DURHAM REGION

WASTE MANAGEMENT ANNUAL REPORT

2016

Reduce • Reuse • Recycle • Recover


Please don't leave childr

Reduce

Waste reduction or waste prevention is all about minimizing waste at the source so it is not created in the first place. Waste is often due to the inefficient use of resources or poor planning. An example would be, using disposable or single-use products or buying food we don't need on impulse or because there's a special offer, and then wasting it. Reducing is always the best waste management option.

Reuse

Reuse means using a product more than once. Repairing products, selling them, or donating them to charity/community groups also create less waste. Reuse, when possible, is preferable to recycling because the item does not need to be reprocessed before it can be used again.

Recycle

Recycling is an effective way to manage products and packaging. It prevents these materials from being sent for disposal and allows for their remanufacture into new goods or products.

Recover

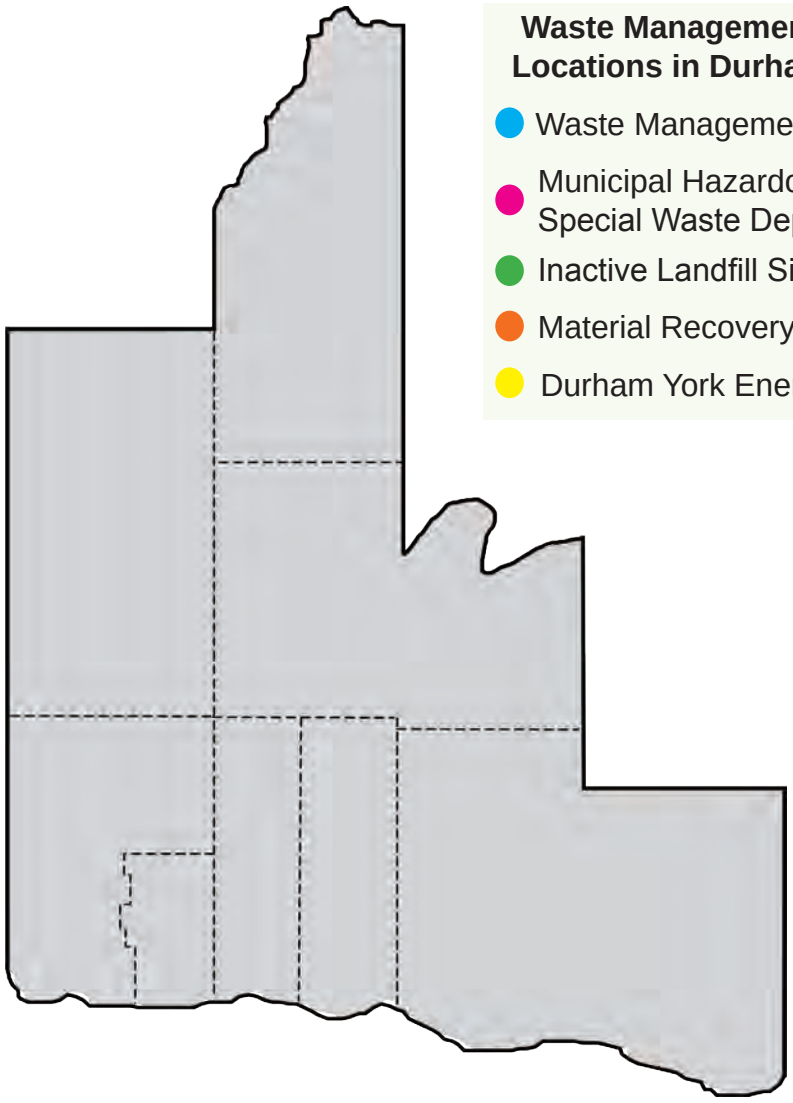
After we have reduced, reused and recycled (including composting) as much as possible, the remaining waste can be used to generate energy. This is known as 'recovery'. By recovering the energy from the waste, we are significantly decreasing methane produced by landfills and reducing the consumption of other fuels to produce energy.

Overview

Durham Region borders the City of Toronto to the east within the Greater Toronto Area and encompasses an area of approximately 2,590 square kilometres (1,000 square miles). The area is characterized by a variety of landscapes and communities. A series of major lakeshore urban communities contrast with a variety of small towns, villages, hamlets and farmland.

Durham Region is an upper-tier municipality; home to almost 220,000 households.

Within Durham Region are eight local municipalities: Ajax, Brock, Clarington, Oshawa, Pickering, Scugog, Uxbridge and Whitby.



Quick Facts

In 2016, Durham Region and our local municipalities diverted 79 per cent of collected materials from landfill disposal.

79%

2016 diversion from landfill including energy-from-waste management.

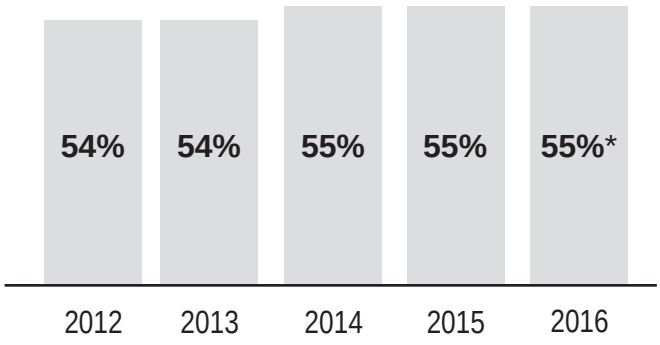
Total Tonnes Collected

Material Type	2012	2013	2014	2015	2016
Garbage	107,722	109,641	110,417	110,498	107,887
Organics	26,898	27,487	27,007	26,796	27,612
Blue Box	51,688	50,466	49,531	48,254	47,923
Yard Waste*	25,473	25,268	32,123*	27,554	24,730
Other Diversion - WMF	6,286	5,988	5,923	6,828	10,395
Special Events	131	96	61	71	65
Reuse	347	301	310	332	376
Total	218,545	219,245	225,374	220,333	218,989

** The increased yard waste tonnages in 2014 were due to the ice storm clean-up.*

Waste Diversion Ontario (WDO) diversion numbers from landfill after curbside collection and does not include Durham Region's approved energy-from-waste initiatives.

