# Call2Recycle Annual Report

2014 Calendar Year

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## 1. Executive Summary

Since 1997, Call2Recycle has collected and recycled rechargeable batteries from consumers across Alberta. In 2012, Call2Recycle expanded its service in the province to an all-battery recycling program that collects any dry-cell batteries weighing less than five kilograms from consumers through a range of participant organizations.

This year was one of significant growth for Call2Recycle's battery collection activities in Alberta. Call2Recycle exceeded the previous year's performance by 41% and diverted more than 138,500 kilograms of household batteries from landfills. The program also reclaimed 15% and 73% more precious metals from rechargeable and single-use batteries respectively. Through online and national promotions, we also continued to raise the profile of battery recycling as a key part of responsible environmental management.

This report documents Call2Recycle's collection and waste management of primary and rechargeable batteries in Alberta between January 1, 2014 and December 31, 2014

# 2. About Call2Recycle Canada

Call2Recycle Canada, Inc. is the Canadian arm of North America's first and largest battery stewardship program. Our program was established to fulfill the product stewardship obligations of battery manufacturers, manufacturers whose products contain batteries, and certain distributors and retailers of products as may be appropriate. Today, Call2Recycle works on behalf of more than 200 battery and product manufacturers (See Appendix A).

Since 1997, Call2Recycle Canada has operated a best-in-class battery collection and recycling program. We collect and recycle batteries and cellphones from municipalities, businesses and consumers at no cost to them, and we promote environmental sustainability across North America. Our commitment is that 100% of batteries collected through our program are diverted from landfill.

Our network of more than 7,900 collection locations across Canada ensures convenience and efficiency. Call2Recycle's easy drop, seal and ship collection process makes recycling batteries as simple as possible for both consumers and program participants so that anyone can be a partner in environmental stewardship. Call2Recycle was the first program of its kind to receive Responsible Recycling Practices Standard (R2) certification, which recognizes that our program has met stringent environmental, public, and worker health and safety requirements.

# 3. Call2Recycle in Alberta

Call2Recycle has operated in Alberta since 1997. Our program initially collected rechargeable batteries in the province, but expanded to all-battery collection in 2012.

Call2Recycle's consumer battery collections principally come from drop-off boxes that are strategically located to maximize convenience and usage. These include public sites, which are accessible to everyone, and private sites, which are generally located in organizations and only accessible to the organization's staff and visitors. Factors such as population, proximity to consumers, ease of access, and the likelihood that consumers will associate batteries or recycling with the location (e.g. an electronics store or recycling depot) are some of the criteria we consider when selecting a Call2Recycle collection site.

In 2014, there were 669 active Call2Recycle collection locations across Alberta—a 29% increase over the 517 collection sites operating in 2013. Active sites are defined as those that shipped at least one box of batteries within the past 12 months, or that enrolled in the program during the past 365 days regardless of whether or not they have sent in a full box of collected batteries.

The following charts illustrate the division of public and private collection locations in Alberta in 2014 and 2013, and their division across sectors.

2014 Public and Private Collection Sites								
	2014	2013	Change					
Public	267	242	<b>1</b> 0%					
Private	402	255	↑58%					
Total	669	517	<b>↑29</b> %					

2014 Active Collection Sites by Sector									
Sector	2014	2013	# Increase/	% Increase/					
			Decrease	Decrease					
Business Services	243	184	59	个32%					
Environmental	36	13	23	个177%					
Government	85	58	27	<b>↑</b> 47%					
Manufacturing	54	32	22	<b>↑</b> 69%					
Retail	245	230	15	<b>↑</b> 7%					
Other	6	0	6	1					
Grand Total	669	517	152	个29%					

The Call2Recycle program is clearly robust across Alberta, with exceptional growth and active participation from collection sites in various sectors. As further evidence of this, nine Alberta-based organizations were recognized this year with Call2Recycle's Leader in Sustainability Award. The award, now in its fourth year, honours participants that promote recycling activities to their stakeholders and achieve significant battery collection returns.

