



ANNUAL REPORT

Essex-Windsor Residential Waste Diversion 2017

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Essex-Windsor Residential Waste Diversion

Annual Report for January – December 2017

1 Introduction

The Annual Waste Diversion Report provides information on the waste diversion activities carried out by the Essex-Windsor Solid Waste Authority during 2017 in compliance with Condition 5.2 of the Environmental Assessment Approval for the Essex-Windsor Regional Landfill.

1.1 2017 Residential Waste Diversion Rate

This report also provides the Authority with the ability to track any changes in the percentage of waste diverted through its waste diversion initiatives from year to year.

In 2017, the seven County of Essex municipalities and the City of Windsor delivered 104,150 tonnes of residential waste to the Regional Landfill. During the same time period, 54,726 tonnes of residential waste were diverted from the landfill via the blue and red box recycling program, municipal hazardous or special waste program, composting, and other waste diversion programs. These waste diversion initiatives resulted in a 2017 residential diversion rate of 34%. The 2016 diversion rate was 35%.

The 2017 and the 2016 residential diversion rate calculation formula is demonstrated in the following diagrams:

The 2017 residential diversion rate is calculated using the following formula:

$$\frac{54,746 \text{ Tonnes Diverted (see Table 12, page 19)}}{104,150 \text{ Tonnes of Residential Refuse collected curbside} + 2,146 \text{ Residuals} + 54,746 \text{ Diverted Tonnes}} = \frac{54,746}{161,042} \times 100 = 34.0\%$$

The 2016 residential diversion rate is calculated using the following formula:

$$\frac{54,653 \text{ Tonnes Diverted (see Table 12, page 19)}}{98,600 \text{ Tonnes of Residential Refuse collected curbside} + 2,765 \text{ Residuals} + 54,653 \text{ Diverted Tonnes}} = \frac{54,653}{156,018} \times 100 = 35.0\%$$

2 Programs

2.1 Residential Recycling Program

The tonnage of residential recyclable materials collected curbside during 2017 totaled 26,511 tonnes. The overall tonnage of recyclables collected in 2017 was slightly lower compared to the 26,957 tonnes collected in 2016.

A monthly summary and comparison of the tonnage collected curbside from the City and the County in 2016 and 2017 is shown in Table 1. Collection of recyclables in the County was carried out under contract in 2017 by Windsor Disposal Services Ltd. Collection of recyclables in Windsor was carried out by Green For Life Environmental Inc.

All materials were processed at the Authority owned Essex-Windsor Recycling Centres, located at E.C. Row and Central Avenue, Windsor under contract to Windsor Disposal Services.

In addition to the residential recyclables collected curbside, 1,142 tonnes of recyclables were delivered to the Authority's Public Drop Off Depots in 2017. This is up 29% compared to the 882 tonnes delivered in 2016.

Table 1: Residential Recycling Collection Tonnages by Month for 2017 with 2016 Comparison

Month	County of Essex	City of Windsor	2017 Combined Tonnage	2016 Comparable Tonnage
January	1,170.09	1,170.96	2,341.05	2,198.37
February	929.68	948.18	1,877.86	1,894.09
March	1,081.61	1,094.73	2,176.34	2,204.19
April	1,044.57	1,100.04	2,144.61	2,292.55
May	1,217.84	1,239.23	2,457.07	2,290.31
June	1,144.99	1,159.94	2,304.93	2,298.92
July	1,040.56	1,029.21	2,069.77	2,126.21
August	1,056.04	1,167.19	2,223.23	2,245.27
September	1,082.23	1,120.03	2,202.26	2,370.25

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Month	County of Essex	City of Windsor	2017 Combined Tonnage	2016 Comparable Tonnage
October	1,052.60	1,100.31	2,152.91	2,197.29
November	1,172.34	1,230.99	2,403.33	2,386.01
December	1,089.64	1,068.95	2,158.59	2,453.62
Column Totals:	13,082.19	13,429.76	26,511.95	26,957.08

Table 1 Notes: The County of Essex includes the Town of Amherstburg, the Town of Essex, the Town of Kingsville, the Town of Lakeshore, the Town of LaSalle, the Municipality of Leamington and the Town of Tecumseh.

