

Shaw Communications Inc.
Annual Report to the Director
2018 Calendar Year

Submitted to: Director, Extended Producer Responsibility Programs
PO Box 9341, STN PROV GOVT
Victoria, BC V8W 9M1

Prepared by: Ken McKay, Supervisor Fixed Assets and Inventory
Shaw Communications Inc.
630 – 3 Ave SW
Calgary, AB T2P 4L4

June 30, 2019



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1. Executive Summary

The table below should concisely summarize program performance for the section 8 annual reporting requirements such that ministry staff and the public can easily understand whether reporting requirements and stewardship plan targets have been met.

Products within plan	<p>The following types of customer equipment are included in our Stewardship Plan in reference to the requirements provided for in the BC Recycling Regulation – Electronic and Electrical Product Category. This list is only an overview, and does not detail all of the individual components and accessories that may be associated with each equipment type.</p> <ul style="list-style-type: none"> • Modems • Routers • Set-top boxes • Personal Video Recorders (PVRs) • Remotes • Satellite Receivers • Batteries used in these devices
Program website	https://www.shaw.ca/uploadedFiles/Corporate/In_the_Community/Green_Initiatives/Stewardship_Plan_april_2012.pdf

Recycling Regulation Reference	Topic	Summary
Part 2, section 8(2)(a)	Public Education Materials and Strategies	<p>Shaw employs several approaches to inform our customers of the options available to them for returning equipment. These include:</p> <ul style="list-style-type: none"> • Shaw customer support personnel are able to advise customers how to return old equipment; • Shaw technicians and installers are aware of what information to provide customers on the disposal of old equipment, and will at all times accept old equipment from customers; • Stickers on Shaw electronic equipment include information to assist customers in returning equipment to Shaw; • Information on Shaw’s external website (Appendix A);
Part 2, section 8(2)(b)	Collection System and Facilities	<p>Shaw provides a variety of methods for customers to easily return equipment (both leased and customer-owned) to us:</p> <ul style="list-style-type: none"> • Equipment may be picked up by a Shaw technician during the course of a service visit; • Equipment may be dropped-off at one of our Shaw retail locations located throughout BC. These locations are available to the public and will accept any Shaw equipment returned for processing, regardless of where the equipment was purchased; • Where new equipment is shipped directly to a customer to replace existing equipment, a pre-paid waybill may be provided to return the existing equipment to us; • In certain circumstances, customers may request and receive a shipping box with a pre-paid way bill to return unused equipment directly to us.

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Part 2, section 8(2)(c)	Product Environmental Impact Reduction, Reusability and Recyclability	Although Shaw is not the manufacturer of the electronic equipment we distribute, we continue to work with our manufacturers to minimize or eliminate toxic or hazardous materials contained in both the products themselves and their associated packaging. The majority of the products we distribute are RoHS compliant.
Part 2, section 8(2)(d)	Pollution Prevention Hierarchy and Product / Component Management	<p>Consistent with the pollution prevention hierarchy outlined in the regulations, Shaw performs a multiple-stage assessment of returned equipment to determine whether it can be reused or repaired:</p> <ul style="list-style-type: none"> • Equipment is assessed to determine whether it can be reused or repaired locally. Reusable or locally repaired equipment is placed back within the local area's distribution stream. Equipment that can be reused or repaired, but not locally, is returned to one of Shaw's distribution centres in Alberta or Ontario. • At our distribution centres, equipment is further assessed to determine whether the equipment can be reused, repaired or returned to the manufacturer under warranty. Reusable or repaired equipment is returned to Shaw's distribution stream for use in any of Shaw's service areas across Canada. • At our distribution centres, recovered equipment that is reusable or repaired, but is no longer part of Shaw's equipment portfolio in Canada, is assessed to determine if the equipment can be resold for use in other jurisdictions. • Recovered equipment (in BC or at our distribution centres) that cannot be reused, repaired or resold is harvested for reusable components and the remaining portion sent to one of Shaw's authorized recycling partners for processing.
Part 2, section 8(2)(e) Part 2, section 8(2)(e.1)	Product Sold and Collected and Recovery Rate	<p>For the period January 1, 2018 to December 31, 2018:</p> <ul style="list-style-type: none"> • 1,125,530 kg of equipment was distributed in BC • 1,159,399 kg of equipment was recovered in BC • Recovery rate: 103% <p>A breakdown of equipment recovered by regional district is provided in Section 7.2 of the report.</p>
Part 2, section 8(2)(f)	Summary of Deposits, Refunds, Revenues and Expenses	Not applicable as Shaw does not charge fees to our customers related to this program.