Hi-Tech Recyclers was recognized for the first time this year, joining eight other repeat winners of this

# 2014 Leader in Sustainability Award Winners from Alberta

- Aquaterra
- ATCO Gas
- Canadian Energy and Power
- City of Edmonton
- Edson & District Recycling Depot
- Hi-Tech Recyclers
- Recycle Logic
- Shaw
- Town of Cochrane

prestigious award. Winners receive a plaque and have opportunities to leverage Call2Recycle's promotion of the award with their own internal and external promotion efforts. It is also a convenient springboard to encourage increased recycling efforts.

## 4. 2014 Battery Collections

In 2014, Call2Recycle battery collections in Alberta grew significantly for both primary (single-use) and rechargeable batteries. More than 138,000 kg of batteries were collected, representing a tremendous 47% increase over the previous year. The following chart illustrates battery collections in the province in 2014.

Call2Recycle Collections by Weight (Kg*)								
Туре	2014 Collections	2013 Collections	% Change					
Primary (Single Use)	89,361	51,515	<b>↑</b> 73%					
Rechargeable	49,158	42,662	<b>个</b> 15%					
Total	138,519	94,177	个47%					

<sup>\*</sup>Call2Recycle records battery weight in pounds. Conversion to kilograms is based on a rate of 0.453592. Accurate within a margin of  $\pm$  2%.

Four metals/metal compounds are extracted from rechargeable batteries. In 2014, we saw a 15% overall increase in the metals collected. Lead and Lithium-ion batteries—commonly used in transportation and electronics respectively—accounted for this change, with significant increases in deposits of both. Studies have revealed that production of the other two battery types—Nickel-Cadmium and Nickel-Metal-Hydride—has declined in recent years in favour of Li-ion batteries. Fewer deposits of NiCd and NiMH batteries likely reflects this production trend. The following charts summarize the province's battery collections by chemistry (in kilograms) this year:

Rechargeable Battery Collection by Chemistry (Kg*)									
Material Name	2014	Change	2013						
Ni-Cd	13,059	<b>√</b> 24%	17,031						
Ni-Mh	4,362	<b>√</b> 5%	4,607						
Li-lon	22,189	<b>↑</b> 42%	15,678						
SSLA	9,547	<b>↑</b> 79%	5,346						
Rechargeable Chemistry Total	49,158*	<b>↑15</b> %	42,662						

<sup>\*</sup>Call2Recycle records battery weight in pounds. Conversion to kilograms is based on a rate of 0.453592. Accurate within a margin of  $\pm$  2%.

Primary (Single Use) Battery Collection by Chemistry (Kg*)									
Material Name	2014	2013	% Change						
Alkaline	86,999	50,115	74%						
Lithium	2,363	1,400	69%						
Total	89,361*	51,515	73%						

<sup>\*</sup> Accurate within a margin of +/- 2%. Based on a conversion rate from pounds to kilograms of 0.453592.

# 5. Process and Product/Component Management

In June 2014, Call2Recycle attained the R2:2013—the newest certification of the Responsible Recycling Practices Standard. This is the highest achievable standard for recycling organizations and indicates that the certificate holder has met stringent requirements in areas of environmental, public and worker health and safety. Our certified battery recycling process is outlined below.

#### Collection

The Call2Recycle program process starts by providing consumers with easy access to collection sites to enable maximum participation in the program. Through collection partners across the province and in a range of sectors, we offer consumers convenience and a simple drop-off process. Our collection partners use one of two collection methods: the box program or the bulk program. Box program sites receive Call2Recycle's bag-and-drop, seal-and-ship collection boxes free of charge. Each box holds up to 30 kilograms of batteries. Our bulk program caters to facilities that generate large quantities of batteries for recycling (250 kg minimum per shipment). Call2Recycle covers the cost of shipping for both the bulk and box programs.

#### **Shipping and Sorting**

Batteries and cellphones collected through Call2Recycle in Alberta are sorted and consolidated by Terrapure in Fort Erie, Ontario. At the facility, the contents are weighed and sorted according to battery chemistry, and readied for shipping to appropriate recycling processors based on their chemical composition.