2.2 Recycling Residual Disposal

Recycling Residual is material that is left over after the processing of the recyclable materials collected and delivered to the Recycling Centre. The residuals consist of contaminated materials, non-recyclable materials, and packaging materials used to secure recyclables placed in the recycle box. A total of 2,146.13 tonnes of recycling residuals was disposed of in 2017.

3 Tonnes Marketed

For the purposes of waste diversion calculations, tonnes marketed are used instead of the tonnage collected curbside. The tonnes marketed by material type are shown in Table 2. The Essex-Windsor Solid Waste Authority markets all materials processed through the Recycling Centre, and retains 100% of the revenue from the sale of materials. Revenue from the sale of material in 2017 was approximately \$4,241,411 (see Table 3) representing a basket-of-goods revenue of approximately \$173/tonne compared to a basket-of-goods revenue of \$143/tonne in 2016. A brief discussion on market conditions and prices for each of the materials follows.

3.1 Fibres

Old Newspaper (ONP)

In 2017, ONP#8 prices ranged from a high of \$160 to a low of \$94 per tonne. The average price for 2017 was \$125 per tonne compared to an average price of \$115 per tonne in 2016.

Old Corrugated Cardboard (OCC)

The price for old corrugated cardboard ranged from a high of \$284 per tonne to a low of \$155 per tonne in 2017. The average price per tonne was \$213 compared to \$145 per tonne in 2016.

Cardboard/Boxboard (Hardpack)

(Example: Cereal Boxes)

Prices for a cardboard/boxboard mix ranged from a high of \$248 to a low of \$113 per tonne in 2017. The 2017 average price was \$177 compared to \$102 per tonne in 2016.

Fine Paper

Two loads of fine paper were sold in 2017 with an average price of \$256 per tonne. This is an increase compared to the \$235 per tonne received in 2016.

3.2 Containers

Steel Cans

The pricing for steel cans ranged from a high of \$301 per tonne to a low of \$222 per tonne during 2017. The 2017 average price was \$260 per tonne compared to \$185 per tonne in 2016.

Aluminum Cans

The pricing for aluminium ranged from a high of \$2,039 per tonne to a low of \$1,563 per tonne. The 2017 average price was \$1,824 per tonne compared to \$1,659 in 2016.

Glass

The average price for clear glass, marketed for new containers, in 2017 was \$33 per tonne, which is lower compared to the 2016 average price of \$36 per tonne. Clear glass is the only product that is not marketed FOB (Freight On Board) at the Essex-Windsor Recycling Centre. Mixed coloured glass was delivered to the Regional Landfill for use as road base.

Polyethylene terephthalate (PET)

(Example: Plastic Water Bottles)

PET prices ranged from a high of \$456 per tonne to a low of \$310 per tonne in 2017. The average price was \$397 per tonne in 2017 compared to the 2016 average price of \$277 per tonne.

High-Density Polyethylene (HDPE)

(Example: Laundry Soap Bottles)

HDPE prices ranged from a high of \$733 per tonne to a low of \$366 per tonne in 2017. The average price was \$520 per tonne in 2017 compared to the 2016 average price of \$553 per tonne.

Polycoat and Gable Top

(Example: Milk Cartons)

Five loads of polycoat were shipped out in 2017 at an average price of \$65 per tonne compared to the average price of \$122 per tonne in 2016.

Mixed Plastics

(Example: tubs & lids, clamshells, trays, cups, all plastic bottles, excludes polystyrene and plastic film bags)

In 2017, mixed plastic prices ranged from a high of \$75 per tonne to a low of \$19 per tonne. The average price was \$44 per tonne in 2017 compared to the average price of \$82 per tonne in 2016.

Table 2A: Marketed Fibres Summary for 2016 with comparison to 2017 Tonnages

Fibre Material	2017 Tonnage	2016 Tonnage	% Change
Old News Paper (ONP#8)	12,948	13,443	-3.7
Cardboard (OCC)	3,629	3,220	12.7
Hardpack (OCC/OBB mix)	1,786	2,032	-12.1
Fine Paper	39	41	-4.9
Fibre Totals:	18,402	18,736	-1.8