WDO Annual Waste Diversion



**2016 diversion data presented is unverified by WDO at time of printing.*

Roles and Responsibilities

Demonstrate leadership in waste reduction and reuse strategies, while managing residual waste effectively.

COLLECTION

Durham Region manages curbside collection of recyclables, organics, leaf and yard waste and residual garbage in Ajax, Brock, Clarington, Pickering, Scugog and Uxbridge.

The Region only collects recycling in Whitby and Oshawa, but partners with both municipalities to ensure uniform collection programs Region-wide.

Bulky, metal goods, waste electrical and electronic equipment, battery and porcelain collection is also provided to single family homes in Ajax, Brock, Clarington, Pickering, Scugog and Uxbridge by the Region.

In addition to curbside collection services, the Region, in partnership with local municipalities, offers local waste reduction initiatives such as:

- spring compost events; one in each municipality.
- special Waste Electrical and Electronic Equipment drop-off events and municipal hazardous and special waste drop-off events.
- reuse drop-off events were held from March to October, in partnership with local charities.

Over 380 apartment and condominium buildings and townhouses are also serviced by the Region of Durham's weekly waste collection programs.

Onsite collection services offered in the buildings include recyclables, battery and e-waste collection.

PROCESSING

Following collection, the processing of recyclables, organics, yard waste and garbage is handled by Durham Region. This is accomplished through a combination of Regional blue box processing, external contracts for the treatment of organics and yard waste and energy-from-waste recovery and landfill disposal for residual waste.

DISPOSAL

Durham Region manages disposal of residual garbage from all eight of its lower tier municipalities.

Within the Region's 4R hierarchy (reduce, reuse, recycle, recover), the preferred final disposal destination is energy-from-waste to maximize the benefit of capturing energy from residual waste.

The following is a list, broken down by local municipality, of the number of households that receive Durham Region waste collection services.

Curbside Collection Stops

Municipality	2012	2013	2014	2015	2016
Ajax	33,021	33,640	34,229	34,774	35,370
Brock	4,702	4,710	4,722	4,739	4,747
Clarington	29,106	29,678	30,218	30,751	31,443
Oshawa	46,188	46,645	47,230	47,878	48,616
Pickering	25,969	26,194	26,406	26,885	27,272
Scugog	8,187	8,194	8,206	8,245	8,265
Uxbridge	7,085	7,095	7,125	7,221	7,282
Whitby	37,647	37,987	38,262	38,455	38,944
Total	191,905	194,143	196,398	198,948	201,939

Stop counts (i.e. number of households), is determined by Municipal Property Assessment Corporation (MPAC).

Blue Box

Durham Region has a two-stream recycling program which requires that containers and paper materials be collected in separate Blue Boxes. Materials set-out at the curb and collected from multi-residential buildings are delivered to the Region's Material Recovery Facility (MRF) in Whitby for sorting and marketing.

Approximately 98 per cent of the material collected for recycling in Durham Region is marketed. The Region's materials are sold to brokers, mills and manufacturers locally and across North America. Materials are manufactured into a wide variety of products, preserving valuable natural resources. Also, revenues from the sale of recyclables offset the net cost of Durham's waste management programs.

The blue box made up 21 per cent of the total materials collected and processed in Durham Region in 2016.

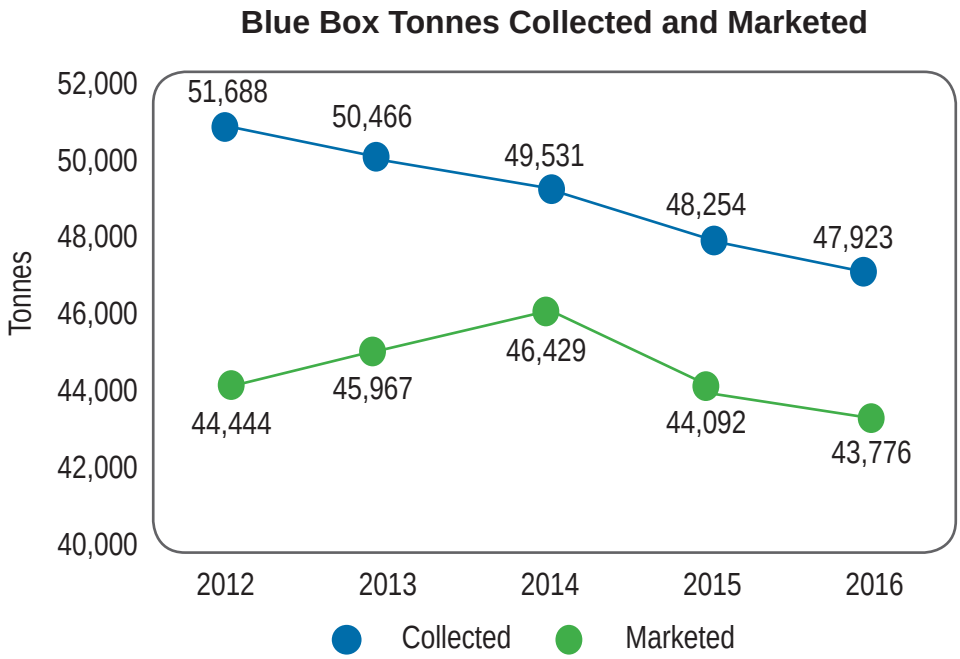
Provincial initiatives are shifting the responsibility for diversion of materials from municipalities to product and packaging producers with the November 30, 2016 proclamation of Bill 151, The Waste-Free Ontario Act. On December 16, 2016, the Province also released its final "Strategy for a Waste-Free Ontario: Building the Circular Economy" which includes four objectives and 15 actions to create a circular economy and minimize the use of raw materials, while maximizing the useful life of resources.