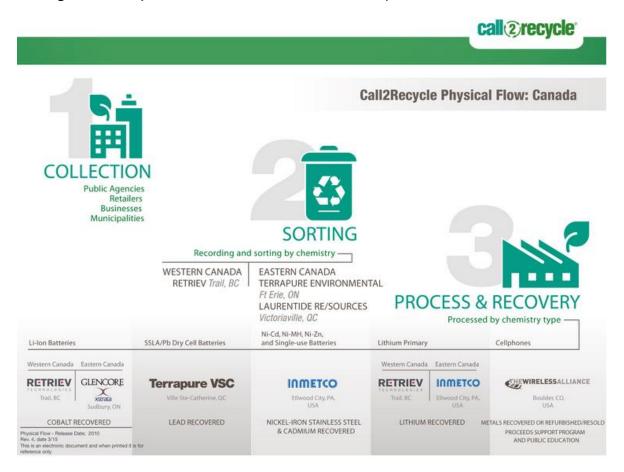
Call2Recycle operates in accordance with intra- and inter-provincial shipping and transportation

standards established by Transport Canada, Environment Canada, the Alberta Ministry of Environment and Sustainable Resource Development, and all other provincial environment and transportation ministry approvals. All shipments transported internationally are manifested according to Environment Canada, Transport Canada, the US Environmental Protection Agency and the US Department of Transportation.

#### **Processing**

Call2Recycle Canada is committed to meeting the highest global standards for safe and effective battery processing. All of a battery's constituent parts are reclaimed and 100% of Call2Recycle collections are diverted from the waste stream.

Different battery chemistries require different reclamation methods, and Call2Recycle has partnerships with various processors to ensure optimal performance. We seek local processing partners wherever possible to reduce our transportation footprint. All of our processing facilities use the latest and proven-effective thermal, mechanical and chemical processes to recover materials such as nickel, iron, lead, cadmium, and cobalt. These are either returned to rechargeable battery manufacturers or used to make other products.



The following chart shows the recovery rates of processors used by the Call2Recycle program.

Recycling Efficiency Rates								
	Recharge	able Battery Cl	Primary Chemistry					
Battery Type	NI-CD	LI-ION	NI-MH	SSLA	ALKALINE	LITHIUM		
Processor	Inmetco	Glencore Inmetco Terrapure Xstrata VSC		-	Inmetco	Inmetco		
% Material Recovered*								
To Metals	50%	27%	57%	72%	21%	o to 50%		
To co-product, aggregate	2%	0%	14%	0%	1%	37%		
To Cadmium	12%	0%	0%	0%	0%	0%		
To Secondary Recovery**	4%	0%	5%	0%	57%	2%		
Plastic Recovery or Reductant	12%	44%	10%	9%	5%	2%		
Total Recovery, %	80%	71%	86%	81%	84%	83 to 91%		

<sup>\*</sup> Recovery rates provided by processor.

In 2014, Call2Recycle engaged RWDI Consulting Engineers and Scientists, a third-party research company, to examine the primary battery recycling processes of our processing partners and verify the accuracy of our efficiency rates. RWDI's engineers also did a broader review of treatment processes that are commercially available in the Western world for alkaline battery recycling. Its study confirmed our recycling efficiency rates for alkaline batteries at 83.7%, a figure that aligns with industry standards.

<sup>\*\*</sup> This includes metals that are recovered at secondary processors.

## 6. Summary

Call2Recycle's collections in Alberta were robust in 2014. The program experienced a 41% increase in battery and cellphone deposits over the previous year. As a result, more than 138,500 kg of used batteries were diverted from the waste stream. Recycled primary (single-use) batteries drove this overall increase, with a growth of 73%.

Nine Alberta-based organizations were recognized by Call2Recycle in 2014 for their outstanding collection results and commitment to sharing the message of sustainability. For their efforts, they won the Leader in Sustainability Award.

Over the next year, Call2Recycle will continue to promote responsible battery management in Alberta. We will work with existing participant organizations to encourage increased deposits, while strategically seeking involvement by more organizations to offer greater convenience to consumers. In addition, we remain committed to working with the provincial government to help it achieve its recycling and sustainability goals and support all Albertans to be environmentally responsible.