Table 2B: Marketed Containers Summary for 2016 Tonnes with 2017 Comparison

Container Material	2017 Tonnage	2016 Tonnage	% Change
Clear Glass	222	191	16.2
Mixed Glass	2,205	1,820	21.2
Steel Cans	781	747	4.6
Aluminum Cans	306	293	4.4
Polyethylene terephthalate (PET)	1,466	1,186	23.6
High-Density Polyethylene (HDPE)	247	320	-22.8
Polycoat/Gable top	102	64	59.4
Mixed Plastics	768	442	73.8
Container Totals:	6,097	5,063	20.4

Figure 1: Percent of Tonnes for 2017 Marketed Recyclables

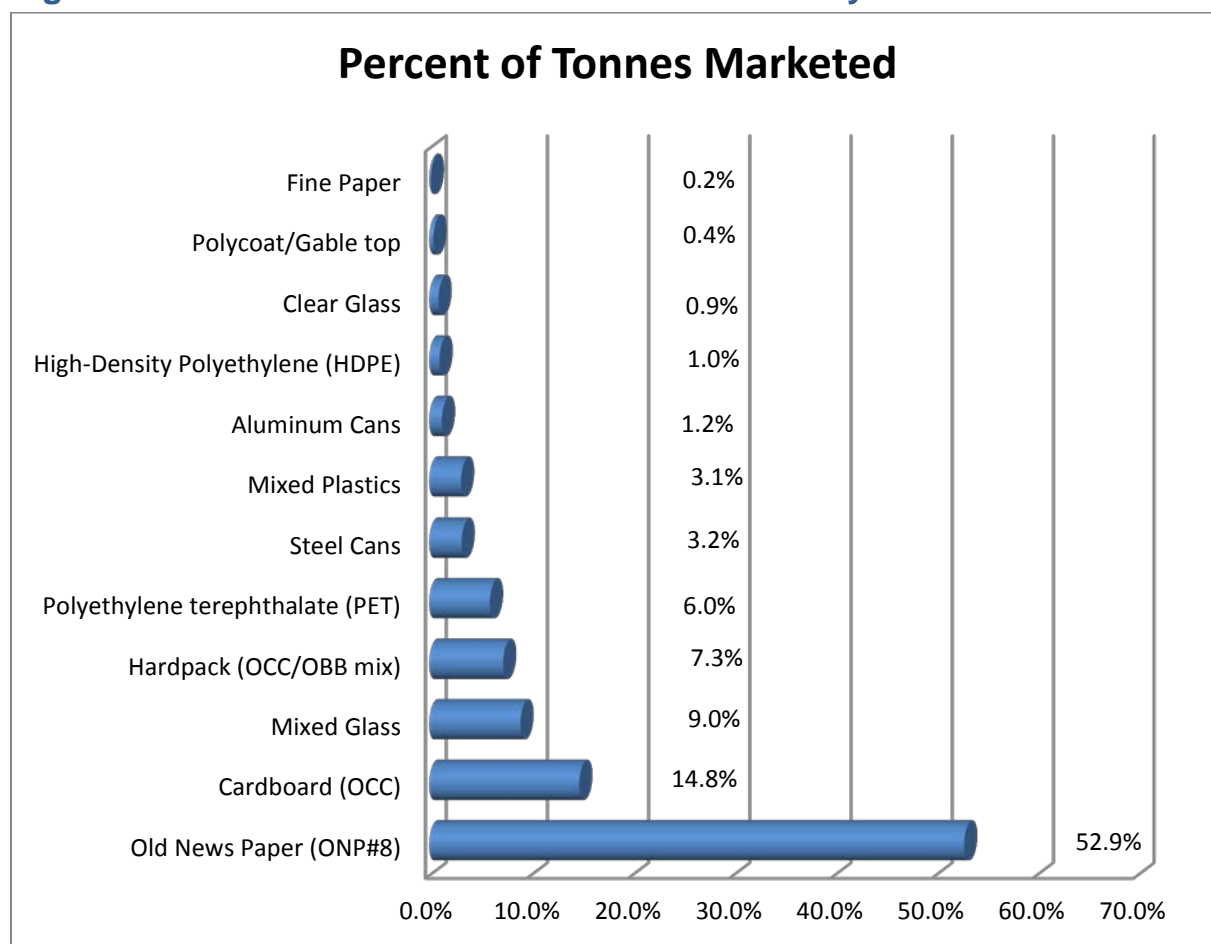


Table 2C: Residential Recyclables Marketed in 2016 with 2017 Comparison

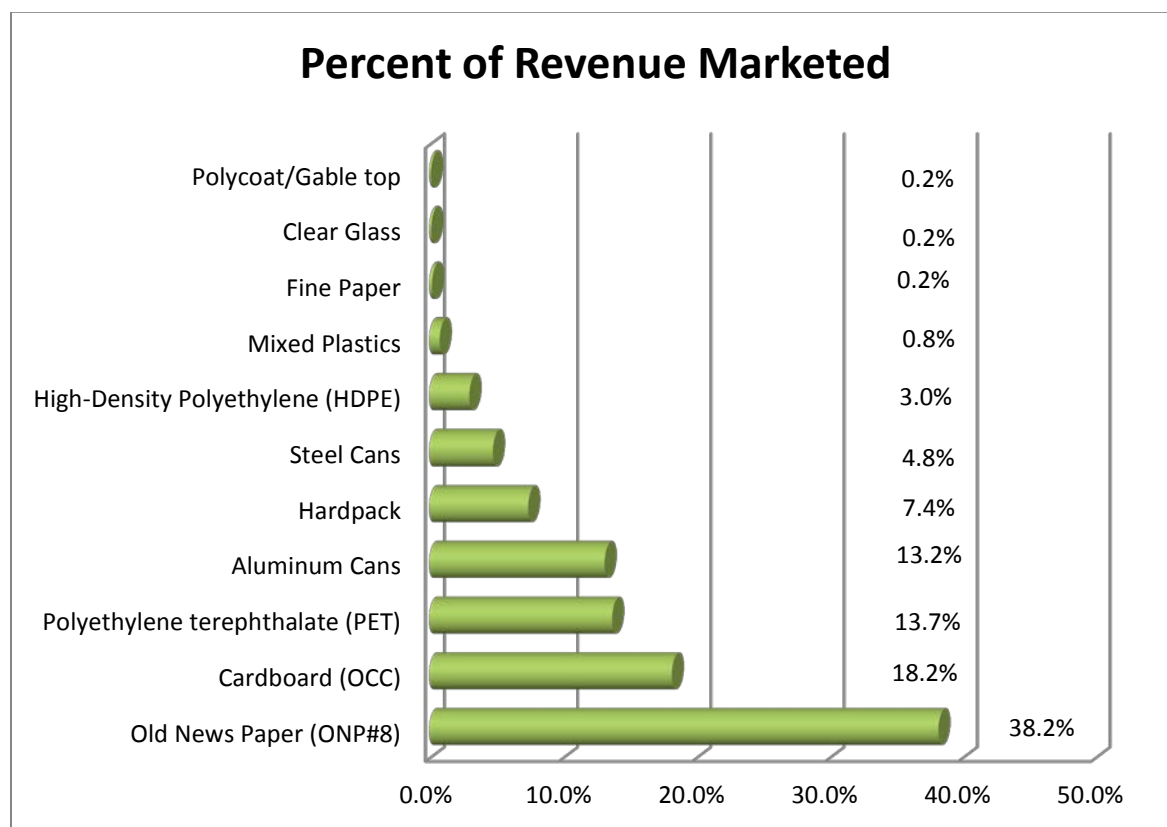
Tonnes Marketed	2017 Tonnage	2016 Tonnage
a) Total Tonnes Marketed	24,499	23,799
b) ICI Tonnes	(965)	(754)
Net Marketed Residential Recyclables	23,543	23,045

Table 2C Notes: a) Total Tonnes Marketed less b) ICI Tonnes = Net Marketed Residential Recyclables.

Table 3: Revenue Comparison for 2016 to 2017

Recyclable Material	2017 Revenue	2016 Revenue
Old News Paper (ONP#8)	\$1,621,616	\$1,550,284
Cardboard (OCC)	\$772,861	\$466,090
Hardpack	\$315,455	\$207,906
Fine Paper	\$9,978	\$9,520
Clear Glass	\$7,362	\$6,821
Steel Cans	\$203,364	\$138,564
Aluminum Cans	\$558,943	\$485,400
Polyethylene terephthalate (PET)	\$582,801	\$328,375
High-Density Polyethylene (HDPE)	\$128,524	\$176,933
Polycoat/Gable top	\$6,556	\$7,740
Mixed Plastics	\$33,951	\$36,422
Total Revenue	\$4,241,411	\$3,414,055

Figure 2: Percent of Revenue Marketed in 2017



4 Other Residential Recycling Programs

4.1 White Goods

White Goods, such as fridges, stoves, air conditioners, washers, dryers, freezers dishwashers, etc. were restricted from landfill disposal in 1991. Curbside collection of white goods from County municipalities captured 1,463 units (approximately 132 tonnes) in 2017.