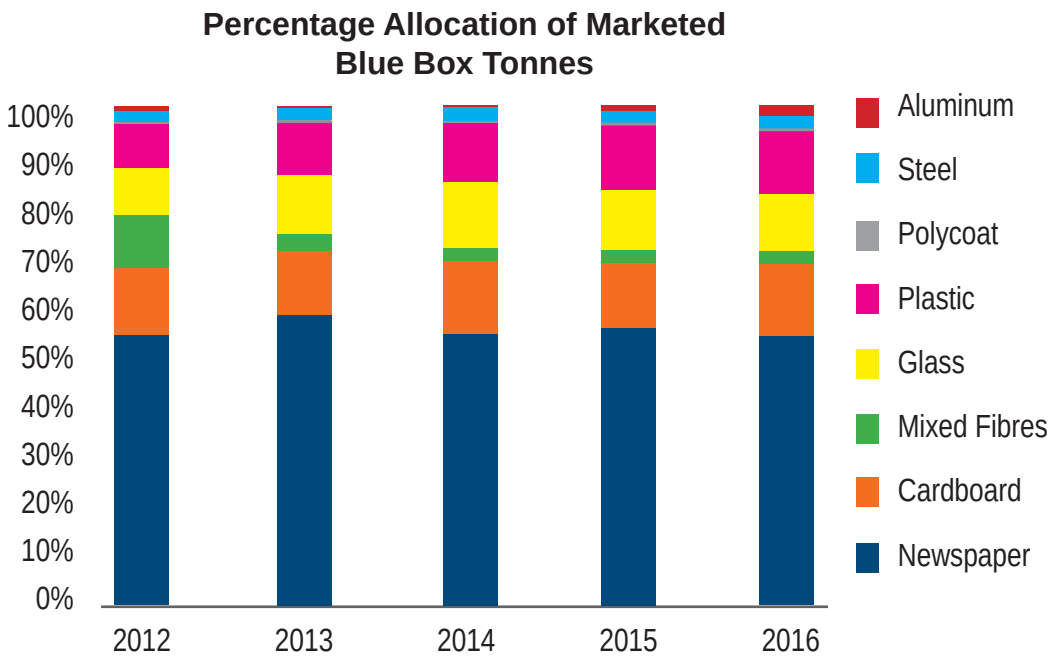
Objectives within the Provincial Strategy include:

- Enhancing provincial direction and oversight;
- Creating conditions to support sustainable end-markets;
- Enabling efficient and effective recovery systems; and,
- Increasing waste reduction and resource productivity.

New regulations related to the Waste Free Ontario Act are anticipated in the next year or two. While municipalities will continue to have responsibility for the collection, processing and disposal of organics and residual garbage, the long-standing designated diversion programs, including Blue Box, Household Hazardous and Waste (HHW), Waste Electrical and Electronic Equipment (WEEE), and used tire programs may change. One of the key objectives of the Strategy for a Waste Free Ontario is the "transition of existing waste diversion programs smoothly to new producer responsibility framework without disruption of services". Durham will continue to track the impacts of legislative changes and report them in future Annual Diversion Reports.

Despite population growth, total tonnes have decreased over the years. This is mainly due to the changing composition of blue box materials. There has been a significant increase in lightweight and high volume materials such as plastic and polycoat containers and a decrease in heavier, dense materials like newspaper.





Green Bin

Durham residents separate Green Bin organics from regular garbage and set them out at the curb each week in 47 litre Green Bins. Residents are required to use certified, 100 per cent compostable bags, paper liner bags, or wrap contents in newsprint before putting their organic material in the Green Bin for collection.

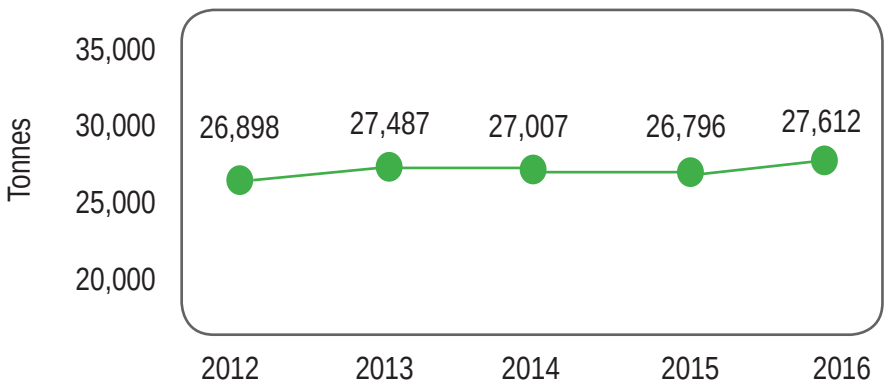
Processing of organic waste into compost currently represents 12 per cent of the Region's overall diversion accomplishment. In 2016, Durham Region residents generated approximately 27,612 tonnes of source separated organics.

Durham Region composts its organic waste at facilities in Pickering and Courtice. The majority of collected organic waste was processed and marketed to farmers, landscapers, and soil remediation firms.

The Region also receives finished compost for distribution back to residents at annual compost giveaway events in the spring each year.

In 2016, the Region launched a study to explore integrated waste management options for a long-term organics management plan which will include the presorting of organics and recyclables from the garbage and the anaerobic digestion of organic materials to produce a renewable natural gas and soil amendments.

Green Bin Tonnes Collected



Leaf and Yard Waste

Yard waste is collected 24 times per year. Six collections in the spring (April and May), 10 collections in the summer (June, July, August and September) and eight collections in the fall (October, November and December) with two additional Christmas tree collection weeks in January.