Comparison of Key Performance Targets		
Part 2 section 8(2)(g); See full list of targets in Plan Performance		
Priority Stewardship Plan Targets	Performance	Strategies for Improvement
Collection Rate	1,159,399 kg of equipment was recovered in BC, representing 103% of equipment weight distributed during the year.	

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2. Program Outline

Provide a brief (1 page) overview of the stewardship agency/company and their members [website link], program inclusions, collection approach and any other high level information relative to the annual report e.g. studies completed, new targets set, consultations or surveys conducted.

Shaw Communications Inc. (“Shaw”), in coordination with the BC Ministry of Environment, developed our BC Electronic Equipment - Stewardship Plan (“Stewardship Plan”). Our Stewardship Plan was prepared in accordance with the requirements set out in the BC Recycling Regulation – Electronic and Electrical Product Category, and outlines Shaw’s program for the collection, refurbishing for re-use, resale and recycling of our electronic products covered by the regulations.

The following types of customer equipment are included in our Stewardship Plan in reference to the requirements provided for in the BC Recycling Regulation – Electronic and Electrical Product Category. This list is only an overview, and does not detail all of the individual components and accessories that may be associated with each equipment type.

- Modems
- Routers
- Set-top boxes
- Personal Video Recorders (PVRs)
- Remotes
- Satellite Receivers
- Batteries used in these devices

In addition to the customer equipment listed above, the following categories of Shaw’s internal-use equipment are also included in our Stewardship Plan:

- Modems
- Routers
- Set-top boxes
- Personal Video Recorders (PVRs)
- Satellite Receivers
- Batteries used in these devices

This Annual Report covers the period January 1, 2018 to December 31, 2018.

3. Public Education Materials and Strategies

Provide a brief overview of the key materials and strategies used to promote awareness of the program. Identify the various types of outreach (i.e. face to face, social media, traditional media, etc.) utilized.

Shaw employs several approaches to inform our customers of the options available to them for returning equipment. These include:

- Shaw customer support personnel are able to advise customers how to return old equipment;
- Shaw technicians and installers are aware of what information to provide customers on the disposal of old equipment, and will at all times accept old equipment from customers;

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- Stickers on Shaw electronic equipment include information to assist customers in returning equipment to Shaw;
- Information on Shaw's external website (Appendix A);

The majority of equipment returned to Shaw is collected in the normal course of our customer interactions, whether it be at one of our retail locations or at the customer's home with one of our Shaw technicians. Unlike many other consumer products, when a Shaw customer wishes to upgrade their equipment or no longer requires service, they generally must contact Shaw. It is during this interaction that Shaw most commonly advises customers of the available options for returning their old equipment to us in an environmentally responsible manner.

Shaw's internal procedures include steps to affix one of our return stickers, shown below, to equipment prior to initial deployment or during processing for reuse. As this practice was introduced in 2012, existing equipment in customers' homes may not display one of these stickers, however Shaw expects stickers to be applied upon the return and processing for reuse of this equipment.



4. Collection System and Facilities

Provide a brief overview of the way in which the stewardship agency collects the products from the consumer (i.e. depots, return to retailer, collection events, etc.). If available, list the number of collection facilities in each regional district and identify changes in the number, location, and method of collection from the previous year to the present year. If the list is extensive, consider including a summary and attaching a separate document or URL.