## Appendix A - Call2Recycle Battery Stewards

# RECHARGEABLE BATTERY STEWARDS (LICENSEES) OF THE CALL2RECYCLE PROGRAM – As of March 31, 2015

3M Company - OH&ESD ACCO BRANDS CORPORATION Acer America Corporation Advanced Battery Systems, Inc. Advanced Electronics Energy AEG Electric Tools GmbH Agilent Technologies

Alexander Technologies Europe

Allied Intl/Allied Tools Alltrade Tools LLC Alpha Source, Inc.

American Lawn Mower Co American Toppower Anton/Bauer

Anton/Bauer
Apple, Inc
Applied Power Inc

Aved Electronics
Axiom Mobile Group
Battery Specialties
BAYCO PRODUCTS
Bissell Homecare, Inc
Black & Decker Corporation

Blount Inc. BMR

**AVAYA** 

Bosch eBike Systems
Bose Corporation
BRAUN/P&G/GILLETTE
Brother International

Bushnell, Inc.

 $\mathsf{BYD}$ 

Canadian Tire Corporation, Ltd

Canon Canada Inc Canon USA Inc

Capstone Industries, Inc. Car-Go Battery Company Casio America, Inc.

Cell-Con Inc

Century Optronic Inc.

Changzhou Globe Tools Co. Ltd. Chenzhou Grand-Pro Tech Co.,Ltd.

Chervon Limited China Effort Ltd. Cisco Systems Inc. Clean Republic SODO, LLC

Cleva North America /LawnMaster

Columbia Sportswear Company

**Conair Corporation** 

Concept Green Energy Solutions, Inc. DANTONA INDUSTRIES/ULTRALAST

Dell Inc

Digi-Key Corporation

DLG Power Battery (Shanghai) Co.,LTD

Douglas Quikut
Duracell/Div of P&G
Duracell/P & G Canada
Echo Incorporated
Enerco Group Inc.
Energizer Canada Inc

**Energy Sales** 

EnerSys Delaware Inc.
Epson America, Inc.
ESI Cases & Accessories
Esselte Corporation
ETICA Battery Inc.
Eveready (Energizer)
Evergreen (C.P.) USA Inc
Excell Battery Company (W)
EZSmart Gutter Cleaner, LLC

**FDK AMERICA** 

Fedco Electronics, Inc.

FESTOOL/TOOLTECHNIC SYSTEMS

Finish Thompson, Inc.

Flying Dragon Development Ltd.

Freight Security Net

FujiFilm Holdings America Corp

Fujitsu America Funai Corporation Inc Furukawa Battery Co Ltd Garmin International, Inc GE Healthcare Canada, Inc. General Dynamics Itronix Corp

Getac Inc.

GIANT TIGER STORES LIMITED GiiNii Tech Corporation

GLJ LLC/O2 Cool

Global Technology Systems, Inc Gold Peak Ind (Malaysia) Gold Peak Industries (NA), Inc GP BATTERY MARKETING, INC

GRACO, Inc. Greatbatch Inc

#### Call2Recycle 2013 Annual Report to Ministry of Environment of British Columbia

GREEN SMOKE INC GS Battery (USA) Inc. Hewlett-Packard Company Hilti (Canada) Corporation

Hilti. Inc.

HITACHI KOKI CANADA CO Hitachi Koki USA Ltd HOBBICO, Inc HoMedics

**House of Batteries** 

HTC (High Tech Computer)

Icom America Inc

**IDX System Technology Inc** 

Illinois Tool Works

Industrial Battery Service Inc INSPIRED ENERGY LLC Intec Industries Co. Ltd. Intermetro Industries Corp Invox Hardware Limited

iottie iRobot Corp. iTech ITO Co., Ltd.

Jasco Products Company

Jiangmen TWD Technology Co, LTD Jiawei Technologies (USA) Ltd.

JLG Industries Inc JVC Americas Corp KAN Battery Co., LTD Karcher North America Kenwood USA Corp Keysight Technologies

Kwonnie Electrical Products, LTD

Laird Technologies, Inc. LE GROUPE JEAN COUTU, INC Lenmar Enterprises, Inc.