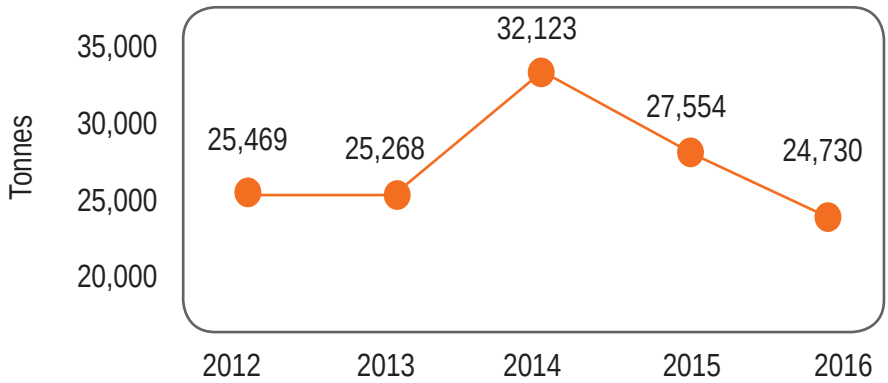
Brush, leaf and yard waste are collected in kraft paper yard waste bags, rigid reusable containers or tied bundles for outdoor windrow composting and as supplement in the Green Bin organics composting process. Christmas trees are collected separately in each municipality during specified weeks in January and are chipped for various gardening and landscaping uses.

Additionally, residents may drop off yard waste materials at any of the Region's waste management facilities–disposal rates apply.

All yard waste collected in the Region continues to be processed at facilities in Pickering and Courtice.

In 2016, Durham Region residents generated approximately 24,730 tonnes of yard waste, representing 11 per cent of the total waste stream.

Yard Waste Tonnes Collected



** The increased yard waste tonnages in 2014 were due to the ice storm clean-up.*

Multi-Residential Waste Programs

Over 380 apartment and condominium buildings and townhouses, representing over 24,000 households are serviced by the Region of Durham's waste collection programs. A communal waste area with front-end garbage bins and rolling recycling totes are located on these approved sites, and collected by our contractors. To be eligible for this service, buildings and townhouse complexes must meet the Region's "Technical and Risk Management Guidelines for Waste Collection Services on Private Property" which allows the Region's contracted vehicles to access the properties.

Waste diversion programs, specifically designed for the multi-residential sites in Ontario, have been introduced at regionally serviced sites. Waste Electronic and Electric Equipment (WEEE) recycling program, in partnership with Ontario Electronic Stewardship, is now available in 59 sites and continues to grow. This recycling service provides residents with a convenient way to recycle their end-of-life or unwanted electronics in their building free of charge.

Multi-residential battery program continues to grow and is now offered in 96 sites. Drums and pails are available to the buildings and residents are able to drop off used batteries for collection in a convenient location.

In late 2016, a textile pilot program in partnership with Diabetes Canada was approved and specially designed indoor collection bins have been introduced. Results of the pilot will be released in 2017.

A total of 2,080 tonnes of blue box recyclables, 15 tonnes of WEEE, and 1 tonne of batteries were collected in 2016 from the multi-residential sites.

Diversion rates however continue to be less than 25% in this housing sector. Introduction and ongoing promotion of the diversion programs will continue in 2017. Currently the design of the waste storage and collection areas in existing multi-residential sites create numerous challenges for the residents and the Region to effectively manage and divert waste.

An organics management strategy is under review by the Region. The strategy will play a key role to capture and divert organic material presently not diverted from multi-residential homes. This report is expected in early 2017.

Battery Collection

Durham's curbside battery collection program continues to maximize the capture of batteries, while keeping mercury, cadmium, and other heavy metals out of the waste stream. Household batteries are actively managed in Ontario and recycled responsibly through proper processing and conservation of valuable resources.

Durham's battery processing vendor recovers the steel, zinc and manganese from each battery giving these materials another chance to be reused. They provide feedstock to the local steel industry and micro-nutrients to the local agricultural industry for biofuel crop production. This battery technology is capable of recycling and recovering up to 92 per cent of components found in spent household batteries.

Since the first battery collection in November 2012, Durham Region has diverted more than 146 tonnes (146,000 kilograms) of household batteries from the waste stream. It has also served as a catalyst for curbside battery recycling throughout Ontario with over 60 municipalities starting or considering their own programs.

Durham Region is proud to have pioneered this successful diversion initiative. Waste staff continue to engage, educate and promote the curbside battery program with Durham residents, including its enhanced partnership and messaging timed with the local Fire Departments check smoke detector/change battery campaign in order to keep the program momentum trending upwards.

Year	Tonnes	Total tonnes collected to date
2012	22.46	22.46
2013	23.90	46.36
2014	32.08	78.44
2015	33.74	112.18
2016	33.37	145.55

Electronic Waste

Unwanted electronic and electrical equipment is classified as waste electronic and electrical equipment (WEEE). While electronic materials can contain harmful substances such as mercury, lead and cadmium, which require special handling, there are also valuable and scarce resources in electronics, such as copper, aluminum and other precious metals; recycling these materials helps reduce the need for new raw materials. One tonne of cell phones can yield up to 30 times more gold than one tone of ore (UrbanMining.org, “Striking Gold in Cell Phones”, article, June 3, 2010)

Durham Region provides residents with a network of drop off facilities for waste electronics, including Oshawa, Scugog and Brock Waste Management Facilities.

The Region also provides a call-in curbside collection program for waste electronics in Pickering, Ajax, Scugog, Uxbridge, Brock and Clarington.

In 2016, 462 tonnes of WEEE materials were collected at Durham Region waste management facilities and 39 tonnes through the call-in curbside program. Additionally, the Region organized eight WEEE recycling special events in 2016. These special events combined with Durham Region’s drop-off depots provide for the safe recycling of WEEE materials.

2016

WEEE Source	Tonnes
WMF	462
Curbside Collection	39
Events	29
Total	530

Other Diversion Programs

Construction and Demolition Materials

In 2015, Durham Region issued and awarded a one year pilot contract including an additional year extension, for the haulage and processing of mixed residential Construction and Demolition (C&D) material from the Region's Waste Management Facility (WMF) in Oshawa.

The objective of the pilot was to gain insight into the composition of the mixed C&D material received at the WMF's and more importantly, divert non-combustible and problematic waste from the DYEC. In 2016 the pilot continued and was expanded to the other WMF's in Scugog and Brock.

Upon completion of the one year pilot, approximately 4,925 tonnes of mixed C&D was accepted and processed from all three WMF sites.

Tires

The Used Tires program, launched on Sept. 1, 2009, is operated by the Ontario Tire Stewardship, and is funded by the tire industry.