The City of Windsor did not operate a white goods collection program during 2017.

There were also 156 tonnes (150 tonnes in 2016) of white goods delivered to the Public Drop Off Depots for a combined total of approximately 288 tonnes. Based on the Waste Diversion Ontario (RPRA) Datacall residual percentage of 20%, approximately 230 tonnes of white goods were recycled. Table 4A details the white goods collection program for each of the municipalities in the County of Essex by month during 2017.

Table 4A: Essex County White Goods Collected in 2017 by Month

Month	Tecumseh	Essex	LaSalle	Amherstburg	Leamington	Kingsville	Total for Month
January	0	21	18	27	9	11	86
February	0	15	17	18	15	20	85
March	0	20	16	21	14	22	93
April	10	19	33	39	21	15	137
May	25	16	30	21	15	24	131
June	16	17	29	30	33	26	151
July	18	18	29	29	24	14	132
August	16	21	16	24	16	29	122
September	19	16	36	32	18	30	151
October	12	15	27	30	12	24	120
November	14	27	27	28	20	39	155
December	11	16	23	20	11	19	100
Total Units	141	221	301	319	208	273	1,463

Table 4A Notes: 1,463 units with the average weight of 90 kilograms per unit results in diversion of approximately 132 tonnes; There were no tonnage reported for Lakeshore in 2017.

Table 4B: Summary of White Goods Diversion for 2017

White Goods Tonnage Summary	2017 Tonnes
Curbside Collection Converted to Tonnes	132
Drop Off Depot Tonnes	156
Total White Goods Tonnage	288
Less 20% Residual Calculation Amount	58
Total Tonnes Recycled and Diverted	230

4.2 Tires

Bins for automotive tire recycling are located at all Essex-Windsor disposal facilities. The Ontario Tire Stewardship Used Tires Program as calculated in the RPR Datacall resulted in diversion of approximately 2,830.90 tonnes in the Essex-Windsor area.

4.3 Scrap Metal

There are 40-yard roll off bins located at the Public Drop-off Depot for collection of ferrous and non-ferrous scrap metal material. The metals are sold through a competitive bid process to local scrap dealers. In 2017, approximately 529.69 tonnes of metals were collected and recycled. While the Authority does not advertise that it accepts other metal household objects besides steel cans in the blue box program, the Authority does receive and does try to capture any metal objects which are called "mixed metal". An additional 82.97 tonnes of mixed metals were received in 2017 for a total of 612.66 tonnes of scrap metal.

4.4 Electronics Recycling

Under contract to the Authority, Greentec supplies roll off bins for the collection of electronics at the Authority's Public Drop-off Depots. EWSWA staff place the electronic items from the public in the bin. In 2017, a total of 370.61 tonnes of computers, televisions, audio visual equipment, and various electronic items were collected through the Waste Electrical and Electronics Equipment (WEEE) stewardship program. Based on a residual portion of 20% the total electronics recycled was approximately 296 tonnes.

4.5 Deposit/Return Program

The Authority implemented a capture program at its Material Recovery Facility for deposit/return containers that were placed curbside for collection as part of the blue box program. Currently aluminum beer containers and glass wine and spirit bottles are captured through the program. During 2017, approximately 20.2 tonnes of deposit/return containers were received at the MRF and are included as part of the 2,196.94 tonnes that were diverted throughout Essex-Windsor as part of the Deposit/Return & Stewardship Program. The 2,197 diversion tonnage figure is calculated as part of the 2017 Resource Productivity and Recovery Authority Datacall and is based on the Essex-Windsor population as determined by the latest Statistics Canada Census data.