Lenovo

LEXEL BATTERY CO LTD

LG Electronics MobileComm USA L'Image Home Products Inc.

LOBLAW, INC LOGITECH INC. Mag Instrument, Inc MAKITA CANADA INC

Makita USA

Malco Products, Inc.

Mattel, Inc. MAX Co., Ltd

Maxell Corporation of America McNair Technology Co., LTD Measurement Ltd Inc Meritool LLC Microsoft Miller Mfg Co

MILWAUKEE ELECTRIC TOOL CORP

Motorola Solutions, Inc

myCharge

NATIONAL CUSTOM ENTERPRISES

National Power Corp

NEC CASIO Mobile Communication Neptune Technology Group Inc.

Netgear, Inc. Nexergy, Inc. Nikon Canada Inc Nokia Inc

Normark Innovtions Inc. Novatel Wireless Inc

NU MARK LLC

Nylube Products Company LLC Olympus Corp of the Americas

OnLive, Inc. OOMA INC Optex, Inc. Oracle

Palladium Energy
Panasonic Canada Inc
Panasonic Corporation
Pantech Co Ltd

Pelican Products

Personal Communication Devices PHILIPS CONSUMER Lifestyle

Physio-Control Corp. Polycom, Inc.

Positec Tool Corporation

POWER PRODUCTS

Progressive Technologies, Inc

Quality One Wireless Quantum Instruments, Inc. Quickie Manufacturing Corp

RECKITT BENCKISER RESEARCH IN MOTION

**RESISTACAP** 

Richpower Industries, Inc. Ricoh Americas Corp.

Ridge Tool Company (RIDGID)

RKI Instrument, Inc

**Robert Bosch Tool Corporation** 

Royal Consumer Information Products, Inc.

RRC POWER SOLUTIONS

Saft America Inc. Samsung Electronics Co SANYO Energy (USA) Corp.

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Sato America Inc Scosche Industries Scott's Canada LTD Sensidyne LP

SHARP ELECTRONICS OF CANADA

Shenzhen FBtech Co., Ltd. Shenzhen Highpower Technology SHOPPERS DRUG MART INC.

Sigma Corporation

Sinopower Technology (HK) Ltd

Sirius XM Radio Inc SmartPool, LLC Snap-on Incorporated Sony Electronics, Inc Sony of Canada LTD Southern Telecom, Inc.

SOUTHWICK TECHNOLOGIES INC

SPECTRUM BRANDS

SRAM, LLC

Stanley Hand Tools
STIHL INCORPORATED
STIHL LIMITED (CANADA)

StorTronics
Strand Europe Ltd
Streamlight, Inc.
Stryker Medical
SUNBEAM PRODUCTS

Surefire, LLC Swissvoice S.A.

Technical Power Systems Inc. Techtronic Industries Co Ltd

**TERRALUX INC** 

Test Rite Products Corp Texas Instruments Inc The Coleman Company

THE SOURCE

THE SOURCE (BELL ELECTRONICS)

The Toro Company
TNR TECHNICAL
TOCAD AMERICA
TOSHIBA AMERICA
Toshiba of Canada Limited

Toys R Us Canada, LTD

Traxxas L.P.

Trek Bicycle Corporation

Triple C Designs
TTEK ASSEMBLIES INC
Tyco Healthcare LP
ULTRALIFE CORPORATION
Uniden America Corporation
UNITECH BATTERY LIMITED
Universal Power Group
VARTA Microbattery Inc.
Venom Group International
Vernier Software & Technology

Vibratex, Inc. Vizio Inc.

VTech Telecommunications Ltd WACOM TECHNOLOGY CORP

Wahl Clipper Corp
WALMART CANADA Corp

WATER PIK, INC. Waveblade, Inc.