The program covers the collection, transportation and recycling of all used tires including those of cars, commercial trucks and off-road vehicles.

All used or scrap tires can be disposed of at the Region's waste management facilities. Dedicated loads of tires are exempt from fees if delivered separately from regular garbage.

In 2016, the Region diverted almost 200 tonnes of tires.

Used Cooking Oil

Durham Region's Sewer Use By-law Enforcement Program educates residents on how to safely dispose of fats, oils and grease (FOG).

Although it may be in liquid form when you dispose of it, once it enters the cold sewer system, it solidifies and accumulates inside sewer pipes. When FOG meets other items in the sewer system that should not be flushed (such as rags and wipes), it can form large clumps or balls, causing major sewer clogs.

Used cooking oil can be dropped off for recycling at any one of the Region's waste management facilities free of charge.

In 2016, Durham Region collected 12 tonnes of used cooking oil for recycling which was processed creating bio-diesel fuels.

Drywall

The Region's drywall recycling program recycles all clean drywall including off-cut material. In 2016, this program diverted almost 280 tonnes of material from disposal.

Drywall, also known as gypsum wallboard, is recycled in a closed-loop process where gypsum material is returned to the drywall manufacturer to re-enter the manufacturing process.

The paper removed from the gypsum wallboard is processed and recycled in a variety of applications including shipment to farms for use as animal bedding.

Acceptable material may be dropped off at any of Durham Region's waste management facilities.

Foam Packaging

In January 2012, the Region executed a five-year agreement to expand the polystyrene (EPS) recycling program to all three waste management facilities (WMF).

The EPS recycling program includes white expanded polystyrene foam packing only. Loads containing this foam cushion packaging are accepted at all Durham WMFs free of charge.

The material is collected from the Region and recycled into fire-resistant commercial insulation products.

Through this program, a total of 6 tonnes of polystyrene was diverted from disposal in 2016.

Porcelain

In February 2012, the Region tested the residential curbside collection of porcelain bathroom fixtures as part of an expanded curbside recycling pilot. The porcelain program is now permanent and is offered in Pickering, Ajax, Clarington, Brock, Scugog and Uxbridge, as well as the Region's Waste Management Facilities (WMF) in Oshawa, Port Perry and Brock.

This program diverted 383 tonnes of material from disposal in 2016, comprised of 174 tonnes collected through the curbside collection and an additional 209 tonnes collected at the WMFs.

Household Hazardous Waste (HHW)

The Region provides residents with a network of facilities and special events where residents can drop off household hazardous waste (HHW). Through specialized contract services at these locations, HHW is recycled, or treated and disposed of in an environmentally responsible manner.

Current HHW drop-off locations include the waste management facilities in Oshawa, Port Perry and Brock. The Region also has an HHW depot at 1220 Squires Beach Rd. in Pickering.

In 2016, 1,185 tonnes of HHW materials was collected at Regional depots and events.

Both regional depots and retail take-back locations ensure materials are safely managed to end-of-life and divert harmful substances from landfill, waterways and forests. Many of these items contain materials that can be recovered, refined and reused in the manufacturing of new products, reducing the need for virgin resources.

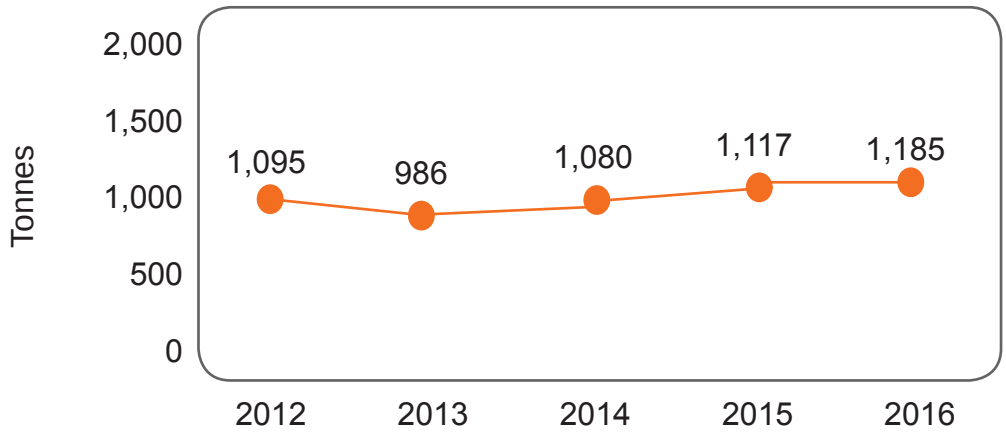
Stewardship Ontario and Product Care Association continue to maintain the HHW plan. All information on designated HHW materials can be found at:

- Stewardship Ontario *makethedrop.ca*
- Product Care Association *regeneration.ca*

2016

HHW Source	Tonnes
Brock	48
Scugog	188
Oshawa	702
Pickering	231
Events	16
Total	1,185

HHW Tonnes Collected



Residual Garbage

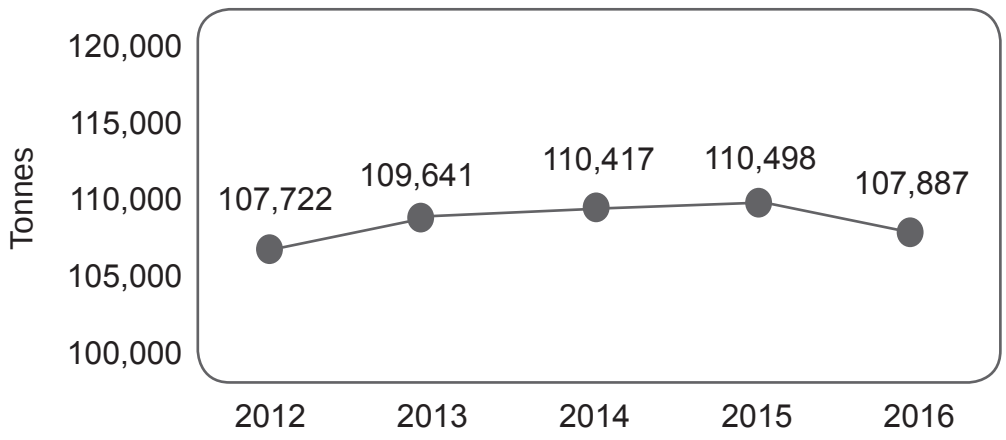
After all waste diversion efforts have been utilized, Durham Region manages its remaining residual garbage primarily through energy recovery.