4.1 Collection Process

Shaw proactively contacts customers who have recently closed their accounts and continue to have equipment outstanding. Shaw provides a variety of methods for customers to easily return equipment (both leased and customer-owned) to us:

- Equipment may be picked up by a Shaw technician during the course of a service visit;
- Equipment may be dropped-off at one of our Shaw retail locations located throughout BC. These locations, described further below, are available to the public and will accept any Shaw equipment returned for processing, regardless of where the equipment was purchased;
- Where new equipment is shipped directly to a customer to replace existing equipment, a pre-paid waybill may be provided to return the existing equipment to us;
- In certain circumstances, customers may request and receive a shipping box with a pre-paid way bill to return unused equipment directly to us.

If customers have difficulty in determining which equipment return methods are available to them, Shaw's customer support team is always available to provide assistance.

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4.2 Collection Locations

Shaw operates a large number of retail locations in BC that accept returned equipment from our customers. These retail/collection sites were put in place to meet Shaw's goal to provide over 80% of our customers access to a Shaw retail/collection location within an hour's drive. Additional details for the collection sites are provided in Appendix B.

- Abbotsford
- Burnaby
- Langley
- North Vancouver
- Richmond
- Surrey (Guildford)
- Vancouver (Shaw Tower)
- Whistler
- Castlegar
- Chilliwack
- Cranbrook
- Grand Forks
- Kamloops
- Kelowna
- Prince George
- Salmon Arm
- Duncan
- Salt Spring
- Victoria
- Campbell River
- Courtenay/Comox
- Nanaimo
- Port Alberni
- Port Hardy

Related to the methods outlined above, Shaw has agreements with several 3rd parties including UPS to accept equipment returns on our behalf. These arrangements allow convenient drop-off locations in communities where Shaw may not have a retail presence and provides additional return options for customers in larger centres.

5. Product Environmental Impact Reduction, Reusability and Recyclability

Identify ways in which producers or the agency contributes to the reduction of environmental impact. For example, utilization of certified processors, R&D performed to improve recyclability / reuse of the product or components, examples of design for environment mechanisms used by producer members of the agency, reduction of greenhouse gas emissions. The producer may also wish to report on the status of any studies being undertaken to assist with the measurement of environmental impacts. Identifying successes is encouraged.

5.1 Environmental Management Framework

Shaw continues to develop our environmental program and building an environmental baseline. As part of our program, we have recently developed an Environmental Management Framework, which provides structure around water use and management; energy consumption and best practices; and waste reduction and recycling.

We continue to pursue sustainability interests that range from major projects to engaging our employees at the local level. This reflects our belief that real benefits in sustainability arise from the ongoing actions that we take in many parts of our business and the results we achieve.

We have won national awards for designing new and rehabilitating our existing buildings to the highest standards in green construction. The Shaw Tower in Vancouver is certified LEED Platinum, the highest certification level of the world-recognized Leadership in Energy and Environmental Design rating system. Shaw Tower is the third building in Canada to achieve this certification under its specific rating system, and the first one in Vancouver. As of its certification date, it is the highest-scoring LEED existing commercial building in Canada.

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In order to achieve this designation, we have installed low flow faucets, energy and water efficient appliances, highly efficient irrigation, and we have reduced potable water usage by 30 percent. Shaw Tower's recycling programs diverts over 100 metric tonnes of electronics, paper, plastic and glass from landfills every year.

5.2 Product Life Cycle Management

In addition to our process for the recovery and reuse, where possible, of equipment covered by our Stewardship Plan, Shaw recognizes other areas of the pollution prevention hierarchy where we can reduce the environmental impact of equipment we distribute in BC.

Although Shaw is not the manufacturer of the electronic equipment we distribute, we continue to work with our manufacturers and industry associations to reduce energy usage, and to minimize or eliminate toxic or hazardous materials contained in both the products themselves and their associated packaging. The majority of the products we distribute are RoHS compliant.

Further, Shaw's warehouses and distribution centres continue to undertake initiatives to reduce their impact on the environment. These initiatives include steps to minimize the transport of equipment and materials, to increase the volume of local equipment refurbishment and redeployment, and to responsibly manage other, non-electronic waste. Shaw is also a strong proponent of the use of renewable energy.

