• Point of Sale and Point of Return Materials</li> <li>• Program website</li> <li>• PCA Toll-free number and RCBC Hotline &amp; Recyclepedia</li> <li>• Stakeholder Relations</li> </ul>
Part 2, section 8(2)(b)	Collection System and Facilities	<p>The Program contracted with 451 locations including:</p> <ul style="list-style-type: none"> <li>• Residential lamps collection sites</li> <li>• Residential fixtures collection sites</li> <li>• Commercial lamps collection sites</li> <li>• Commercial fixtures / Non-PCB ballasts collection sites</li> </ul> <p>Additional collection services included:</p> <ul style="list-style-type: none"> <li>• Direct pickup service for PCB ballast</li> <li>• Direct pick-up service for Large Volume Generators of lamps and pre-crushed lamps</li> <li>• Unadvertised collection sites and limited number of collection events</li> </ul>
Part 2, section 8(2)(c)	Product Environmental Impact Reduction, Reusability and Recyclability	<p>Producers are working to reduce the environmental impact of lighting products through innovative product design and technology. Life-cycle management is also playing an important role in reducing the environmental impact of lighting products.</p>
Part 2, section 8(2)(d)	Pollution Prevention Hierarchy and Product / Component Management	<ul style="list-style-type: none"> <li>• Lamps were broken down into component parts (glass, metal, mercury, phosphor powder) and recovered/recycled:             <ul style="list-style-type: none"> <li>○ Mercury was recovered, recycled and reused in manufacturing processes.</li> <li>○ Metal was recycled and reused in manufacturing processes.</li> <li>○ Glass was recycled and reused in manufacturing processes and/or manufactured into sandblast media.</li> <li>○ Phosphor powder went through a retort process to retrieve available mercury and the remaining powder was landfilled.</li> </ul> </li> <li>• Some porcelain and plastic were sent to waste to energy facilities.</li> <li>• Residential-use fixtures were broken down into component parts for recovery / recycling.</li> <li>• Commercial fixtures and non-PCB ballasts were collected and managed through the existing market driven scrap metal recycling system.</li> <li>• PCB ballasts were collected and managed as hazardous waste and sent for incineration.</li> </ul>

Regulation Provision	Topic	Summary
Part 2, section 8(2)(e)	Product Sold and Collected and Recovery Rate	<ul style="list-style-type: none"> <li>• Program members reported selling 34,590,953 units of program products.</li> <li>• In 2014, the program collected an estimated: <ul style="list-style-type: none"> <li>- 4,548,481 units of lamps</li> <li>- 262 tonnes of fixtures from residential collection sites</li> <li>- 22,458 kilograms of PCB ballasts</li> <li>- 18,509 kilograms of crushed lamps</li> </ul> </li> </ul>
Part 2, section 8(2)(e.1)		See Table 10 for estimated collection volumes by Regional Districts.
Part 2, section 8(2)(f)	Summary of Revenues and Expenses	<ul style="list-style-type: none"> <li>• The program is funded by members based on fees applied to the sale of new program products sold in or into British Columbia.</li> <li>• An independent financial audit for the reporting period is appended to the report (Appendix C).</li> </ul>

Comparison of Key Performance Targets			
Part 2 section 8(2)(g);			
2014 Priority Stewardship Plan Targets		2014 Performance	Strategies for Improvement
Capture Rate Targets – Fluorescent Tubes	Target: 22-37% in 2014	39%	N/A
Capture Rate Targets – CFLs	Target: 28-38% in 2014	136%	N/A

Performance targets for the percent of population with access to a collection site and the percent of population aware of the program were set for 2013 and achieved. For details, please see the 2013 LightRecycle Annual Report. Additional consumer awareness targets for the percent of population aware of the program were set for 2015 and 2017 in the Program Plan, which will be reported against in the Annual Reports for those years.

## 2 Program Outline

PCA is a federally incorporated, not-for-profit product stewardship association formed in response to stewardship regulations and is governed by a multi-sector industry board of directors.

In 2014, the LightRecycle Program operated in accordance with PCA's Program Plan pursuant to the requirements of the Regulation. This Program has been operating for three of five years and will end mid-2017.

Between January 1, 2014, and Dec 31, 2014, the LightRecycle Program captured end-of-life lamps and lighting equipment products from all sectors (residential, institutional, commercial and industrial) and diverted them from the landfill.

## 3 Public Education Materials and Strategies

In 2014, LightRecycle engaged in extensive communication efforts to inform British Columbians about the Program. The following list outlines the Program's public education materials and strategies for 2014:

- Paid Advertising, Media & Partnerships
- Community Events & Collateral
- Point of Sale and Point of Return Materials
- Program Website
- PCA Toll-free Number and RCBC Hotline & Recyclepedia
- Stakeholder Relations

Details of the initiatives undertaken by the LightRecycle Program during 2014 are provided below. See Appendix A for examples of Program materials and advertising.

### **Paid Advertising, Media & Partnerships**

- In response to the January 2014 incandescent light bulb ban, an op-ed piece by President Mark Kurschner was submitted to the Vancouver Sun and ran on January 14, 2014.
- From mid-May to mid-August, awareness was raised through a promotional campaign in partnership with JackFM. The LightRecycle branded "Trucksicle" acted as a mobile collection hub at 103 community events around the Lower Mainland.
- In addition to the Trucksicle tour, an extensive inventory of radio ads supported the campaign and delivered on LightRecycle messaging.
- Print ads providing general information about the Large Volume Generator (LVG) side of the LightRecycle Program appeared in British Columbia Electrical Association's (BCEA) Membership Directory & Buyers Guide, Electro-Fed, Electrical Line Magazine, and Yellow Pages.

### **Community Events & Collateral**

- LightRecycle participated in, and offered collection at, community events across the lower mainland, including the Dragon Boat Festival in Vancouver and Uptown Live in New Westminster. Brand ambassadors promoted the Program using interactive games and giveaways.
- New event collateral, such as a branded tent, tablecloth, and pop-up banners were created to ensure the Program had a strong visual presence at these community events.

### **Point of Sale and Point of Return Materials**

- Program posters and brochures for existing retailers and collection sites were replenished upon request free of charge.
- A collection facility recycling poster was distributed to collection sites across the province to promote the recycling of holiday light strings at those depots who collect them.

### **Company and Program Website**

- A new company website ([www.regeneration.ca](http://www.regeneration.ca)) was developed to improve PCA's consumer engagement efforts and make the association more accessible, friendlier and more intuitive for all audiences, with the ultimate goal of increasing Program awareness and collection volumes. The site included a BC Lights page in English and French including:
  - Collection site finder
  - Collection site hours and operations
  - Program product lists

An estimated 68,090 unique visitors utilized the new company website during the 2014 calendar year. The collection site finder page specifically had an estimated 28,160 unique page views.

- In 2014, there were 29,927 unique visitors to the Program website ([www.lightrecycle.ca](http://www.lightrecycle.ca)). In addition, the Program took steps towards redesigning the LightRecycle website, which will be launched in early 2015.

### **PCA Toll-free Number and RCBC Hotline & Recyclepedia**

- PCA operated a toll-free number (1-888-772-9772) to answer consumer inquiries.
- Information about LightRecycle was provided on the [RCBC website](#), in the [RCBC Recyclepedia](#), which received 3,506 visits and through the RCBC Hotline, which answered 2,698 call about the Program.

### **Stakeholder Relations**

- Member notices regarding Program updates were sent as needed, keeping key members up to date with Program information.
- BOMA BC shared information about the LightRecycle Program in its January eNewsletter. The organization was willing to share LightRecycle Program updates with its members, extending reach within the property management community.

## 4 Collection System and Facilities

The BC LightRecycle Program provides a free and convenient collection system for all consumers of Program products. PCA does not directly own or manage collection sites, but rather has contracts in place with facilities to operate as collection sites for the Program. Contracted facilities include retailers, recycling organizations (both non-profit and for profit), local government recycling centers or transfer stations and other associations or businesses interested in participating in the Program. The collection system accepts lamps, ballasts and fixtures from residential, institutional, commercial and industrial sectors broken down into 13 categories. Table 2 provides a list of the Accepted Product Categories.

Table 1: BC LightRecycle Program 2014 Accepted Product Categories

<b>Product Categories</b>	<ol style="list-style-type: none"><li>1. Fluorescent/Induction/UV Tubes measuring <math>\leq 2</math> feet</li><li>2. Fluorescent/Induction/UV Tubes measuring <math>&gt; 2</math> feet and <math>\leq 4</math> feet</li><li>3. Fluorescent/Induction/UV Tubes measuring <math>&gt; 4</math> feet</li><li>4. Compact Fluorescent Lights (CFL)/ Screw-In Induction Lamps</li><li>5. Light Emitting Diodes (LED)</li><li>6. High Intensity Discharge (HID) and Other</li><li>7. Incandescent / Halogen</li><li>8. Miniature Bulb Package</li><li>9. Designated Small Fixtures / Decorative Light Strings</li><li>10. Fixture Category A</li><li>11. Fixture Category B</li><li>12. Large Outdoor Fixtures</li><li>13. Ballasts/Transformers (not integrated into lamps or fixtures)</li></ol>
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See the complete list of products covered under the Program at:

<http://www.lightrecycle.ca/consumers/british-columbia/accepted-products/>

### 4.1 Collection Sites

Different collection systems are needed depending on the type of use (residential or commercial), the type of product (lamps or fixtures) and the quantities involved. Accordingly, the Program has established four different types of advertised collection sites: residential lamps, residential fixtures, commercial lamps and commercial fixtures, and non-PCB ballasts. BC LightRecycle collection site locations are advertised by type.

In 2014, the BC LightRecycle Program had contracts with 451 different collection facilities across the province. The Program added 19 contracts and ended 12 contracts in 2014. See Appendix B for a full list of contracted collection sites and the lists of contracts that were added and ended in 2014. Many locations accept multiple Program product types (e.g., both residential lamps and residential fixtures), and were advertised separately for each product type. As a result the Program advertised a total of 501 collection site locations in 2014, despite there being only 451 independent collection facilities.



Table 3 shows the quantity of BC LightRecycle collection site locations, broken down by type.

Table 3: BC LightRecycle Product 2014 Collection Sites Breakdown

<b>Advertised Collection Sites by Type</b>	<b>2014 Locations</b>	<b>2013 Locations</b>
<b>Advertised Residential Lamps</b> Collection sites accepting residential volumes of lamps (up to 16 units)	199	196
<b>Advertised Residential Fixtures</b> Collection sites accepting residential volumes of fixtures	129	128
<b>Advertised All Sector Lamps (Commercial)</b> Collection sites accepting commercial volumes of lamps (more than 16 units)	106	103
<b>Advertised Commercial Fixtures &amp; Non-PCB Ballasts</b> Collection sites accepting commercial volumes of fixtures & Non-PCB Ballasts	67	67
<b>Subtotal Total</b>	<b>501</b>	<b>494</b>
<b>Unadvertised Commercial Lamps</b> An unadvertised contracted collection site, typically collecting lamps as an unadvertised service for customers	14	14
<b>Unadvertised Commercial Lamps Consolidators</b> Unadvertised contracted collection site consolidating smaller volumes of commercial lamps into larger quantities, not qualified for Large Volume Generator pickup services.	15	16
<b>Unadvertised Residential Fixtures</b> An unadvertised contracted collection site, typically collection fixtures as an unadvertised service for customers	13	13
<b>Total</b>	<b>543</b>	<b>537</b>

Notes:

1. All advertised and unadvertised collection sites are contracted by the Program.
2. Some collection sites may provide more than one type of collection service and are reported separately as a collection site in each type of collection facility in the above table.

## 4.2 Collection Events

The Program participated in a limited number of collection events that were organized and operated by local governments. Table 4 provides a list of locations and dates for collection events held in BC in 2014.

Table 4: BC LightRecycle Program 2014 Collection Events

Location	Date
Sicamous	27-Apr-14
Golden	3-May-14
Mission	10-May-14
Cache Creek	24-May-14
Merritt	25-May-14
Kamloops	7-Jun-14
Salt Spring Island	23-Jul-14
Castlegar	6-Sep-14
Enderby	13-Sep-14
Lumby	13-Sep-14
Vernon	13-Sep-14
Fernie	20-Sep-14
Invermere	20-Sep-14
Cranbrook	21-Sep-14
Golden	27-Sep-14
Salmon arm	27-Sep-14
Pender Island	3-Oct-14
Chilliwack	6-Oct-14
Nakusp	8-Oct-14
Creston	18-Oct-14
Langley	20-Oct-14

In addition to these collection site locations and events, the BC LightRecycle Program had 42 unadvertised collection sites, including:

- 14 unadvertised commercial lamps collection sites,
- 15 unadvertised commercial lamps consolidator sites, and
- 13 unadvertised fixtures sites.

Table 5 provides a list of contracted collection sites by regional district. See Appendix B for a complete list of advertised and unadvertised collection site locations.

Table 5: BC LightRecycle Program 2014 Collection Site Breakdown by Regional District

Regional District	# of Collection Sites
Alberni-Clayquot	6
Bulkley-Nechako	8
Capital	45
Cariboo	10
Central Coast	2
Central Kootenay	9

Regional District	# of Collection Sites
Central Okanagan	13
Columbia Shushwap	9
Comox Valley	6
Cowichan Valley	14
East Kootenay	8
Fraser Valley	27
Fraser-Fort George	5
Kitimat Stikine	7
Kootenay Boundary	7
Metro Vancouver	158
Mt Waddington	8
Nanaimo	17
North Okanagan	11
Northern Rockies	4
Okanagan Similkameen	17
Peace River	7
Powell River	4
Skeena-Queen Charlotte	3
Sointula	1
Squamish Lillooet	10
Strathcona	9
Sunshine Coast	8
Thompson Nicola	18
<b>Total</b>	<b>451</b>

Note: While collection sites that provide collection services for more than one product type are reported under each product type in Table 3, these sites are only counted as one collection site for the purposes of

Table .