The Durham York Energy Centre (DYEC) is a waste management facility that produces energy from the combustion of garbage. The DYEC recovers energy, generates electricity and steam, captures residual metals, and reduces the volume of waste going to landfill by up to 90 percent. The DYEC started Commercial Operations on January 29, 2016.

The DYEC is designed to safely process 140,000 tonnes per year of non-hazardous residential garbage that remains after maximizing waste diversion programs; reducing, reusing, recycling and composting in Durham and York Regions. Of the 140,000 tonnes of processing capacity at the DYEC, 110,000 tonnes is assigned for Durham's use.
Overall, the facility processed approximately 129,000 tonnes of garbage, while recovering approximately 3,600 tonnes of metal and generating approximately 90,000 MWh of electricity for sale to the provincial grid. Annually, the DYEC produces enough energy in the form of electricity to power approximately 10,000 homes and helps conserve fossil fuels.

By using state-of-the-art pollution control systems and proven, reliable energy from waste technology, the DYEC meets the most stringent environmental standards and significantly reduces greenhouse gas emissions compared to the existing landfill options. The latest independent stack test to monitor all emissions from the stack was completed in November 2016 and illustrates that the facility is currently operating well within the DYEC environmental compliance approval requirements.

Garbage Waste Collected



Landfill Perpetual Care Programs

Oshawa Landfill

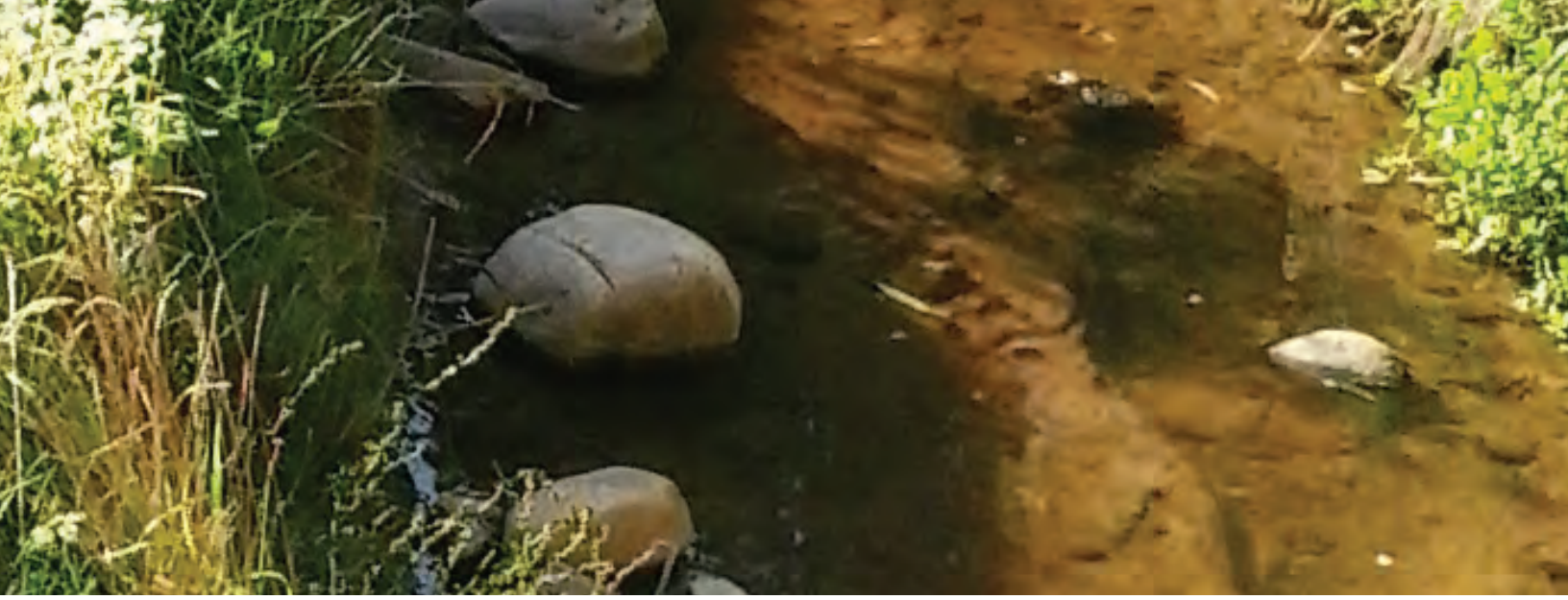
A post-closure care and monitoring plan was completed for the Oshawa Landfill site in 2013. The report's findings and recommendations were used to plan maintenance activities and capital projects in 2016.

Erosion and slope stability issues have historically occurred in the northern end of the landfill. The Region performed a detailed stream evaluation in 2015 to identify impacts from surrounding creeks and surface water flow causing erosion around the landfill and prioritize the areas of concern and the appropriate solutions. In 2015, a slope stabilization project was undertaken, involving re-alignment of the adjacent creek, re-grading of the underlying soils and placement of a sand filter layer to reduce the severity of the slope. The area was then covered with "Filtersoxx" media – long tubes of fine mesh filled with compost and native seed mixture – to act as a final cover and introduce vegetation to reduce erosion. The "Filtersoxx" was used in this area to test the effectiveness of this product before being used in other areas of the site.

In 2016, regular monitoring of the area showed rapid revegetation and the integrity of the slope has maintained. Based on the results of this stream evaluation other areas were identified as areas of concern. The Region plans to rehabilitate other areas around the landfill in a similar manner in 2017/18.

In 2016, an old active gas collection system was tested to see if it was still capturing and venting landfill gas. This test determined that the system is no longer functioning and should be decommissioned. The decommissioning was completed in 2016.