6. Pollution Prevention Hierarchy and Product / Component Management

Provide a brief overview of the way in which the collected product is managed and how those outcomes relate to the pollution prevention hierarchy. Provide breakdowns by weight or percentage of product managed at each level. Please also refer to "Third party assurance for non-financial information in annual reports 2018 reporting year" Appendix D: FAQs Section 7. (original version dated October 2018), distributed to stewardship programs by the Ministry.

Consistent with the pollution prevention hierarchy outlined in the regulations, Shaw performs a multiple-stage assessment of returned equipment to determine whether it can be reused or repaired:

- Equipment recovered in BC is first assessed to determine whether it can be reused or repaired locally. Reusable or locally repaired equipment is placed back within the local area's distribution stream. Equipment that can be reused or repaired, but not locally, is returned to one of Shaw's distribution centres in Alberta or Ontario.
- Recovered equipment received at our distribution centres is further assessed to determine whether the equipment can be reused, repaired or returned to the manufacturer under warranty. Reusable or repaired equipment is returned to Shaw's distribution stream for use in any of Shaw's service areas across Canada.
- Recovered equipment that is reusable or repaired, but is no longer part of Shaw's equipment portfolio in Canada, is assessed to determine if the equipment can be resold for use in other jurisdictions.
- Recovered equipment (in BC or at our distribution centres) that cannot be reused, repaired or resold is harvested for reusable components and the remaining portion sent to one of Shaw's authorized recycling partners for processing.

The determination of specific performance metrics related to our management of recovered equipment is challenging because only a portion of our equipment can be assessed locally, and equipment returned from BC to

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our distribution centres in Alberta and Ontario is pooled with equipment received from other operations across Canada.

For our annual report, we have gathered and are reporting information on the amount of covered equipment that was recycled in BC, and the amount of equipment that was returned to our distribution centres in Alberta and Ontario for further assessment. The remaining returned equipment in BC was either refurbished for re-use, or is awaiting assessment at one of our BC locations.

For the equipment returned to our distribution centres and pooled with returned equipment from other provinces, we have provided approximate percentages of this equipment that was sold to other jurisdictions (to non-Shaw operators) or recycled as unusable. The remaining percentage of returned equipment at our distribution centres was either refurbished for re-use, or is awaiting further assessment to determine its end fate.

For the period January 1, 2018 to December 31, 2018:

- Shaw recycled 66,053 kg (6%) of returned equipment in BC and shipped 546,196 kg (47%) of returned equipment to our distribution centres outside of BC for further assessment. The remaining amount of equipment returned in BC was either refurbished locally for reuse, or is awaiting assessment at one of our BC facilities.
- At Shaw's distribution centres, Shaw sold approximately 24% of total equipment recovered from across Canada to other jurisdictions and recycled another 4%. The remaining amount of equipment recovered at our distribution centres from across Canada was either refurbished for reuse, sent to the manufacturer for repair under warranty, or is awaiting further assessment.

7. Product Sold and Collected and Recovery Rate

Provide a summary of the total amount of product sold, collection volumes and, if applicable, recovery rates achieved by the program based on the approach included in the approved program plan. Also provide a summary of total product recovered by regional district.

7.1 Product Distributed

During 2018, Shaw distributed 1,125,530 kg of equipment in BC covered under our Stewardship Plan. Of this total, 451,783kg (40%) was new equipment and 673,747 kg (60%) was refurbished equipment that had been previously distributed, recovered and refurbished for reuse.

7.2 Product Recovered

During 2018, Shaw recovered 1,159,399 kg of equipment in BC covered under our Stewardship Plan. We have provided the breakdown of equipment recovered by regional district within BC below. The applicable regional district was determined based on the address of the collection location and/or warehouse recording the receipt of equipment. In the case of equipment mailed directly from a BC customer to a distribution centre outside of BC, we have classified the regional district as "Other".