### 4.3 Large Volume Collections

In addition to collection sites, large volume generators (LVGs) of the following program products that meet minimum volumes receive free direct pick-up services:

- Whole lamps
- Drums of pre-crushed lamps
- PCB ballasts

These pick-up services are generally targeted at commercial generators with large volumes of program products for recycling and were designed to ensure they can conveniently recycle their products without charge.

## 5 Product Environmental Impact Reduction, Reusability and Recyclability

Lighting product producers are working to reduce the environmental impact of lighting products through innovative product design and technology. For example, new design has resulted in the development of smaller diameter fluorescent tubes now available in the marketplace. These products can provide the same or more light with about 50% less material resources by weight.<sup>2</sup> The amount of mercury contained within fluorescent lights has also been decreasing. Through innovative technology, manufacturers have decreased the amount of mercury in fluorescent lamps by over 80% since 1990.<sup>3</sup>

Life-cycle management is also playing an important role in reducing the environmental impact of lighting products. For example, producers are focusing their attention on increasing product energy efficiency. This has resulted in a substantial increase in the lifespan of fluorescent lights in the last decade, reducing the cumulative environmental impact associated with these products.

The advancement of LED lighting technology is also having a significant impact on the lighting market as a whole. Acceptance of LED technologies is increasing as prices are decreasing. Due to the significantly longer lifespan of LED lights, there is a decrease in sales expected for other traditional lighting technologies such as halogen, incandescent and fluorescent lights. This change will result in a positive environmental impact as fewer lights, including those that contain mercury, will require disposal. These trends will only become visible as the market adapts to the new technology and will be observed by the Program. The shift to more energy efficient and longer lasting lighting technology is clear and has a direct positive impact on the environment.

### 5.1 GHG Emissions

The estimated greenhouse gas (GHG) impact of the recycling of lighting products was calculated using a GHG emission inventory tool developed specifically for LightRecycle by a third party based on nationally and internationally recognized reference protocols and standards. Improvements in the assumptions used along with improved accuracy in values associated with transporting Program products contributed to increased GHG emissions reported in 2014. Furthermore, due to limited available information from downstream processors and the numerous assumptions that had to be made to determine the GHG impact, the final GHG emission numbers are accurate to only one significant digit. The GHG emissions for 2014 were estimated based on these calculations, to be 4,000 tonnes of equivalent carbon dioxide (CO<sub>2</sub>e). This value is based on 4 tonnes of CO<sub>2</sub>e generated per tonne of material managed.

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<sup>2</sup> European Lamp Companies Federation. *Climate, Environment and Health*. Please refer to <http://www.elcfd.org>

<sup>3</sup> Personal Communication with Wayne Edwards, Electrical Equipment Manufacturers Association of Canada.

## 6 Pollution Prevention Hierarchy and Product / Component Management

The BC LightRecycle Program strives to manage collected materials as high on the pollution prevention hierarchy as possible, where economically feasible and viable. The Program is designed to collect lamps, fixtures and ballasts that are no longer working and/or cannot be reused from all sectors. The following section is based on information provided by the Program's primary processors, where available, or based on the understanding of the service agreement with the processors<sup>4</sup>.

### Lamps

Collected whole lamps were shipped to three separate processors where they were broken down into component parts (i.e., glass, metal, mercury, and phosphor powder) and recovered/recycled or disposed of as reported by the processors to the program as follows:

- Mercury was recovered, recycled and reused in manufacturing processes.
- Metal was recycled and reused in manufacturing processes.
- Glass was recycled and reused as a commodity in concrete manufacturing and/or manufactured into sandblast media.
- Phosphor powder went through a retort process to retrieve available mercury and the remaining powder was landfilled.

Primary processors for whole lamps are required to conform to the BC LightRecycle Lamp Processor Standard, which defines the minimum requirements to become an approved processor, and contains many requirements with which the processor must comply, such as environmental, occupational health and safety, and material handling requirements. Primary processors are required to submit monthly processing reports, recycling certificates, and annual reports to PCA.

### Crushed Lamps

Crushed lamps were sent to a smelter for recycling where:

- Metal, phosphor powder and glass were added into the smelting process
- Plastic was used for energy recovery.
- Mercury was recovered and transformed into mercurous chloride in the treatment process and sold as a commodity.

### Residential Fixtures

Due to the similarity of the constituents that make up fixtures and small appliances (e.g. metal, glass, plastics etc.) residential fixtures were collected, comingled with small appliances and power tools from the Canadian Electrical Stewardship Association (CESA) stewardship program and shipped to three independent processors, where they were comingled with other electronics and broken down into their

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<sup>4</sup> The information detailed in this section may have a degree of uncertainty as the Program has not verified product management information to a reasonable assurance level in accordance with audit standards. However, there is greater confidence in the end fate of hazardous wastes given the framework of regulatory requirements governing hazardous materials and commensurate oversight by various environmental departments and agencies.

component parts for recovery/recycling. According to the primary processor for the CESA program, the resulting commodities were managed as follows:

- Ferrous steel was recycled and sold as a commodity.
- Plastics were recycled and pelletized for reuse.
- Aluminum was sent to a smelter for recycling and sold as a commodity.
- Wire and cables were sent to a smelter for recycling.
- Copper was sent to a smelter for recycling and sold as a commodity.
- Glass was crushed for reuse/smelting.
- Circuit boards were sent to a smelter for recycling.
- Refuse was landfilled.
- Rechargeable batteries were sent to a smelter for recycling.
- Paper-based materials were recovered.
- Non rechargeable batteries were sent to a smelter for recycling.
- Heating oil was recovered/reused.

Due to the comingling of collections and processing and the complexity of the recycling system, it is not possible for the Program to be able to specifically identify the proportion of materials attributed to LightRecycle and the Program has limited ability to verify accuracy of the reported information to a precise degree of certainty.

#### **Commercial Fixtures and Non-PCB Ballasts**

Commercial fixtures and non-PCB ballasts were collected and managed through the existing market driven scrap metal recycling system. Given there is value in the metal commodity, the Program assumes that the material is recycled, but some non-metal material would need to be disposed of. Since it is a market driven system, the Program has no ability to verify or report on the volume and portion of the material recycled and or disposed of through this system.

#### **PCB Ballasts**

PCB ballasts were collected and managed as hazardous waste and incinerated at PCB licensed incinerators. PCBs are heavily regulated from transportation to disposal by the BC Ministry of the Environment and equivalent agencies.

PCA relies on the information provided by the Program's primary processors and reviews the data provided by them in their monthly processing reports and annual reports. Once materials leave the primary processors, they are comingled with other materials by the downstream processors. As a result, PCA is unable to perform audits of this material as it would be impossible to determine which material is directly from Program products. PCA relies on the information and data provided by its primary processors for lamp recycling, and by the CESA stewardship program for information regarding the volume and material management for residential fixtures.

Table 6 provides an overview of the processing pathways and final disposition of materials according to information provided by the Programs primary processors and CESA.

Table 6: Material Management and Flow

Material	Sub-Component	Processing Pathway	Final Disposition
Lamps (all technologies)	Phosphor Powder	Primary processor sends Mercury Phosphor Powder to a broker for mercury retort.	Once mercury is removed, remaining phosphor powder sent to landfill.
	Mercury	Primary processor sends to a downstream processor. After retort, mercury is sold to a broker.	Used as a commodity in manufacturing processes.
	Metal	Primary processor sends to various downstream brokers. Metal is then sold to various end-users, including manufacturers, refineries and fabricators.	Used as a commodity by refineries or manufacturers.
	Glass	Primary processor sends to various manufacturers or end-users.	Used as a commodity in concrete manufacturing or as sand blast media.
Crushed Lamps	Metal, Phosphor Powder, and Glass	Primary processor managed all materials to final disposition.	Used in smelter operations
	Plastic		Used for energy recovery.
	Mercury		Recovered and sold as a commodity.
Residential Fixtures	Ferrous Steel	Managed through the (CESA) collection and recycling system.	Sold as a commodity
	Plastics		Pelletized for reuse
	Aluminum		Sold as a commodity/smelting
	Wire and Cables		Smelting
	Copper		Sold as a commodity/smelting
	Glass		Crushed for reuse/smelting
	Circuit Boards		Smelting
	Refuse		Landfill
	Rechargeable Batteries		Smelting
	Paper Based Materials		Recovery
	Non Rechargeable Batteries		Smelting
Heating Oil	Recovery / Reuse		

Material	Sub-Component	Processing Pathway	Final Disposition
Commercial Fixtures and Non-PCB Ballasts	NA	Managed through the existing market driven scrap metal recycling system.	
PCB Ballasts	NA	Hazardous Waste Management Company sends to PCB licensed incinerator.	Incineration

## 7 Product Sold, Products Collected and Recovery Rate

### 7.1 Products Sold

In 2014, members of the BC LightRecycle Program reported 34,590,953 units of lighting products sold into the province. Table 7 shows the approximate number of units sold into BC by product category during 2014 as reported to PCA by its members.

Table 7: Units Sold by Product Category in 2014

Category	Units Sold
1. Fluorescent/Induction/UV Tubes measuring ≤ 2 feet	267,416
2. Fluorescent/Induction/UV Tubes measuring > 2 feet and ≤ 4 feet	3,635,654
3. Fluorescent/Induction/UV Tubes measuring > 4 feet	326,982
4. Compact Fluorescent Lights (CFL)/ Screw-In Induction Lamps	4,572,061
5. Light Emitting Diodes (LED)	2,351,745
6. High Intensity Discharge (HID) and Other	432,701
7. Incandescent / Halogen	14,534,477
8. Miniature Bulb Package	470,424
9. Designated Small Fixtures/Decorative Light Strings	4,106,759
10. Fixture Category A	3,431,373
11. Fixture Category B	74,096
12. Large Outdoor Fixtures	26,555
13. Ballasts/Transformers (not integrated into lamps or fixtures)	360,710
<b>Total</b>	<b>34,590,953</b>

Note: From time to time members submit retroactive unit sales information which can include sales data related to prior years. Please note that the 2014 data represents units sold during the 2014 year as reported by members. Any prior year sales data reported by members during 2014 has not been included in the unit sales as reported in Table 7 and prior year reports have not been amended to include this data.



## 7.2 Absolute Collection Data

In 2014, the BC LightRecycle Program collected an estimated 4,548,481 units of lamps, approximately 262 tonnes of fixtures through residential collections, 22,458 kilograms of PCB ballasts and an approximate 18,509 kg of crushed lamps. Table 8 provides an estimate of products collected in 2014.

Table 8: Estimated Quantity of Products Collected in 2014

Product	Estimated Quantity Collected
Lamps	4,548,481 units
Residential Fixtures	262 tonnes
PCB Ballasts	22,458 kg
Crushed Lamps	18,509 kg

Commercial fixtures and non-PCB ballasts were collected and processed through the scrap metal recycling system (market driven system). Accordingly, their weights and volumes were not tracked.

Absolute collection quantities for the different lamp technologies are estimated based on reported quantities processed between January 1 and December 31, 2014 as reported by the Program's three processors. The reported quantities may include units collected in the 2013 fiscal year but processed in the 2014 fiscal year and may exclude units collected in the 2014 fiscal year that were not processed as of December 31, 2014. Table 9 presents a breakdown of the estimated number of units of each type of lamp collected by the Program in 2014.

Table 9: BC LightRecycle Program 2014 Absolute Collection Data: Lamps

Lamp Technology	Units Collected
0 to 2 foot fluorescent tubes including U and O shaped tubes	80,291
>2 to 4 foot fluorescent tubes including polycoated tubes	1,997,812
>4 to 8 foot fluorescent tubes	206,849
CFL Lamps	883,068
Incandescent Lamps	981,174
Halogen Lamps	201,966
LED, HID, Neon and UV Lamps	197,321
<b>Total Units Collected</b>	<b>4,548,481</b>

Notes:

1. Miniature bulbs are categorized according to lamp technology.
2. Neon and polycoated lamp collection is reported from the processor in length of feet. The length is then divided by 4 to obtain a unit number which is reported on.

Table 10 sets out the estimated number of Program units collected by regional district. The estimated quantities reported were calculated by comparing the number of boxes picked up from residential and commercial collection sites to the total number of units collected to determine an average number of Program units per box type. The average number of units per box were then multiplied by the number of each box type collected by regional district to estimate the number of units. Due to the variability in the number of Program units actually collected within a box, the total number of units by regional district only represent a proportional estimate of collected volumes and does not necessarily reflect the actual number of units collected by regional district. Providing exact figures at the regional level was not possible because processors do not report aggregate numbers by regional district and tracking product units by pickup is prohibitive given the number of pickups from residential and commercial collection sites.