WINTONIC BATTERY & MAGNET CO.,

**WOHLER USA** 

Xplore Technologies Corp. Yiyang Corun Battery Co Ltd

Zhejiang Tianneng Energy Technology Co., Ltd. Zhejiang Tianneng Tech LTD Co., Energy

Zippo Manufacturing Company

# **Appendix B: Audited Financial Statements**

#### CALL2RECYCLE, INC., SUBSIDIARY AND AFFILIATE

Condensed 2014 and 2013 Consolidated and Combined Financial Statements

Condensed, Consolidated and Combined Statements of Financial Position Reported in U.S. Dollars

		2014				2013		
	92		(\$'000)	)			(\$'	000)
December 31,		ecycle, Inc. Subsidiary	Call2Re Canada		Comi	oined	Coml	bined
ASSETS:			21			550000	20	
Cash and cash equivalents	S	433	\$	479	\$	912	\$	162
Receivables, no allowance deemed necessary		3,091		1,017		4,108		3,785
Due from (to) affiliate		556		(556)				3
Prepaid expense and other assets		504		52		556		526
Long-term investments		23,612		1/3		23,612		25,480
Net property and equipment		211		16		227		224
Total Assets	\$	28,407	3	1,008	2	9,415	\$3	0,177
LIABILITIES and NET ASSETS								
Accounts payable and accrued expenses		\$ 962		\$ 790	5	1,752	9	1,749
Unearned revenue		6,367		35	11	6,367	***	7,056
Total liabilities	#0. E0	7,329		\$ 790		8,119		8,805
Unrestricted net assets								
Undesignated		21,078		235	3	21,313		21,313
Board designated				215		215		233
Cumulative translation adjustment				(232)		(232)		(174)
Total net assets	33	21,078		218	3	21,296		21,372
Total liabilities and net assets	\$	28,407	1	1,008	2	9,415	3	0,177

#### INDEPENDENT AUDITOR'S REPORT

Board of Directors

Call2Recylce, Inc., Subsidiary and Affiliate

We have audited, in accordance with auditing standards generally accepted in the United States of America, the consolidated and combined statement of financial position of the Call2Recycle, Inc., Subsidiary and Affiliate (non-profit organizations) as of December 31, 2014 and 2013, and the related consolidated and combined statements of activities, changes in net assets, and cash flows for the years then ended (not presented herein); and in our report dated April 21, 2015, we expressed an unqualified opinion on those consolidated and combined statements.

In our opinion, the information set forth in the accompanying condensed consolidated and combined financial statements is fairly stated, in all material respects, in relation to the consolidated and combined financial statements from which it has been derived.

SMITH & HOWARD

April 21, 2015

Smith + Howard

#### CALL2RECYCLE, INC AND AFFILIATE

Condensed 2014 and 2013 Consolidated and Combined Financial Statements

Condensed Consolidated and Combined Statements of Activities and Changes in Net Assets Reported in U.S. Dollars

		2013			
			(\$'000)		(\$'000)
December 31,		ecycle, Inc. Subsidiary	Call2Recycle Canada, Inc.	Combined	Combined
OPERATING ACTIVITIES: Revenue					
License fees	S	7,810	\$	\$ 7,810	\$ 9,251
Primary battery collection program fees			6,551	6,551	5,567
Recovered metals proceeds, net		1,535	296	1,831	1,854
Other	% <u></u>	982		982	340
Total Revenues	\$	10,327	6,847	17,174	17,012
Expenses:	VS.				
Program expenses				275000CAX	15.000 (1000)
Collection and recycling		6,613	5,213	11,826	11,450
Public education		1,621	370	1,991	1,778
Seal administration	188	242	1237	242	222
Total program expenses		8,476	5,583	14,059	13,450
Management and general expenses		2,275	1,566	3,841	3,512
Total Expenses	\$	10,751	7,149	17,900	16,962
Increase (decrease) in unrestricted			01	12	0.00
net assets before non-operating activities		\$ (424)	\$ (302)	\$ (726)	\$ 50
Non-operating activities:					
Intercompany fees		(363)	363		7
Investment Income		726	200	726	2,412
Increase in unrestricted net assets		(61)	61	2	2,462
Unrestricted net assets, beginning of year		21,139	233	21,372	19,001
Translation adjustment	- 19-		(76)	(76)	(91)
Unrestricted net assets, end of year	\$	21,078	218	21,296	\$21,372