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Recovered equipment by Regional District:

Regional District	Equipment Recovered (Kg)
Alberni-Clayoquot	1,876
Victoria	141,824
Cariboo	4,482
Central Kootenay	19,367
Central Okanagan	85,886
Columbia-Shuswap	479
Comox Valley	5,083
Cowichan Valley	7,239
East Kootenay	16,330
Fraser Valley	64,997
Fraser-Fort George	43,734
Greater/Metro Vancouver	594,712
Kootenay Boundary	26
Nanaimo	110,268
North Okanagan	21,833
Okanagan-Similkameen	6,717
Peace River	2,009
Powell River	2,044
Squamish-Lillooet	6,047
Strathcona	77
Thompson-Nicola	16,468
Other – Recovered outside of BC ¹	7,901
TOTAL	1,159,399

7.3 Recovery Rate

The primary measure that Shaw uses to evaluate the performance of our Stewardship Plan is our equipment recovery rate. When we developed our Stewardship Plan, we planned to calculate our recovery rate based on the percentage of out-of-service equipment recovered by Shaw, with out-of-service equipment defined as equipment no longer in use by the customer but not returned to our National Distribution Centre (“NDC”).

Since we implemented our Stewardship Plan in 2012, and with the expansion of local redeployment of equipment outside of our National Distribution Centre in Calgary, it became evident that our planned calculation approach would not provide a useful view of plan performance comparable from year to year. Accordingly, we developed an alternate approach for determining our equipment recovery rate which has been used in our annual reports under the Stewardship Plan.

This alternate measure is calculated based on the amount of equipment that is returned to Shaw in BC divided by the amount of equipment distributed in BC during the reporting period. The amount of equipment is measured and reported by weight due to the ranges of size and composition of the various pieces of covered equipment, and

¹ As noted in our report, certain equipment is shipped directly from a consumer to our distribution centres located in Alberta or Ontario

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because we believe this most accurately reflects the performance of our Stewardship Plan in diverting materials from landfill for any given year.

Based on our alternate measure, as described above, our 2018 recovery rate was 101%.

The 2018 recovery was higher than our 2017 recovery rate of 89%.

In 2018 recovery rate exceeds our annual target rate of 75%. On a unit for unit basis, we recovered approximately 101% of the equipment distributed during the year.

8. Summary of Deposits, Refunds, Revenues and Expenditures

For those programs that charge deposits only:

Include a summary of deposits received and refunds paid in British Columbia by the producers (by plan if agency manages more than one plan). Attach a copy of the current year's independently audited financial statements as an appendix.

N/A – Our program does not charge deposits.

For those programs that charge a visible eco-fee only:

Include a summary of fees / rates charged by the agency and provide a summary of total revenues and expenses in British Columbia (by plan if agency manages more than one plan). Attach a copy of the current year's independently audited financial statements as an appendix.

N/A – Our program does not charge a visible eco-fee. All costs related to our Stewardship Plan are borne by Shaw.

9. Plan Performance

Using the table below, provide a brief overview of the performance of the plan for the current year compared to the stated performance requirements and targets specified in the approved plan. If no specific targets have been set (e.g. new plans in first year of operation), specify baseline results, significant achievements and identify when targets will be set.

Plan Target	2018 Results	Strategies for Improvement
Collection Rate (kg collected) (2018 Target: not specified)	1,159,399 kg collected, representing 101% of total equipment distributed during the year	
Consumer Awareness (2018 Target: 35% of consumers aware of return channels and using them)	Not measured. As described in Section 3 above, we are in direct contact with our customers in most situations involving an upgrade of equipment or discontinuation of service.	N/A – our current processes provide near 100% consumer awareness.
Collection System and Accessibility		
Number of retail outlets for product return (2018 Target: Not Specified)	24 Shaw-operated collection locations	N/A
Mail in Option (2018 Target: Entire province)	Entire province	N/A – target achieved