Table 5: Other Recyclables Tonnage Comparison 2016 and 2017

Recyclable Material	2017 Tonnage	2016 Tonnage	% Change
White Goods (all sites)	230	238	-3.36
Used Tire Program	2,831	2,831	0.00
Scrap & Mixed Metal	613	568	7.92
Electronics	296	310	-4.52
Deposit/Return & Stewardship Program	2,197	2,197	0.00
Total Other Recyclables	6,167	6,144	0.37%

Table 5 Notes: RPRA Datacall calculation is based on population for Used Tire Program and Deposit/Return & Stewardship Program in the Essex-Windsor area as reported by the Statistics Canada Census. .

5 Residential Organics

5.1 Yard Waste

Grass, leaves, tree trimmings and brush are restricted from disposal at the Essex-Windsor Regional Landfill Site. As a result many local municipalities have established separate collection systems for yard waste, including special collections in January for Christmas trees. In addition, individual residents and grounds maintenance contractors brought yard waste to one of the three yard waste depots operated by the Essex-Windsor Solid Waste Authority in 2017.

The Essex-Windsor area accepts the use of paper bags, wheeled carts, garbage bins and cardboard boxes for the collection of yard waste. Plastic bags are not accepted. Approximately 29,875 tonnes of yard waste were received in 2017, up 23% compared to the 24,277 tonnes in 2016.

Table 6A: 2017 Yard Waste Summary for all sites

Material Type	Windsor Public Drop Off	Kingsville Transfer Station 2	Regional Landfill
Municipal Delivered	9,942	1,386	3,570
Residential Delivered	3,269	788	144
Total Res. Organics	13,211	2,174	3,714
ICI Organics and Pallets	539	335	9,902
Grand Total (Tonnes)	13,750	2,509	13,616

Table 6A Notes: ICI is Industrial, Commercial and Institutional delivered material type.

Table 6B: Yard Waste Tonnage 2017 comparison to 2016

Material Type	2017 Tonnage	2016 Tonnage
Municipal Delivered	14,898	14,939
Residential Delivered	4,201	4,674
Total Res. Organics	19,099	19,613
ICI Organics and Pallets	10,776	4,664
Grand TOTAL (Tonnes)	29,875	24,277

Table 6B Notes: ICI is Industrial, Commercial and Institutional delivered material type.

5.2 Screened Compost Sales

The Authority takes the organics and yard waste it receives and turns this material into compost. Compost is nutrient rich organic material which is essential for plant growth. The composting process involves grinding up yard waste and placing it in long rows called 'windrows'. The material is turned frequently and the temperature is maintained above 55 degrees Celsius in order to kill any pathogens or weed seeds. Once the compost has matured it is tested, screened and sold for use in landscaping and for flower and vegetable gardens.

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In 2017 compost was sold in bulk, delivered, bag your own, and prepackaged. The results are listed in Table 7.

Table 7: Compost Sales 2017 Summary

Compost Material	2017 Quantity Sold	2017 Tonnes
Delivered	823 cubic yards	484
Bulk Sales	25,841 cubic yards	15,195
Bag Your Own Compost	1,471 bags	40
Prepackaged Garden Gold Compost	5,214 bags	99

Table 7 Notes: Prepackaged bag weights are based on approximately 19 kg/bag; bag your own compost is approximately 27 kg/bag and bulk compost is approximately 588 kg/cubic yard.

Under contract to the Authority, Frank Dupuis Landscaping and Trucking provided delivery services for the sale of compost to local residents. Also 15,195 tonnes in bulk sales were sold to residents and businesses at EWSWA Depots. Additionally about 5,214 prepackaged bags of compost were sold at the Depots and the Truckload Sales. Many residents also bagged their own compost at one of the depots. The combined total weight of compost sold was approximately 15,818 tonnes. Compost Sales totaled \$208,884 in 2017.

5.3 Backyard Composting

Backyard composters (BYC) with the brand name "The Earth Machine" and "The Green Cone" were sold to Essex-Windsor residents in 2017. The Earth Machine was sold through local Home Hardware stores year round. Both units were sold during the Truckload Sale held in the City of Windsor. Approximately 19 Earth Machine units were sold through the Home Hardware stores (31 units in 2016) and 351 units during the truckload and miscellaneous sales (294 in 2016) for a total of 370 units. There were 101 Green Cones sold in 2017 (29 in 2016), bringing the cumulative total to 573 Green Cones distributed since 2010, when they were first introduced to the area. The combined backyard composting containers distributed in 2017 was 471 units bringing the total number of BYC units sold since 1988 to 39,119 units.