Table 10: Estimated Units Collected by Regional Districts in 2014

Regional District	Estimate of units by RD
Alberni Clayoquot	21,677
Bulkley Nechako	7,383
Capital Regional District	277,461
Cariboo	38,522
Central Coast	355
Central Kootenay	19,628
Central Okanagan	175,107
Columbia Shuswap	18,518
Comox Valley	42,244
Cowichan Valley	80,947
East Kootenay	29,229
Fraser Fort George	39,083
Fraser Valley	200,831
Kitimat Stikine	15,830
Kootenay Boundary	10,703
Metro Vancouver	3,158,135
Mt. Waddington	7,481
Nanaimo Regional District	104,079
North Okanagan	76,134
Northern Rockies	2,362
Okanagan Similkameen	43,726
Peace River	28,807
Powell River Regional District	14,041
Skeena-Queen Charlotte	12,547
Squamish Lillooet	28,047
Strathcona	12,128
Sunshine Coast	11,775
Thompson Nicola	71,700
<b>Total</b>	<b>4,548,481</b>

The average number of units per box was calculated based on the collection data provided by the three Program processors. For residential collections in 2014, the average number of CFL and mixed bulb units per CFL and mixed bulb box was 137, the average number of 4 foot fluorescent tubes per 4 foot box was 19 and the average number of 8 foot fluorescent tubes per 8 foot box was 12. For commercial collections in 2014, the average number of CFL and mixed bulb units per CFL and mixed bulb box was 203, and the average number of 4 foot and 8 foot fluorescent tubes per box was 221.

### 7.3 Capture Rates

As outlined in the Program Plan, a capture rate was used as a target for fluorescent tubes and CFLs instead of the recovery rate. The capture rate compares the quantity of products collected in a year to the quantity of products believed to be “available for collection” in that year.

The methodology used to determine the quantity of products under each lamp category “available for collection” was estimated based on the best available data when the Program Plan was developed in 2012 and is subject to change. The 2014 capture rates and targets for two lamp types, CFLs and fluorescent tubes, are shown in Table 11.

Table 11: 2014 Capture Rates: Fluorescent Tubes and CFLs

	<b>Units Available to Collect (2014)</b>	<b>Units Collected</b>	<b>Capture Rate Target</b>	<b>Actual Capture Rate</b>
<b>CFL Units</b>	650,656	883,068	28-38%	136%
<b>Fluorescent Tube Units</b>	5,850,715	2,284,952	22-37%	39%

The Program Plan committed to develop absolute collection rate targets for fixtures and ballasts in 2014. The targets were developed based on consultations with industry, program members, and a formal public consultation process. In consultation with the Ministry of Environment, the proposed targets will be submitted to the Ministry of Environment in 2015 for approval and will be reported in the 2015 Annual Report.

## 8 Summary of Revenues and Expenditures

The Program is funded by members based on fees applied to the sale of new program products in or into British Columbia. The fee may have been passed on by the members to their customers, either as a visible fee or by incorporating the cost directly into the price of the product. No adjustments were made to the fee rates in 2014. All fees were used for Program purposes and directly funded the collection, transportation and recycling of collected products. Table 12 provides a list of the recycling fee rates charged per unit for Program product categories in 2014.

Table 12: Schedule of fee rates charged in 2014 for all Program product categories

Product Category	Fee Category	Recycling Fee / Unit
<b>Lamps</b>	1. Fluorescent/Induction/UV Tubes measuring ≤ 2 feet	<b>\$0.20</b>
	2. Fluorescent/Induction/UV Tubes measuring > 2 feet and ≤ 4 feet	<b>\$0.40</b>
	3. Fluorescent/Induction/UV Tubes measuring > 4 feet	<b>\$0.80</b>
	4. Compact Fluorescent Lights (CFL)/ Screw-In Induction Lamps	<b>\$0.15</b>
	5. Light Emitting Diodes (LED)	<b>\$0.15</b>
	6. High Intensity Discharge (HID) and Other	<b>\$1.10</b>
	7. Incandescent / Halogen	<b>\$0.05</b>
	8. Miniature Bulb Package	<b>\$0.10</b>
<b>Fixtures</b>	9. Designated Small Fixtures / Decorative Light Strings	<b>\$0.15</b>
	10. Fixture Category A	<b>\$0.85</b>
	11. Fixture Category B	<b>\$1.40</b>
	12. Large Outdoor Fixtures	<b>\$2.50</b>
<b>Ballasts</b>	13. Ballasts/Transformers (not integrated into lamps or fixtures)	<b>\$1.00</b>

## 9 Plan Performance

Table 13 sets out the Program’s key performance targets and outcomes for 2014.

Table 13: Key Performance Targets and Outcomes for 2014

<b>Comparison of Key Performance Targets</b>			
Part 2 section 8(2)(g);			
<b>2014 Priority Stewardship Plan Targets</b>		<b>2014 Performance</b>	<b>Strategies for Improvement</b>
Capture Rate Targets – Fluorescent Tubes	Target: 22-37% in 2014	39%	N/A
Capture Rate Targets – CFLs	Target: 28-38% in 2014	136%	N/A

Performance targets for the percent of population with access to a collection site and the percent of population aware of the program were set for 2013 and achieved. For details, please see the 2013 LightRecycle Annual Report. Additional consumer awareness targets for the percent of population aware of the program were set for 2015 and 2017 in the Program Plan, which will be reported against in the Annual Reports for those years.

## Appendix A - Advertising and Communication Materials

### Advertising

Print Ad: BCEA Membership Directory & Buyers Guide

A cartoon light bulb character with a smiling face, arms, and legs, standing on a blue gradient background. A speech bubble points to the character. The background is a solid blue color with a subtle gradient.

Have a light recycling question?  
Let me illuminate you  
with an answer.

1.888.772.9772  
[www.lightrecycle.ca](http://www.lightrecycle.ca)

Do you have large quantities of lights, lamps or fixtures for recycling?  
Drop them off at a designated collection site or call about our **FREE**  
large volume pick-up service. Ask us about ballast recycling too.

 **LightRecycle**

## Event Materials

### LightRecycle Tent, Tablecloth and Pop-up Banners



## Point of Sale and Point of Return Materials

### Trifold brochure

#### The Life Cycle of a Residential-Use Light Bulb



#### Benefits of Recycling Lighting Products

British Columbians are leaders in recycling, and can now participate in Canada's first comprehensive lighting products recycling program.

The LightRecycle program ensures that recyclable materials from lighting products, such as metal, plastic and glass, are recycled into new products and do not end up in landfills.

Some lighting products contain hazardous materials like mercury. LightRecycle helps keep these harmful materials out of the environment by safely recycling them at approved facilities.

#### About LightRecycle

LightRecycle is a non-profit program to recycle lighting products in British Columbia. Since 2010, LightRecycle has accepted residential-use fluorescent lights at collection sites across the province. The expanded LightRecycle program now accepts all lighting products for recycling without charge, including all types of lights (bulbs and tubes), ballasts and lighting fixtures used in residential, institutional, commercial and industrial applications.

LightRecycle was developed in response to the requirements of the BC Recycling Regulation. The LightRecycle program is managed by Product Care Association, a non-profit industry association.



**LightRecycle**

**Phone:**  
1 800 667 4321  
604 732 9253 in the Lower Mainland

**Email:**  
info@lightrecycle.ca

**Website:**  
www.lightrecycle.ca



**LightRecycle**  
BC's recycling program for lights, lamps, ballasts and fixtures



Residential | Commercial | Industrial | Institutional

For more information, please visit [www.lightrecycle.ca](http://www.lightrecycle.ca) or call 1 800 667 4321 (604 732 9253 in the Lower Mainland).

### Holiday Sting Lights Recycling Poster sent to Collection Sites in BC



## Keep Burnt-Out Bulbs Off Santa's Landing Strip.

### Recycle Your Christmas Lights Here.



**LightRecycle.ca**

Christmas String Lights and Rope Lights accepted. Visit our website for a full list of accepted products.




PROGRAMS ABOUT NEWS EVENTS

Lighting Products Paint Pesticides & Flammable Liquids Smoke & CO Alarms Major Appliances Small Appliance & Power Tools Outdoor Power Equipment

### Lighting Products

ReGeneration, through its ground-breaking LightRecycle Program (RecycFluo in Quebec), has introduced first-of-their-kind recycling programs for lights in BC, Manitoba, Ontario, Quebec, Prince Edward Island and Washington State.

Select region on map >



## Appendix B - List of Contracted Collection Sites

In 2014, the BC LightRecycle program held operating contracts with 451 collection sites across the Province. The Program added contracts with an additional 19 collection sites, and ended contracts with 12 collection sites, resulting in a net of 7 additional collection sites between 2013 and 2014. All unadvertised collection sites are listed as “Unadvertised” under the Collection Site Name column. Please note that three locations are both *Advertised Residential Fixtures* collection sites as well as *Unadvertised Commercial Lamps Consolidators*. To maintain confidentiality, these locations has been listed here as Advertised Residential Fixtures collection sites only.

#	Collection Site Name	City	Regional District	Collection Site Type
1	The Salvation Army Alberni Valley	Port Alberni	Alberni Clayoquot	Advertised Residential Fixtures
2	Canadian Tire #488 Port Alberni	Port Alberni	Alberni-Clayoquot	Advertised Residential Lamps
3	Sun Coast Waste Services	Port Alberni	Alberni-Clayoquot	Advertised All Sector Lamp Site, Commercial Fixtures & Non-PCB Ballast Site
4	Tofino Co-op Hardware	Tofino	Alberni-Clayoquot	Advertised Residential Lamps
5	Ucluelet Bottle Depot	Ucluelet	Alberni-Clayoquot	Advertised Residential Fixtures
6	Westcoast Hardware	Port Alberni	Alberni-Clayoquot	Advertised Residential Lamps
7	Bulkley Valley Bottle Depot	Smithers	Bulkley-Nechako	Advertised Residential Fixtures
8	Burns Lake Home Hardware	Burns Lake	Bulkley-Nechako	Advertised Residential Lamps
9	Fraser Lake Bottle Depot	Fraser Lake	Bulkley-Nechako	Advertised Residential Fixtures
10	Houston Bottle Depot	Houston	Bulkley-Nechako	Advertised All Sector Lamp Site & Advertised Residential Fixtures
11	MacLeods True Value Hardware	Fort St. James	Bulkley-Nechako	Advertised Residential Lamps
12	RONA - Vanderhoof #11690	Vanderhoof	Bulkley-Nechako	Advertised Residential Lamps
13	Smithers Home Hardware	Smithers	Bulkley-Nechako	Advertised Residential Lamps
14	Smithers Lumber Yard	Smithers	Bulkley-Nechako	Advertised Residential Lamps
15	Alpine Disposal & Recycling	Victoria	Capital Regional District	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Advertised Commercial Fixtures and Non-PCB ballast site

#	Collection Site Name	City	Regional District	Collection Site Type
16	Asset Investment Recovery - Glanford	Victoria	Capital Regional District	Advertised Residential Fixtures
17	Brentwood Auto & Metal Recyclers	Saanichton	Capital Regional District	Commercial Fixtures & Non-PCB Ballast Site
18	Brentwood Thrift Store	Saanich	Capital Regional District	Advertised Residential Fixtures
19	Burnside Home Hardware	Victoria	Capital Regional District	Advertised Residential Lamps
20	Canadian Tire #368 View Royal	Victoria	Capital Regional District	Advertised Residential Lamps
21	Central Saanich Home Hardware	Saanichton	Capital Regional District	Advertised Residential Lamps
22	DL's Recycling Centre	Saanichton	Capital Regional District	Advertised All Sector Lamp Site
23	Galiano Island Recycling Resources	Galiano Island	Capital Regional District	Advertised All Sector Lamp Site
24	Galiano Trading Co.	Galiano Island	Capital Regional District	Advertised Residential Lamps
25	Hartland Landfill Recycling Depot	Victoria	Capital Regional District	Advertised Residential Lamps & Advertised Residential Fixtures
26	Hillside Thrift Store	Victoria	Capital Regional District	Advertised Residential Fixtures
27	Home Hardware Sidney	Sidney	Capital Regional District	Advertised Residential Lamps
28	Island Return It Recycling Centre Sidney	Sidney	Capital Regional District	Advertised All Sector Lamp Site & Advertised Residential Fixtures
29	Island Return-It Recycling Centre Esquimalt	Esquimalt	Capital Regional District	Advertised All Sector Lamp Site & Advertised Residential Fixtures
30	London Drugs #14	Victoria	Capital Regional District	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
31	London Drugs #29	Victoria	Capital Regional District	Advertised Residential Lamps
32	London Drugs #46	Victoria	Capital Regional District	Advertised Residential Lamps
33	London Drugs #54	Victoria	Capital Regional District	Advertised Residential Lamps
34	Mayne Island Bldg Centre	Mayne Island	Capital Regional District	Advertised Residential Lamps
35	Mouatt's Home Hardware	Salt Spring Island	Capital Regional District	Advertised Residential Lamps
36	Oak Bay Home Hardware	Victoria	Capital Regional District	Advertised Residential Lamps
37	Oak Bay Recycling Depot	Victoria	Capital Regional District	Commercial Fixtures & Non-PCB Ballast Site
38	Pender Island Home Building Centre	Pender Island	Capital Regional District	Advertised Residential Lamps
39	Pender Island Recycling Society	Pender Island	Capital Regional District	Advertised All Sector Lamp Site & Advertised Residential Fixtures
40	reFUSE Resource Recovery	Victoria	Capital Regional District	Advertised All Sector Lamp Site, Commercial Fixtures & Non-PCB Ballast Site
41	RONA Victoria #61710	Victoria	Capital Regional District	Advertised Residential Lamps
42	RONA Victoria #8030	Victoria	Capital Regional District	Advertised Residential Lamps
43	Ross Bay Home Hardware	Victoria	Capital Regional District	Advertised Residential Lamps
44	Bottle Depot (Saanich)	Saanich	Capital Regional District	Advertised Residential Fixtures
45	Saltspring Island Recycling Depot	Salt Spring Island	Capital Regional District	Advertised All Sector Lamp Site & Advertised Residential Fixtures