Also in 2016, truck access roads were constructed on the site to further maintenance efforts by re-grading areas of the landfill where settling of the waste has occurred. This will also improve the overall grade of the site, discourage ponding and allow water to drain off of the landfill more efficiently. This work is also anticipated to be conducted in 2017/18.



Brock Landfill

Regular inspections and landscaping of the final landfill cover were conducted in 2016 as part of the on-going maintenance program. An annual surface and groundwater monitoring report was submitted in June 2016 to the Ministry of Environment and Climate Change, as required under the Environmental Compliance Approval for the site.

The Brock Waste Management Facility continues to accept recyclable and residual waste from Brock residents for processing at the Material Recovery Facility and the DYEC, respectively.

Other Landfill Perpetual Care Activities

The Region maintains five other closed landfill sites. All sites are monitored regularly and inspected at least twice per year and maintained as needed. Maintenance often includes installing or replacing monitoring wells and re-grading landfill covers.

All of these sites have individual environmental monitoring programs that are tailored to each specific site. Monitoring includes sampling for surface and groundwater and landfill gas.

Blackstock Landfill Mining Pilot Project

Landfill mining is typically undertaken to increase capacity for disposal, however, the proposed mining project at Blackstock is a restorative project with the objective of returning the land to public use or green space. This involves the removal of waste from the site for processing at the DYEC and removal of recyclables for diversion. The excavated soil would be used as backfill and the site would be graded and covered with hydro-seed to establish a natural vegetated cover.

A Request for Pre-Qualification was issued in June 2016 to ensure that only general contractors with landfill mining experience or similar remediation work would be pre-qualified to bid on the construction tender. The current work plan is to award the tender by fall 2017. Golder Associates was retained in early 2016 to provide construction oversight. Approval for the project was issued by the MOECC on July 4, 2016 through an amendment to the site's Environmental Compliance Approval. Waste excavation is to commence in 2017.

Community Outreach

The Region actively promotes its waste diversion programs through an extensive communication and education program. Key objectives include:

- Promoting participation in waste diversion programs.
- Encouraging an understanding of correct participation in programs.
- Promoting compliance with Regional waste management policies and by-laws.

Durham Region participated in the following community outreach initiatives in 2016:

- Eight spring compost events, one in each municipality.
- Eight special waste electrical and electronic equipment drop-off events and four household hazardous waste drop-off events.
- Eight reuse drop-off events were held from March to October, partnering with local charities.
- Promotion of waste diversion programs during National Public Works Week.
- In February 2016, a public meeting was held at the DYEC. Durham and York regions provided educational displays on current waste diversion programs, such as Durham's Integrated Waste Management Program and York's SM4RT Living Plan. Covanta provided updates on the construction and operation of the Durham York Energy Centre.
- In October 2016, the Region held its fifth community Waste Fair in the Township of Uxbridge. This free, family-friendly event focused on educating residents about responsible waste management.
- The Region's Waste Management app was improved with added functionality for users to schedule special curbside collections of bulky items, porcelain bathroom fixtures and waste electrical and electronic waste. The special collection web-based and mobile "booking tool" will also provide confirmation notifications, instructions and reminders of their special collection, so users know how and when to set their waste out for collection.
- "Durham Works", the Works Department's external newsletter was distributed twice to approximately 220,000 households in the Region. It featured information on the Durham Region waste app, Green Bin and Blue Box Programs, curbside battery collection, and updates on the DYEC.

In 2016, new school programs have been developed for Grades K-12 using expectations outlined in the Ontario Ministry of Education curriculum documents. These programs were developed for grade divisions at the elementary level (K- grade 3, grades 4-6 and grades 7-8); and for specific courses at the secondary level (grades 9-12).

Students have the opportunity to learn about Durham Region's Integrated Waste Management System through interactive presentations and hands-on activities. The content and delivery format for these education programs support the Ontario EcoSchools Program and provincial policy directions on Environmental Education and Experiential Education.

2016 Participation in Durham Region

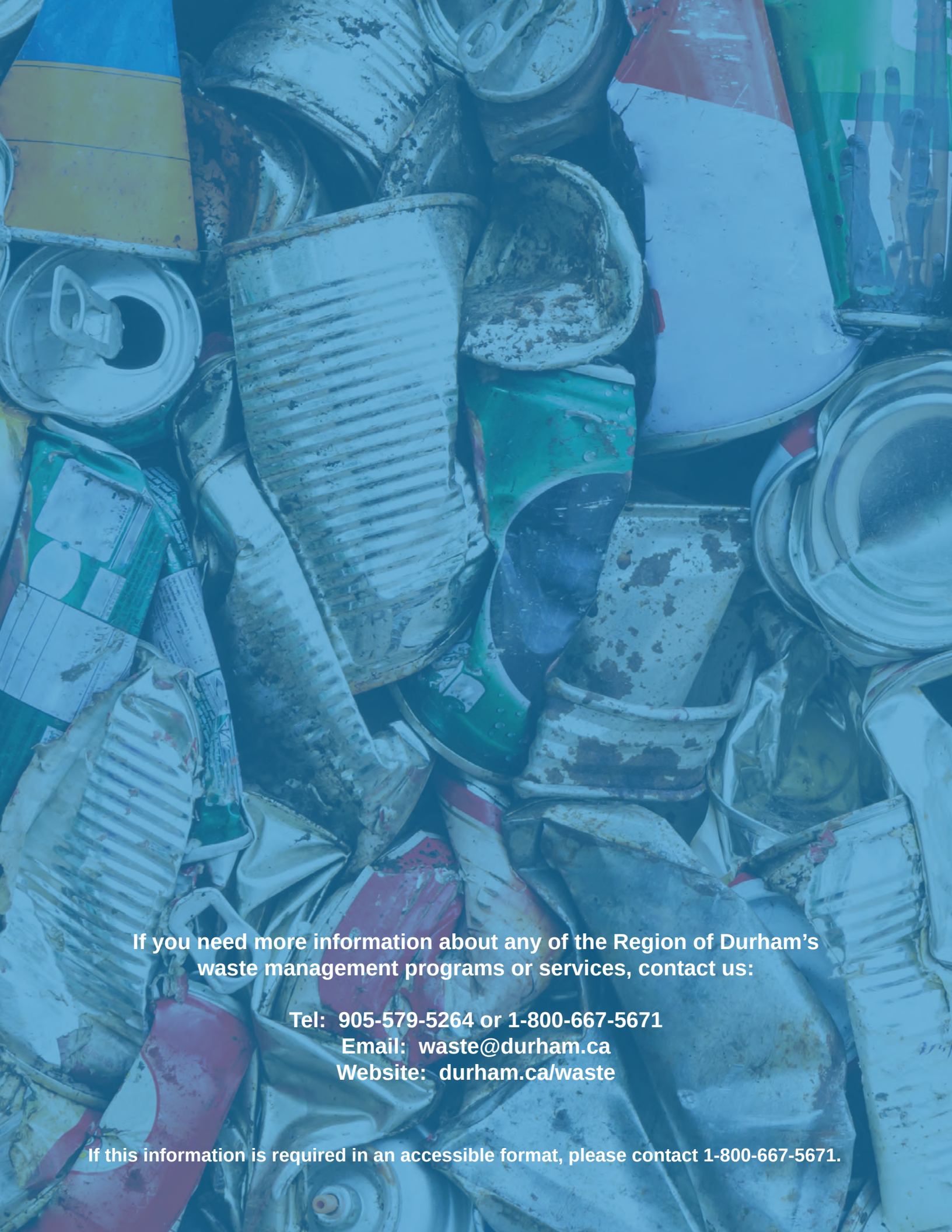
School Board/ Organization	Number of Schools/Groups	Total Number of Participants
Durham District School Board (DDSB)	11	1,335
Durham Catholic District School Board (DCDSB)	8	1,065
Kawartha Pine Ridge District School Board (KPRDSB)	3	172
Private Elementry Schools	2	41
Other (e.g. community group)	3	62
Total	27	2,675