Current research has indicated that approximately 100 kg/year/BYC is diverted as a result of the backyard composting program. This translates into 3,912 tonnes of organic waste diverted from the landfill through this program. This does not take into account homemade composters or

composting done independent of the Authority's backyard composting program.

Table 8: Residential Organic Waste Reduction Comparison 2015 to 2017

Residential Organic Programs	2017 Tonnes	2016 Tonnes	2015 Tonnes
BYC Program	3,912	3,865	3,829
Mulching Blades	1,343	1,343	1,343
Yard Waste (Residential)	19,099	19,613	22,678
Total Residential Organics	24,354	24,821	27,850

Table 8 Notes: The mulching blade program was no longer directly offered through EWSWA after 2001 though mulching blades and mowers are used by residents in the area but cannot be measured for the purposes of this report, therefore no increase in diversion is indicated.

6 Promotion and Education

6.1 School and Community Presentations

In 2017, Authority staff conducted 161 presentations to over 15,192 individuals at various locations; 116 school presentations were made to approximately 9,239 students. An additional 45 presentations were provided to community groups, event attendees, open houses etc. with attendance of approximately 5,953 people. The emphasis in 2017 was placed on plastic; how to reduce, reuse and recycle.

6.2 Special Community Events

Authority staff organized displays and talked to area residents at various special events scheduled at the Horticultural Show, Earth Day Celebrations and the Truckload Sale. There were 111 special events serviced with recycling in 2017 resulting in 4 tonnes of recyclables collected throughout Essex County and the City of Windsor. Many special event venues have implemented their own ongoing recycling program throughout the season (April through September) and do not require the per event service offered by EWSWA.

6.3 On-going Public Education Activities

The Authority maintains a Waste Reduction Hotline (1-800-563-3377), a Website ([EWSWA Home Page at www.ewswa.org](http://www.ewswa.org)) and a newsletter called

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Enviro-Tips which is delivered once a year to each household and which has also been converted to electronic format and is available online.

E-newsletters are employed due to the low cost and the ability to reach residents quickly and effectively. Industry standards indicate that a decent open rate is anything between 20-33%. The Authority has 1,532 e-newsletter subscribers. The spring e-newsletter had an open rate of 45%, the Waste Reduction Week e-newsletter had a 58% open rate and the Backyard Composter and Green Cone e-newsletter had a 45% open rate.

The EWSWA website is updated on a regular basis to provide detailed information and public education to residents. Topics covered range from waste management and reduction to details about waste diversion activities. Residents have access to instructions, tenders, reports, calendars, acceptable recycle box materials, incentives etc. In 2017 there were approximately 49,395 hits on the website bringing the total hits to 196,929 hits since the launch of the new website in 2012; the monthly average hits in 2017 were 4,116 with duration of approximately 1:46 minutes. The 'What Goes Where' material search database resulted in 7,604 searches in 2017.

EWSWA also continues to maintain a presence in social media sites such as Facebook and Twitter. EWSWA started with 30 Twitter followers on January 1, 2015 and had 579 followers by December 31, 2017 as well as 447 followers on Facebook.

6.4 Gold Star Program

In 2016, the Authority launched a new recycling incentive program aimed at increasing public awareness regarding the red and blue box recycling program. Residents were encouraged to register for a new "Gold Recycling Box" provided they passed a curbside examination of their recycling which proved that they were recycling correctly. The program's ultimate objective is to decrease the amount of contamination being put out by residents and thereby decrease the amount of contamination at the recycling centres. The program was renewed in 2017 and 2,050 residents registered for the "Gold Star" program. In 2017, 1,000 households were inspected and 604 gold boxes were awarded. The remaining households will be inspected in 2018.

7 Municipal Hazardous or Special Wastes (MHSW) Programs

7.1 MHSW Depots

The Essex-Windsor Solid Waste Authority opened its Windsor MHSW Depot in October of 1995. In addition to the Windsor facility, the Authority opened a second MHSW Depot at Transfer Station No. 2 in the Town of Kingsville in 1997. A third depot was opened at the Essex-Windsor Regional Landfill Site in October 2013. The Depots replaced the annual Household Chemical Waste Days held in Essex-Windsor. All facilities were operated year round in 2017. A total of 502,763 litres and 115,831 kg of MHSW materials were delivered to the sites. See Table 9A and 9B for details.