#	Collection Site Name	City	Regional District	Collection Site Type
46	Salvation Army - Victoria	Victoria	Capital Regional District	Advertised Residential Fixtures
47	Schnitzer Steel Pacific Inc.	Victoria	Capital Regional District	Commercial Fixtures & Non-PCB Ballast Site
48	Sooke Home Hardware	Sooke	Capital Regional District	Advertised Residential Lamps
49	Sooke Thrift Store	Victoria	Capital Regional District	Advertised Residential Fixtures
50	Unadvertised	Langford	Capital Regional District	Unadvertised Commercial Lamps Site
51	Unadvertised	Langford	Capital Regional District	Unadvertised Residential Fixtures
52	Unadvertised	Saanich	Capital Regional District	Unadvertised Commercial Lamps Site
53	Unadvertised	Saanich	Capital Regional District	Unadvertised Residential Fixtures
54	Unadvertised	Victoria	Capital Regional District	Unadvertised Commercial Lamps Consolidator
55	Unadvertised	Victoria	Capital Regional District	Unadvertised Commercial Lamps Site
56	Unadvertised	Victoria	Capital Regional District	Unadvertised Commercial Lamps Consolidator
57	Unadvertised	Victoria	Capital Regional District	Unadvertised Residential Fixtures
58	Unadvertised	Victoria	Capital Regional District	Unadvertised Residential Fixtures
59	View Royal Thrift Store	Victoria	Capital Regional District	Advertised Residential Fixtures
60	Burgess Plumbing Heating & Electrical Co. Ltd.	Williams Lake	Cariboo	Advertised All Sector Lamp Site

#	Collection Site Name	City	Regional District	Collection Site Type
61	Canadian Tire #438 Williams Lake	Williams Lake	Cariboo	Advertised Residential Lamps
62	Canadian Tire #487 Quesnel	Quesnel	Cariboo	Advertised Residential Lamps
63	CM Recycling Ltd	Quesnel	Cariboo	Advertised All Sector Lamp Site
64	Home Hardware Williams Lake (Central Bldg)	Williams Lake	Cariboo	Advertised Residential Lamps
65	Century Hardware Ltd.	100 Mile House	Cariboo	Advertised Residential Lamps
66	Gold Trail Recycling	100 Mile House	Cariboo	Advertised All Sector Lamp Site, Commercial Fixtures, Non-PCB Ballast Site
67	Lone Butte Supply Ltd.	100 Mile House	Cariboo	Advertised Residential Lamps
68	RONA Quesnel #61320	Quesnel	Cariboo	Advertised Residential Lamps
69	RONA Williams Lake #61340	Williams Lake	Cariboo	Advertised Residential Lamps
70	Bella Coola Recycling Depot	Bella Coola	Central Coast	Advertised Residential Fixtures
71	Bella Bella Eco-Depot	Bella Bella	Central Coast	Advertised Residential Fixtures
72	Ernie's Used Auto Parts	Castlegar	Central Kootenay	Commercial Fixtures & Non-PCB Ballast Site
73	Home Hardware Creston	Creston	Central Kootenay	Advertised Residential Lamps
74	Kaslo Building Supplies	Kaslo	Central Kootenay	Advertised Residential Lamps
75	Mountain High Lighting	Castlegar	Central Kootenay	Advertised Residential Lamps
76	New Life Furniture and Recycling	Creston	Central Kootenay	Advertised Residential Fixtures
77	Scrap King Autowrecking & Towing Ltd.	Salmo	Central Kootenay	Commercial Fixtures & Non-PCB Ballast Site
78	Smokey Creek Salvage	South Slokan	Central Kootenay	Commercial Fixtures & Non-PCB Ballast Site
79	Bargain Bin	Castlegar	Central Kootenay	Advertised All Sector Lamp Site
80	Unadvertised	Winlaw	Central Kootenay	Unadvertised Commercial Lamps Site
81	ABC Recycling	Kelowna	Central Okanagan	Advertised Commercial Fixtures & Non-PCB Ballast Site
82	Boucherie Bottle Depot & Self Storage	West Kelowna	Central Okanagan	Advertised All Sector Lamp Site & Advertised Residential Fixtures
83	Columbia Bottle Depot - Dease	Kelowna	Central Okanagan	Advertised Residential Fixtures
84	Columbia Bottle Depot - St. Paul	Kelowna	Central Okanagan	Advertised Residential Fixtures

#	Collection Site Name	City	Regional District	Collection Site Type
85	Knox Mountain Metals Inc.	Kelowna	Central Okanagan	Commercial Fixtures & Non-PCB Ballast Site
86	London Drugs #12	Kelowna	Central Okanagan	Advertised Residential Lamps
87	London Drugs #76	Westbank	Central Okanagan	Advertised Residential Lamps
88	Planet Earth Recycling	Westbank	Central Okanagan	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
89	RONA Kelowna #61700	Kelowna	Central Okanagan	Advertised Residential Lamps
90	The Battery Doctors	Kelowna	Central Okanagan	Advertised All Sector Lamp Site & Advertised Residential Fixtures
91	Unadvertised	Kelowna	Central Okanagan	Unadvertised Commercial Lamps Site
92	Unadvertised	Kelowna	Central Okanagan	Unadvertised Commercial Lamps Site
93	Westbank Home Hardware	Westbank	Central Okanagan	Advertised Residential Lamps
94	Winfield Return It Centre	Lake Country	Central Okanagan	Advertised Residential Fixtures
95	ABC Recycling	Fort St. John	Columbia Shushwap	Advertised Commercial Fixtures & Non-PCB Ballast Site
96	Bills Bottle Depot	Salmon Arm	Columbia Shushwap	Advertised All Sector Lamp Site & Advertised Residential Fixtures
97	Home Building Centre Salmon Arm	Salmon Arm	Columbia Shushwap	Advertised Residential Lamps
98	Home Hardware Building Centre - Revelstoke	Revelstoke	Columbia Shushwap	Advertised Residential Lamps
99	Revelstoke Bottle Depot	Revelstoke	Columbia Shushwap	Advertised All Sector Lamp Site
100	RONA Salmon Arm #61330	Salmon Arm	Columbia Shushwap	Advertised Residential Lamps
101	Scotch Creek Bottle Depot	Scotch Creek	Columbia Shushwap	Advertised Residential Fixtures
102	Scotch Creek Home Hardware (Building Centre)	Scotch Creek	Columbia Shushwap	Advertised Residential Lamps
103	Tru Hardware Sicamous	Sicamous	Columbia Shushwap	Advertised Residential Lamps
104	Home Hardware Building Center Courtenay	Courtenay	Comox Valley	Advertised Residential Lamps
105	Comox Valley Auto Metal Recyclers (444978 BC Ltd)	Courtenay	Comox Valley	Commercial Fixtures & Non-PCB Ballast Site

#	Collection Site Name	City	Regional District	Collection Site Type
106	Comox Valley Regional District	Cumberland	Comox Valley	Advertised All Sector Lamp Site, Advertised Commercial Fixtures, Non-PCB Ballast Site
107	Hornby Island Waste Mgmt Centre	Hornby Island	Comox Valley	Advertised All Sector Lamp Site
108	London Drugs #67	Courtenay	Comox Valley	Advertised Residential Lamps
109	Powerhouse Recycled Auto & Truck Parts	Cumberland	Comox Valley	Commercial Fixtures & Non-PCB Ballast Site
110	Bings Creek Solid Waste Management Complex	Duncan	Cowichan Valley	Advertised All Sector Lamp Site & Advertised Residential Fixtures
111	Cowichan Valley Bottle Depot	Duncan	Cowichan Valley	Advertised Residential Fixtures
112	Duncan Home Hardware Bldg Centre	Duncan	Cowichan Valley	Advertised Residential Lamps
113	Fisher Road Recycling	Cobble Hill	Cowichan Valley	Advertised All Sector Lamp Site
114	Island Return It Recycling Centre Duncan	Duncan	Cowichan Valley	Advertised Residential Fixtures
115	Junction Bottle Depot	Ladysmith	Cowichan Valley	Advertised Residential Fixtures
116	Lake Cowichan Home Hardware	Lake Cowichan	Cowichan Valley	Advertised Residential Lamps
117	London Drugs #77	Duncan	Cowichan Valley	Advertised Residential Lamps
118	Meade Creek Recycling Drop-off Depot	Lake Cowichan	Cowichan Valley	Advertised All Sector Lamp Site & Advertised Residential Fixtures
119	Mill Bay Thrift Store	Mill Bay	Cowichan Valley	Advertised Residential Fixtures
120	Peerless Road Recycling Drop-off Depot	Ladysmith	Cowichan Valley	Advertised All Sector Lamps & Advertised Residential Fixtures
121	RONA Cobble Hill #61040	Cobble Hill	Cowichan Valley	Advertised Residential Lamps
122	RONA Duncan #61020	Duncan	Cowichan Valley	Advertised Residential Lamps
123	Schnitzer Steel Pacific Inc.	Duncan	Cowichan Valley	Commercial Fixtures & Non-PCB Ballast Site
124	Columbia Recycle	Kimberley	East Kootenay	Commercial Fixtures & Non-PCB Ballast Site
125	Cranbrook Bottle Depot	Cranbrook	East Kootenay	Advertised Residential Fixtures
126	Fernie Bottle Depot	Fernie	East Kootenay	Advertised Residential Fixtures
127	Fernie Home Building Center	Fernie	East Kootenay	Advertised All Sector Lamp Site
128	Home Hardware Building Centre - Cranbrook	Cranbrook	East Kootenay	Advertised Residential Lamps