Approximately 80 per cent of the school program requests were for the elementary grades (K-Grade 8)

REGION OF DURHAM
TONNES OF RESIDENTIAL WASTE MANAGED (2016)

Descriptions	Curbside Garbage	Apartment Garbage	Bulky/Other Goods	Curbside Recycling	Apartment Recycling	Food Composting	Leaf & Yard Composting	Composter Credits	Grasscycling Credits	Other Diversion Programs	Total Waste	Waste Diversion
1 Curbside & multi-residential wastes												
Pickering	10,841	946	281	6,253	327	4,497	3,227	833	484	94	27,784	57%
Ajax	13,651	1,487	255	7,620	341	6,175	3,243	713	486	98	34,068	55%
Whitby	13,356	2,567	560	9,028	350	6,356	5,037	1,201	756	54	39,265	58%
Oshawa	19,172	8,003	245	10,499	999	5,296	5,695	1,710	854	11	52,483	48%
Clarington	12,657	111	386	7,269	63	3,319	3,367	648	505	56	28,383	54%
Scugog	2,964	142	49	1,738	0	793	986	330	148	22	7,171	56%
Uxbridge	2,883	140	72	1,640	0	801	918	271	138	26	6,888	55%
Brock	1,832	0	79	1,237	0	374	391	151	59	16	4,139	54%
sub-totals	**77,356**	**13,397**	**1,927**	**45,283**	**2,080**	**27,612**	**22,865**	**5,856**	**3,430**	**376**	**200,181**	**54%**
		92,679		**47,362**		**50,477**		**9,286**				
2 Regional waste disposal sites												
Oshawa	0	0	11,016	352	0	0	1,244	0	187	6,770	19,569	44%
Scugog	0	0	3,316	162	0	0	454	0	68	2,431	6,432	48%
Pickering	0	0	0	0	0	0	0	0	0	231	231	100%
Brock	0	0	876	46	0	0	166	0	25	941	2,055	57%
MRF	0	0	0	0	0	0	0	0	0	22	22	100%
sub-total	**0**	**0**	**15,208**	**560**	**0**	**0**	**1,865**	**0**	**280**	**10,395**	**28,308**	**46%**
3 Special Events												
HHW	0	0	0	0	0	0	0	0	0	16	16	100%
E-Waste	0	0	0	0	0	0	0	0	0	29	29	100%
Re-use	0	0	0	0	0	0	0	0	0	20	20	100%
sub-total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**65**	**65**	**100%**
4 Summary												
municipal residents	77,356	13,397	1,927	45,283	2,080	27,612	22,865	5,856	3,430	376	200,181	54%
Regional waste sites	0	0	15,208	560	0	0	1,865	0	280	10,395	28,028	46%
Special Events	0	0	0	0	0	0	0	0	0	65	65	100%
sub-total	**77,356**	**13,397**	**17,135**	**45,843**	**2,080**	**27,612**	**24,730**	**5,856**	**3,709**	**10,837**	**228,274**	
Total Tonnes, with credits		**107,887**		**47,923**		**52,341**		**9,566**		**10,837**	**228,554**	
Total Tonnes, managed		**107,887**		**47,923**		**52,341**				**10,837**	**218,989**	
Percentages of Total	**34%**	**6%**	**7%**	**20%**	**1%**	**12%**	**11%**	**3%**	**2%**	**5%**	**100%**	
Waste diversion rate				**53%**							April 25, 2017	

*It must be noted that, while the waste reported in this Table derives a 53 percent diversion rate, Waste Diversion Ontario, the agency which officially tracks and reports on municipal waste diversion rates in Ontario, adjusts municipally reported waste tonnages to account for deposit return, home composting, grass cycling and other re-use activities across Ontario. In 2016, these adjustments increased Durham's overall waste diversion rate to 55 percent.



If you need more information about any of the Region of Durham's waste management programs or services, contact us:

Tel: 905-579-5264 or 1-800-667-5671
Email: waste@durham.ca
Website: durham.ca/waste

If this information is required in an accessible format, please contact 1-800-667-5671.