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Plan Target	2018 Results	Strategies for Improvement
Pollution Prevention Hierarchy		
Equipment Re-deployed from NDC (2018 Target: not specified)	As described in Section 6 above, refurbishment is now performed both locally at BC locations as well as from our distribution centres: <ul style="list-style-type: none"> • Redeployment within BC: 47% • Redeployment from DC's: 72%² 	
Equipment Resold via Third Party (2018 Target: not specified)	Equipment resold from DC's: 24% ²	
Equipment Broken Down and/or Recycled (2018 Target: not specified)	As described in Section 6 above, recycling is now performed both locally at BC locations as well as from our distribution centres: <ul style="list-style-type: none"> • Recycled within BC: 6% • Recycled from DC's: 4%² 	

Appendices / Additional Information and Third Party Assurance

- Appendix A – Shaw Website Information: Green Initiatives
- Appendix B – BC Equipment Drop Off Locations
- Third Party Assurance Statement for Non-Financial Information

² As noted in Section 6, equipment returned to our distribution centres are pooled with returns from all provinces. As such, these measures represent the percentage of the total pooled returns that were redeployed (or are awaiting assessment), resold or recycled.

Appendix A – Shaw Website Information: Green Initiatives

<https://www.shaw.ca/Corporate/About-Shaw/Green-Initiatives/>

Shaw keeps getting greener

Our home is Canada. Keeping our country beautiful by making smarter environmental choices is just one way we're reducing our overall ecological impact.

Building our environmental management framework



Energy

Shaw is one of Canada's largest users of Bullfrog Power; 100% renewable wind power energy. Our introduction of route optimization software for our fleet vehicles has resulted in a reduction of at least 25% in distance travelled per service order, which in turn has helped to reduce fuel consumption and greenhouse gas emissions. In our Shaw facilities and data centres, we've installed high efficiency mechanical equipment to reduce power consumption. We have upgraded much of our lighting equipment across Canada, including the installation of occupancy sensors and lights that dim when the building receives more sunlight.



Waste

The National Distribution Centre (NDC) is at the forefront of our waste reduction initiatives. Each year, almost 1.5 million lbs of material is redirected from landfills for recycling or reuse by the NDC.

We've redesigned our equipment packaging in an effort to reduce the cardboard content by up to 40%.

Planning for electronic stewardship is a key step in our waste management activities. [Shaw's Electronic Stewardship Plan \(April, 2012\)](#)

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Water

We have installed building facility upgrades and retrofits to reduce water consumption. Site management practices to control and monitor water use are in place and being tested. We are tracking and monitoring the water usage at our largest facilities across Canada to aid us in the continuous improvement of our water use efficiency.



Green Building Certification

- Shaw Tower (Vancouver) – LEED Platinum for Existing Buildings: Operations and Maintenance (Attained in 2013) BOMA BEST® level 4 certification (Attained in 2009)
- 3636 Campus (Calgary) – LEED Silver for Commercial Interiors (Attained in 2012)
- Shaw Barlow (Calgary) – BOMA BEST® level 3 certification (Attained in 2011)
- Shaw Conference Centre (Edmonton) - BOMA BEST® level 2 certification (Attained in 2013)



What can you do?

Go paperless, sign up for eBill

For your convenience, Shaw offers many simple and secure ways to pay your bill, including the option of switching from your monthly paper bill to eBill. With Shaw eBill, your monthly bills are delivered right to your email inbox, how you pay is up to you. Switching to Shaw eBill is fast, convenient and great for the environment.

[Sign up for eBill today](#)

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Recycle your used Shaw equipment

Help Shaw continue to reduce our environmental footprint. Simply drop off your used Shaw electronics for recycling at any Shaw retail location. Any electronics issued for use with Shaw services can be returned: modems, routers, television set-top boxes, PVRs, remotes, satellite receivers, and batteries used in these devices.