#	Collection Site Name	City	Regional District	Collection Site Type
129	Invermere Home Building Centre	Invermere	East Kootenay	Advertised All Sector Lamp Site
130	New & Nearly New	Kimberly	East Kootenay	Advertised All Sector Lamp Site
131	Skyway Distributors Ltd	Cranbrook	East Kootenay	Advertised All Sector Lamp Site
132	Abbotsford Bottle Depot	Abbotsford	Fraser Valley	Advertised Residential Fixtures
133	Abbotsford Community Services Recycling	Abbotsford	Fraser Valley	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
134	Agassiz Bottle Depot Ltd.	Agassiz	Fraser Valley	Advertised Residential Fixtures
135	Aldergrove Bottle Depot	Aldergrove	Fraser Valley	Advertised All Sector Lamp Site & Advertised Residential Fixtures
136	Canadian Tire #434 Abbotsford	Abbotsford	Fraser Valley	Advertised Residential Lamps
137	Canadian Tire #433 Chilliwack	Chilliwack	Fraser Valley	Advertised Residential Lamps
138	CCON Steel Inc	Abbotsford	Fraser Valley	Commercial Fixtures & Non-PCB Ballast Site
139	Chilliwack Bottle Depot Ltd.	Chilliwack	Fraser Valley	Advertised All Sector Lamp Site & Advertised Residential Fixtures
140	Hope Bottle Depot Ltd	Hope	Fraser Valley	Advertised Residential Fixtures
141	London Drugs #16	Abbotsford	Fraser Valley	Advertised Residential Lamps
142	London Drugs #41	Chilliwack	Fraser Valley	Advertised Residential Lamps
143	London Drugs #55	Mission	Fraser Valley	Advertised Residential Lamps
144	London Drugs #85	Abbotsford	Fraser Valley	Advertised Residential Lamps
145	Mission Recycling Center (Bottle Depot)	Mission	Fraser Valley	Advertised Residential Fixtures
146	Mission Recycling Depot	Mission	Fraser Valley	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
147	R&T Bottle Depot	Abbotsford	Fraser Valley	Advertised Residential Fixtures
148	Regional Recycling Abbotsford (572274 BC Ltd.)	Abbotsford	Fraser Valley	Advertised All Sector Lamp Site & Advertised Residential Fixtures
149	RONA Abbotsford #61220	Abbotsford	Fraser Valley	Advertised Residential Lamps
150	RONA Abbotsford #61770	Abbotsford	Fraser Valley	Advertised Residential Lamps
151	RONA Chilliwack #61390	Chilliwack	Fraser Valley	Advertised Residential Lamps
152	RONA Hope #61350	Hope	Fraser Valley	Advertised Residential Lamps
153	RONA Mission #61200	Mission	Fraser Valley	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
154	Sardis Bottle Depot Ltd.	Chilliwack	Fraser Valley	Advertised Residential Fixtures
155	Unadvertised	Chilliwack	Fraser Valley	Unadvertised Commercial Lamps Site
156	Unadvertised	Abbotsford	Fraser Valley	Unadvertised Commercial Lamps Consolidator
157	Washtech Services Inc. Abbotsford (Matsqui) Transfer Station	Abbotsford	Fraser Valley	Commercial Fixtures & Non-PCB Ballast Site
158	Wilway Lumber	Abbotsford	Fraser Valley	Advertised Residential Lamps
159	ABC Recycling	Prince George	Fraser-Fort George	Advertised Commercial Fixtures & Non-PCB Ballast Site
160	Central Builders' Supply	Prince George	Fraser-Fort George	Advertised Residential Lamps
161	London Drugs #51	Prince George	Fraser-Fort George	Advertised Residential Lamps
162	PG Recycling	Prince George	Fraser-Fort George	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Advertised Commercial Fixtures and Non-PCB ballast site
163	Salvation Army - PG	Prince George	Fraser-Fort George	Advertised All Sector Lamp Site & Advertised Residential Fixtures
164	ABC Recycling	Burnaby	Metro Vancouver	Advertised Commercial Fixtures & Non-PCB Ballast Site
165	ABC Recycling	Surrey	Metro Vancouver	Advertised Commercial Fixtures & Non-PCB Ballast Site
166	Aim Lighting & Electric Inc.	Delta	Metro Vancouver	Advertised All Sector Lamp Site
167	Allied Salvage & Metals	Richmond	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
168	Blight's Home Hardware	Vancouver	Metro Vancouver	Advertised Residential Lamps
169	Bridgeview Return It Bottle Depot	Surrey	Metro Vancouver	Advertised All Sector Lamp Site
170	Canadian Tire #389 Vancouver Cambie	Vancouver	Metro Vancouver	Advertised Residential Lamps
171	Canadian Tire #443 Surrey	Surrey	Metro Vancouver	Advertised Residential Lamps
172	Canadian Tire #489 North Surrey	Surrey	Metro Vancouver	Advertised Residential Lamps
173	Canadian Tire #601 North Vancouver	North Vancouver	Metro Vancouver	Advertised Residential Lamps
174	Canadian Tire #603 Burnaby	Burnaby	Metro Vancouver	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
175	Canadian Tire #604 Vancouver	Vancouver	Metro Vancouver	Advertised Residential Lamps
176	Canadian Tire #609 Port Coquitlam	Port Coquitlam	Metro Vancouver	Advertised Residential Lamps
177	Canadian Tire #610 Richmond	Richmond	Metro Vancouver	Advertised Residential Lamps
178	Canadian Tire #678 Surrey	Surrey	Metro Vancouver	Advertised Residential Lamps
179	Canadian Tire#608 Coquitlam	Coquitlam	Metro Vancouver	Advertised Residential Lamps
180	Capital Salvage Co. Ltd.	Vancouver	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
181	Collingwood Bottle Exchange	Burnaby	Metro Vancouver	Advertised All Sector Lamp Site
182	Coquitlam Return-It Depot	Coquitlam	Metro Vancouver	Advertised Residential Fixtures
183	Corporation of The City of New Westminster Recycle Depot	New Westminster	Metro Vancouver	Advertised Residential Lamps
184	Davis Trading & Supply	Vancouver	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
185	East 12th Avenue Thrift Store	Vancouver	Metro Vancouver	Advertised Residential Fixtures
186	Edmonds Recycling Ltd.	Langley	Metro Vancouver	Advertised All Sector Lamp Site
187	Edmonds Return-It Depot	Langley	Metro Vancouver	Advertised Residential Fixtures
188	Fleetwood Bottle Return Depot	Surrey	Metro Vancouver	Advertised Residential Fixtures
189	Fraser Valley Metal Exchange	Maple Ridge	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
190	Fraser Valley Return-It Depot	Langley	Metro Vancouver	Advertised Residential Fixtures
191	Gandy's Home Hardware	Vancouver	Metro Vancouver	Advertised Residential Lamps
192	Go Green Depot & Recycling	Vancouver	Metro Vancouver	Advertised Residential Fixtures
193	Guildford Bottle Depot	Surrey	Metro Vancouver	Advertised Residential Fixtures
194	Haney Bottle Depot	Maple Ridge	Metro Vancouver	Advertised Residential Lights
195	Haney Builders Supply	Maple Ridge	Metro Vancouver	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
196	Happy Stan's Recycling Service	Port Coquitlam	Metro Vancouver	Advertised All Sector Lamp Site, Commercial Fixtures & Non-PCB Ballast Site
197	HD Supply	Surrey	Metro Vancouver	Advertised Commercial Lamps
198	Hewer Home Hardware	Vancouver	Metro Vancouver	Advertised Residential Lamps
199	High Point Electric	Surrey	Metro Vancouver	Advertised Residential Fixtures, Advertised All Sector Lamp Site
200	Ironwood Bottle Depot	Richmond	Metro Vancouver	Advertised Residential Fixtures
201	Kerrisdale Lumber Co Ltd	Vancouver	Metro Vancouver	Advertised Residential Lamps
202	Kitchener Bottle Depot	Burnaby	Metro Vancouver	Advertised Residential Fixtures
203	Ladner Bottle Depot Co. Ltd.	Delta	Metro Vancouver	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Advertised Commercial Fixtures and Non-PCB ballast site
204	Ladner Village Hardware	Ladner	Metro Vancouver	Advertised Residential Lamps
205	Langley Bottle Depot	Langley	Metro Vancouver	Advertised Residential Fixtures
206	Langley Thrift Store	Langley	Metro Vancouver	Advertised Residential Fixtures
207	Lee's Bottle Depot Ltd.	Burnaby	Metro Vancouver	Advertised Residential Fixtures
208	London Drugs #10	Vancouver	Metro Vancouver	Advertised Residential Lamps
209	London Drugs #11	Richmond	Metro Vancouver	Advertised Residential Lamps
210	London Drugs #15	Coquitlam	Metro Vancouver	Advertised Residential Lamps
211	London Drugs #17	Delta	Metro Vancouver	Advertised Residential Lamps
212	London Drugs #18	Langley	Metro Vancouver	Advertised Residential Lamps
213	London Drugs #19	Vancouver	Metro Vancouver	Advertised Residential Lamps
214	London Drugs #2	Vancouver	Metro Vancouver	Advertised Residential Lamps
215	London Drugs #25	Burnaby	Metro Vancouver	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
216	London Drugs #28	Vancouver	Metro Vancouver	Advertised Residential Lamps
217	London Drugs #3	New Westminster	Metro Vancouver	Advertised Residential Lamps
218	London Drugs #37	Delta	Metro Vancouver	Advertised Residential Lamps
219	London Drugs #4	Vancouver	Metro Vancouver	Advertised Residential Lamps
220	London Drugs #42	Surrey	Metro Vancouver	Advertised Residential Lamps
221	London Drugs #44	West Vancouver	Metro Vancouver	Advertised Residential Lamps
222	London Drugs #47	Maple Ridge	Metro Vancouver	Advertised Residential Lamps
223	London Drugs #5	North Vancouver	Metro Vancouver	Advertised Residential Lamps
224	London Drugs #50	Vancouver	Metro Vancouver	Advertised Residential Lamps
225	London Drugs #52	Richmond	Metro Vancouver	Advertised Residential Lamps
226	London Drugs #53	Vancouver	Metro Vancouver	Advertised Residential Lamps
227	London Drugs #56	Burnaby	Metro Vancouver	Advertised Residential Lamps
228	London Drugs #6	Burnaby	Metro Vancouver	Advertised Residential Lamps
229	London Drugs #7	Vancouver	Metro Vancouver	Advertised Residential Lamps
230	London Drugs #71	Burnaby	Metro Vancouver	Advertised Residential Lamps
231	London Drugs #74	Vancouver	Metro Vancouver	Advertised Residential Lamps
232	London Drugs #75	Surrey	Metro Vancouver	Advertised Residential Lamps
233	London Drugs #78	Vancouver	Metro Vancouver	Advertised Residential Lamps
234	London Drugs #8	Surrey	Metro Vancouver	Advertised Residential Lamps
235	London Drugs #81	Surrey	Metro Vancouver	Advertised Residential Lamps
236	London Drugs #82	Vancouver	Metro Vancouver	Advertised Residential Lamps
237	London Drugs #9	Surrey	Metro Vancouver	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
238	Lougheed Return-It Depot	Coquitlam	Metro Vancouver	Advertised All Sector Lamp Site and Advertised Residential Fixtures
239	Mac's Traders Inc.	Langley	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
240	Maple Ridge Lighting	Maple Ridge	Metro Vancouver	Advertised Residential Lamps
241	Metrotown Bottle Return It Center	Burnaby	Metro Vancouver	Advertised All Sector Lamp Site
242	Newton Bottle Depot	Surrey	Metro Vancouver	Advertised All Sector Lamp Site & Advertised Residential Fixtures
243	North Shore Bottle Depot	North Vancouver	Metro Vancouver	Advertised All Sector Lamp Site & Advertised Residential Fixtures
244	North Vancouver Bottle & Return-It Depot	North Vancouver	Metro Vancouver	Advertised All Sector Lamp Site & Advertised Residential Fixtures
245	North Vancouver Thrift Store	North Vancouver	Metro Vancouver	Advertised Residential Fixtures
246	OK Bottle Depot	Richmond	Metro Vancouver	Advertised Residential Fixtures
247	Panorama Village Return-It	Surrey	Metro Vancouver	Advertised Residential Fixtures
248	Parsons Scrap Metals	Surrey	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
249	Pearson's Home Hardware	North Vancouver	Metro Vancouver	Advertised Residential Lamps
250	Pitt Meadows Bottle and Return-it Depot Ltd	Pitt Meadows	Metro Vancouver	Advertised Residential Fixtures
251	Port Coquitlam Thrift Store	Port Coquitlam	Metro Vancouver	Advertised Residential Fixtures
252	Port Moody One-Stop Market & Bottle Depot	Port Moody	Metro Vancouver	Advertised All Sector
253	Powell Street Bottle Depot	Vancouver	Metro Vancouver	Advertised All Sector Lamps & Advertised Residential Fixtures
254	Queensborough Landing Return-It Ltd.	New Westminster	Metro Vancouver	Advertised All Sector Lamp Site
255	Regional Recycling Burnaby (0739024 BC Ltd.)	Burnaby	Metro Vancouver	Advertised All Sector Lamp Site & Advertised Residential Fixtures
256	Regional Recycling Richmond	Richmond	Metro Vancouver	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
257	Regional Recycling Vancouver	Vancouver	Metro Vancouver	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site

#	Collection Site Name	City	Regional District	Collection Site Type
258	Richmond Recycling Depot	Richmond	Metro Vancouver	Advertised Residential Lamps & Advertised Residential Fixtures
259	Ridge Meadows Recycling Society	Maple Ridge	Metro Vancouver	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
260	RONA Burnaby #61270	Burnaby	Metro Vancouver	Advertised Residential Lamps
261	RONA Coquitlam #61260	Coquitlam	Metro Vancouver	Advertised Residential Lamps
262	RONA Coquitlam #61290	Coquitlam	Metro Vancouver	Advertised Residential Lamps
263	Rona Delta #12422	Delta	Metro Vancouver	Advertised Residential Lamps
264	RONA Maple Ridge #61190	Maple Ridge	Metro Vancouver	Advertised Residential Lamps
265	RONA New Westminister #6158	New Westminister	Metro Vancouver	Advertised Residential Lamps
266	RONA North Vancouver #8140	North Vancouver	Metro Vancouver	Advertised Residential Lamps
267	RONA Richmond #8040	Richmond	Metro Vancouver	Advertised Residential Lamps
268	Rona Surrey #61240	Surrey	Metro Vancouver	Advertised Residential Lamps
269	RONA Surrey #61250	Surrey	Metro Vancouver	Advertised Residential Lamps
270	RONA Surrey #61720	Surrey	Metro Vancouver	Advertised Residential Lamps
271	RONA Vancouver #61280	Vancouver	Metro Vancouver	Advertised Residential Lamps
272	RONA Vancouver #61760	Vancouver	Metro Vancouver	Advertised Residential Lamps
273	Rypac Metal Recycling	Surrey	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
274	Salvation Army - Lower Mainland	Langley	Metro Vancouver	Advertised Residential Fixtures
275	Sapperton Return-It Depot	New Westminister	Metro Vancouver	Advertised All Sector Lamp Site & Advertised Residential Fixtures
276	Scott Road Bottle Depot Ltd.	Surrey	Metro Vancouver	Advertised All Sector Lamp Site & Advertised Residential Fixtures
277	Semiahmoo Bottle Depot	Surrey	Metro Vancouver	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures, Non-PCB Ballast Site

#	Collection Site Name	City	Regional District	Collection Site Type
278	Simpson Home Hardware	West Vancouver	Metro Vancouver	Advertised Residential Lamps
279	South Van.Bottle Depot	Vancouver	Metro Vancouver	Advertised All Sector Lamps & Advertised Residential Fixtures
280	Southridge Building Supplies Ltd	Surrey	Metro Vancouver	Advertised Residential Lamps
281	Steveston Return-it Depot	Richmond	Metro Vancouver	Advertised Residential Fixtures
282	Surrey Central Return It	Surrey	Metro Vancouver	Advertised Residential Fixtures
283	Tsawwassen Bottle Depot (D&G Recycling)	Delta	Metro Vancouver	Advertised Residential Fixtures
284	Tsawwassen Home Building Centre	Delta	Metro Vancouver	Advertised Residential Lamps
285	Unadvertised	Burnaby	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
286	Unadvertised	Burnaby	Metro Vancouver	Unadvertised Commercial Lamps Site
287	Unadvertised	Burnaby	Metro Vancouver	Unadvertised Commercial Lamps Site
288	Unadvertised	Burnaby	Metro Vancouver	Unadvertised Residential Fixtures
289	Unadvertised	Burnaby	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
290	Unadvertised	Coquitlam	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
291	Unadvertised	Coquitlam	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
292	Unadvertised	Langley	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
293	Unadvertised	Maple Ridge	Metro Vancouver	Unadvertised Commercial Lamps Site
294	Unadvertised	North Vancouver	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
295	Unadvertised	Richmond	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
296	Unadvertised	Surrey	Metro Vancouver	Unadvertised Commercial Lamps Site
297	Unadvertised	New Westminster	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
298	Unadvertised	Surrey	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
299	Unadvertised	Surrey	Metro Vancouver	Unadvertised Residential Fixtures