Reuse Centre

A Reuse Centre has been operated at the Windsor MHSW facility since its opening in 1995.

Paint is distributed in both 1-gallon and 5-gallon pails for reuse. According to the records, 3,296 residents accessed the Reuse Centre and took 56,208 products or approximately 80,077 kg of paint and miscellaneous materials in 2017 compared to 50,125 products or 71,100 kg of reusable materials in 2016.

Demand for the Reuse Centre remains high, however quantities available depend largely on how good the products are that are delivered by households to the facility.

Table 9A: Municipal Hazardous or Special Waste 2017 Litres

Material	MHSW from Facilities	Reuse Centre Quantities	Total Litres
Adhesives/Flammable Organics	64,663	19,063	83,726
Aerosols	7,860	1,313	9,173
Antifreeze (Glycol)	8,059	0	8,059
Corrosive Liquid	5,875	1,287	7,162
Gasoline/Fuels	3,340	0	3,340
Inorganic Acids	945	0	945
Paints & Coatings	219,678	49,941	269,619
Pesticides	5,957	1,004	6,961
Recyclable Waste Oil	186,386	0	186,386
Total MHSW Litres	502,763	72,608	575,371

Table 9B: Municipal Hazardous or Special Waste 2017 Kilograms

Material	MHSW from Facilities	Reuse Centre Quantities	Total kg
Car Batteries	27,490	0	27,490
Dry Cell Batteries	3,150	0	3,150
Fire Extinguishers	1,280	0	1,280
Fluorescents/Misc. Lamps	21,042	0	21,042
Inorganic Oxidizers	2,930	7,469	10,399
Mercury (HG items)/Lead	38	0	38
Pharmaceuticals	865	0	865
Plastic Used Oil Containers	18,587	0	18,587
Propane Cylinders	4,115	0	4,115
Propane Tanks	15,999	0	15,999
Rechargeable & Mixed Batteries	19,420	0	19,420
Waste Oil Filters	915	0	915
Total MHSW kilograms	115,831	7,469	123,300

Table 10: MHSW Diversion Comparison (Tonnes) 2016 with 2017

	2017 Tonnes	2016 Tonnes
MHSW Recycled or Reused	699	657
MHSW not Recycled	(17)	(14)
Total MHSW Diverted	682	643

7.2 Waste Motor Oil

Waste motor oil is collected curbside with the residential recycling program. As well, residents are able to deliver oil to the MHSW facilities. The quantity of waste motor oil collected during 2017 was 186,386 litres, down by 4.8% compared to the 195,681 litres collected in 2016. The quantity of oil collected by month is shown in Table 11 with historical data over four years.

Table 11: Motor Oil Collected (Litres) 2014 through 2017

Month	2017 Litres	2016 Litres	2015 Litres	2014 Litres
January	14,680	9,390	9,775	9,375
February	8,700	12,480	6,475	4,840
March	7,311	10,160	10,745	7,730
April	20,320	20,771	23,840	24,075
May	21,600	22,683	19,925	24,140
June	18,400	21,685	20,700	20,250
July	20,575	16,310	17,790	25,215
August	17,300	18,245	17,085	17,355
September	14,450	20,401	18,975	20,030
October	14,900	16,716	17,495	20,705
November	20,200	18,840	16,860	15,240
December	7,950	8,000	13,195	12,060
Column Totals:	186,386	195,681	192,860	201,015

8 Overall Summary of Residential Diversion Quantities

8.1 Residential Waste Diversion

The following table summarizes the residential waste diversion activities detailed in this report.

Table 12: Residential Waste Diversion Activity

Residential Waste Diversion Summary	2017 Tonnes	2016 Tonnes
Net Marketed Recyclables-Table 2C	23,543	23,045
Other Recycling Programs-Table 5	6,167	6,144
Yard Waste, BYC & Mulching Blades-Table 8	24,354	24,821
MHSW Waste including Motor Oil-Table 10	682	643
Total Residential Tonnes Diverted	54,746	54,653

Table 12 Notes: Net Marketed Recyclables refer to Table 2; MHSW Wastes refer to Table 10; Other Recycling refers to Table 5; Yard waste, BYC programs & mulching blades refer to Table 8.

Residential Waste Diversion 2017 Report

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