[Find a Shaw retail location near you.](#)

[Contact Shaw's customer support team for more information.](#)

Share your environmental ideas with Shaw at environment@sjrb.ca

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Appendix B – BC Equipment Drop Off Locations

Shaw-operated BC Equipment Drop Off Locations			
Location	Address	Location	Address
Abbotsford	Seven Oaks Centre, 32900 South Fraser Way V2S 5A1	Kamloops	Northhills Shopping Ctr. Unit 23-700 Tranquille Rd V2B 3J2
Burnaby	Metropolis at Metrotown 4700 Kingsway V5H 4M1	Kelowna	Shaw Office 2350 Hunter Rd V1X 7H6
Langley	Willowbrook Shopping Centre 19705 Fraser Highway V3A 7E9	Prince George	Shaw Office 2519 Queensway St V2L 1N1
North Vancouver	1471 Pemberton Ave North V7P 2R9	Salmon Arm	10 Harbourfront Dr NE V1E 2A6
Richmond	Richmond Centre (Shaw Store) 6060 Minorou Blvd V6Y 2V7	Duncan	35 Queens Rd V9L 2W1
Surrey	Guildford Town Centre (Shaw Store) 10355 152nd St V3R 7C1	Salt Spring	316 Lower Ganges Rd V8K 2V3
Vancouver	Shaw Tower (Coal Harbour) 1067 West Cordova St V6C 3T5	Victoria	Uptown Centre (Shaw Store) 101, 3551 Blanshard St V8Z 0B9
Whistler	4368 Main St, Suite #214 V0N 1B4	Campbell River	500 Robron Road V9W 5Z2
Castlegar	Shaw Office 1951 Columbia Ave V1N 2W7	Courtenay/ Comox	1591 McPhee Ave V9N 3A5
Chilliwack	Shaw Office #111 3-44981 Commercial Crt V2R 0A7	Nanaimo	4316 Boban Dr V9T 6A7
Cranbrook	Shaw Office 720 Kootenay St V1C 1H2	Port Alberni	4278 8th Ave V9Y 7S8
Grand Forks	Shaw Office 7474 19th St V0H 1H2	Port Hardy	Shaw Office 7020 Market ST V0N 2P0

Non-Financial Audit of BC Recycling Regulation

SHAW COMMUNICATIONS INC.

December 31, 2018



Ernst & Young LLP
2200 215 2nd Street SW
Calgary, AB
T2P 1M4

Tel: +1 403 290 4100
Fax: +1 403 290 4265
ey.com/ca

2018 Independent Reasonable Assurance Report for Selected Non-Financial Information

To the Management of Shaw Communications:

We have been engaged by Shaw Communications Inc. (the “Company”) to perform a reasonable assurance engagement in respect of the following information, detailed within the Company’s Annual Report to the Director, Extended Producer Responsibility Programs for the year ending December 31, 2018 (together, the “Subject Matter” or the “Annual Report”):

- 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 B.C. Regulation 449/2004 (the Recycling Regulation);
- The description of how the recovered product was managed in accordance with the pollution prevention hierarchy in accordance with Section 8(2)(d) of the Recycling Regulation;
- The total amount of the producer’s product sold and collected and recovery rate in accordance with Section 8(2)(e) of the Recycling Regulation; and
- Performance for the year in relation to approved targets under Section 8(2), (b), (d) and (e) in accordance with Section 8(2)(g) of the Recycling Regulation.

Responsibilities

The Subject Matter is the responsibility of Shaw Communications’ management who have prepared the Subject Matter in accordance with the evaluation criteria which are an integral part of the Subject Matter. Our responsibility is to express an opinion on this Subject Matter based on our audit. Our audit does not constitute a legal determination on the Corporation’s compliance with the Recycling Regulation.

Assurance Standard and Professional Requirements

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

Applicable 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 Subject Matter and address the relevance, completeness, reliability, neutrality and understandability of the Subject Matter.

Summary of Work Performed

An audit includes examining, on a test basis, evidence supporting the amounts and disclosures within the Subject Matter. An audit also includes assessing the evaluation criteria used and significant estimates made by management, as well as evaluating the overall presentation of the Subject Matter. The main elements of our work were:

- Confirming the existence of collection facilities and their understanding of the program through a combination of internet research and telephone inquiry;
- Checking the units of product sold during the period and agreeing to supporting documentation on a test basis;
- Checking the units of product collected during the period by agreeing to supporting documentation on a test basis;
- Re-performing conversion calculations on a test basis; and
- Ensuring wording of annual report is reflective of audit findings.