#	Collection Site Name	City	Regional District	Collection Site Type
300	Unadvertised	Vancouver	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
301	Unadvertised	Vancouver	Metro Vancouver	Unadvertised Residential Fixtures
302	Unadvertised	Vancouver	Metro Vancouver	Unadvertised Residential Fixtures
303	Unadvertised	Vancouver	Metro Vancouver	Unadvertised Residential Fixtures
304	Unadvertised	Vancouver	Metro Vancouver	Unadvertised Residential Fixtures
305	Unadvertised	West Vancouver	Metro Vancouver	Unadvertised Residential Fixtures
306	Unadvertised	White Rock	Metro Vancouver	Unadvertised Residential Fixtures
307	Unadvertised	Delta	Metro Vancouver	Unadvertised Commercial Lamps Site
308	Unadvertised	Delta	Metro Vancouver	Unadvertised Commercial Lamps Consolidator
309	Urban Impact Recycling	Richmond	Metro Vancouver	Advertised Residential Fixtures
310	Vancouver Central Return-It Depot	Vancouver	Metro Vancouver	Advertised All Sector Lamp Site & Advertised Residential Fixtures
311	Vancouver West Bottle Depot	Vancouver	Metro Vancouver	Advertised All Sector Lamp Site
312	Walnut Grove Bottle Depot	Langley	Metro Vancouver	Advertised All Sector Lamp Site & Advertised Residential Fixtures
313	Wastech Services Inc. - North Vancouver Transfer Station	North Vancouver	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
314	Wastech Services Inc. - Surrey Transfer Station	Surrey	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
315	Wastech Services Inc. dba Coquitlam Transfer Station	Coquitlam	Metro Vancouver	Advertised All Sector Lamp Site & Commercial Fixtures & Non-PCB Ballast Site
316	Westcoast Metal Recycling	Langley	Metro Vancouver	Commercial Fixtures & Non-PCB Ballast Site
317	Willowbrook Recycling Inc.	Langley	Metro Vancouver	Advertised Residential Fixtures
318	New Westminster Thrift Store	New Westminster	Metro Vancouver	Advertised Residential Fixtures
319	ABC Recycling	Terrace	Kitimat Stikine	Advertised Commercial Fixtures & Non-PCB Ballast Site
320	Border Town Recycling Group	Stewart	Kitimat Stikine	Advertised All Sector Lamp Site
321	City of Terrace Landfill	Terrace	Kitimat Stikine	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
322	Do Your Part Recycling	Terrace	Kitimat Stikine	Advertised All Sector Lamp Site
323	Hazelton Bottle Depot	New Hazelton	Kitimat Stikine	Advertised Residential Lamps
324	Kitimat Understanding the Environment Society	Kitimat	Kitimat Stikine	Advertised All Sector Lamp Site & Advertised Residential Fixtures
325	Terrace Bottle Depot	Terrace	Kitimat Stikine	Advertised Residential Fixtures
326	Grand Forks Bottle Depot	Grand Forks	Kootenay Boundary	Advertised Residential Fixtures
327	Grand Forks Home Hardware	Grand Forks	Kootenay Boundary	Advertised Residential Lamps
328	Maglio Bldg Centre Trail	Trail	Kootenay Boundary	Advertised Residential Lamps
329	Norbert Salvage & Recycle	Bridesville	Kootenay Boundary	Advertised All Sector Lamp Site
330	Rossland Pro Hardware	Rossland	Kootenay Boundary	Advertised Residential Lamps
331	Trail Bottle Depot	Trail	Kootenay Boundary	Advertised All Sector Lamp Site & Advertised Residential Fixtures
332	Unadvertised	Trail	Kootenay Boundary	Unadvertised Commercial Lamps Site
333	7 Mile Landfill & Recycling Center	Port McNeill	Mt Waddington	Advertised All Sector Lamp Site & Advertised Residential Fixtures
334	Dunlop's Home Hardware Building Centre	Port Hardy	Mt Waddington	Advertised Residential Lamps
335	Port McNeil Recycling Depot	Port McNeil	Mt Waddington	Advertised All Sector Lamp Site
336	RONA Alert Bay #1215	Alert Bay	Mt Waddington	Advertised Residential Lamps
337	RONA Port McNeil #1195	Port McNeil	Mt Waddington	Advertised Residential Lamps
338	Sointula Recycling Depot	Sointula	Mt Waddington	Advertised All Sector Lamp Site
339	The Corporation of the Village of Alert Bay	Alert Bay	Mt Waddington	Advertised All Sector Lamp Site
340	Tri Port Recycling	Port Hardy	Mt Waddington	Advertised All Sector Lamp Site
341	Albertson's Home Center	Parksville	Nanaimo Regional District	Advertised Residential Lamps
342	Applecross Home Hardware	Nanaimo	Nanaimo Regional District	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
343	Canadian Tire #362 Nanaimo	Nanaimo	Nanaimo Regional District	Advertised Residential Lamps
344	Dolly's Home Hardware	Qualicum Beach	Nanaimo Regional District	Advertised Residential Lamps
345	Gabriola Island Recycling	Gabriola Island	Nanaimo Regional District	Advertised All Sector Lamp Site
346	Highway 4 Auto Recyclers	Coombs	Nanaimo Regional District	Commercial Fixtures & Non-PCB Ballast Site
347	London Drugs #36	Nanaimo	Nanaimo Regional District	Advertised Residential Lamps
348	London Drugs #72	Nanaimo	Nanaimo Regional District	Advertised Residential Lamps
349	Nanaimo Recycling Exchange Society	Nanaimo	Nanaimo Regional District	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
350	Parksville Bottle & Recycling Depot Ltd.	Parksville	Nanaimo Regional District	Advertised All Sector Lamp Site & Advertised Residential Fixtures
351	Parksville Home Building Center (Central Builders' Supply)	Parksville	Nanaimo Regional District	Advertised Residential Lamps
352	Parksville Home Hardware	Parksville	Nanaimo Regional District	Advertised Residential Lamps
353	Regional Recycling Old Victoria	Nanaimo	Nanaimo Regional District	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
354	Regional Recycling Hayes	Nanaimo	Nanaimo Regional District	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures, Non-PCB Ballast Site
355	RONA Nanaimo #61030	Nanaimo	Nanaimo Regional District	Advertised Residential Lamps
356	Schnitzer Steel Pacific Inc.	Nanaimo	Nanaimo Regional District	Commercial Fixtures & Non-PCB Ballast Site

#	Collection Site Name	City	Regional District	Collection Site Type
357	Unadvertised	Nanaimo	Nanaimo Regional District	Unadvertised Commercial Lamps Site
358	Armstrong Spallumcheen Bottle Depot	Armstrong	North Okanagan	Advertised Residential Fixtures
359	Central Hardware Ltd	Enderby	North Okanagan	Advertised All Sector Lamp Site
360	Chasers Bottle Depot Ltd.	Vernon	North Okanagan	Advertised Residential Fixtures
361	Home Building Centre Vernon	Vernon	North Okanagan	Advertised Residential Lamps
362	Interior Freight & Bottle Depot	Vernon	North Okanagan	Advertised Residential Lamps, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
363	London Drugs #39	Vernon	North Okanagan	Advertised Residential Lamps
364	RONA Vernon #61300	Vernon	North Okanagan	Advertised Residential Lamps
365	Shepherds Home Hardware	Armstrong	North Okanagan	Advertised Residential Lamps
366	Sun Dial Lighting Vernon	Vernon	North Okanagan	Advertised Residential Lamps
367	Venture Bottle Depot Lumby	Lumby	North Okanagan	Advertised All Sector Lamp Site
368	Venture Training Vernon	Vernon	North Okanagan	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures, Non-PCB Ballast Site
369	Hipperson Home Hardware	Nelson	Northern Rockies	Advertised Residential Lamps
370	Nelson Home Hardware Building Centre	Nelson	Northern Rockies	Advertised Residential Lamps
371	Nelson Leafs Recycling Centre	Nelson	Northern Rockies	Advertised All Sector Lamp Site & Advertised Residential Fixtures
372	Wide Sky Disposal 1989 Ltd.	Fort Nelson	Northern Rockies	Advertised All Sector Lamp Site, Commercial Fixtures & Non-PCB Ballast Site
373	Action Steel Sales	Penticton	Okanagan Similkameen	Advertised Commercial Fixtures & Non-PCB Ballast Site
374	Campbell Mountain Sanitary Landfill	Penticton	Okanagan Similkameen	Advertised Residential Lamps & Advertised Residential Fixtures
375	Canadian Tire #351 Penticton	Penticton	Okanagan Similkameen	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
376	Home Hardware Building Centre-Penticton	Penticton	Okanagan Similkameen	Advertised Residential Lamps
377	Home Hardware Princeton	Princeton	Okanagan Similkameen	Advertised Residential Lamps
378	J&C Bottle Depot	Penticton	Okanagan Similkameen	Advertised All Sector Lamp Site & Advertised Residential Fixtures
379	Keremeos Sanitary Landfill	Keremeos	Okanagan Similkameen	Advertised Residential Lamps
380	London Drugs #70	Penticton	Okanagan Similkameen	Advertised Residential Lamps
381	Okanagan Falls Landfill	Okanagan Falls	Okanagan Similkameen	Advertised Residential Lamps
382	Oliver Sanitary Landfill	Oliver	Okanagan Similkameen	Advertised Residential Lamps
383	Osoyoos Bottle Depot	Osoyoos	Okanagan Similkameen	Advertised All Sector Lamp Site & Advertised Residential Fixtures
384	Osoyoos Home Hardware	Osoyoos	Okanagan Similkameen	Advertised Residential Lamps
385	Peter T. Fodey Lights (Puds Auto Wrecking & Towing)	Osoyoos	Okanagan Similkameen	Commercial Fixtures & Non-PCB Ballast Site
386	RONA Penticton #61480	Penticton	Okanagan Similkameen	Advertised Residential Lamps
387	Summerland Landfill	Summerland	Okanagan Similkameen	Advertised All Sector Lamp Site
388	T2 Market	Oliver	Okanagan Similkameen	Advertised All Sector Lamp Site & Advertised Residential Fixtures
389	The HUT Bottle Depot	Princeton	Okanagan Similkameen	Advertised All Sector Lamp Site
390	Chetwynd Home Hardware	Chetwynd	Peace River	Advertised Residential Lamps
391	Chetwynd Recycling & Bottle Depot	Chetwynd	Peace River	Advertised Residential Fixtures
392	D.C. Campbell Recycling Ltd.	Dawson Creek	Peace River	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Advertised Commercial Fixtures, Non PCB-Ballast Site
393	Eco-Depot Recycling Centre	Fort St John	Peace River	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
394	R Home Supply Centre	Dawson Creek	Peace River	Advertised Residential Lamps
395	Unadvertised	Fort St John	Peace River	Unadvertised Commercial Lamps Consolidator

#	Collection Site Name	City	Regional District	Collection Site Type
396	Unadvertised	Dawson Creek	Peace River	Unadvertised Commercial Lamps Consolidator
397	Augusta Recyclers Ltd.	Powell River	Powell River Regional District	Advertised All Sector Lamp Site & Commercial Fixtures & Non-PCB Ballast Site
398	Canadian Tire #480 Powell River	Powell River	Powell River Regional District	Advertised Residential Lamps
399	RONA Powell River #2791	Powell River	Powell River Regional District	Advertised Residential Lamps
400	Sunset Coast Bottle Depot	Powell River	Powell River Regional District	Advertised Residential Fixtures
401	RONA North Vancouver #61740	North Vancouver	Metro Vancouver	Advertised Residential Lamps
402	Unadvertised	North Vancouver	Metro Vancouver	Unadvertised Residential Fixtures
403	Island Solid Waste Landfill - Port Clements	Port Clements	Skeena-Queen Charlotte Regional District	Advertised All Sector Lamp Site
404	Island Solid Waste Landfill - Queen Charlotte	Queen Charlotte	Skeena-Queen Charlotte Regional District	Advertised All Sector Lamp Site
405	Regional Recycling Prince Rupert (Skeena Queen Charlotte)	Prince Rupert	Skeena-Queen Charlotte Regional District	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures, Non-PCB Ballast Site
406	Woss Recycling Depot	Woss	Sointula	Advertised All Sector Lamp Site
407	Allied Scrap Metal Squamish	Squamish	Squamish Lillooet	Advertised All Sector Lamp Site
408	Carney's Waste Systems - Squamish	Squamish	Squamish Lillooet	Advertised Residential Fixtures
409	London Drugs #80	Squamish	Squamish Lillooet	Advertised Residential Lamps
410	Pemberton Recycling Centre	Pemberton	Squamish Lillooet	Advertised All Sector Lamps, Residential Fixtures, Commercial Fixtures, Non-PCB Ballast Site

#	Collection Site Name	City	Regional District	Collection Site Type
411	Regional Recycling Whistler	Whistler	Squamish Lillooet	Advertised All Sector Lamp Site, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
412	RONA Pemberton Valley Hardware #08522	Pemberton	Squamish Lillooet	Advertised Residential Lamps
413	RONA Squamish #61450	Squamish	Squamish Lillooet	Advertised Residential Lamps
414	RONA Whistler #61460	Whistler	Squamish Lillooet	Advertised Residential Lamps
415	The Re-Use-It Centre Whistler	Whistler	Squamish Lillooet	Advertised Residential Fixtures
416	Whistler Home Hardware	Whistler	Squamish Lillooet	Advertised Residential Lamps
417	ABC Recycling	Campbell River	Strathcona	Advertised Commercial Fixtures & Non-PCB Ballast Site
418	Campbell River Waste Management Centre	Campbell River	Strathcona	Advertised All Sector Lamp Site, Commercial Fixtures & Non-PCB Ballast Site
419	Canadian Tire #437 Campbell River	Campbell River	Strathcona	Advertised Residential Lamps
420	Cortes Island Waste Management Centre	Cortes Island	Strathcona	Advertised All Sector Lamp Site
421	Island Return It Recycling Centre Campbell River	Campbell River	Strathcona	Advertised All Sector Lamp Site & Advertised Residential Fixtures
422	London Drugs #73	Campbell River	Strathcona	Advertised Residential Lamps
423	Schnitzer Steel Pacific Inc.	Campbell River	Strathcona	Commercial Fixtures & Non-PCB Ballast Site
424	Village of Gold River	Gold River	Strathcona	Advertised Residential Lamps, Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
425	Willow Point Bottle	Campbell River	Strathcona	Advertised All Sector Lamp Site
426	Canadian Tire #636 Sechelt	Sechelt	Sunshine Coast	Advertised Residential Lamps
427	Gibsons Building Supplies	Gibsons	Sunshine Coast	Advertised Residential Lamps
428	Gibsons Recycling Depot	Gibsons	Sunshine Coast	Advertised All Sector Lamp Site & Advertised Residential Fixtures
429	London Drugs #61	Gibsons	Sunshine Coast	Advertised Residential Lamps

#	Collection Site Name	City	Regional District	Collection Site Type
430	RONA Madeira Park #9551 & #61420	Madeira Park	Sunshine Coast	Advertised Residential Lamps
431	Salish Soils	Sechelt	Sunshine Coast	Advertised All Sector Lamp Site
432	Sechelt P/U Recyclers	Sechelt	Sunshine Coast	Commercial Fixtures & Non-PCB Ballast Site
433	Trail Bay Hardware	Sechelt	Sunshine Coast	Advertised Residential Lamps
434	Canadian Tire #355 Kamloops	Kamloops	Thompson Nicola	Advertised Residential Lamps
435	Chase Home Hardware	Chase	Thompson Nicola	Advertised Residential Lamps
436	General Grants North Shore Bottle Depot	Kamloops	Thompson Nicola	Advertised All Sector Lamp Site & Advertised Residential Fixtures
437	General Grants Sahali	Kamloops	Thompson Nicola	Advertised All Sector Lamp Site & Advertised Residential Fixtures
438	Home Hardware Building Centre -Merritt	Merritt	Thompson Nicola	Advertised Residential Lamps
439	Kamloops Home Hardware	Kamloops	Thompson Nicola	Advertised Residential Lamps
440	Light Your World	Kamloops	Thompson Nicola	Advertised Residential Lamps
441	Logan Lake Bottle Depot	Logan Lake	Thompson Nicola	Advertised All Sector Lamp Site
442	London Drugs #35	Kamloops	Thompson Nicola	Advertised Residential Lamps
443	Lorne Street Bottle Depot	Kamloops	Thompson Nicola	Advertised Residential Fixtures
444	Merritt Return-It Depot Ltd.	Merritt	Thompson Nicola	Advertised All Sector Lamp Site & Advertised Residential Fixtures
445	Mission Flats Landfill	Kamloops	Thompson Nicola	Advertised Residential Fixtures, Commercial Fixtures & Non-PCB Ballast Site
446	Quality Glass Ltd.	Ashcroft	Thompson Nicola	Advertised All Sector Lamp Site
447	RONA Clearwater #06410	Clearwater	Thompson Nicola	Advertised Residential Lamps
448	RONA Kamloops #61310	Kamloops	Thompson Nicola	Advertised Residential Lamps
449	RONA Kamloops #61410	Kamloops	Thompson Nicola	Advertised Residential Lamps
450	The Lampost	Kamloops	Thompson Nicola	Advertised Residential Lamps
451	Wells Gray Home Hardware	Clearwater	Thompson Nicola	Advertised Residential Lamps



**BC LightRecycle collection sites that added contracts with PCA in 2014**

#	Collection Site Name	City	Regional District	Collection Site Type
1	Border Town Recycling Group	Stewart	Kitimat Stikine	Advertised All Sector Lamp Site
2	Edmonds Return-It Depot	Langley	Metro Vancouver	Advertised Residential Fixtures
3	Guildford Bottle Depot	Surrey	Metro Vancouver	Advertised Residential Fixtures
4	Haney Bottle Depot	Maple Ridge	Metro Vancouver	Advertised Residential Lamps
5	Hazelton Bottle Depot	New Hazelton	Kitimat Stikine	Advertised Residential Lamps
6	High Point Electric	Surrey	Metro Vancouver	Advertised Residential Fixtures, Advertised All Sector Lamp Site
7	Island Solid Waste Landfill - Queen Charlotte	Queen Charlotte	Skeena-Queen Charlotte Regional District	Advertised All Sector Lamp Site
8	Logan Lake Bottle Depot	Logan Lake	Thompson Nicola	Advertised All Sector Lamp Site
9	Metrotown Bottle Return It Center	Burnaby	Metro Vancouver	Advertised All Sector Lamp Site
10	Mission Recycling Center (Bottle Depot)	Mission	Fraser Valley	Advertised Residential Fixtures
11	Norbert Salvage & Recycle	Bridesville	Kootenay Boundary	Advertised All Sector Lamp Site
12	Port Moody One-Stop Market & Bottle Depot	Port Moody	Metro Vancouver	Advertised All Sector Lamp Site
13	RONA Clearwater #06410	Clearwater	Thompson Nicola	Advertised Residential Lamps
14	Rona Delta #12422	Delta	Metro Vancouver	Advertised Residential Lamps
15	RONA Vanderhoof #11690	Vanderhoof	Bulkley-Nechako	Advertised Residential Lamps
16	Smithers Home Hardware	Smithers	Bulkley-Nechako	Advertised Residential Lamps
17	Tru Hardware Sicamous	Sicamous	Columbia Shushwap	Advertised Residential Lamps
18	Vancouver West Bottle Depot	Vancouver	Metro Vancouver	Advertised All Sector Lamp Site
19	Unadvertised	Burnaby	Metro Vancouver	Unadvertised Commercial Lamps Consolidator

**BC LightRecycle collection sites that ended contracts with PCA in 2014**

#	Depot Name	City	Regional District	Collection Site Type
1	Asset Investment Recovery - Surrey	Surrey	Metro Vancouver	Advertised Residential Fixtures
2	Campbell River Bottle Depot	Campbell River	Strathcona	Advertised Residential Fixtures, Advertised All Sector Lamp Site
3	Columbia Bottle Recycling	Creston	Central Kootenay	Advertised All Sector Lamp Site
4	Comox Valley Regional District	Campbell River	Strathcona	Advertised All Sector Lamp Site
5	Courtenay Return-It Depot	Courtenay	Comox Valley	Advertised Residential Fixtures, Advertised All Sector Lamp Site
6	CP & RJ's Recycling Ltd	Mackenzie	Fraser - Fort George	Advertised All Sector Lamp Site
7	Lake Country Building Centre	Lake Country	Central Okanagan	Advertised Residential Lamps
8	Unadvertised	Pentiction	Okanagan Similkameen	Unadvertised Commercial Lamps Site
9	RONA Campbell River #61220	Campbell River	Strathcona	Advertised Residential Lamps
10	Shell Busey Home Smart	Surrey	Metro Vancouver	Advertised Residential Lamps
11	Squamish Home Hardware	Squamish	Squamish Lillooet	Advertised Residential Lamps
12	Unadvertised	Delta	Metro Vancouver	Unadvertised Commercial Lamps Consolidator

**Appendix C - Audited Financial Statement**

**PRODUCT CARE ASSOCIATION  
BC LIGHTRECYCLE PROGRAM**

**STATEMENT OF REVENUES AND EXPENSES**

**31 DECEMBER 2014**

**PRODUCT CARE ASSOCIATION  
BC LIGHTRECYCLE PROGRAM  
Statement of Revenues and Expenses  
For the year ended 31 December 2014**

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## **INDEPENDENT AUDITORS' REPORT**

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To: BC Ministry of Environment,

As required the British Columbia Environmental Management Act, Recycling Regulation 8(2)(f)(ii), we have audited the Statement of Revenues and Expenses of the BC LightRecycle Program (the "Statement") as reported by Product Care Association for the year ended 31 December 2014 and a summary of significant accounting policies and other explanatory information.

### **Management's Responsibility for the Statement**

Management is responsible for the preparation 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 the Statement that is free from material misstatement, whether due to fraud or error.

### **Auditors' Responsibility**

Our responsibility is to express an opinion on the Statement based on our audit. We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the Statement is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Statement. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the Statement, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation of the Statement 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 entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the Statement.

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



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## INDEPENDENT AUDITORS' REPORT - continued

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### Opinion

In our opinion, the Statement presents fairly, in all material respects, the revenues and expenses of the BC LightRecycle Program as reported by Product Care Association for the year ended 31 December 2014 in accordance with Canadian accounting standards for not-for-profit organizations.

### Restriction on Distribution

This report is prepared on the direction of Product Care Association'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's management and the BC Ministry of Environment and should not be distributed to other parties.

*Rolfe, Benson LLP*  
CHARTERED ACCOUNTANTS

Vancouver, Canada  
15 April 2015

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**PRODUCT CARE ASSOCIATION  
BC LIGHTRECYCLE PROGRAM**  
Statement of Revenues and Expenses  
For the year ended 31 December 2014

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	2014
<b>Revenues</b>	<b>\$ 8,358,941</b>
<b>Program expenses</b>	
Processing	2,001,643
Collection	334,177
Transportation	295,687
Depot supplies	154,234
	<u>2,785,741</u>
<b>General and administrative expenses</b>	
Management	146,652
Communications	124,717
Administration	53,086
Accounting and legal	21,687
Overhead allocation (Note 2(c))	439,089
	<u>785,231</u>
<b>Total expenses</b>	<u>3,570,972</u>
<b>Excess of revenues over expenses for the year</b>	<b>\$ 4,787,969</b>

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**PRODUCT CARE ASSOCIATION  
BC LIGHTRECYCLE PROGRAM**  
Notes to the Statement of Revenues and Expenses  
For the year ended 31 December 2014

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**1. Basis of Presentation**

The Statement of Revenues and Expenses (the "Statement") only includes the revenues and expenses of the BC LightRecycle Program, a segment of the operations of Product Care Association (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**

Eco-fees are received from members of the BC LightRecycle Program. 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. Eco-fee revenues are recognized as individual members report and remit them as required by applicable provincial environmental legislation.

**(b) Use of Estimates**

The preparation of financial statements in conformity with Canadian accounting standards for not-for-profit organizations requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the balance sheet date and the reported amounts of revenues and expenses during the year. 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 this program. The allocation of general and administrative expenses to this program is determined using the percentage of program specific operating expenses as compared to total operating expenses for all the Association's programs.

**Appendix D - 2014 Third Party Assurance Statement for Non-Financial Information**

**PRODUCT CARE ASSOCIATION**

**NON-FINANCIAL AUDIT OF  
BC LIGHTRECYCLE PROGRAM**

**31 DECEMBER 2014**



**ROLFE, BENSON LLP**  
CHARTERED PROFESSIONAL ACCOUNTANTS



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## INDEPENDENT AUDITORS' REPORT

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To the British Columbia Ministry of Environment:

We have audited the following Selected Information within Product Care Association's Annual Report for the BC LightRecycle Program for the year ended 31 December 2014:

- Section 4 Collection System and Facilities and Appendix B - 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 Sold and Collected - the description of how total amounts of the producer's product sold and collected has been calculated in accordance with Section 8(2)(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.

Our responsibility is to express an opinion on the Selected Information based on the procedures we have performed and the evidence we have obtained. Our audit does not constitute a legal determination on the Association's compliance with Sections 8(2)(b), (d) and (e) of the Recycling Regulation.

### Evaluation Criteria

The suitability of the evaluation criteria is the responsibility of management. 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.



### Scope of the Audit

We carried out our audit in accordance with International Standard on Assurance Engagements 3000 (IAS 3000) published by the International Federation of Accountants. This Standard requires, amongst others, that the assurance team possesses the specific knowledge, skills and professional competencies needed to understand and audit the information included within the Selected Information, and that they comply with specific requirements to ensure their independence.

An audit includes examining, on a test basis, evidence supporting the amounts and disclosures within the Selected Information. An audit 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:

- inquiries of relevant management, to gain an understanding of the Association's data collection, monitoring and reporting processes in relation to the Selected Information included in the Annual Report;
- confirming the existence of collection facilities and their understanding of the program by reviewing contracts, performing site visits, telephone contact with the facilities and internet research;
- comparing the number of collection facilities to the prior year and investigating the reasons for any changes;
- checking the units of product sold during the year and agreeing to the audit work performed in relation to the Association's audited financial statements;
- checking the units of product collected during the year by agreeing to supporting shipping documentation on a test basis;
- re-performing conversion calculations on a test basis; and
- ensuring wording of the Annual Report is reflective of audit findings.