Conclusion

In our opinion, the Subject Matter within the Annual Report for the period ended December 31, 2018 is presented fairly in accordance with the evaluation criteria, in all material respects:

- The location of collection facilities in accordance with Section 8(2)(b) of the Recycling Regulation;
- The description of how the recovered product was managed in accordance with the pollution prevention hierarchy under Section 8(2)(d) of the Recycling Regulation;
- The description of how total amounts of the Company's product sold and collected and the Company's recovery rate has been calculated in accordance with Section 8(2)(e); and,
- The description of performance for the period in relation to targets in the approved stewardship plan under Section 8(2) (b), (d) and (e) of the Recycling Regulation.

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 Shaw Communications, and accordingly, we do not accept any responsibility for loss occasioned to any other party acting or refraining from acting based on this report.

Ernst & Young LLP

Calgary, Alberta
June 26, 2019

Chartered Accountants

Appendix 1 – Identification of Applicable Criteria

1. Collection Facilities

Section 8(2)(b) of the Recycling Regulation – the location of collection facilities, and any changes in the number and location of collection facilities from the previous report.

Disclosure per annual report	Reference
<i>4. Collection System and Facilities</i>	<i>Page 6</i>
<i>Appendix B – BC Equipment Drop-off Locations</i>	<i>Page 16</i>

Applicable Criteria

The following evaluation criteria were applied to the assessment of the location of collection facilities, in accordance with Section 8(2)(b) of the Recycling Regulation:

- The Company operates and maintains records for all collection facilities including the location and total product quantity received which agrees to the number of collection facilities and aggregate weights as disclosed in the annual report.
- The definition of a collection facility as disclosed in the Annual Report is accurate.

2. Pollution Prevention Hierarchy

Section 8(2)(d) of the Recycling Regulation – the description of how the recovered product was managed in accordance with the pollution prevention hierarchy.

Disclosure per annual report	Reference
<i>6. Pollution Prevention Hierarchy and Product/Component Management</i>	<i>Page 8</i>

Applicable Criteria

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

- The Company maintains processes that are consistent with the intent and requirements of the Pollution Prevention Hierarchy by eliminating the use of toxic components, promoting reusability and recyclability, ensuring that best efforts are made to reuse materials and, if applicable, disposing of any remaining waste compliance with the Act.

3. Product Sold, Collected and Recovery Rate

Section 8(2)(e) of the Recycling Regulation – the total amounts of the producer's product sold and collected and the producer's recovery rate.

Disclosure per annual report	Reference
<i>7. Product Sold and Collected and Recovery Rate</i>	<i>Page 9</i>

Applicable Criteria

The following evaluation criteria were applied to the assessment of the description of how total amounts of the Company's product sold and collected and, if applicable, the Company's recovery rate has been calculated in accordance with Section 8(2)(e); and,

- The units of received, recovered and distributed product have been recalculated using the data included in audit work performed in connection with the Company's audited financial statements.
- The Company maintains a listing of all product collected by product type and manufacturer.
- Total units and weights evaluated agreed with values disclosed in the Annual Report.
- Incremental unit weight as used in total weight calculations by the Company was confirmed on a test basis.

4. Performance in relation to Targets in the Approved EPR Plan and the Recycling Regulation

Section 8(2)(g) of the Recycling Regulation - performance for the year in relation to targets in the approved EPR plan that relate to Section 8(2)(b), (d) and (e).

Disclosure per annual report	Reference
<i>9. Plan Performance</i>	<i>Page 11</i>

Applicable Criteria

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

- Equipment recovery targets as outlined in the Company's electronic equipment stewardship plan relating to Section 8(2) (b), (d) and (e) have been identified and disclosed in the Annual Report.
- Target dates, goals and plans outlined in the stewardship plan are consistent with the targets in the Annual Report.
- Progress updates as outlined in the Annual Report are supported by communications and evidence.