### 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 evaluation criteria.

### Opinion

In our opinion, the Selected Information within Product Care Association's Annual Report for the BC LightRecycle Program for the year ended 31 December 2014 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; and
- the description of how total amounts of the producer's product sold and collected has been calculated in accordance with Section 8(2)(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 supporting documentation received from the processors and survey responses from the primary processors. Survey responses were received from 3 of the 7 processors used by the program. No verification of product management has been obtained from downstream processors. Additionally, the Association has identified that a key assurance process in verifying product management is to perform due diligence activities such as periodic processor inspections. During the 2014 fiscal year, these activities were not performed. As such, there is uncertainty surrounding the Selected Information contained in the Pollution Prevention Hierarchy section of Appendix 1.
2. The Selected Information included in Section 7 specifically relating to Product Sold is based on self-reported member data. During the 2014 fiscal year, the Association performed internal member audits of 43 of the 389 members of the program and as such, the product sold data presented is subject to uncertainty.
3. The calculation of capture rates in Section 7.3 of the Annual Report and the performance targets in Section 9 relating to capture rates have been excluded from the Selected Information as the capture rate is calculated using units available for the program to collect which is not included in Section 8(2)(b), (d) and (e) of the Recycling Regulation and therefore has not been audited. Additionally, the Association has not included the calculation of the recovery rate in the Annual Report.

### 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, Canada  
29 June 2015

Appendix 1

Evaluation Criteria

Collection facilities

Specific disclosures in the annual stewardship report for which evaluation criteria were developed	
Disclosure per annual report	Reference
# of Advertised residential lamps depots – 199	Section 4 Collection System and Facilities - Table 3: BC LightRecycle Product 2014 Collection Sites Breakdown on page 8
# of Advertised residential fixtures depots – 129	
# of Advertised all sector lamps (commercial) depots – 106	
# of Advertised commercial fixtures and non-PCB ballasts depots – 67	
# of Unadvertised commercial lamps depots – 14	
# of Unadvertised commercial lamps consolidators depots – 15	
# of Unadvertised residential fixtures depots – 13	
“Many locations accept multiple Program product types (e.g., both residential lamps and residential fixtures), and were advertised separately for each product type. As a result the Program advertised a total of 501 collection site locations in 2014, despite there being only 451 independent collection facilities.”	Section 4 Collection System and Facilities - on page 7
“The Program added 19 contracts and ended 12 contracts in 2014.”	Section 4 Collection System and Facilities - on page 7

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 2014, 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 generators (LVG’s) and collection events 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.

- Reasons for any changes in the number of collection facilities from the previous annual report are supported by valid business purposes and adequately disclosed in the Annual Report.

**Pollution Prevention Hierarchy**

<b>Specific disclosures in the annual stewardship report for which evaluation criteria were developed</b>	
<b>Disclosure per annual report</b>	<b>Reference</b>
<p>“The following section is based on information provided by the Program’s primary processors, where available, or based on the understanding of the service agreement with the processors.”</p> <p>“The information detailed in this section may have a degree of uncertainty as the program has not verified product management information to a reasonable assurance level in accordance with audit standards. However, there is greater confidence in the end fate of hazardous wastes given the framework of regulatory requirements governing hazardous materials and commensurate oversight by various environmental departments and agencies.”</p>	<p>Section 6 Pollution Prevention Hierarchy and Product/Component Management - on page 12 and footnote 5</p>
<p>“PCA relies on the information provided by the Program’s primary processors and reviews the data provided by them in their monthly processing reports and annual reports. Once materials leave the primary processors, they are comingled with other materials by the downstream processors. As a result, PCA is unable to perform audits of this material as it would be impossible to determine which material is directly from Program products. PCA relies on the information and data provided by its primary processors for lamp recycling, and by the CESA stewardship program for information regarding the volume and material management for residential fixtures.”</p>	<p>Section 6 Pollution Prevention Hierarchy and Product/Component Management on page 13</p>
<p><b>Material: Lamps</b>            “Collected whole lamps were shipped to three separate processors where they were broken down into component parts (i.e., glass, metal, mercury, and phosphor powder) and recovered/recycled or disposed of as reported by the processors to the program.”</p> <p>Sub-Component: Phosphor Powder            End fate: Once mercury is removed, remaining phosphor powder sent to landfill</p>	<p>Section 6 Pollution Prevention Hierarchy and Product/Component Management on page 12</p> <p>Section 6 Pollution Prevention Hierarchy and Product/Component Management - Table 6: Material Management and Flow on page 14</p>



<p>Sub-Component: Mercury End fate: Used as a commodity in manufacturing process</p> <p>Sub-Component: Metal End fate: Used as a commodity by refineries or manufacturers</p> <p>Sub-Component: Glass End fate: Used as a commodity in concrete manufacturing or as sand blast media</p>	
<p><b>Material: Crushed Lamps</b> Sub-Component: Metal, Phosphor Powder, Glass End fate: Used in smelter operations</p> <p>Sub-Component: Plastic End fate: Used for energy recovery</p> <p>Sub-Component: Mercury End fate: Recovered and sold as a commodity</p>	<p>Section 6 Pollution Prevention Hierarchy and Product/Component Management - Table 6: Material Management and Flow on page 14</p>
<p><b>Material: Residential Fixtures</b> “Due to the similarity of the constituents that make up fixtures and small appliances (e.g. metal, glass, plastics etc.) residential fixtures were collected, comingled with small appliances and power tools from the Canadian Electrical Stewardship Association (CESA) stewardship program and shipped to three independent processors, where they were comingled with other electronics and broken down into their component parts for recovery/recycling. According to the primary processor for the CESA program, the resulting commodities were managed as follows:”</p> <p>Sub-Component: Ferrous Steel End fate: Sold as a commodity</p> <p>Sub-Component: Plastics End fate: Pelletized for reuse</p> <p>Sub-Component: Aluminum End fate: Sold as commodity/smelting</p> <p>Sub-Component: Wire and Cables End fate: Smelting</p> <p>Sub-Component: Copper End fate: Sold as commodity/smelting</p>	<p>Section 6 Pollution Prevention Hierarchy and Product/Component Management on page 12-13</p> <p>Section 6 Pollution Prevention Hierarchy and Product/Component Management - Table 6: Material Management and Flow on page 14</p>



<p>Sub-Component: Glass End fate: Crushed for reuse/smelting</p> <p>Sub-Component: Circuit Boards End fate: Smelting</p> <p>Sub-Component: Refuse End fate: Landfill</p> <p>Sub-Component: Rechargeable Batteries End fate: Smelting</p> <p>Sub-Component: Paper Based Materials End fate: Recovery</p> <p>Sub-Component: Non Rechargeable Batteries End fate: Smelting</p> <p>Sub-Component: Heating Oil End fate: Recovery/Reuse</p> <p>“Due to the comingling of collections and processing and the complexity of the recycling system, it is not possible for the program to be able to specifically identify the proportion of materials attributed to LightRecycle and the program has limited ability to verify accuracy of the reported information to a precise degree of certainty.”</p>	<p>Section 6 Pollution Prevention Hierarchy and Product/Component Management on page 13</p>
<p><b>Material: Commercial Fixtures and Non-PCB Ballasts</b></p> <p>“Commercial fixtures and non-PCB ballasts were collected and managed through the existing market driven scrap metal recycling system. Given there is value in the metal commodity, the program assumes that the material is recycled, but some non-metal material would need to be disposed of. Since it is a market driven system, the program has no ability to verify or report on the volume and portion of the material recycled and or disposed of through this system.”</p> <p>Sub-Component: NA End fate: Managed through scrap metal recycling system</p>	<p>Section 6 Pollution Prevention Hierarchy and Product/Component Management on page 13</p> <p>Section 6 Pollution Prevention Hierarchy and Product/Component Management - Table 6: Material Management and Flow on page 15</p>
<p><b>Material: PCB Ballasts</b></p> <p>“PCB ballasts were collected and managed as hazardous waste and incinerated at PCB licensed incinerators.”</p>	<p>Section 6 Pollution Prevention Hierarchy and Product/Component Management on page 13</p>

Sub-Component: NA End fate: Incineration	Section 6 Pollution Prevention Hierarchy and Product/Component Management - Table 6: Material Management and Flow on page 15
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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 processor which is supported by shipping documents or processor invoices.
- The primary processor provides an invoice indicating the amount of product processed and in some cases a certificate of processing/reclamation.
- The primary processor provides information on product management in an annual questionnaire or an annual report to the Association. Questionnaire responses were received from 3 of the 7 processors used by the program. No verification is obtained from downstream processors in multi-step processing.
- The Association performs periodic site inspections of the processors facility. Site inspection criteria have been developed to confirm the responses in the questionnaire provided by the primary processor. No site inspections were performed during the 2014 fiscal year.

**Product sold and collected**

Specific disclosures in the annual stewardship report for which evaluation criteria were developed	
Disclosure per annual report	Reference
<b>Product sold</b>	Section 7 Product Sold, Products Collected and Recovery Rate - Table 7: Units Sold by Product Category (2014) on page 15
# of Fluorescent/Induction/UV Tubes measuring ≤ 2 feet – 267,416	
# of Fluorescent/Induction/UV Tubes measuring > 2 feet and ≤ 4 feet – 3,635,654	
# of Fluorescent/Induction/UV Tubes measuring > 4 feet – 326,982	
# of Compact Fluorescent Lights (CFL)/ Screw-In Induction Lamps – 4,572,061	
# of Light Emitting Diodes (LED) – 2,351,745	
# of High Intensity Discharge (HID) and Other – 432,701	
# of Incandescent / Halogen – 14,534,477	
# of Miniature Bulb Package – 470,424	
# of Designated Small Fixtures/Decorative Light Strings – 4,106,759	
# of Fixture Category A – 3,431,373	
# of Fixture Category B – 74,096	

<p># of Large Outdoor Fixtures – 26,555</p> <p># of Ballasts/Transformers (not integrated into lamps or fixtures) – 360,710</p>	
<p>“From time to time members submit retroactive unit sales information which can include sales data related to prior years. Please note that the 2014 data represents units sold during the 2014 year as reported by members. Any prior year sales data reported by members during 2014 has not been included in the unit sales as reported in Table 6 and prior year reports have not been amended to include this data.”</p>	<p>Section 7 Product Sold, Products Collected and Recovery Rate - Table 7: Units Sold by Product Category (2014) note on page 15</p>
<p><b>Product collected</b></p> <p>Lamps – 4,548,481 units</p> <p>Residential fixtures – 262 tonnes</p> <p>PCB ballasts – 22,458 kg</p> <p>Crushed lamps – 18,509 kg</p>	<p>Section 7 Product Sold, Products Collected and Recovery Rate - Table 8: Estimated Quantity of Products Collected in 2014 on page 16</p>
<p>“Commercial fixtures and non-PCB ballasts were collected and processed through the scrap metal recycling system (market driven system). Accordingly, their weights and volumes were not tracked.”</p> <p>“Absolute collection quantities for the different lamp technologies are estimated based on reported quantities processed between January 1 and December 31, 2014 as reported by the Program’s three processors/recyclers. The reported quantities may include units collected in the 2013 fiscal year but processed in the 2014 fiscal year and may exclude units collected in the 2014 fiscal year that were not processed as of December 31, 2014.”</p>	<p>Section 7 Product Sold, Products Collected and Recovery Rate on page 16</p>
<p><b>Product Collected – Absolute Collection Data:</b></p> <p><b>Lamps</b></p> <p>0 to 2 foot fluorescent tubes including U and O shaped tubes – 80,291 units</p> <p>&gt;2 to 4 foot fluorescent tubes including polycoated tubes – 1,997,812 units</p> <p>&gt;4 to 8 foot fluorescent tubes – 206,849 units</p> <p>CFL Lamps – 883,068 units</p> <p>Incandescent Lamps – 981,174 units</p>	<p>Section 7 Product Sold, Products Collected and Recovery Rate - Table 9: BC LightRecycle Program 2014 Absolute Collection Data: Lamps on page 16 and footnotes 1 and 2</p>

<p>Halogen Lamps – 201,966 units</p> <p>LED, HID, Neon and UV Lamps – 197,321 units</p> <p>“Miniature bulbs are categorized according to lamp technology.”</p> <p>“Neon and polycoated lamp collection is reported from the processor in length of feet. The length is then divided by 4 to obtain a unit number which is reported on.”</p>	
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The following evaluation criteria were applied to the assessment of the description of how total amounts of the producer’s product sold and collected has been calculated in accordance with Section 8(2)(e) of the Recycling Regulation:

**Product Sold**

- The Association maintains a listing of product sold by product category for the fiscal year which agrees to the amounts disclosed in the Annual Report.
- The units of product sold per program category have been recalculated using the data included in the audit work performed in relation to the Association’s audited financial statements.
- Units sold are determined based on self-reporting by each member of the program. A key source of information in determining the accuracy of units sold and reported to the program by members is the internal audit process carried out on sales data reported by individual members. The Association has performed 43 internal audits of its 389 members’ sales data for the 2014 fiscal year.

**Product Collected**

- 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 provided by the processor which indicates the total units collected and the type of program materials collected which has been agreed upon by the shipper, receiver and carrier.
- Residential fixtures are co-mingled with other end of life electronic materials during collection. The processors perform periodic sampling activities to determine the estimated percentage of program materials belonging to the program. The weights of residential fixtures related to the program are calculated by multiplying the total weight of co-mingled materials by the estimated percentage of LightRecycle program materials.

**Performance targets**

Specific disclosures in the annual stewardship report for which evaluation criteria were developed	
Disclosure per annual report	Reference
No performance targets have been identified relating to Section 8(2)(b), (d) and (e) of the Recycling Regulation.	